



CE Made in Italy  
DESIGNED AND MANUFACTURED  
AT RAASM - ITALY

## FLUIDS AND LUBRICATION EQUIPMENT

### Automotive Lubrication



### Industrial Hose reels



### Industrial Pumps



technology, quality, functionality

Catalogue No 219  
1<sup>st</sup> January 2011





**ADVANCED FLUID  
MANAGEMENT SOLUTIONS**

founded in 1975



**RAASM**

FLUIDS AND LUBRICATION EQUIPMENT







General view of RAASM Area in San Zeno di Cassola - Vicenza

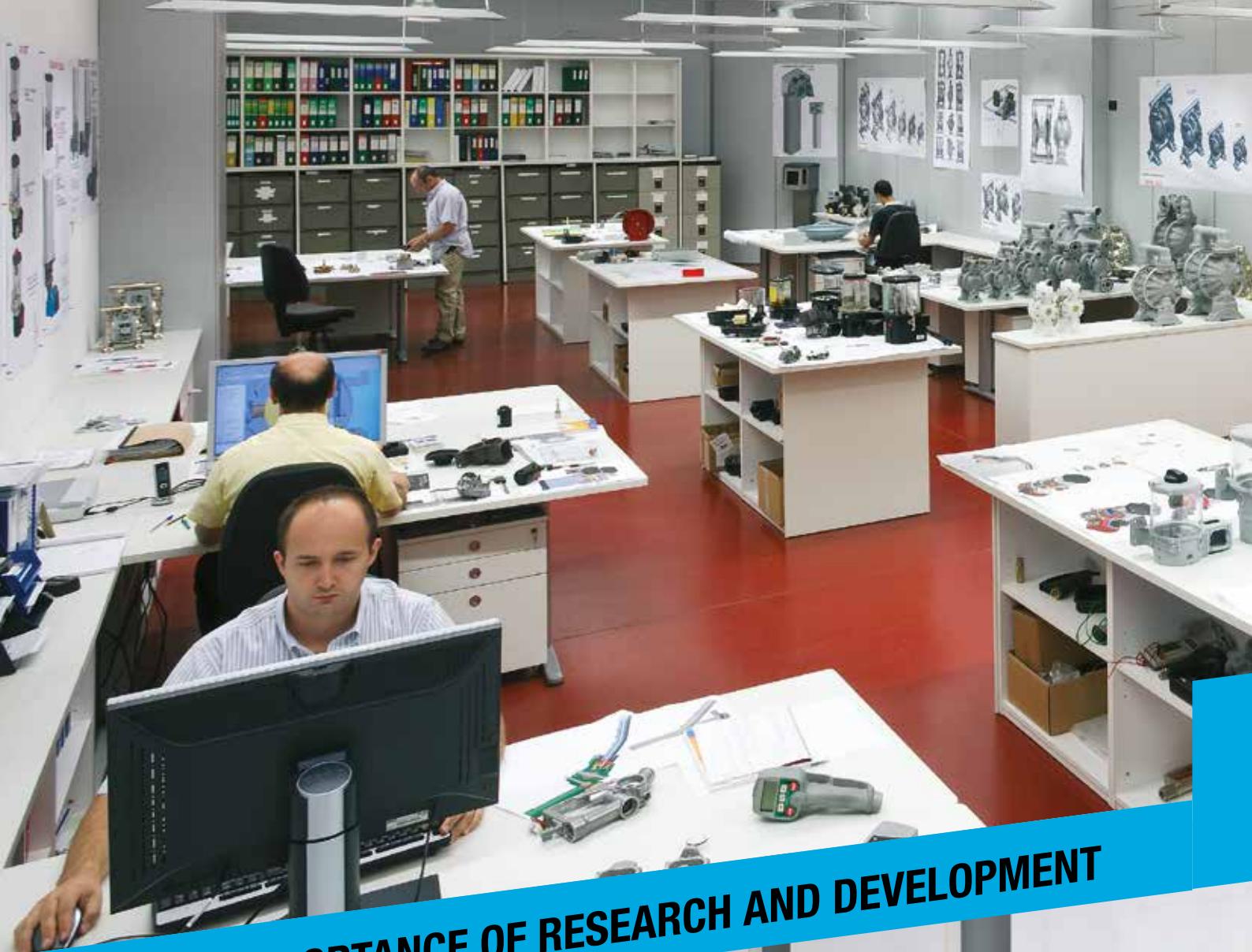




ADVANCED FLUID  
MANAGEMENT SOLUTIONS



**DESIGN IS AN**  
***ART***



## THE IMPORTANCE OF RESEARCH AND DEVELOPMENT





The starting point for the entire production cycle is the research and design of new solutions that will become cutting-edge products.





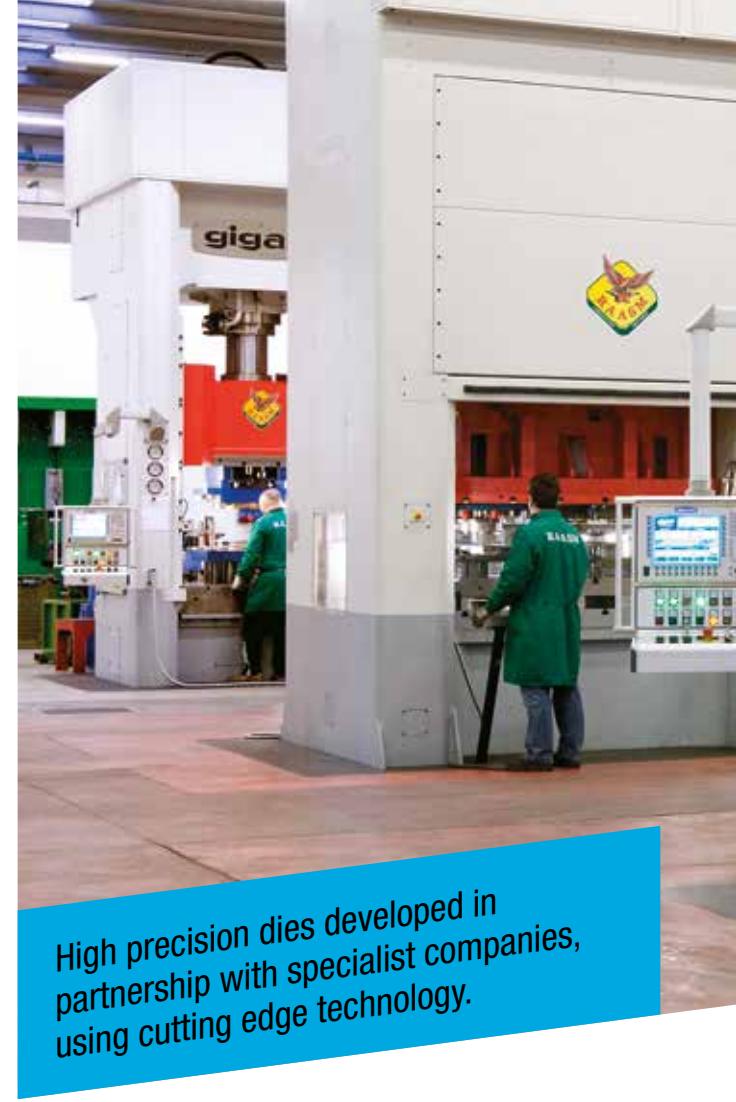
PRODUCTS DEVELOPED AND TESTED IN EVERY SINGLE DETAIL





A sophisticated testing room allows to check carefully the quality of the new products before introduce them in the market.





High precision dies developed in partnership with specialist companies, using cutting edge technology.

## FULL ROBOTIZED WELDING





Welding quality is guaranteed by:

- the material used
- a high-tech robot
- an appropriate welding programme



- precise torch positioning
- control of temperature
- testing and a complete visual check of all welds on each product

...FOR THE HIGHEST QUALITY ALSO  
IN PAINTING

The painting is guaranteed by innovative systems with lead and heavy metal-free non-toxic polyester resin for exteriors, with average thickness of 80  $\mu$ .

The painting is highly resistant to atmospheric agents and impacts.

The painted products undergo "saline mist resistance" corrosion testing according to UNI 9227 standards.



Computerised laser cutting enables the execution of complex work requiring extreme precision.



The excellence of the die-castings is ensured by the consistent quality of the castings obtained by means of computerised control of the presses and castings during the course of production.



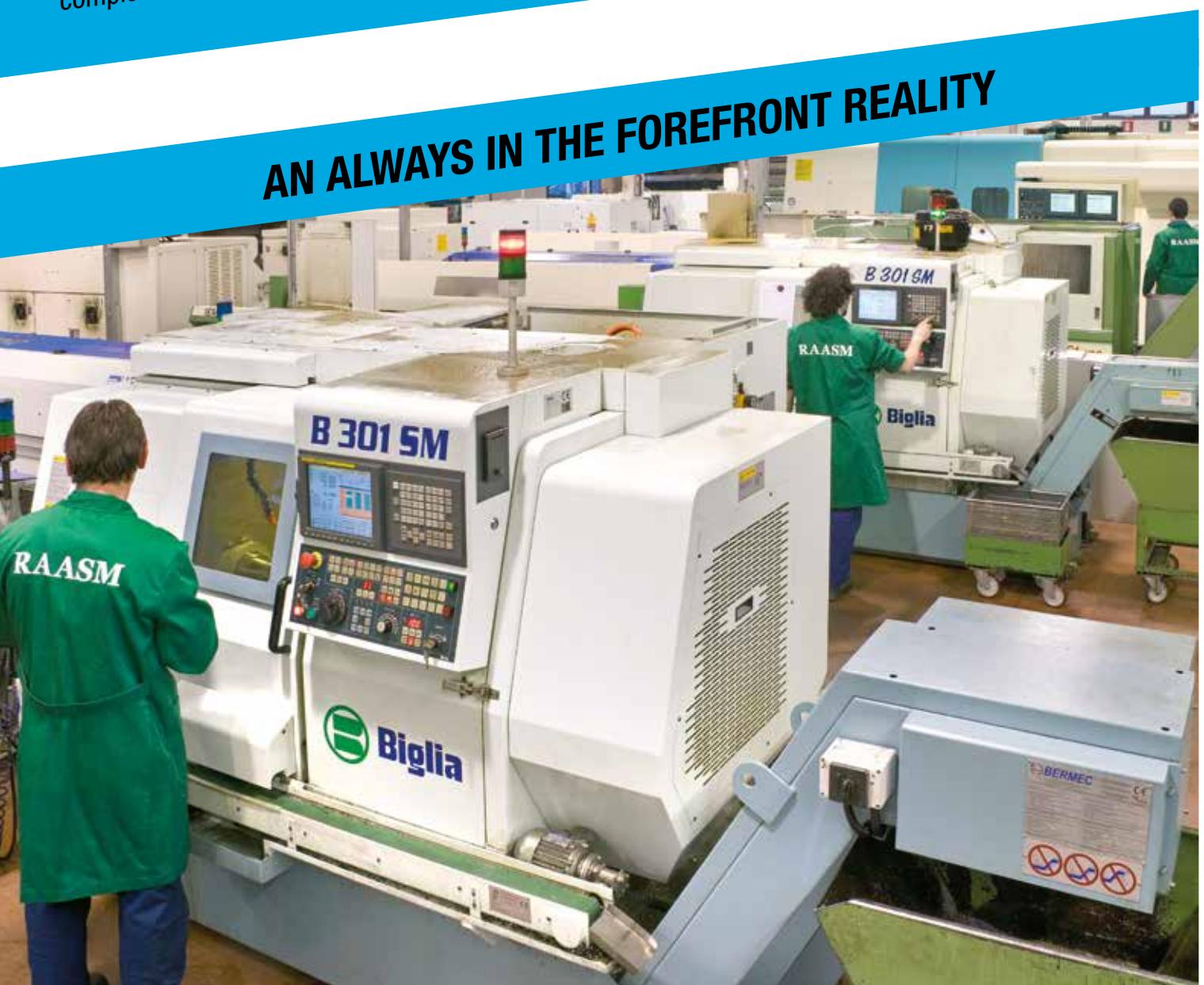
Robotised injection moulding of components in thermoplastic material with subsequent structural inspection of the moulded pieces.





Turning, with state of the art machinery, as a result of continuing investment. Allowing the manufacture of complex components.

## AN ALWAYS IN THE FOREFRONT REALITY





High precision instruments allow a careful control of the parts produced by evaluating their features: dimensions, hardness, roughness, etc.

## CONTROL ROOM FOR BETTER QUALITY





A WAREHOUSE CONSTANTLY WELL-STOCKED  
...to grant a fast and efficient spare parts  
replacement service

Automated vertical store complete with  
travelling lift for storage and handling  
of material.

...a static structure for a dynamic system.  
Control is carried out by means of company  
management software, offering efficiency  
and maximum flexibility.



**MODULA**



**SYSTEM LOGISTICS**

**SYSTEM  
LOGISTICS**

**RAASM**

**52**



Pumps assembling with final control using a special software to verify pump's functionality.

## EFFICIENT AND WELL ORGANIZED ASSEMBLY LINES





Careful packaging with special protections to avoid any damage during transport.





## A WAREHOUSE CONSTANTLY WELL-STOCKED



Our inventory of finished products allows us to have the most popular items always available and ready to be shipped.



## ...to provide a fast and efficient order fulfillment

the packaging department prepares the products with packing materials suitable for specific protection requirements. This phase includes a final visual check of each article.



After a careful packaging, products are ready for shipment.



Technical and commercial brochures  
realized by qualified personnel.

## TRAINING COURSE FOR CUSTOMERS AND DISTRIBUTORS

RAASM organizes refresher courses to  
improve the efficiency of our customer care  
service.





**ONGOING TECHNICAL TRAINING FOR ALL RAASM STAFF**



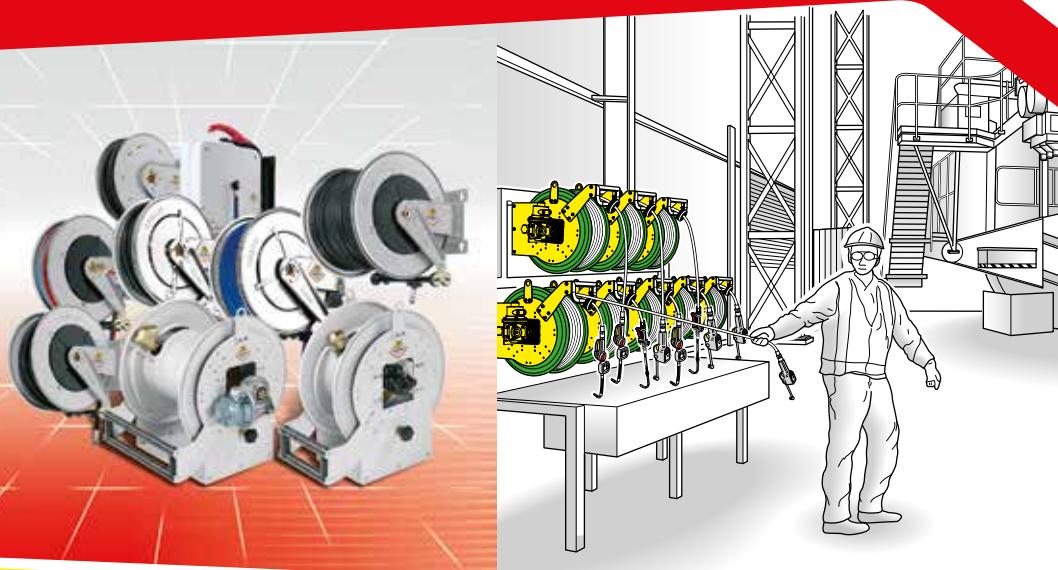
# Automotive lubrication



A wide variety of products for lubrication in the automotive, industrial, agricultural, marine and other sectors.

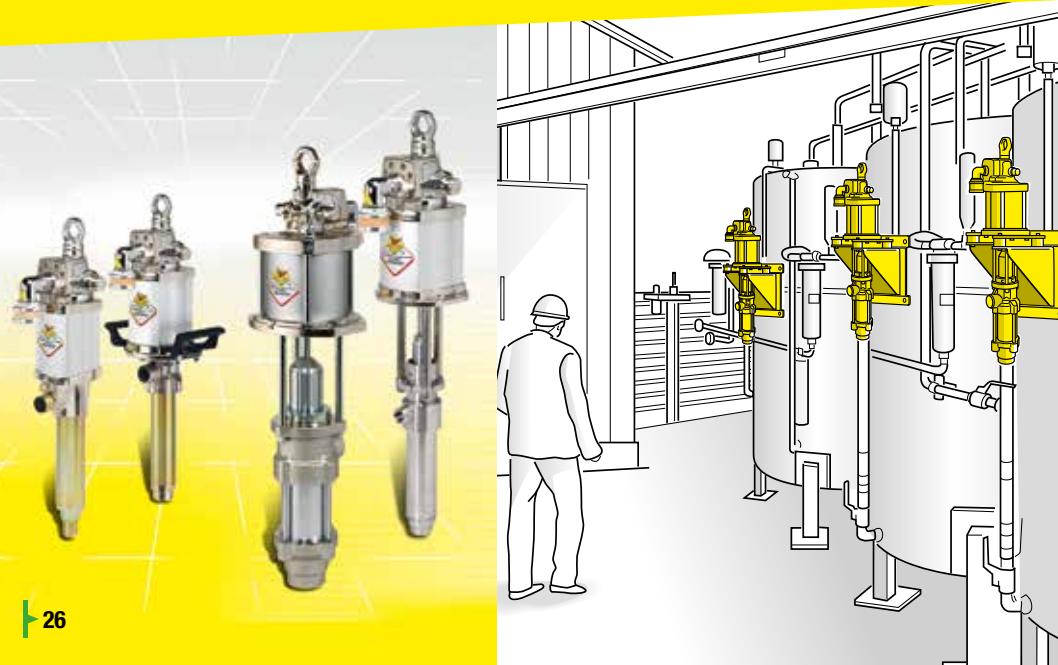
Our products are designed to make work easier and quicker, according to the needs of our customers.

## Industrial hose reels



RAASM  
hose reels  
enable safe  
and practical  
management of any  
type of hose for use with all  
types of fluids.

## Industrial pumps



RAASM has created a wide range of industrial pumps to meet the most complex needs in application sectors such as industry, building, mining, shipyards, etc. This large range will certainly have the right pump for your application.

# INDEX FAMILIES

Index



## 1 BRAKE BLEEDING - WASHING - INFLATING

page 31



## 2 WASTE OIL SUCTION/DRAINERS

page 41



## 3 MANUAL OIL AND GREASE PUMPS

page 59



## 5 GREASE PUMPS AND ACCESSORIES

page 115



## 7 HOSE REELS AND ACCESSORIES

page 143



## 8 INDUSTRIAL PUMPS AND ACCESSORIES

page 189



**RAASM AUTOMOTIVE**  
**FLUIDS AND LUBRICATION EQUIPMENT**



## AUTOMOTIVE LUBRICATION





# FLUIDS AND LUBRICATION EQUIPMENT



# **Brake bleeding - washing - inflating**

1



**BRAKE - CLUTCH BLEEDING**

page 32



**WASHING TANK**

page 37



**TYRE INFLATOR**

page 38

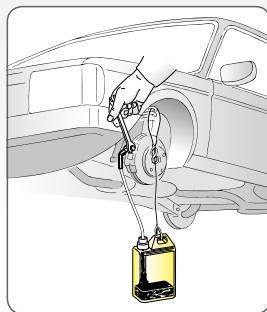


# Brake-clutch bleeding equipment

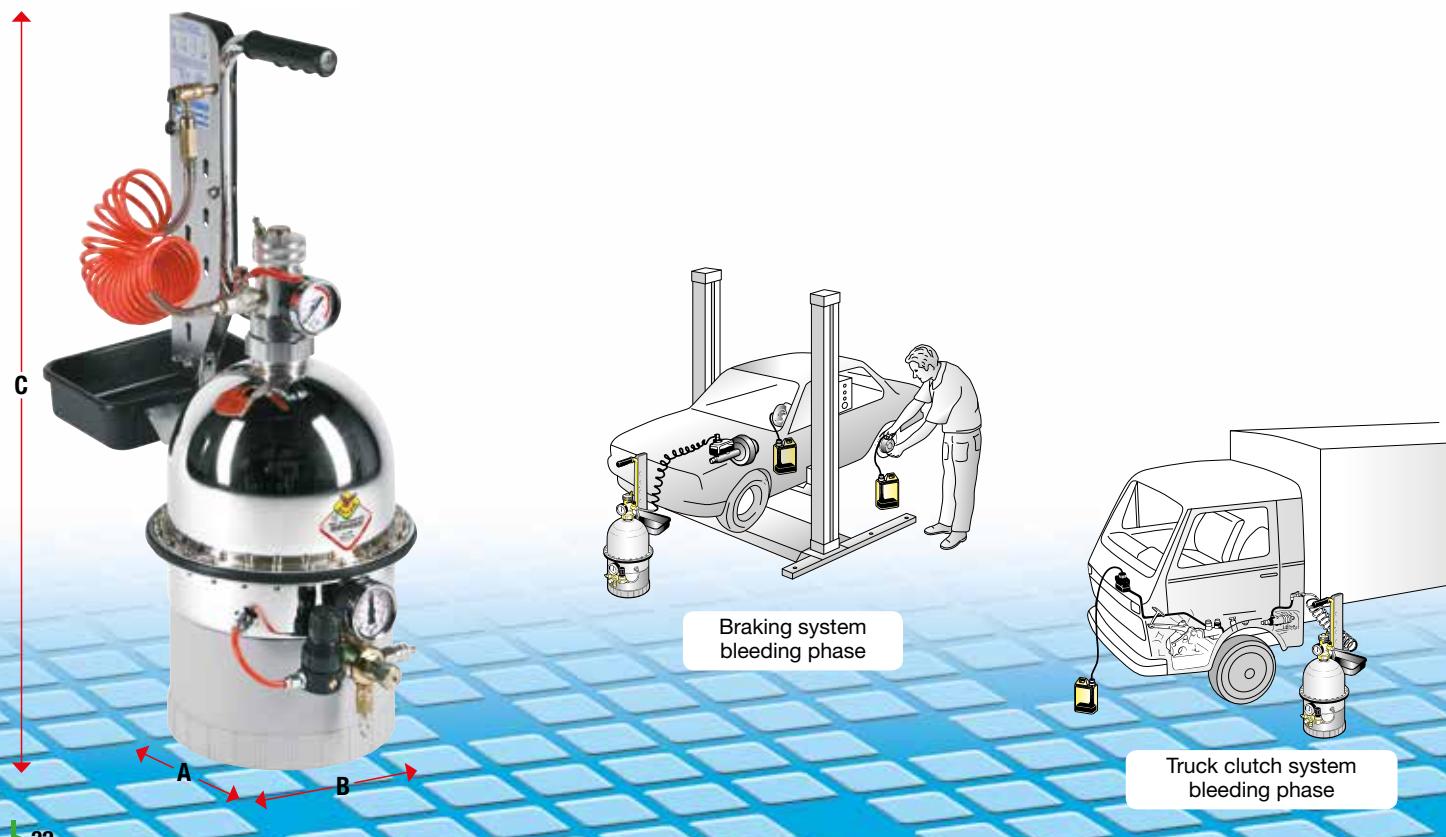
with 2 chambers

with 3 chambers

The simplified air-operated two-chamber or three chamber, brake bleeding device is suitable for bleeding the hydraulic brakes and clutches of all motor vehicles. Bleeding can be carried out in a few minutes by just one person. The brake-bleeding device is equipped with an elastic inner membrane which hermetically separates the oil from the air, thus avoiding the risk of emulsion. It is also suitable for systems with braking control and ABS (max. at 1 bar).



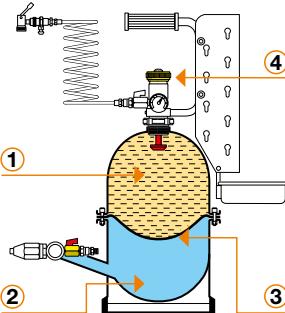
Article	10105	10205	10207	10705	10805	10807
<b>Tank capacity</b>	litres	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Set of plugs</b>	Art.	-	11001	11004	-	11001
<b>clutch bleeding tube</b>	Art.	-	10802	10802	-	10802
<b>2 collection containers</b>	Art.	10801	10801	10801	10801	10801
<b>Filler funnel</b>		yes	yes	yes	yes	yes
<b>Max working pressure</b>	bar	2	2	2	2	2
<b>Tank max pressure</b>	bar	2	2	2	10	10
<b>Delivery hose length</b>	m	3	3	3	3	3
<b>Safety valve</b>	bar	3	3	3	10	10
Packing	N° - m <sup>3</sup>	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065
Weight	kg	8,5	9,5	9,7	10,2	11,2
<b>Dimensions (A - B - C)</b>		cm	43 - 25 - 65	43 - 25 - 65	43 - 25 - 65	45 - 25 - 65
			45 - 25 - 65	45 - 25 - 65	45 - 25 - 65	45 - 25 - 65





# Brake bleeder operation

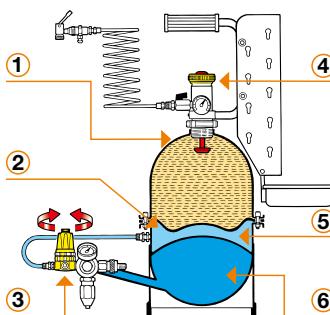
## 2 chambers operation



The brake-bleeding device is equipped with an elastic inner membrane (3) which hermetically separates the oil contained in the oil tank (1), from the air contained in the air "expansion" tank (2), thus avoiding the risk of emulsion (working pressure 1 - 2 bar controllable on the upper pressure gauge).

The oil tank (4) filler cap is equipped with a "reserve indicator" that signals when the fluid is finishing, and an air venting valve to be used in the device activation phase.

## 3 chambers operation



The brake-bleeding device is equipped with an elastic inner membrane (2) which hermetically separates the oil contained in the oil tank (1), from the air contained in the air "expansion" tank (5), thus avoiding the risk of emulsion. It is also equipped with a third air reserve tank (high pressure air 8-10 bar) (6) which, delivered by means of a pressure regulator (3), enables several bleeding operations to be carried out at a constant pressure without having to recharge the device.

The oil tank (4) filler cap is equipped with a "reserve indicator" that signals when the fluid is finishing, and an air venting valve to be used in the device activation phase.

## Procedures for applying the connection plugs



Before bleeding it is important to fill the brake fluid reservoir by means of the brake bleeder quick-release connector.



The extended nozzle of the plug must be immersed in the fluid to avoid sprays or air and oil emulsions.



Connect the brake bleeding device to the reservoir by means of the quick-release connector.

## 11000/ LIST OF SCREW PLUGS FOR CARS

ALFA	A-D-L	JEEP	.W	PEUGEOT	D-F-M
AUDI	D	KIA	D	PORSCHE	C-D
AUSTIN MORRIS	A-D-T	LAMBORGHINI	D-H-W	RENAULT	D-G-I-M
AUTOBIANCHI	B-H	LADA	H	ROVER	A-D-W
BMW	D-W	LANCIA	D-H	SAAB	D
CITROËN	D-E-I	LAND ROVER	T-W	SEAT	D-H
CHRYSLER	.W	LEYLAND	A	SUBARU	U-W
DAEWOO	D-W	MASERATI	D-G-L	SUZUKI	D-W
FERRARI	D-G-H	MITSUBISHI	K-U	TALBOT	D-F
FIAT	A-B-D-H-I	MAZDA	D-W	TOYOTA	W
FORD	A-D-T	MERCEDES	D	TRIUMPH	T
HYUNDAI	.W	MG	.W	VAUXHALL	A
INOCENTI	A-D-L	NISSAN	.W	VOLKSWAGEN	C-D
JAGUAR	L	OPEL	D-F	VOLVO	D-G-U

## 11000/ LIST OF SCREW PLUGS FOR TRUCKS

ASTRA	H	FIAT	A-B-D-F-H-I-P	RENAULT	D-F-I-X-Z
BEDFORD	A-G-L	FORD	D-G	SCANIA	D-G
BERLIET	D-F-T-X-Z	IVECO	D-H-L	VOLVO	R
DAF	D	MERCEDES	D		

## 11003/ LIST OF PRESSURE PLUGS FOR CARS

HONDA	Art. 11003/4, /6	MAZDA	Art. 11003/5, /9	SUZUKI	Art. 11003/7
KIA	Art. 11003/5, /8	OPEL	Art. 11003/3	TOYOTA	Art. 11003/1, /2
LEXUS	Art. 11003/1	ROVER	Art. 11003/6		



# Screw connection plugs



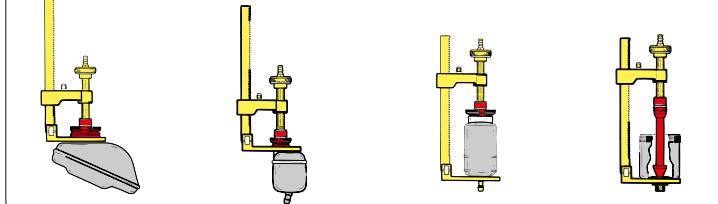
## Art. 11001

**Series of standard screw connection plugs**, supplied with Art. 10205 or Art. 10805 (refer to page 32), consisting of:

- 5 screw plugs: 11000/A/D/F/I/T
- 1 universal plug 11000/W

Note: the above plugs can also be supplied individually. The universal plug 11000/W can be used on many types of cars and trucks in addition to those given in the plug list (refer to page 33)

### Application examples of universal plug 11000/W



## Art. 11002

**Series of special screw connection plugs**, consisting of: 11000/B/C/E/G/H/K/L/M/P/R/U/X/Y/Z

Note: the series of special plugs is only supplied by request

### List of screw plugs suppliable individually

	Article	Plug series	Diameter (A) mm		Article	Plug series	Diameter (A) mm
	11000/A	type A	25		11000/M	type M	68,5
	11000/B	type B	21,5		11000/P	type P	77
	11000/C	type C	26,5		11000/R	type R	33,5
	11000/D	type D	43		11000/T	type T	44
	11000/E	type E	48		11000/U	type U	76
	11000/F	type F	52,5		11000/X	type X	44,5
	11000/G	type G	64		11000/Y	type Y	34,5
	11000/H	type H	41,5		11000/Z	type Z	58,5
	11000/I	type I	59		11000/W Universal plug W with 3 tapered plugs:	1) ø 20 mm 2) ø 28 mm 3) ø 45 mm	
	11000/K	type K	61,5				
	11000/L	type L	76,5				

Note: to choose the connection plug see the "Brake bleeder plug list" tables (refer to page 33)



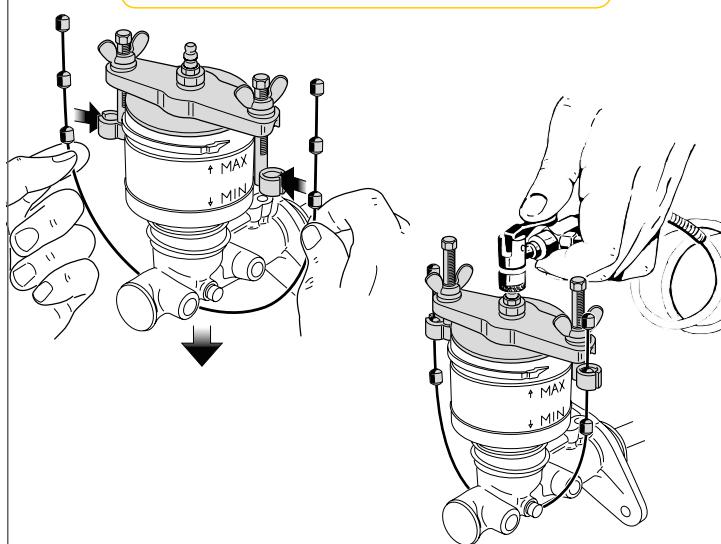
# Pressure connection plugs



Art. 11004

Adjustable universal bracket (Art.11003) with series of pressure plugs 11003/1/2/3/4/5/6/7/8/9

## Application examples of universal pressure plugs



## List of pressure plugs suppliable individually

	Article	Plug series	Diameter (A) mm	Article	Description
	11003/1	pressure	42,2 42,5		11003 Adjustable universal bracket for pressure plugs.
	11003/2	pressure	42,8		
	11003/3	pressure	53,8 54		
	11003/4	pressure	56		10801 Brake fluid collection containers, complete with transparent tube and 90° flexible attachment for connection to the bleeder valve.
	11003/5	pressure	65,7		
	11003/6	pressure	74,2		10802 Clutch bleeding connection tube, length 600 mm.
	11003/7	pressure	58,8		
	11003/8	pressure	33,7		
	11003/9	pressure	35,8		

Note: to choose the connection plug see the "Brake bleeder plug list" tables (refer to page 33)



# Non-toxic pressure sprayers

Devices for the **non-toxic spraying** of low viscosity detergent liquids, such as lubrication oils and similar. Suitable for washing motor vehicles, graphiting, lubricating, delivering dismantling oils, etc. Filled to 3/4 their capacity with the required liquid and pressurised with air at 6 - 8 bar, they work independently without requiring continuous connection to the compressed air line.



**Art. 24891**  
Antisplash  
funnel



Article	22017	22024	23024	23025
<b>Tank capacity</b> litri	<b>16</b>	<b>24</b>	<b>24</b>	<b>24</b>
Fluids	Oil and similar		Lubricants and detergents	
<b>Delivery hose length</b> m	5	5	5	5
<b>Max working pressure</b> bar	10	8	8	8
<b>Gun length</b> m	0,65	0,65	0,65	0,65
<b>Safety valve</b> bar	10	8	8	8
<b>Level gauge</b>	si	si	si	si
<b>Spray gun</b> Art.	24805	24805	24806	24806
<b>Spray nozzle</b> Art.	24801	24801	24801	24801
<b>Antisplash funnel</b> Art.	24891	24891	24891	24891
<b>Packing</b> N° - m <sup>3</sup>	1 - 0,080	1 - 0,090	1 - 0,090	1 - 0,090
<b>Weight</b> kg	9,8	13	12,8	12,8
<b>Dimensions (A - B - C)</b> cm	25,5 - 22,5 - 95	28 - 33 - 92	28 - 33 - 92	28 - 33 - 92

Attention: do not use with flammable or corrosive liquids

Attention: stainless steel pressure sprayers may also use aggressive fluids (such as some acid solutions) if only compatible with the materials composing the device



Spraying of detergent  
for washing engines

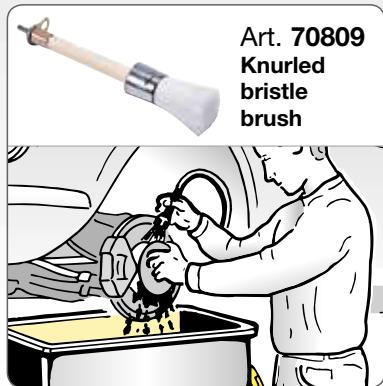


Spraying antioxidant, oil, diesel oil  
on mechanical parts



# Washing tank

**Universal washing tank for quick washing of mechanical parts and components in general.**  
 The low-pressure pneumatic system enables:  
 - continuous liquid detergent flow with brush for thorough washing  
 - washing by dipping, with the parts dipped in the liquid detergent in the tank.

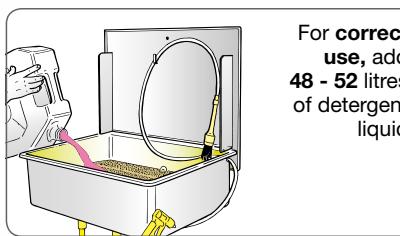


**Important:** do not use corrosive liquids with flashpoint below 55°C, that can give off toxic and harmful fumes.  
 Use specific chemical products for washing mechanical parts, according to the instructions supplied by the manufacturer

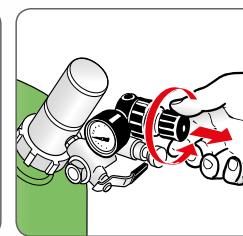


Article	70365
<b>Tank capacity</b>	litres
Washing tank capacity	litres
<b>Max working pressure</b>	bar
<b>Required quantity of liquid</b>	litres
<b>Max blowing gun pressure</b>	bar
<b>Knurled bristle brush</b>	Art.
Packing	N° - m <sup>3</sup>
<b>Weight</b>	kg
<b>Dimensions (A - B - C)</b>	cm

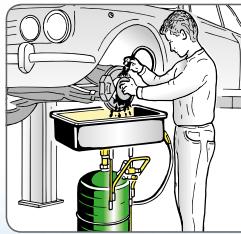
## Details and advantages



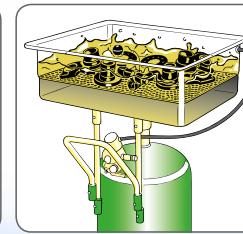
For correct use, add 48 - 52 litres of detergent liquid



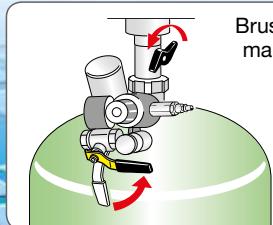
The pneumatic system works at low pressure **0,5 bar**, consuming very little air



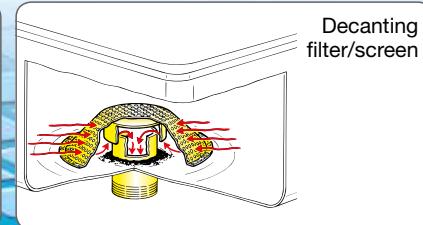
Washing with brush, with continuous liquid flow



Dip washing, with parts placed in the tank



Brush or dip wash management unit



Decanting filter/screen



# Portable tyre inflator

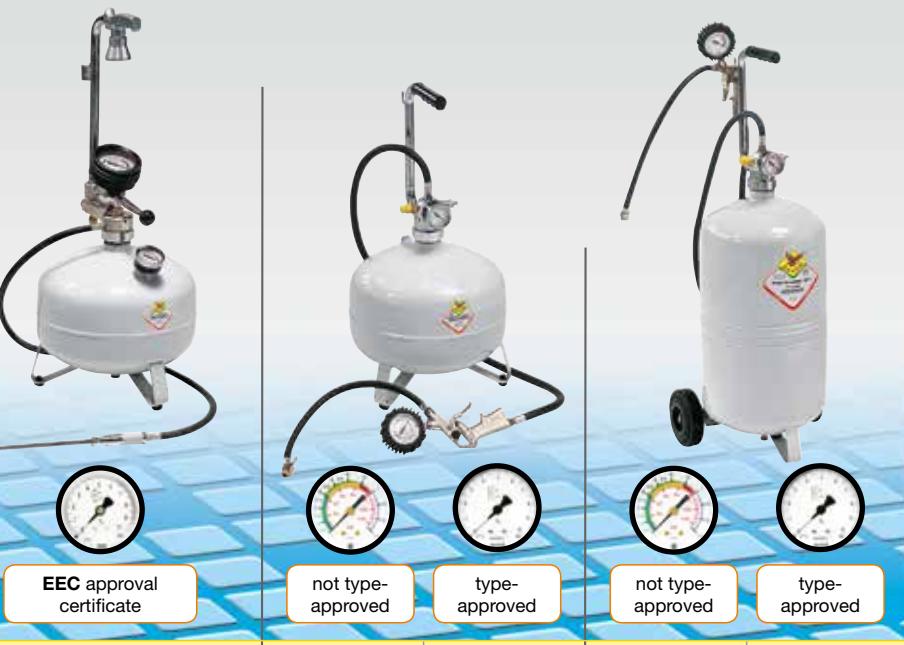
automatic  
charging

standard  
charging

**Type-approved tyre inflator** for checking and restoring the pressure of any type of tyre.

**13 litres** tank is available with standard or automatic charger, whereas **24 litres** tank is available only with standard charger.

Tyre pressure checking and inflation operations are carried out with the gun equipped with pressure gauge ø 60 mm with scale 0 - 10 bar.

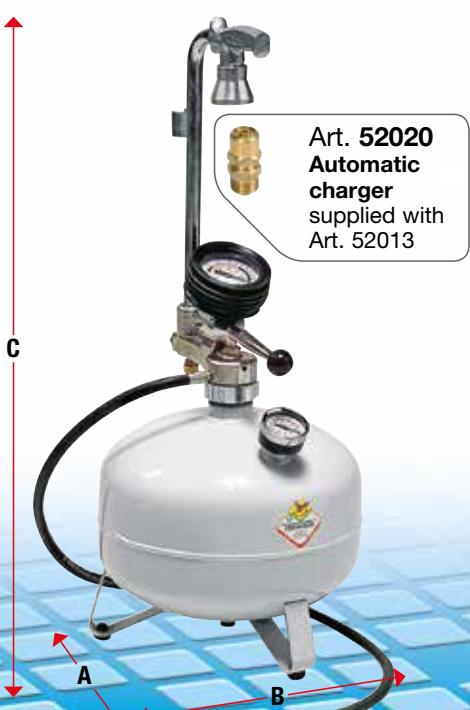


Article	52013	52015	53016	52024	53024
<b>Tank capacity</b> litres	<b>13</b>	<b>13</b>	<b>13</b>	<b>24</b>	<b>24</b>
Max tank pressure bar	10	10	10	8	8
Calibrated safety valve bar	10	10	10	8	8
Manometer ø 50 tank pressure bar	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10
Max working pressure bar	7	7	7	7	7
Manometer working pressure	0 - 10 bar supplied with the inflating group	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun
Working temperature °C	-20° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°
Inflating hose length m	1,2	1,2	1,2	1,2	1,2
Inflating gun	with twin air valve	standard	standard	standard	standard
Automatic charger Art.	52020	-	-	-	-
Packing N° - m³	1 - 0,088	1 - 0,088	1 - 0,088	1 - 0,090	1 - 0,090
Weight kg	8,8	6,5	6,5	10	10
Dimensions (A - B - C) cm	31 - 31 - 75	31 - 31 - 60	31 - 31 - 60	28 - 33 - 86	28 - 33 - 86

Note: type-approved for public use

Note: not type-approved for public use

Note: not type-approved for public use

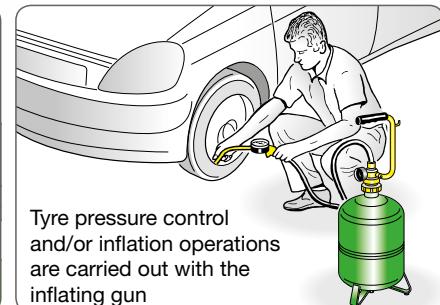


Art. 52020  
**Automatic  
charger**  
supplied with  
Art. 52013

## Details and advantages

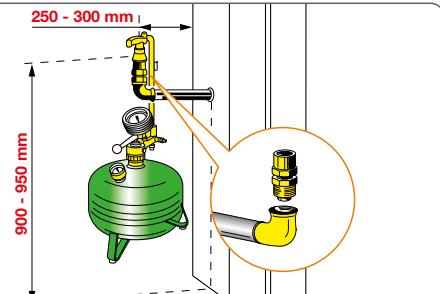
The tyre inflation and deflating operations are done with single 3-position lever

- ① idle
- ② deflation
- ③ inflation



## INSTALLATION MEASURES for Art. 52013

In order to have the tyre inflator always ready for use, just place it on the automatic charger as shown in the illustration





# The inflator hose reel

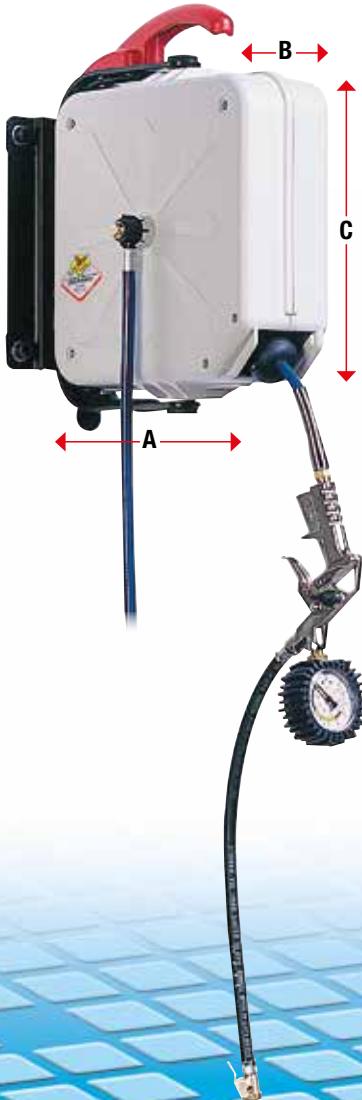
**Inflation system with hose reel** for checking and restoring the pressure of any type of tyre by means of the inflation gun equipped with pressure gauge ø 60 mm with scale 0 - 10 bar. Constant connection to the compressed air system makes the inflation system always ready for use. The hose reel is equipped with a system for quick hooking to the wall support to facilitate possible moving.



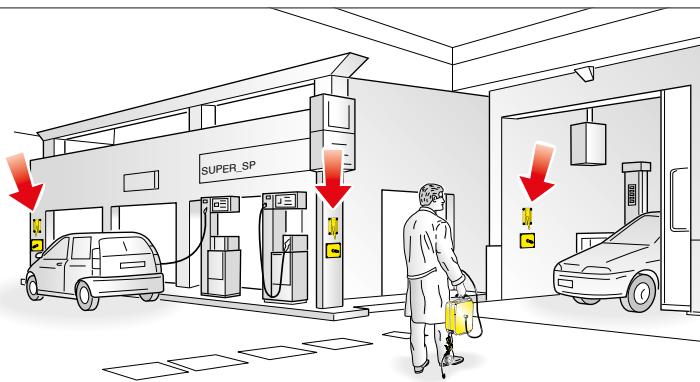
Art. 89001  
Bayonet  
hooking  
support



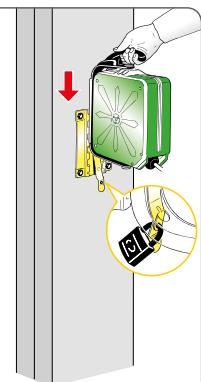
Article	52010
Length tube	m 11
Length tube connection	m 1,5
Diameter of tube	mm 8 x 12
Inlet connection thread	M 1/4" G
Max working pressure	bar 10
Manometer ø 60 working pressure	bar 0 - 10
Working temperature	°C -20° +60°
Packing	N° - m <sup>3</sup> 1 - 0,019
Weight	kg 6,8
Dimensions (A - B - C)	cm 31 - 11,5 - 39



## Details and advantages



Pic. 1



Pic. 2

**Pic. 1** The inflation hose reel is provided with a **wall bracket** with automatic bayonet hooking (Art. 89001) enabling **very quick and easy** installation or shifting. The ease of this operation enables - also for safety reasons - the hose reel to be put away in a closed place at the end of the working day. Also, the application of a wall support for every service point, either inside or outside, facilitates quick shifting and application of the hose reel in the workstation required by the operator.

**Pic. 2** To prevent removal or theft of the hose reel it can be locked with a bolt or padlock.



# FLUIDS AND LUBRICATION EQUIPMENT



# Waste oil suction-drainers

2



## SUCTION POWER

page 42



## PROBES AND ACCESSORIES

page 44



## WHEEL-MOUNTED - PORTABLE SUCTION-DRAINERS

page 45



## SUCTION-DRAINERS

page 46



## UNIVERSAL PANTOGRAPH SUCTION-DRAINERS

page 48



## GRAVITY DRAINERS

page 51



## SUCTION DRAINER-DISPENSERS WITH AIR-OPERATED PUMP

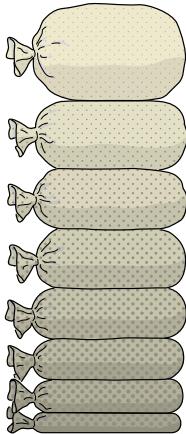
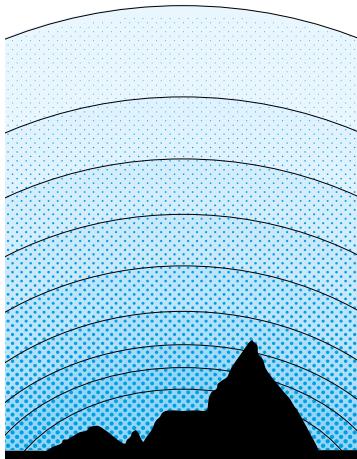
page 54



## Suction power

To understand the concept of **suction power** it is important to remember the difference between **pressure** and **depression**.

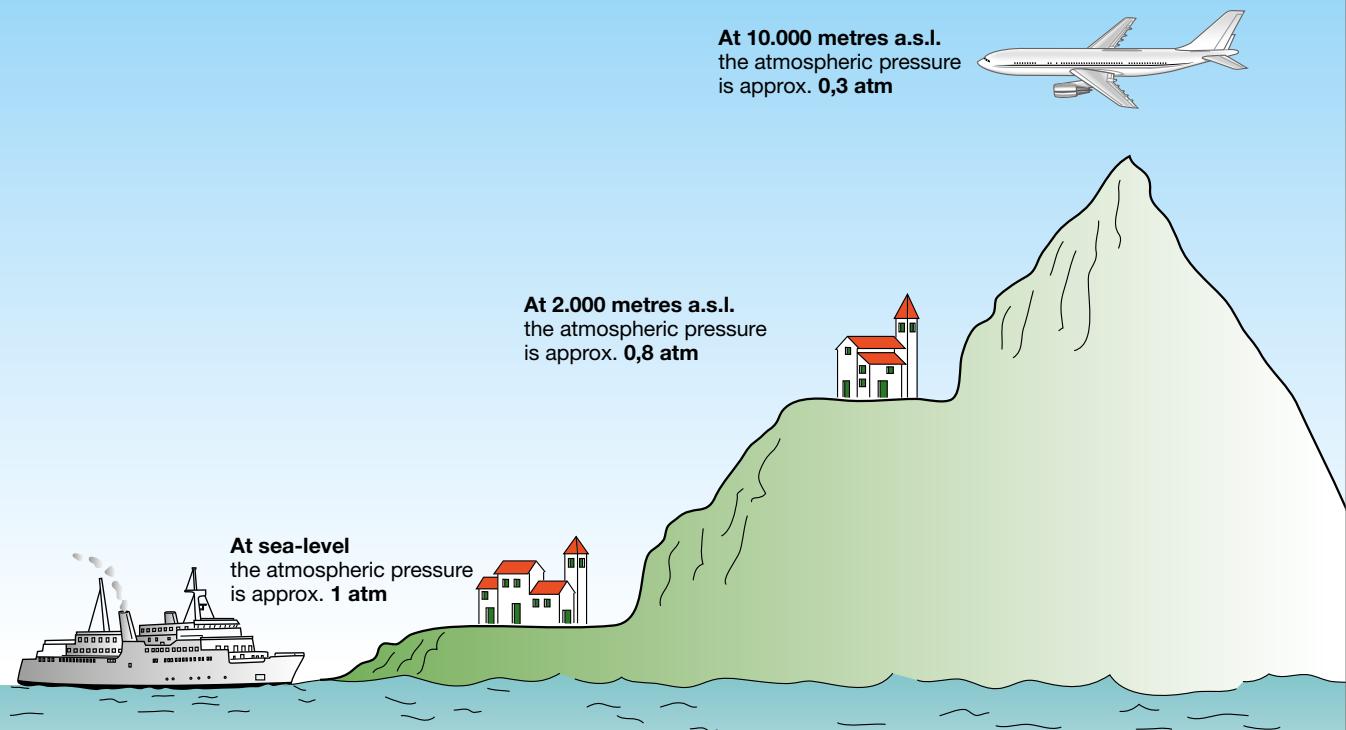
In this way the characteristics and advantages offered by the **oil drainer** will be clearly understood.



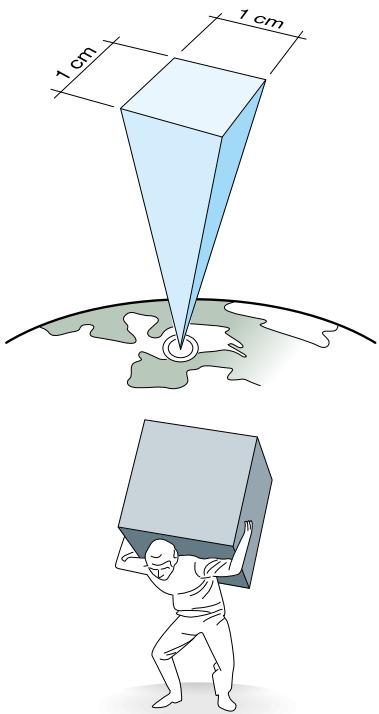
Therefore, however, it is necessary to refer to the structure of the atmosphere that surrounds us and, above all, its barometric stratification and **compressibility**. Its lower layers, i.e. those nearest the ground, are more densely compressed than those higher up, precisely like what **happens with a pile of bags of compressible material**. (see Pic. 1).

Pic. 1

The atmospheric pressure decreases as the altitude increases: at sea level it is 1 atm, at 2.000 metres a.s.l. it is approx. 0,8 atm, at 10.000 metres it falls to approx. 0,3 atm (see Pic. 2).



Pic. 2



In general, pressure is obtained by compressing any type of fluid inside a given container, until reaching the required values: 1 - 3 - 10 - 100 atm without limits, apart from those of the fluid container's structure and the power of the pump used.

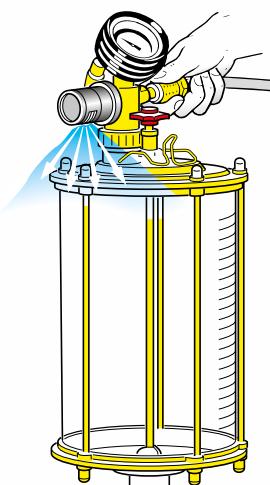
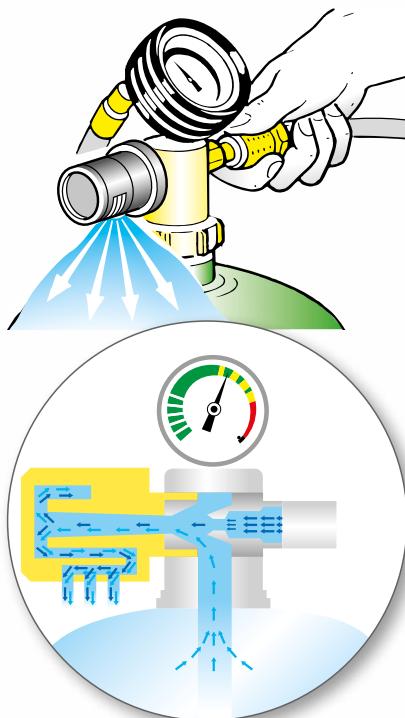
On the other hand, a **depression** or vacuum is obtained by removing all the air contained in a given recipient or tank, and the maximum value obtainable (vacuum or suction power) is independent of the pumping or suction system used. Whatever the pump used (**electric pump, air pump, Venturi principle, etc.**) the maximum depression (or suction power) obtained is equal to the atmospheric pressure outside the suction system.

In fact, this value cannot be exceeded because, obviously, it is not possible to remove from a container more air than what is contains.

### Pump operation with Venturi principle

Connect a compressed air line (7 atm) to the special connection on the suction device. Obliged to pass through a special "MULTIPLIER NOZZLE" of the Venturi unit, the air considerably increases in speed, creating "EDDIES" that can **suck** and **pump** all the air contained in the suction device tank, thus creating a complete vacuum.

Therefore the suction force generated by the **Venturi principle** is equal to that obtained with any other air-operated and/or electric pump.



For correct depressurisation, the pressure of the air passing through the Venturi system must be between **6,5 and 7 bar**.



# Flexible and metal probes - Special connections

All the drainers used for changing engine oil come with a series of standard metal and flexible probes in addition to connections for engines with incorporated probes.



**Standard probe series**

- Art. 45504
- Art. 45505
- Art. 45506
- Art. 45516
- Art. 45517
- Art. 45518
- Art. 45500
- Art. 45501
- Art. 45502

**Art. 45560 consisting of:**

- Art. 45504 flexible probe Ø 5 mm - length 700 mm
- Art. 45505 rigid probe Ø 5 mm - length 700 mm
- Art. 45506 flexible probe Ø 6 mm - length 700 mm
- Art. 45516 rigid probe Ø 6 mm - length 700 mm
- Art. 45517 flexible probe Ø 7 mm - length 1000 mm
- Art. 45518 flexible probe Ø 8 mm - length 700 mm
- Art. 45500 connection for incorporated probes Volkswagen
- Art. 45501 connection for incorporated probes BMW
- Art. 45502 connection for incorporated probes Citroen

Note: the probes can be supplied separately

**Probes supplied by request**



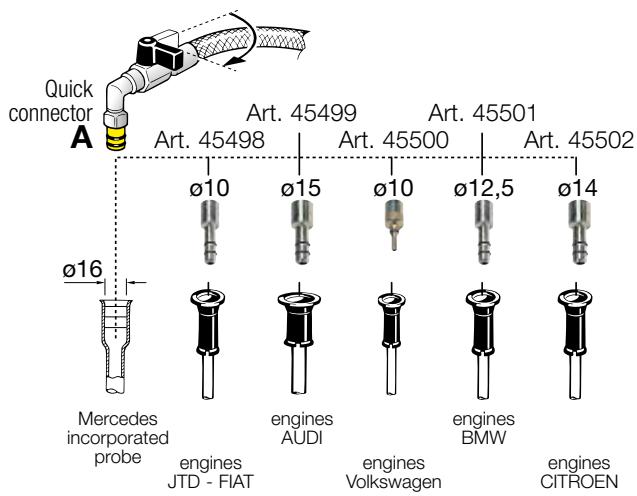
- Art. 45515
- Art. 45526
- Art. 45527
- Art. 45528
- Art. 45538
- Art. 45539
- Art. 45540

Non-standard probes available by request. Specify for vehicles requiring a longer probe for draining the oil from the bottom of the sump.

- Art. 45515 flexible probe Ø 5 mm - length 1000 mm
- Art. 45526 flexible probe Ø 6 mm - length 1500 mm
- Art. 45527 flexible probe Ø 7 mm - length 1500 mm
- Art. 45528 flexible probe Ø 7 mm - length 2000 mm
- Art. 45538 flexible probe Ø 8 mm - length 1500 mm for suction in trucks
- Art. 45539 flexible probe Ø 8 mm - length 2000 mm
- Art. 45540 special flexible probe Ø 12 mm - length 700 mm for quick suction.

Already supplied with the following articles:  
Art. 45100 - 45110 - 45150 - 45180 - 45250 - 45280 - 43116 - 43190 - 42164 - 42215

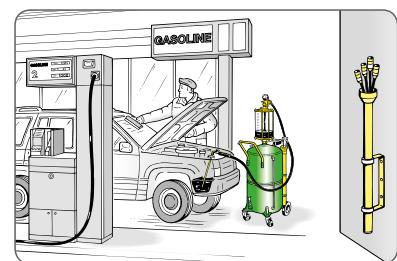
**Connectors for incorporated probes**



- for Mercedes cars connect the quick-release connector A of the oil drainer directly to the probe incorporated in the engine.
- for JTD Fiat Group cars: Art. 45498
- for Audi cars: Art. 45499
- for Volkswagen cars: Art. 45500
- for BMW cars: Art. 45501
- for Citroen cars: Art. 45502



**Art. 45570**  
**Wall-mounted probe kit**, a handy container for the longest and less-used probes, useful for avoiding having to carry them with the drainer



**Art. 45550**  
**3/8" connection for outboard engines** supplied with the drainers for boating



**Art. 45551**  
**3/4" connection for inboard engines** supplied with the drainers for boating



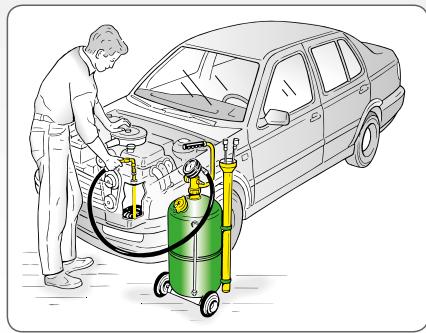
# PORTABLE waste oil drainers

manual emptying

## Air-operated drainers.

Ideal for quick engine oil change of any motor vehicle. The old oil is sucked from the engine by means of the probes supplied.

After depressurisation the drainer works independently without requiring continuous connection to the compressed air system  
**Suck hot oil at 70 - 80 °C.**

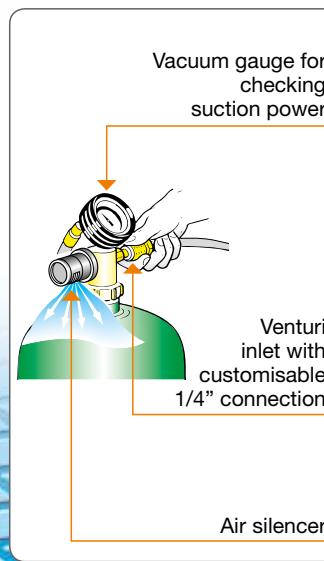


Article	43016	43024
<b>Tank capacity</b>	litres	<b>16</b>
Max draining capacity	litres	<b>13</b>
Air pressure for depressurisation	bar	<b>6,5 - 7</b>
Depressurisation time	min	<b>1</b>
Noise level	dB	<b>75</b>
Suction speed	l/min	<b>1,5 - 2</b>
Total suction capacity	litres	<b>9 - 10</b>
Suction hose	m	<b>2</b>
Set of probes	Art.	<b>45560</b>
Packing	N° - m <sup>3</sup>	<b>1 - 0,080</b>
Weight	kg	<b>10,5</b>
Dimensions (A - B - C) cm		<b>25,5 - 22,5 - 84,5</b>
		<b>28 - 33 - 86</b>

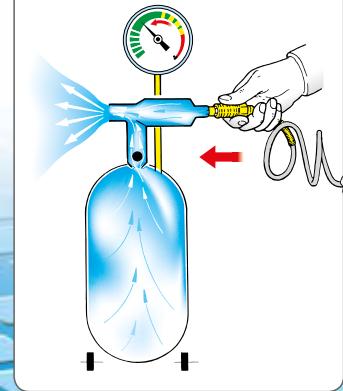
Caution: do not suck brake fluids, fuels, flammable or corrosive liquids



## Details and advantages



For correct depressurisation, the pressure of the air passing through the Venturi system must be between **6,5 and 7 bar**





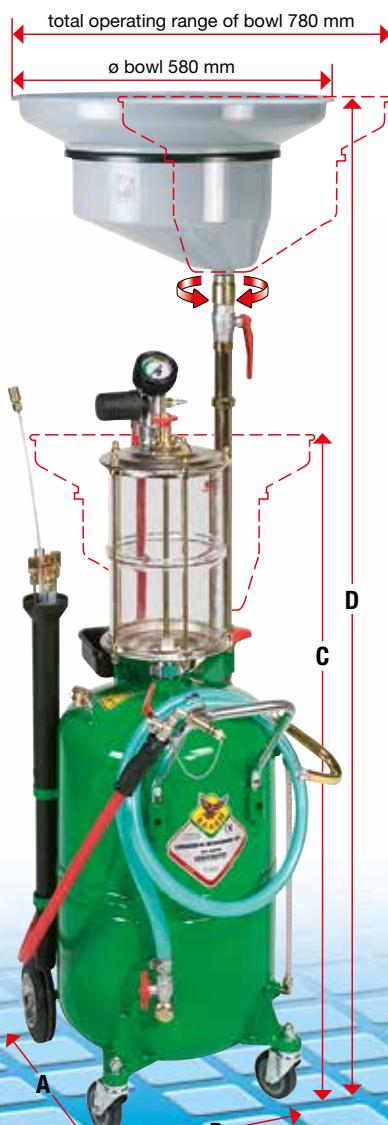
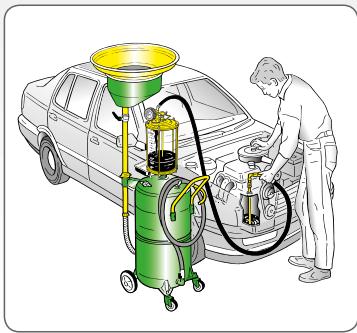
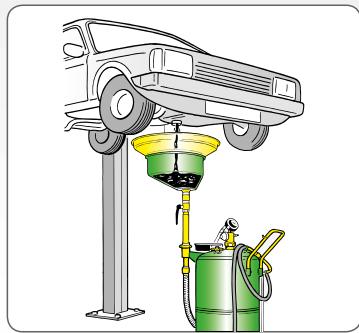
# PROFESSIONAL

## waste oil

## suction-drainers

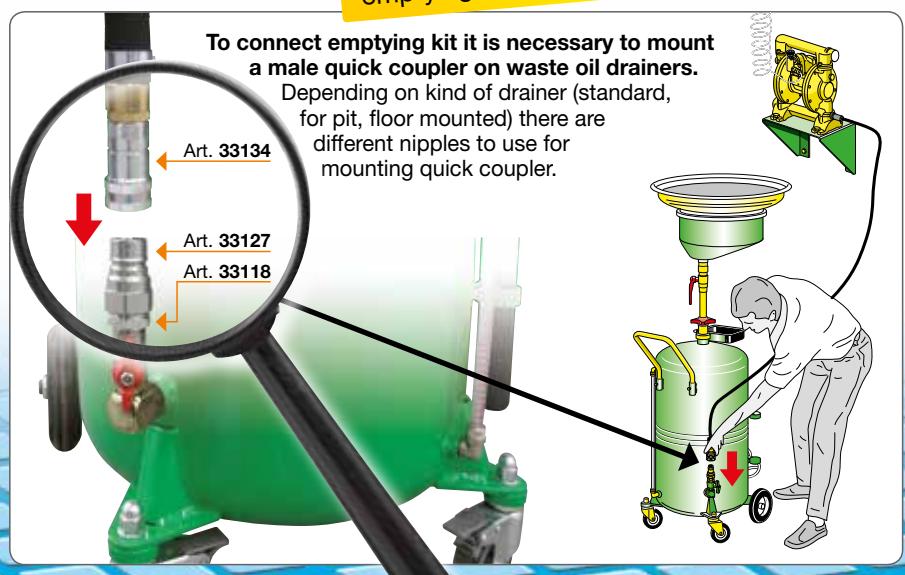
gravity-drainers

**Gravity and air operated suction drainers.** Ideal for quick engine oil change of any motor vehicle. Waste oil can be collected by gravity, using the bowl mounted on the adjustable support, or by suction through the supplied probes. After depressurisation the drainer works independently without requiring continuous connection to the compressed air system. **Suck hot oil at 70 - 80 °C.**



Article	42065	42090	42115	42066	42091	42116
<b>Tank capacity</b>	litres	<b>65</b>	<b>90</b>	<b>115</b>	<b>65</b>	<b>90</b>
<b>Max draining capacity</b>	litres	52	75	97	52	75
<b>Preambulator capacity</b>	litres	-	-	-	-	-
<b>Bowl capacity</b>	litres	15	15	15	15	15
<b>Air pressure for depressurisation</b>	bar	-	-	-	-	-
<b>Depressurisation time</b>	min	-	-	-	-	-
<b>Noise level</b>	dB	-	-	-	-	-
<b>Suction speed</b>	l/min	-	-	-	-	-
<b>Total suction capacity</b>	litres	-	-	-	-	-
<b>Discharging/suction hose</b>	m	draining 2				
<b>Max pressure for draining</b>	bar	0,5	0,5	0,5	0,5	0,5
<b>Set of probes</b>	Art.	-	-	-	-	-
<b>Packing</b>	N° - m <sup>3</sup>	2 - 0,270	2 - 0,300	2 - 0,420	2 - 0,270	2 - 0,300
<b>Weight</b>	kg	33	34	42	33	34
<b>Dimensions (A - B - C)</b>	cm	60-42-127	64-42-140	66-49-142	60-42-134	64-42-125
<b>Ingombro max (D)</b>	cm	178	190	192	175	170
		66-49-128				

To connect waste oil gravity and suction drainers to emptying kit see page 50



## suction-drainers

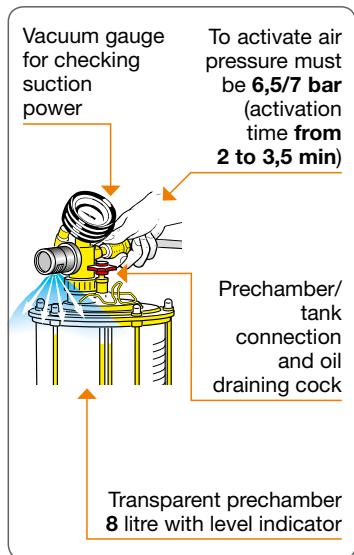
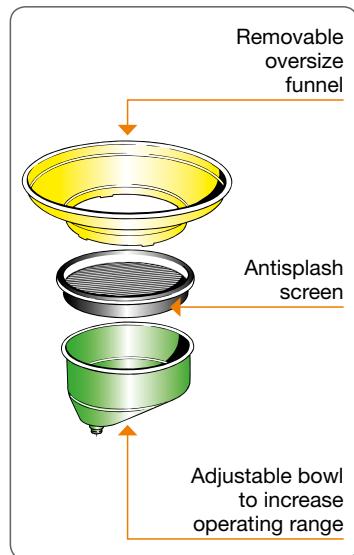
## combined drainers



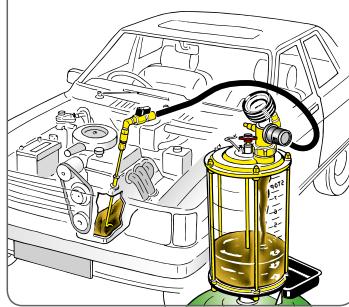
standard			with prechamber			standard			with prechamber		
43060	43090	43114	43065	43091	43115	44060	44090	44115	44065	44091	44116
65	90	115	65	90	115	65	90	115	65	90	115
52	75	97	52	75	97	52	75	97	52	75	97
-	-	-	8	8	8	-	-	-	8	8	8
-	-	-	-	-	-	15	15	15	15	15	15
6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7
2	2,5 - 3	3 - 3,5	2	2,5 - 3	3 - 3,5	2	2,5 - 3	3 - 3,5	2	2,5 - 3	3 - 3,5
75	75	75	75	75	75	75	75	75	75	75	75
1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2
43 - 45	60 - 65	85 - 90	43 - 45	60 - 65	85 - 90	43 - 45	60 - 65	85 - 90	43 - 45	60 - 65	85 - 90
2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
45560	45560	45560	45560	45560	45560	45560	45560	45560	45560	45560	45560
2 - 0,230	2 - 0,250	2 - 0,420	2 - 0,230	2 - 0,225	2 - 0,420	3 - 0,330	3 - 0,360	3 - 0,460	3 - 0,330	3 - 0,360	3 - 0,460
26,9	31,4	42	32,9	36	43	34,6	38,2	43	38,2	42,1	50
60-42-86	64-42-100	66-49-102	60-42-128	64-42-140	66-49-142	62-42-134	62-42-138	66-49-170	60-42-153	62-42-166	66-49-168
-	-	-	-	-	-	175	188	190	175	188	190

Caution: do not suck brake fluids, fuels, flammable or corrosive liquids

## Details and advantages



**2 m suction hose** with probe connection.  
**Waste oil suction speed 1,5-2 l/min** (oil 70°-80°C, with 6 mm probe)





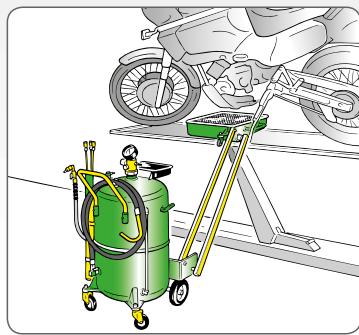
# PANTOGRAPH

## waste oil

### suction-drainers

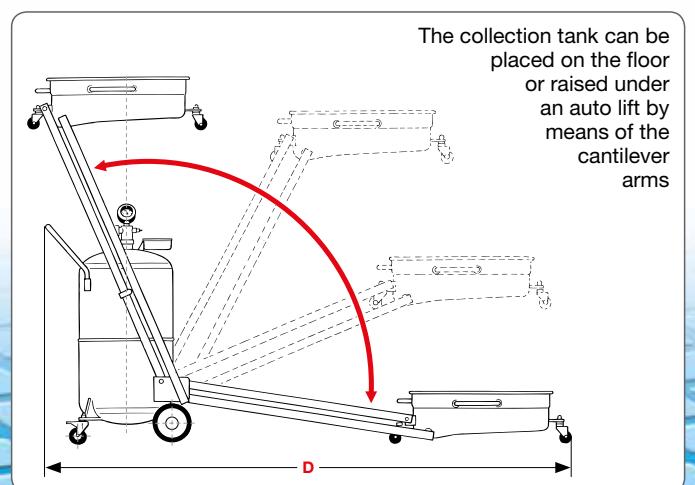
moto and cars

Air-operated combination suction-drainer (**50 litre**) with pantograph collection bowl and wheel-mounted 115 litre tank. Waste oil can be collected whether by gravity, using the recovering basin on the floor or in the upper position if vehicles are over car lift, or by suction through the supplied probes. After depressurisation the drainer works independently without requiring continuous connection to the compressed air system  
**Suck hot oil at 70 - 80 °C**



Article	46064	46065
<b>Tank capacity</b>	<b>litres</b>	<b>65</b>
Max draining capacity	litres	52
Prechamber capacity	litres	-
Bowl capacity	litres	14
Air pressure for depressurisation	bar	-
Depressurisation time	min	-
Noise level	dB	-
Suction speed	l/min	-
Total suction capacity	litres	-
Discharging/suction hose	m	2
Max pressure for draining	bar	0,5
Set of probes	Art.	-
Packing	N° - m <sup>3</sup>	3 - 0,247
Weight	kg	38,2
Dimensions (A - B - C)	cm	57 - 49 - 100
Max dimensions (D)	cm	200

Caution: do not suck brake fluids, fuels, flammable or corrosive liquids



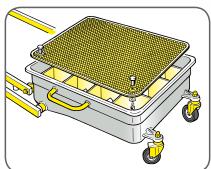
## cars

## trucks

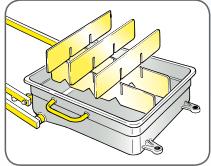


suction-drainers	combination	with prechamber	with collecting basin (50 litres)
46114	46115	46116	46215
<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>
97	97	97	97
-	-	8	-
14	14	14	50
-	6,5 - 7	6,5 - 7	6,5 - 7
-	3 - 3,5	3 - 3,5	3 - 3,5
-	75	75	75
-	1,5 - 2	1,5 - 2	1,5 - 2
-	85 - 90	85 - 90	85 - 90
2	2/2	2/2	2/2
0,5	0,5	0,5	0,5
-	45560	45560	45560
3 - 0,360	4 - 0,420	4 - 0,420	4 - 0,5
51	54	58	68
65 - 58 - 150	65 - 58 - 150	65 - 58 - 150	70 - 62 - 156
240	240	240	255

## Details and advantages



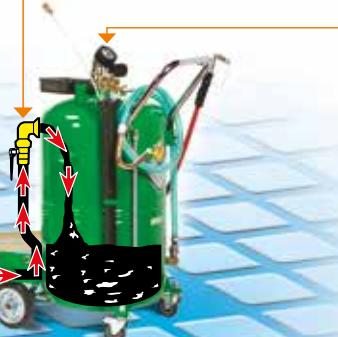
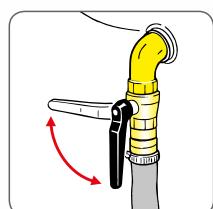
Protection screen/filter  
splash guard and support  
base for filter



Tank with antisplash



To empty the tank with device already depressurised, open the bowl/tank connection cock and in a few seconds the oil will be sucked in the tank



The air pressure for correct  
depressurisation is  
between **6,5 and 7 bar**

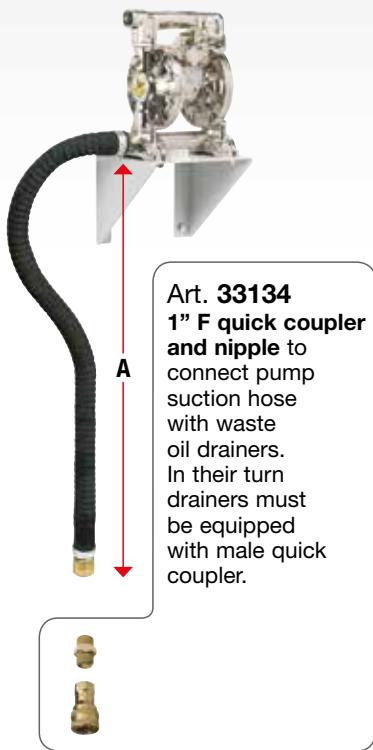




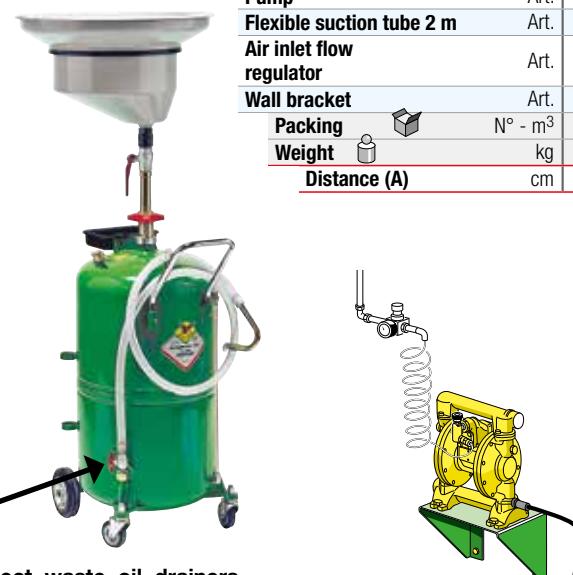
# Modular kit for TRANSFER or EMPTYING

## oil, waste oil and similar

**Wall-mounted transfer kit.** A practical solution for draining movable equipment, waste oil suction/drainers by means of connection with quick-coupling valve. Wall application enables connection to a fixed system for discharging the sucked liquid directly into the storage tank.



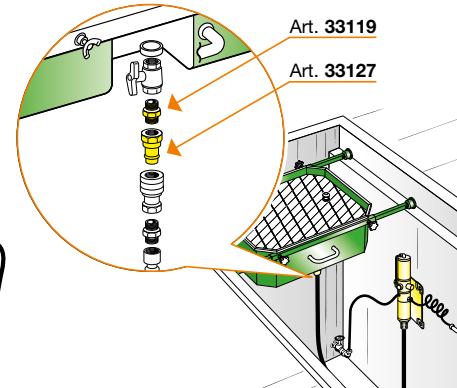
Article with seals in	Viton®	33125
Article with seals in	NBR	33550
Ratio	1:1	1:1
Capacity	l/min	70 23
Pump	Art.	33/2011NHHV2
Flexible suction tube 2 m	Art.	38026
Air inlet flow regulator	Art.	37803
Wall bracket	Art.	33590
Packing	N° - m³	1 - 0,030
Weight	kg	14 8,4
Distance (A)	cm	150 150



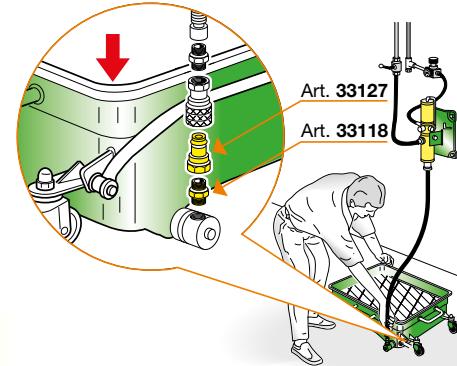
To connect waste oil drainers with above mentioned emptying kit it is necessary to mount a male quick coupler. Depending on the kind of waste oil drainers (standard, for pit or floor mounted) a different nipple must be used as shown in the examples (Pic. 1 - 2 - 3).



### 1 Pit waste oil drainer



### 2 Floor waste oil drainer



### 3 Standard waste oil drainer

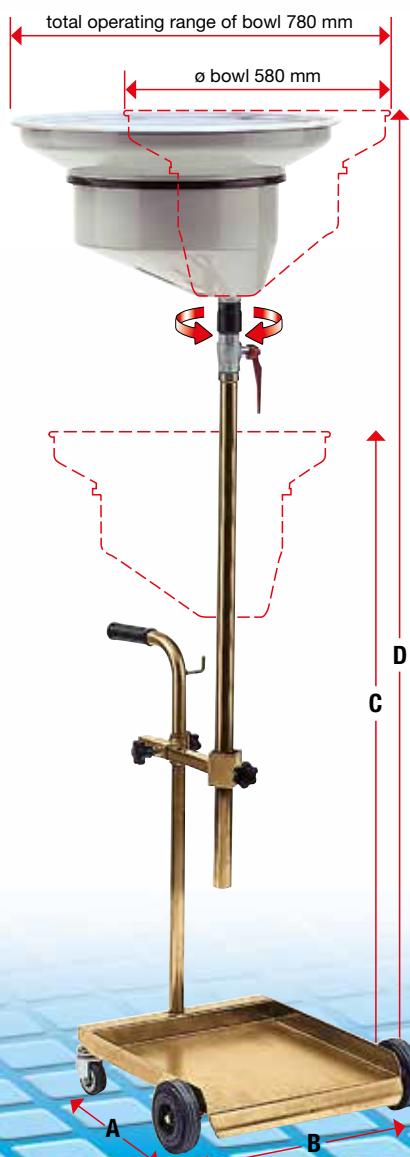


# Waste oil drainers for DRUM

15 litre adjustable bowl

**Wheel-mounted waste oil drainers.** Ideal for use with jerry cans, drums and containers of various sizes, up to 220 kg. Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles placed on an car lift or pit.

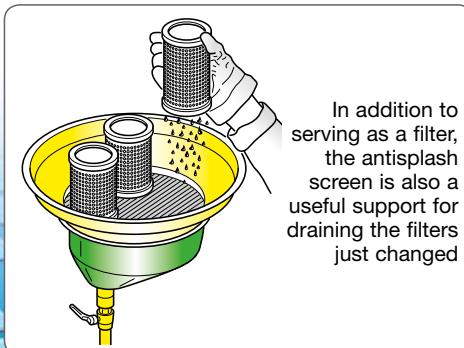
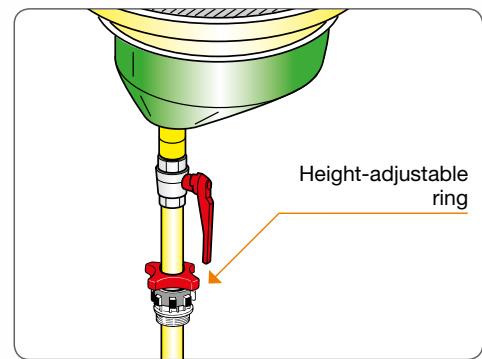
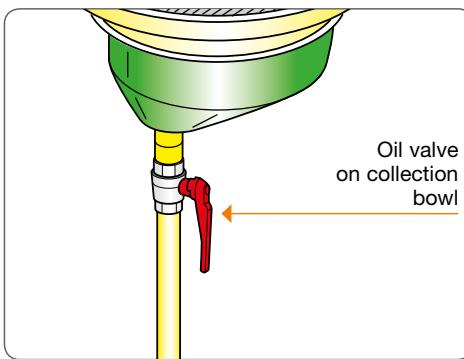
The height-adjustable bowl (15 litres) is mounted on a swivel joint that facilitates positioning.



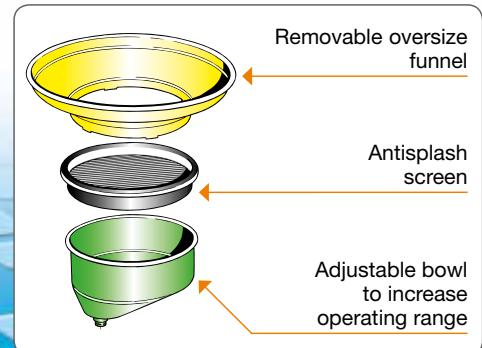
Article	adjustable bowl	wheel-mounted	wheel-mounted
<b>Trolley capacity</b>	42004	42050	42000
trolley	litres	-	20 - 60
Bowl capacity	Art.	-	80050
Antispash screen	litres	15	15
Drum clamping ring	yes	yes	yes
Packing	N° - m <sup>3</sup>	1 - 0,350	2 - 0,120
Weight	kg	9	17
Dimensions (A - B - C)	cm	58 - 58 - 115	64 - 50 - 120
Max dimensions (D)	cm	115	180

Caution: do not use with flammable or corrosive liquids

## Details and advantages



In addition to serving as a filter, the antisplash screen is also a useful support for draining the filters just changed



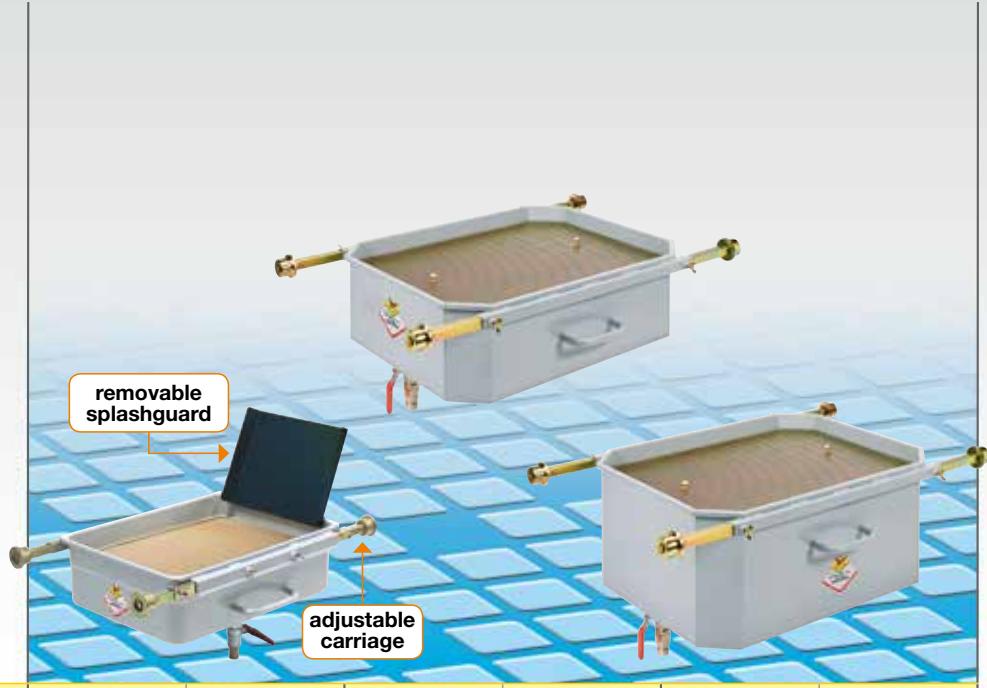
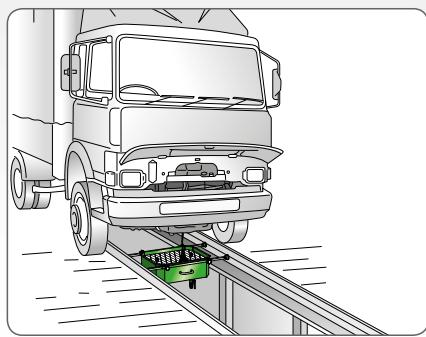
Adjustable bowl to increase operating range



# Waste oil pit drainer

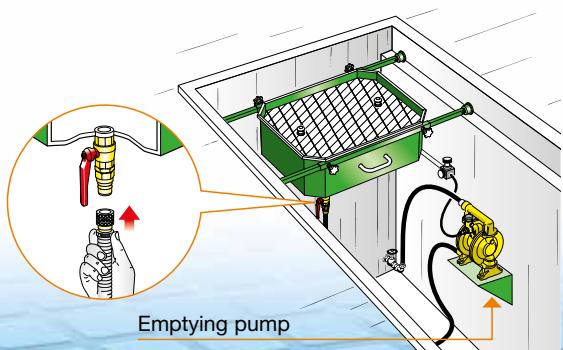
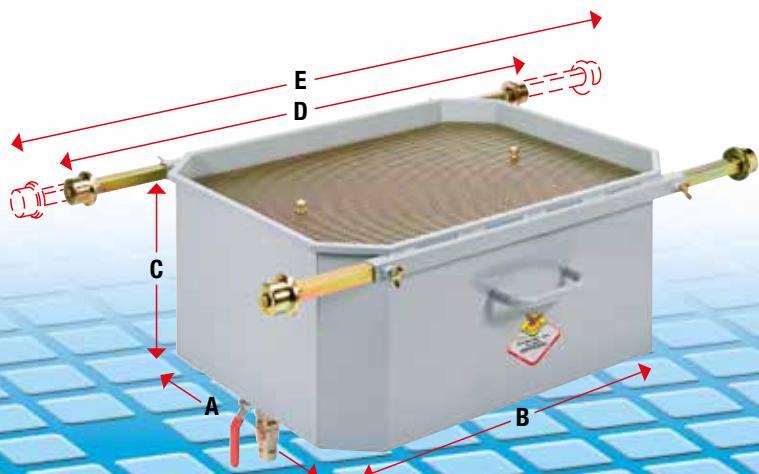
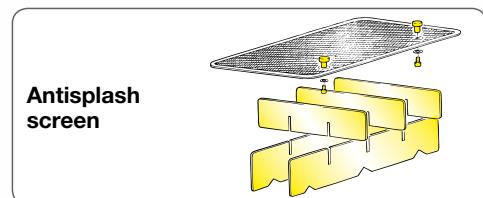
## Pit waste oil drainers.

Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles placed on a pit. Equipped with antisplash screen which can be used as a support for draining oil filters.



Article	42059	42060	42061	42062	42055	42056
Tank capacity litres	<b>65</b>	<b>65</b>	<b>110</b>	<b>110</b>	<b>150</b>	<b>150</b>
Wheels	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage
Emptying	by suction	by gravity	by suction	by gravity	by suction	by gravity
Equipped with	quick-release connector	hose-holder ø 30	quick-release connector	hose-holder ø 30	quick-release connector	hose-holder ø 30
Packing	1 - 0,140 N° - m³	1 - 0,140	1 - 0,220	1 - 0,220	1 - 0,270	1 - 0,270
Weight	kg	27,5	28	39,5	53,5	54
Dimensions (A - B - C) cm	51 - 66 - 22	51 - 66 - 22	63,5 - 79 - 26,4	63,5 - 79 - 26,4	63,5 - 79 - 35,7	63,5 - 79 - 35,7
Dimensions (D - E) cm	75 - 120	75 - 120	84 - 125	84 - 125	84 - 125	84 - 125

Caution: do not use with flammable or corrosive liquids



The drained oil can be transferred from the collection bowl to the storage tank by gravity or by using an emptying pump connected to the fixed system



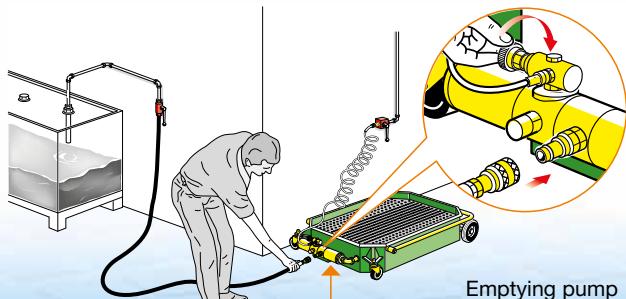
# Waste oil floor drainer

**Wheel-mounted floor waste oil drainers.** Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles. Equipped with antisplash screen which can be used as a support for draining oil filters.

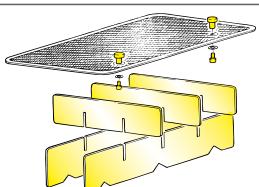


Article	42069	42070	42072	42073	42075	42076
Tank capacity litres	<b>50</b>	<b>50</b>	<b>95</b>	<b>95</b>	<b>150</b>	<b>150</b>
Wheels	4 castors	4 castors	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed
Emptying	by suction	by suction	by suction	pneumatic	by suction	pneumatic
Equipped with	quick-release connector	junction tube	quick-release connector	33070	quick-release connector	33/2011NHHV2
Packing	1 - 0,140 N° - m <sup>3</sup>	1 - 0,140	1 - 0,200	1 - 0,200	1 - 0,330	1 - 0,330
Weight kg	20,5	21	37,5	40	53	61
Dimensions (A - B - C) cm	63 - 66 - 23,5	63 - 66 - 23,5	72,5 - 99 - 20	72,5 - 99 - 20	74,2 - 99,6 - 29,5	74,2 - 99,6 - 29,5
Dimensions (D - E) cm	78	78	119,9	119,9	123,8	123,8

Caution: do not use with flammable or corrosive liquids



Antisplash screen



The drained oil can be transferred from the collection bowl to the storage tank by suction with the incorporated probe or by an emptying pump connected to the fixed system or mounted directly on the collection basin



# Suction drainer with pump

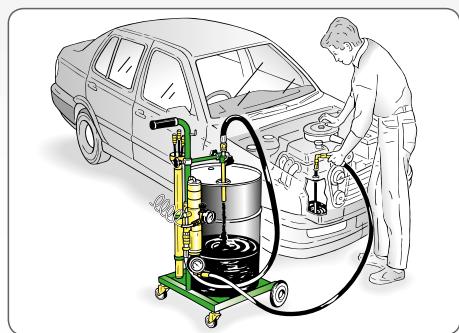
wheel-mounted

oil, waste oil, antifreeze liquid  
and similar products

## Air pump operated fixed drainers.

They enable **draining** by means of the probes supplied. The air pump, equipped with special Viton® seals, is particularly suitable for sucking and delivering fluids such as: various oils, old oil, antifreeze liquid, diesel oil and similar products.

Wall-mounting enables connection to a fixed system for draining the sucked liquid directly in the storage tank.



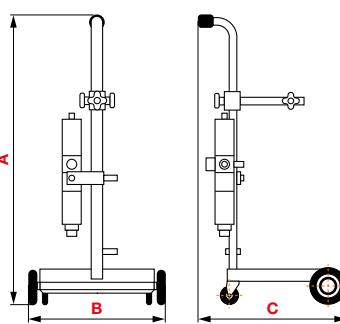
for drums 30 - 60 kg

for drums 180 - 220 kg

Article	45150	45180
Pump	33070/A	33070/A
Max air pressure	bar	bar
Noise level	dB	dB
Suitable for drums	kg	kg
Length of suction hose	m	m
Length of draining hose	m	m
Suction speed	l/min	l/min
Trolley	Art.	Art.
Column	Art.	-
Wall bracket	Art.	-
Wall-mounted probe kit	Art.	-
Hose reels	Art.	-
Set of probes	Art.	45560
Special probe	Art.	45540 ø 12
Packing	N° - m <sup>3</sup>	2 - 0,080
Weight	kg	19,5
Dimensions (A - B - C)	cm	100 - 50 - 64
		87 - 76 - 67

Caution: do not suck any flammable or corrosive liquids

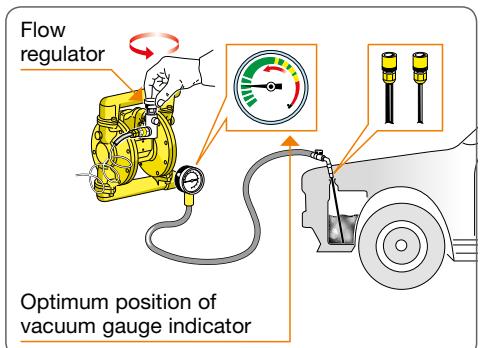
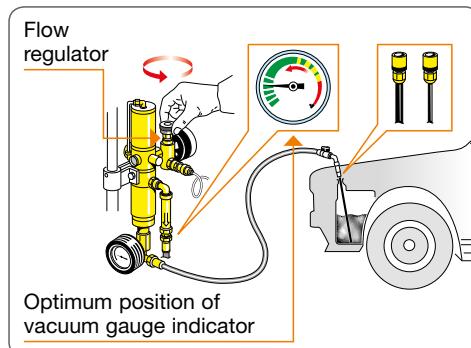
## Overall dimensions



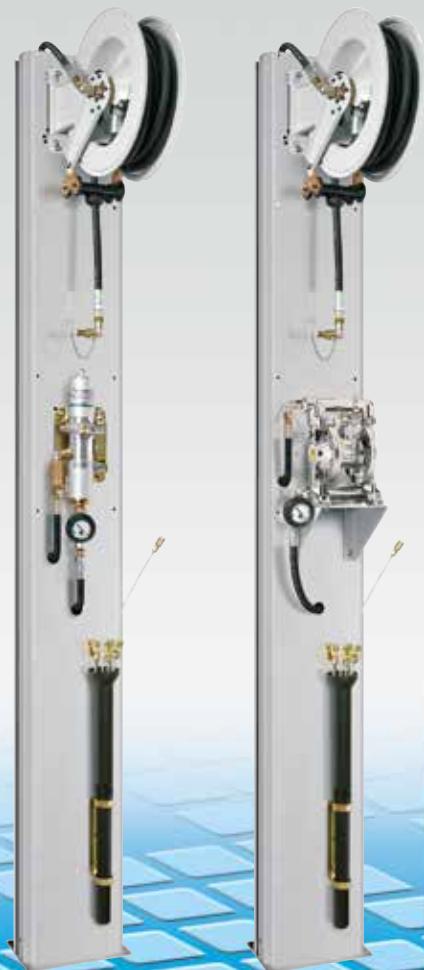
## Details and advantages

### For correct draining, the pump must operate slowly.

To adjust the working speed, operate the flow regulator, "metering" the inlet air feed.  
Make sure the vacuum gauge indicator is always in the optimum position



## wall-mounted



wall-mounted - suction hose 4 m

<b>45100</b>	<b>45300</b>
33070/A	33/2011NHHV2
6	6
81	75
wall-mounted	wall-mounted
1/2" x 4	1/2" x 4
1/2" x 4	1/2" x 4
1,5 - 2	1,5 - 2
-	-
-	-
33115	33590
45570	45570
-	-
45560	45560
45540 ø 12	45540 ø 12
1 - 0,056	2 - 0,070
12,2	14
130 - 60 - 220	130 - 60 - 220

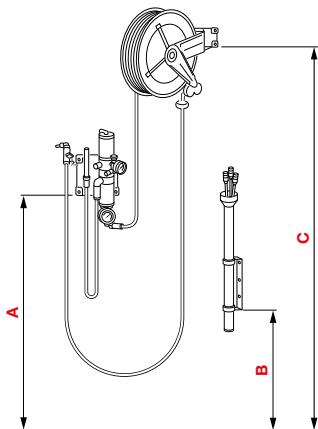
wall-mounted - suction hose 10 m

<b>45110</b>	<b>45310</b>
33070/A	33/2011NHHV2
6	6
81	75
wall-mounted	wall-mounted
1/2" x 10	1/2" x 10
1/2" x 4	1/2" x 4
1,5 - 2	1,5 - 2
-	-
-	-
33115	33590
45570	45570
-	-
8430.401/AS	8430.401/AS
45560	45560
45540 ø 12	45540 ø 12
2 - 0,116	3 - 0,130
29,1	31
130 - 60 - 220	130 - 60 - 220

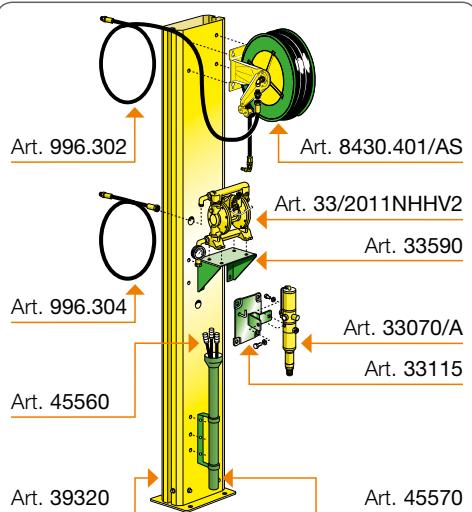
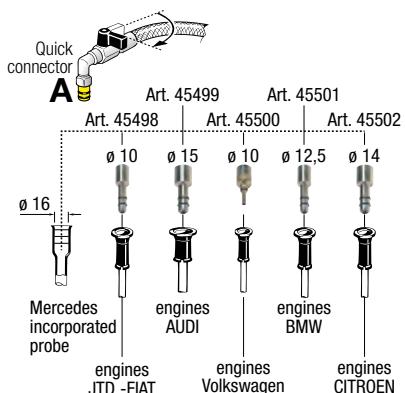
column-mounted - suction hose 10 m

<b>45111</b>	<b>45311</b>
33070/A	33/2011NHHV2
6	6
81	75
wall-mounted	wall-mounted
1/2" x 10	1/2" x 10
1/2" x 4	1/2" x 4
1,5 - 2	1,5 - 2
-	-
39320	39320
33115	33590
45570	45570
8430.401/AS	8430.401/AS
45560	45560
45540 ø 12	45540 ø 12
3 - 0,250	4 - 0,260
75	77
245 - 29 - 59	245 - 29 - 59

### Overall dimensions



Connectors for engines with incorporated probe for faster suction of the waste oil





# Suction drainer-dispensers

## for fuels

ATEX  
Directive

### Wheel-mounted air-operated suction systems, for the management of fuels.

The air pump, equipped with special Viton® seals, is suitable for sucking petrol or diesel oil from any vehicle or motorcycle by means of the probes or connections supplied. The wheel-mounted drainer with pump is easy to handle, versatile. The system is equipped with an earth connection for discharging electrostatic current.

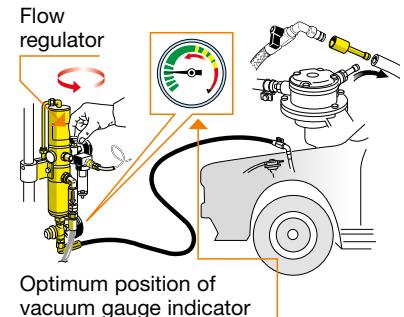


Article	wall-mounted	wheel mounted for drums 30 - 60 kg	wheel mounted for drums 180 - 220 kg
Pump suction	Art. -	33070/A	33070/A
Max pressure air to pump	bar 4	4	4
Noise level	dB 81	81	81
Suitable for drums	kg -	30 - 60	180 - 220
Length of suction hose	m -	2	2
Length of draining hose	m -	2	2
Suction speed	l/min 5 - 10	5 - 10	5 - 10
Trolley	Art. -	80050	80200
Wall bracket	Art. 33115	-	-
Set of probes	Art. -	probe ø 8 - probe ø 12	probe ø 8 - probe ø 12
Connections for tubes ø 6 - 8 - 10	Art. -	45290 - 45291 - 45292	45290 - 45291 - 45292
Earth connection 3 m	yes	yes	yes
Packing	N° - m³ 1 - 0,015	2 - 0,080	2 - 0,113
Weight	kg 6,2	19,5	32,1
Dimensions (A - B - C)	cm 13,6 - 6,5 - 36	50 - 50 - 100	76 - 67 - 87

### Details and advantages

#### For correct draining, the pump must operate slowly.

To adjust the working speed, operate the flow regulator, "metering" the inlet air feed. Make sure the vacuum gauge indicator is always in the optimum position



Art. 45290  
Connection for  
tube ø 6



Art. 45291  
Connection for  
tube ø 8

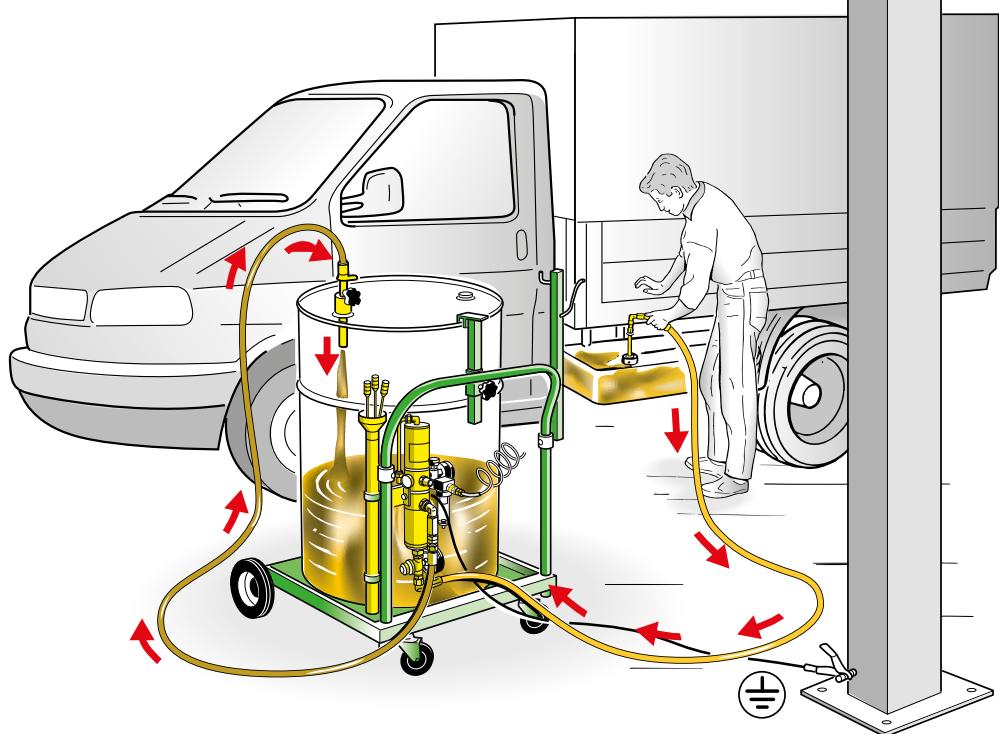


Art. 45292  
Connection for  
tube ø 10



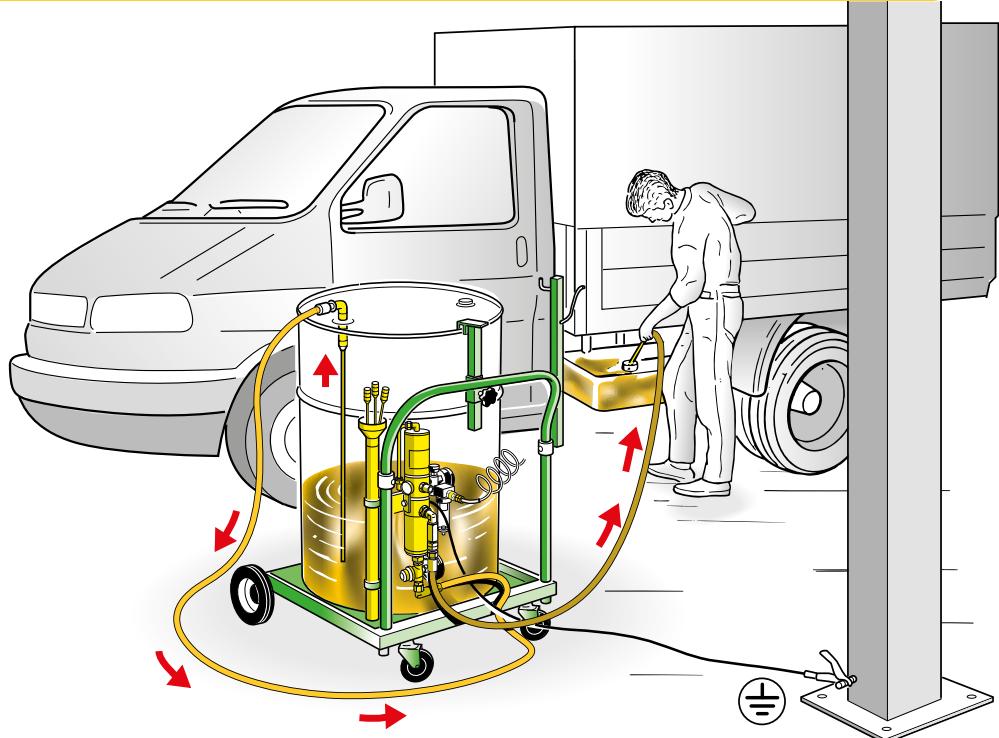
# Dual use

## Draining phase



**Draining** occurs by means of one of the probes supplied. For fuels use the ø 12 mm flexible probe.  
Note: connect to earth before use

## Delivery phase of previously sucked liquid



**Delivery** of sucked liquids occurs by reversing the position of the tubes. Insert the suction tube in the container of previously sucked liquid. Insert the draining tube in the container (or tank) just emptied.  
Note: connect to earth before use



# FLUIDS AND LUBRICATION EQUIPMENT



# Manual pumps for oil and grease

3



MANUAL OIL PUMPS

page 60



AIR-OPERATED OIL DISPENSERS

page 62



13 KG MANUAL GREASE PUMPS

page 63



HAND-OPERATED HIGH PRESSURE GREASE PUMPS

page 64



HAND-OPERATED GREASE TRANSFER PUMPS

page 65



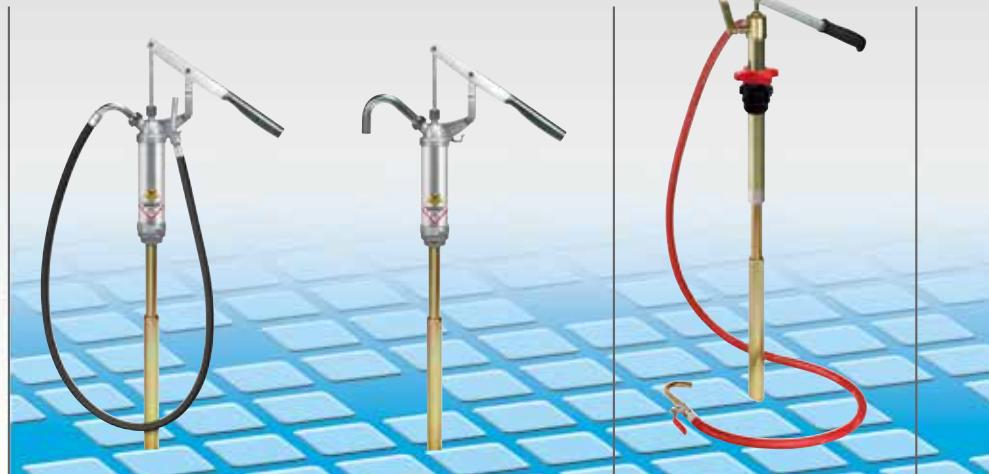
# Manual pumps

## oil and similar

single-  
acting

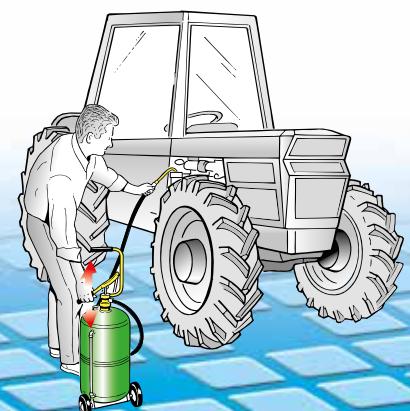
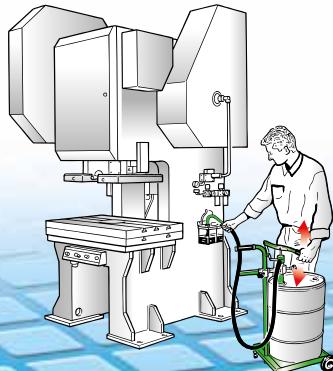
double-  
acting

**Manual pump for oil and allied products.** Single-acting and Viton® seals. Double-acting and NBR seals. The telescopic suction tube enables direct application on containers of different capacities. Suitable for delivering low-viscosity oil.



<b>Article with seals in</b>	<b>Viton®</b>	<b>31200</b>	<b>31201</b>	
<b>Article with seals in</b>	<b>NBR</b>			<b>30200</b>
<b>Tank capacity</b>	litres	-	-	-
<b>Suitable for drums</b>	kg	<b>50 - 220</b>	<b>50 - 220</b>	<b>50 - 220</b>
<b>Delivery hose length</b>	m	2	-	2
<b>Suction tube length</b>	m	0,7 - 1,04	0,7 - 1,04	0,7 - 1,04
<b>Quantity delivered for complete cycle of the lever</b>	g	240	240	220
<b>Max oil density delivered</b>	SAE	130	130	240
<b>Drum clamping ring</b>	Art.	-	-	38044
<b>Trolley</b>	Art.	-	-	-
<b>Antisplash funnel</b>	Art.	-	-	-
<b>Packing</b>	box	N° - m³	1 - 0,016	1 - 0,016
<b>Weight</b>	kg	4,2	4,0	4,4
<b>Dimensions (A - B - C)</b>	cm	5,7 - 5,7 - 138	5,7 - 5,7 - 138	3,8 - 3,8 - 115

Caution: do not use with flammable or corrosive liquids



**double-  
acting**

**double-acting  
pump**



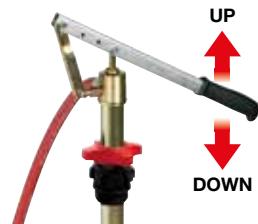
30050	32016	32024	32065
-	<b>16</b>	<b>24</b>	<b>65</b>
<b>30 - 60</b>	-	-	-
2	2	2	2
0,7 - 1,04	-	-	-
220	220	220	220
240	240	240	240
38044	-	-	-
80050	-	-	-
-	24891	24891	24891
2 - 0,040	1 - 0,080	1 - 0,090	1 - 0,185
13,6	10,6	13,7	24
46 - 50 - 123	25,5 - 22,5 - 86	28 - 33 - 89	60 - 42 - 88

**Single-action** (Pic. 1) occurs when the pumping piston delivers the fluid only in the pumping lever downstroke



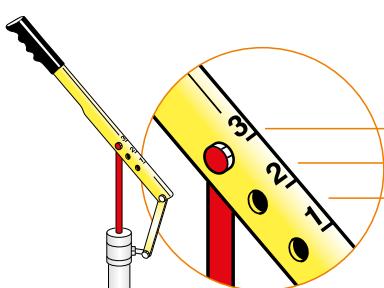
Pic. 1

**Double-action** (Pic. 2) occurs when the pumping piston delivers the fluid in its upstroke and downstroke. Double-action delivers the fluid with a continuous and constant flow



Pic. 2

**Lever hooking variation table**



Hooking position	Pumping shaft stroke	Compression ratio obtainable	Delivery capacity with complete cycle	Indication of types of oil that can be delivered according to the lever position
• n°3	127 mm	1 : 2,2	220 g	SAE W 80/90
• n°2	100 mm	1 : 3,6	170 g	SAE W 85/140
• n°1	60 mm	1 : 6,9	100 g	SAE 240

The position of lever pivot can be varied (3 hookings) to adapt the pumping force to the viscosity of the oil used



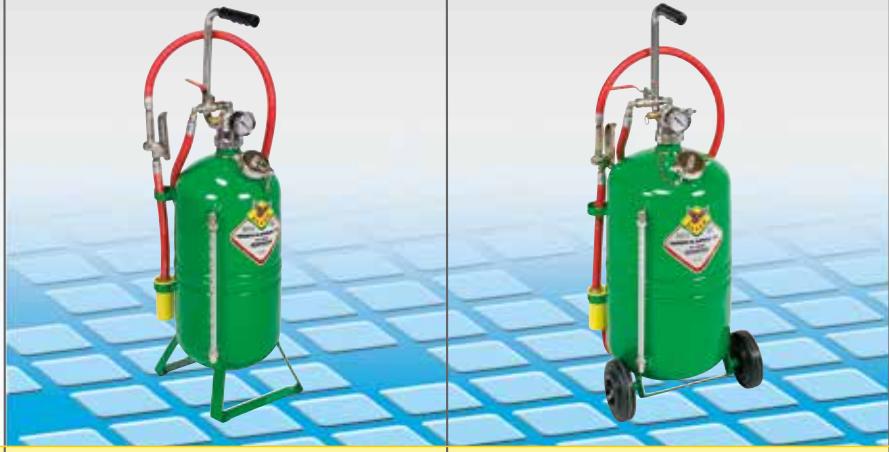
# Air-operated oil dispensers

**portable**

**wheel-mounted**

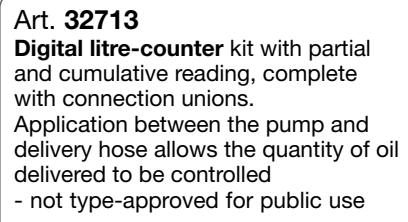
## Air-operated oil dispensers

suitable for high-viscosity oil.  
Filled with oil to 4/5 their capacity  
and pressurised to 6 - 8 bar,  
they work independently without  
requiring connection to the  
compressed air system.  
The air-operated oil dispensers are  
ideal for filling or topping-up engine,  
gearbox, differential, hydraulic power  
pack, reduction unit oil, etc.



Article	33016	33024
<b>Tank capacity</b>	litres	<b>16</b>
Working pressure	bar	6 - 8
Safety valve	bar	10
Delivery hose length	m	2
Gun hose length	m	0,27
Max oil density delivered	SAE	130
Antisplash funnel	Art.	24891
Packing	box	N° - m <sup>3</sup>
Weight	kg	1 - 0,080
Dimensions (A - B - C)	cm	9,9
		25,5 - 22,5 - 86
		28 - 33 - 89

Caution: do not use with flammable or corrosive liquids





# Portable grease dispenser

**Portable and wheel-mounted** or air operated manual grease pumps. Practical and functional, they can be used in all workplaces and enable quick, high-pressure greasing on any motor vehicle or mechanism.

They are equipped with a grease follower plate that protects the lubricant and ensures positive priming.

manual

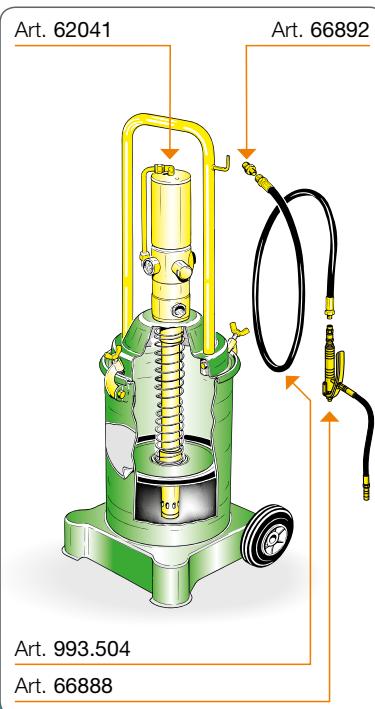
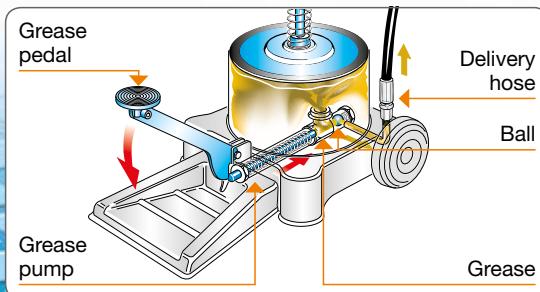
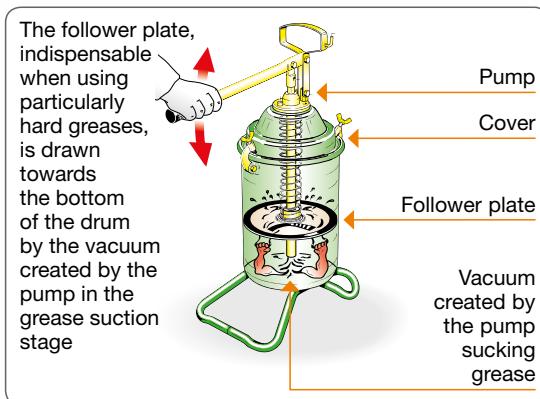
air operated



Article	68012	68113	68213
<b>Tank capacity</b>	<b>kg</b>	<b>13</b>	<b>13</b>
Delivery hose length	m	2,5 - 1/4"	2,5 - 1/4"
Delivery hose	Art.	KR6802	KR6802
Max outlet pressure	bar	350/400	300/350
Capacity every 10 cycles of lever	g	60	40
Pump	Art.	-	-
Compression ratio		-	50:1
Noise level	dB	-	-
Max working pressure	bar	-	-
Max air consumption	l/min	-	-
Capacity (free outlet 6 bar self-levelling grease at 20° C)	g/min	-	1000
Grease follower plate	Art.	yes	yes
Grease coupler	Art.	66739	66739
Nipple	Art.	-	-
Grease gun	Art.	-	-
Packing	N° - m³	1 - 0,070	1 - 0,070
Weight	kg	10,4	14
Dimensions (A - B - C)	cm	34 - 24,5 - 71	52 - 34 - 84
			30 - 34 - 84



## Details and advantages



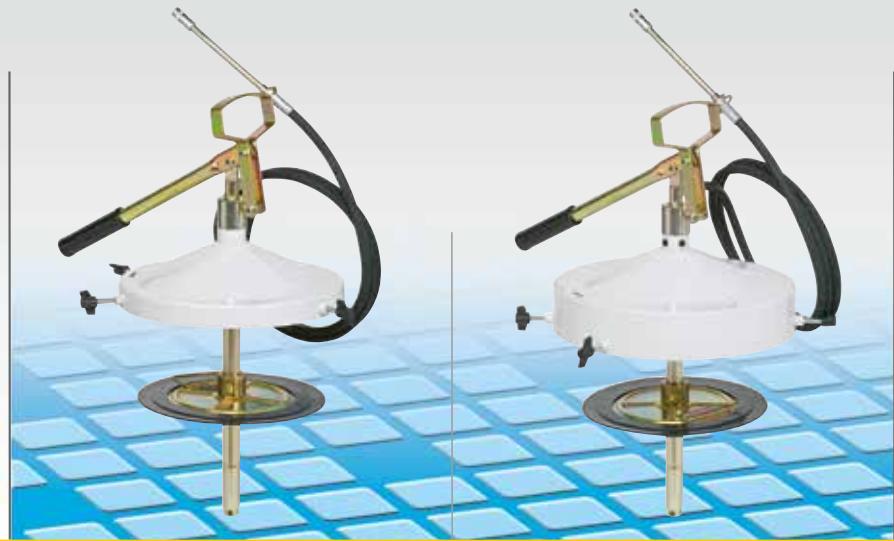


# Manual grease pumps

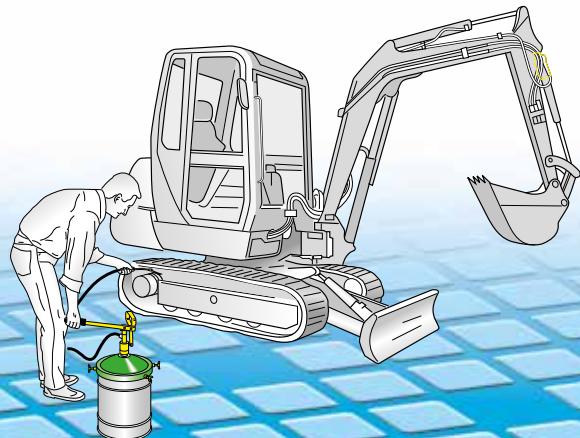
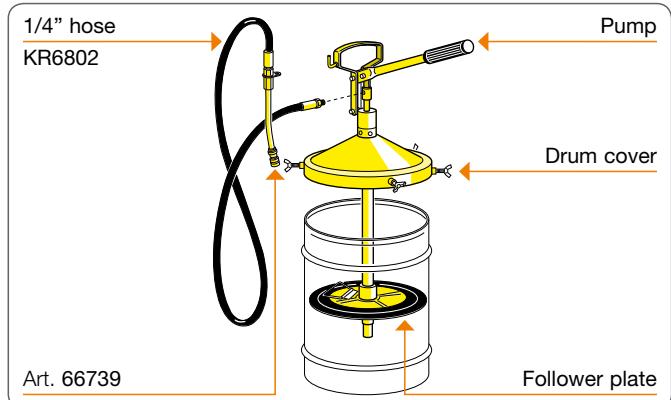
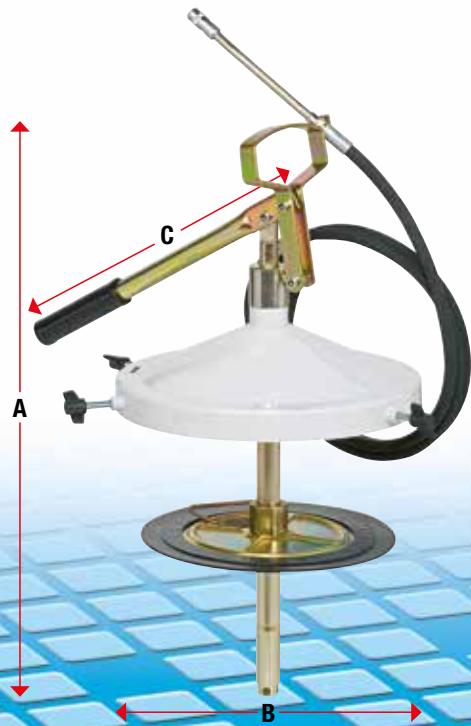
high pressure 350 bar

**Portable lever-operated manual grease pumps.** Practical and functional, they can be used in all workplaces, and in particular on rough ground such as in farming or building sites.

They enable easy change of the grease container (drum or bucket) and quick greasing on any motor vehicle or mechanism. They are equipped with a grease follower plate that protects the lubricant and ensures positive priming.



Article	60280	60310	60311	
Suitable for drums	kg	<b>12 - 20</b>	<b>16 - 30</b>	<b>16 - 30</b>
For drums with external ø	mm	from 240 to 280	from 260 to 300	from 270 to 330
Delivery hose length	m	2,5 - 1/4"	2,5 - 1/4"	2,5 - 1/4"
Max outlet pressure	bar	350/400	350/400	350/400
Capacity every 10 cycles of lever	g	60	60	60
Drum cover ø	mm	280	310	337
Grease follower plate ø	mm	265	310	310
Grease coupler	Art.	66739	66739	66739
Packing	N° - m³	1 - 0,022	1 - 0,022	1 - 0,036
Weight	kg	5,4	6,5	7,2
Dimensions (A - B - C)	cm	63 - 28 - 35	63 - 31 - 35	63 - 33,7 - 35



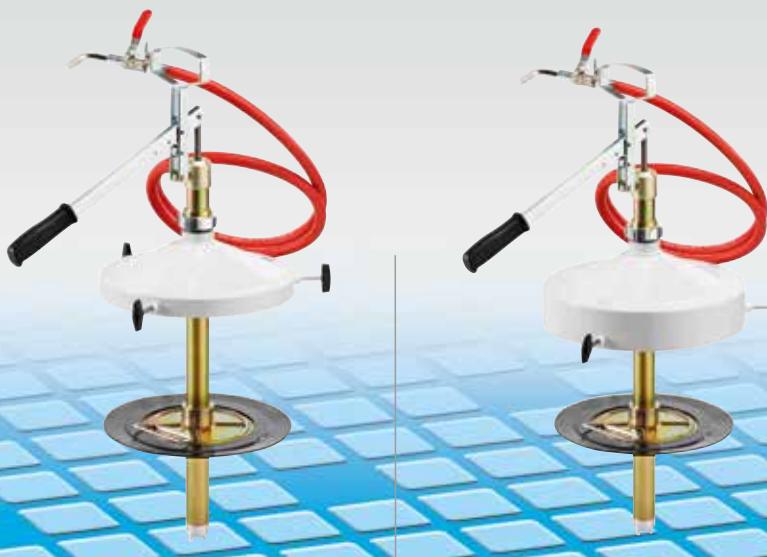


# Manual grease pumps

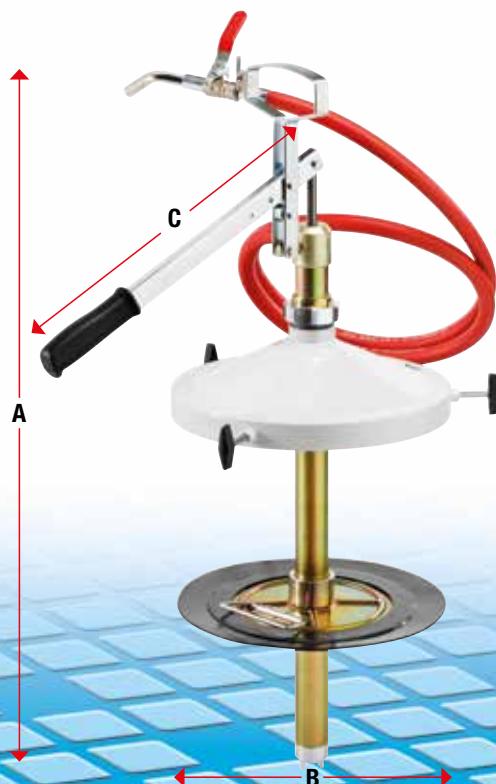
low pressure transferring 20 bar

## Portable manual lever-operated grease transfer pumps.

Each cycle of the lever delivers 50 g of grease. Practical and handy, they are used for filling gearcases, casings, hand-operated grease guns. They enable easy changing of the grease container (drums or bucket) and are equipped with a grease follower plate that protects the lubricant and ensures positive priming.



Article	60410	60411
Suitable for drums	kg	16 - 30
For drums with external ø	mm	from 260 to 300
Delivery hose length	m	2 - 1/2"
Max outlet pressure	bar	18/20
Capacity every 10 cycles of lever	g	500
Drum cover ø	mm	310
Grease follower plate ø	mm	310
Packing	N° - m <sup>3</sup>	1 - 0,030
Weight	kg	6
Dimensions (A - B - C)	cm	78 - 31 - 35
		78 - 33,7 - 35

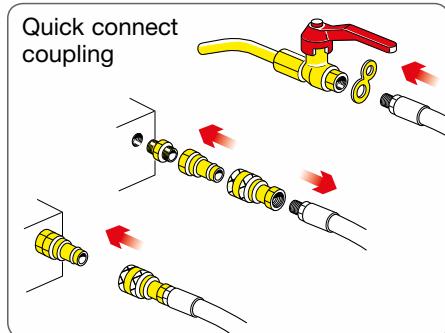


Art. 60450

**Female quick connector**  
complete with check valve,  
1/4" F thread for filling central  
greasing system.  
Max pressure 350 bar



Quick connect coupling



Art. 60451

**Male quick connector**  
complete with check valve,  
1/4" F thread for filling central  
greasing system.  
Max pressure 350 bar



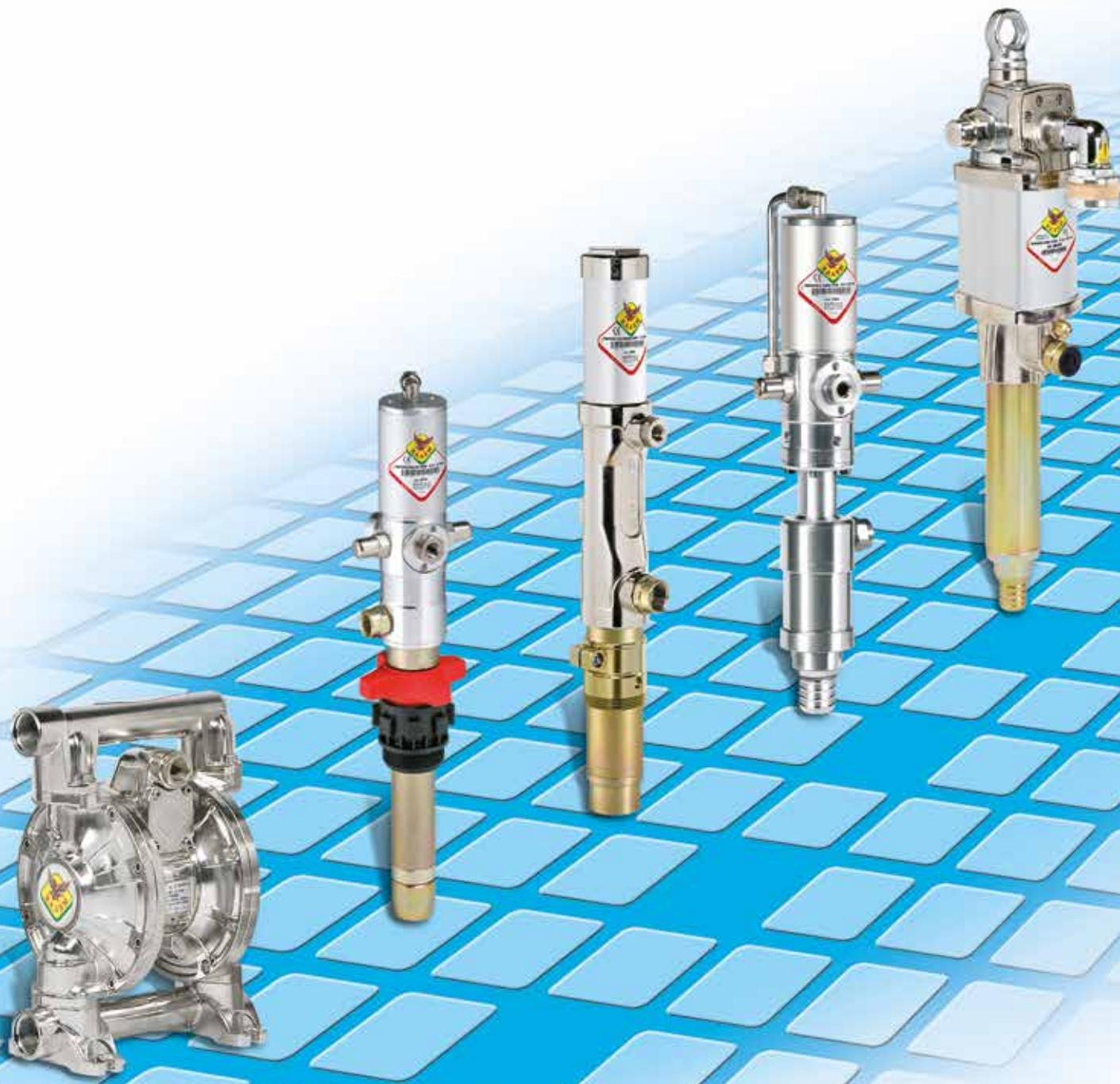
Filling central greasing system



Transfer in small drums



# FLUIDS AND LUBRICATION EQUIPMENT



# **Oil pumps for transfer and distribution**



**EXAMPLE OF SYSTEM AND FCS**

page 68



**OIL PUMPS FOR TRANSFER AND DISTRIBUTION**

page 70



**OIL BAR**

page 92



**DIGITAL METER - OIL HANDLE AND ACCESSORIES**

page 94



## Example of installation

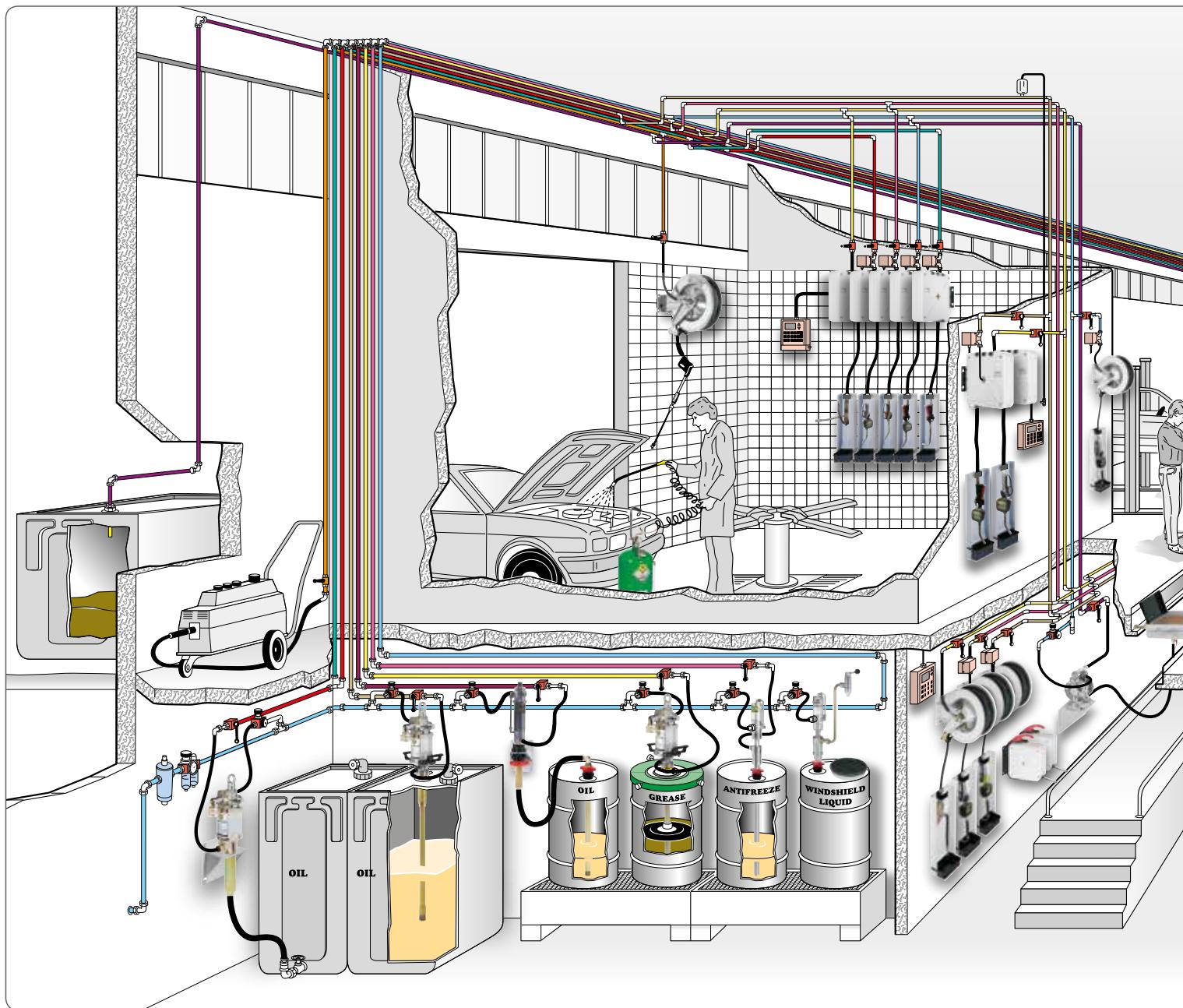
All distribution lines, for oil, grease and similar products, must be prepared with tubing (in steel, rubber ...) for high pressures, and must be smooth and seamless, with connections possibly having an inside diameter greater than the tube itself so as not to create any constrictions.

The tubing for an oil line must be capable of withstanding a minimum working pressure of 60 bar.

For grease installation the tubing must withstand a minimum working pressure of 600 bar.

Air and water tubing may be welded. For water, non corrosive pipework is recommended with min. pressure rating 8 - 10 bar.

For compressed air, 18 - 20 bar minimum pressure rating is recommended.



### OIL

#### MOTOR OIL MAIN LINE

Tube characteristics:

- 0 - 15 m minimum inside diameter 3/4" ( $\varnothing$  19 mm)
- 16 - 50 m minimum inside diameter 1" ( $\varnothing$  25 mm)
- 51 - 100 m minimum inside diameter 1.1/4" ( $\varnothing$  30 mm)
- 101 - 200 m minimum inside diameter 1.1/2" ( $\varnothing$  38 mm)

Discharge: minimum inside diameter 3/4" ( $\varnothing$  19 mm)

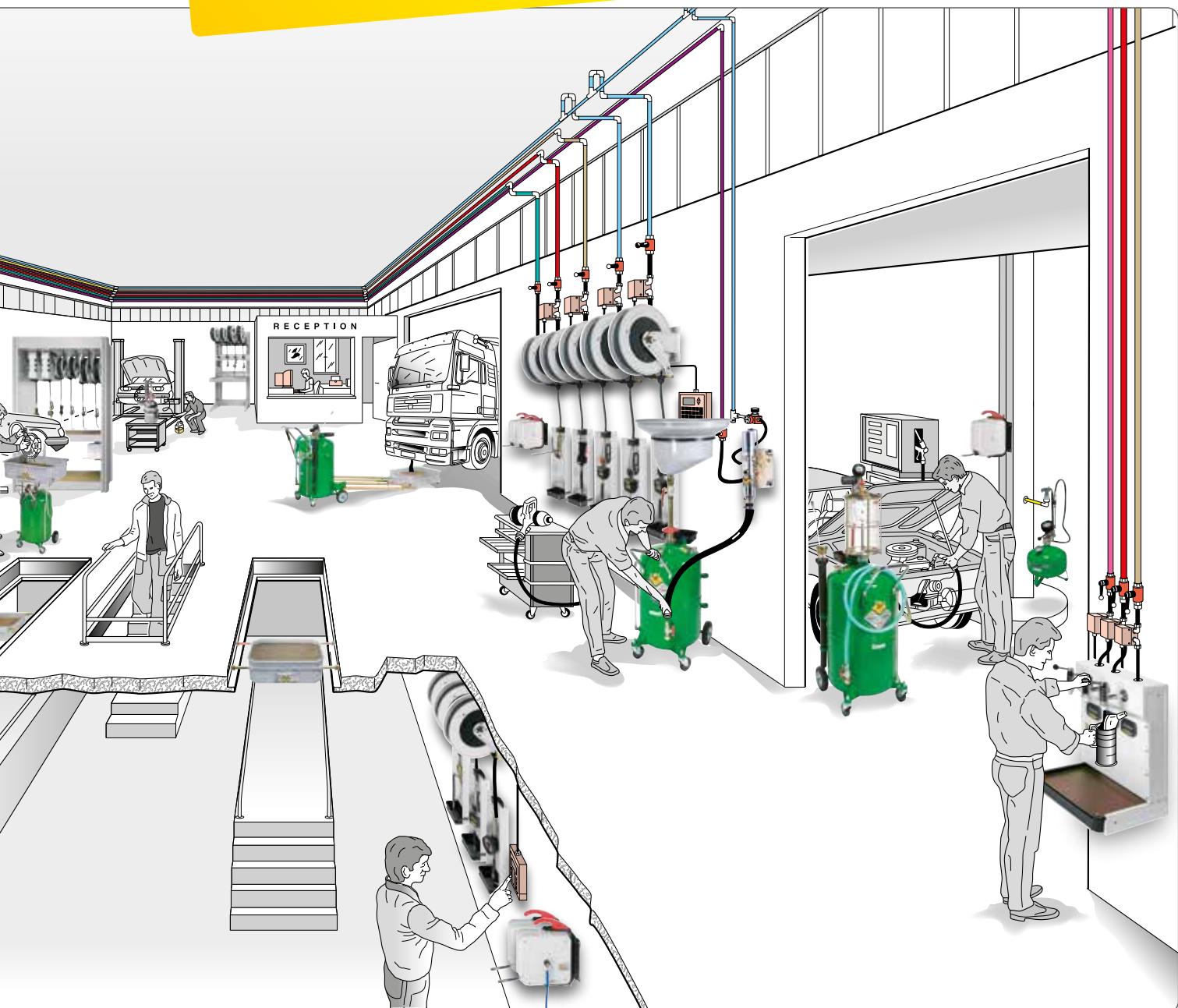
#### GEAR OIL MAIN LINE

Tube characteristics:

- 0 - 15 m minimum inside diameter 1" ( $\varnothing$  25 mm)
- 16 - 50 m minimum inside diameter 1.1/4" ( $\varnothing$  30 mm)
- 51 - 100 m minimum inside diameter 1.1/2" ( $\varnothing$  38 mm)
- 51 - 250 m minimum inside diameter 2" ( $\varnothing$  50 mm)

Discharge: minimum inside diameter 3/4" ( $\varnothing$  19 mm)

...in relation to the computerized control system of fluids and the managing of stock room, please refer to the specific catalogue  
**"FLUIDS CONTROL SYSTEM"**



### **GREASE - WATER - AIR**

#### **GREASE MAIN LINE**

Tube characteristics:  
 0 - 200 m minimum inside diameter 1/2" ( $\varnothing$  15 mm)

Discharge: minimum inside diameter 3/8" ( $\varnothing$  10 mm)

#### **AIR AND WATER MAIN LINE**

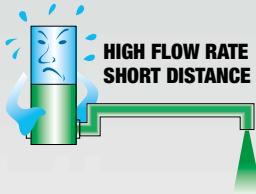
Tube characteristics:  
 0 - 30 m minimum inside diameter 1" ( $\varnothing$  25 mm)  
 31 - 300 m minimum inside diameter 1.1/2" ( $\varnothing$  38 mm)

Discharge: minimum inside diameter 3/4" ( $\varnothing$  19 mm)



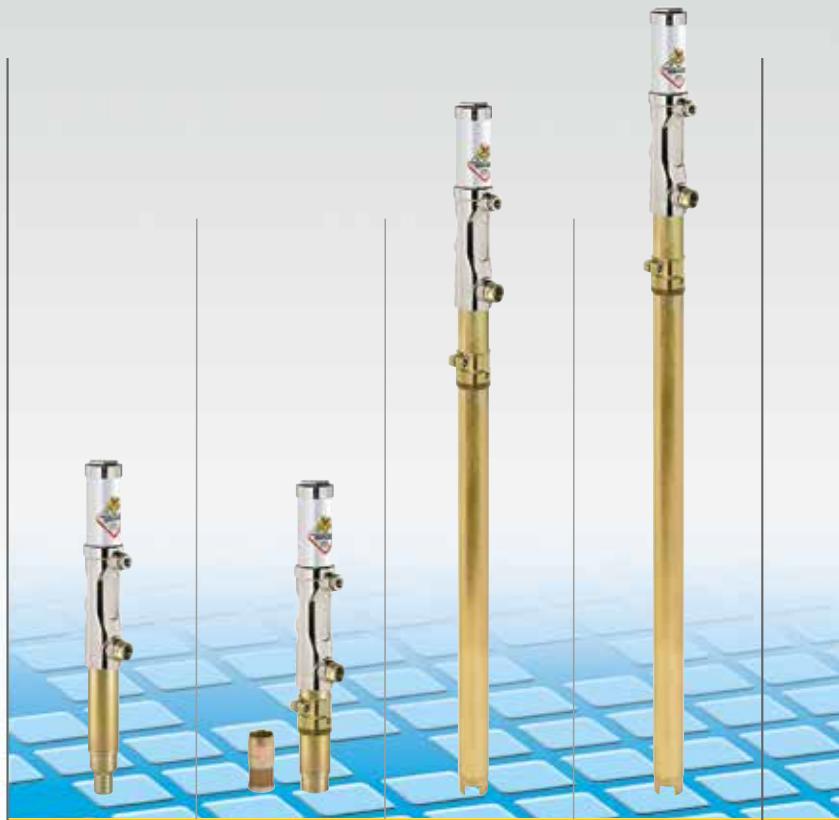
# Air-operated pumps for TRANSFER

Ratio 1:1 Flow rate 35 l/min



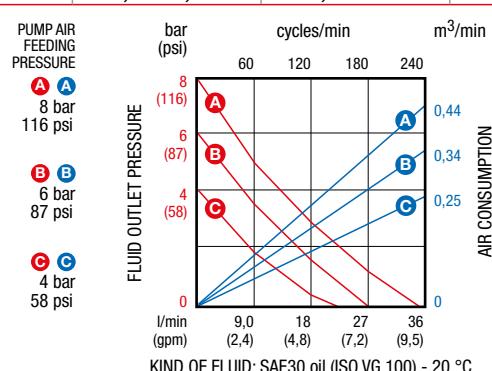
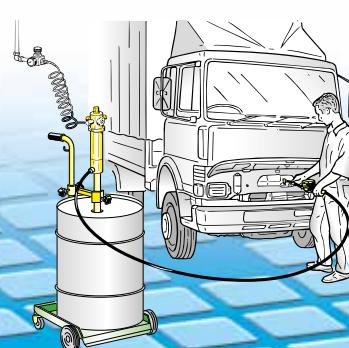
## Air-operated pumps for short and medium-distance transfer.

Ideal for transferring low-medium viscosity fluids such as: oils, lubricants and similar products. The wall-mounted version of these pumps, mounted on wall or in a fixed position by means of the special accessories (refer to page 107), enables numerous uses through the application of modular extensions (refer to page 112).



series 500

Article with seals in	NBR				
Article with seals in	Viton®	26090	26091	26093	
Article with seals in	Teflon®			26094	
Compatible fluids		Oils, lubricants and similar			
Suction tube upper body		Aluminum			
Suction tube		Carbon steel			
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp	F 3/4" G	F 3/4" G	F 3/4" G	F 3/4" G
Air working pressure	bar	6 - 8	6 - 8	6 - 8	6 - 8
Average air consumption	l/min	250	250	250	250
Noise level	dB	81	81	81	81
Max deliverable oil viscosity	SAE	80	80	80	80
Bung adaptor	-	standard	standard	standard	standard
Suitable for drums or tanks					
Packing	N° - m³	1 - 0,010	1 - 0,010	1 - 0,020	1 - 0,020
Weight	kg	5,5	6	7,2	7,2
Dimensions (A - B - C)	cm	33,2 - 20,8 - 5	33,2 - 16,8 - 5	33,2 - 74 - 5	33,2 - 94 - 5



Ratio 1:1 Flow rate 23 l/min

Ratio 1:1 Flow rate 40 l/min



series 600

33080	33081	33082	33083
33070	33071	33072	33073
33060	33061	33094	33096

Oils, lubricants and similar

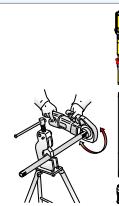
Aluminum

Carbon steel

F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G
6 - 8	6 - 8	6 - 8	6 - 8
230	230	230	230
81	81	81	81
80	80	80	80
-	standard	-	standard



modular



customisable 1"



suitable for drums

180-220 kg



suitable for drums

180-220 kg

1 - 0,006

4,3

35,5 - 0 - 0

1 - 0,006

5

35,5 - 22 - 4,2

1 - 0,020

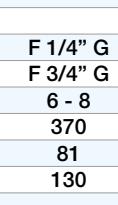
6,2

35,5 - 94 - 4,2

1 - 0,020

6,3

35,5 - 94 - 4,2



modular



suitable for drums

180-220 kg



suitable for drums

180-220 kg

1 - 0,010

5,3

50,5 - 0 - 0

1 - 0,020

7,3

50,5 - 94 - 4,2

1 - 0,020

7,4

50,5 - 94 - 4,2

PUMP AIR

FEEDING

PRESSURE

(A) 8 bar

116 psi

(B) 6 bar

87 psi

(C) 4 bar

58 psi

FLUID OUTLET

PRESSURE

bar

(psi)

cycles/min

m<sup>3</sup>/min

l/min

(gpm)

6,0 (1,6)

12 (3,2)

18 (4,8)

24 (6,4)

0

AIR CONSUMPTION

0,41

0,32

0,23

0

KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

PUMP AIR

FEEDING

PRESSURE

(A) 8 bar

116 psi

(B) 6 bar

87 psi

(C) 4 bar

58 psi

FLUID OUTLET

PRESSURE

bar

(psi)

cycles/min

m<sup>3</sup>/min

l/min

(gpm)

38 (116)

75 (87)

112 (58)

150 (0)

0

AIR CONSUMPTION

0,68

0,53

0,38

0

KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

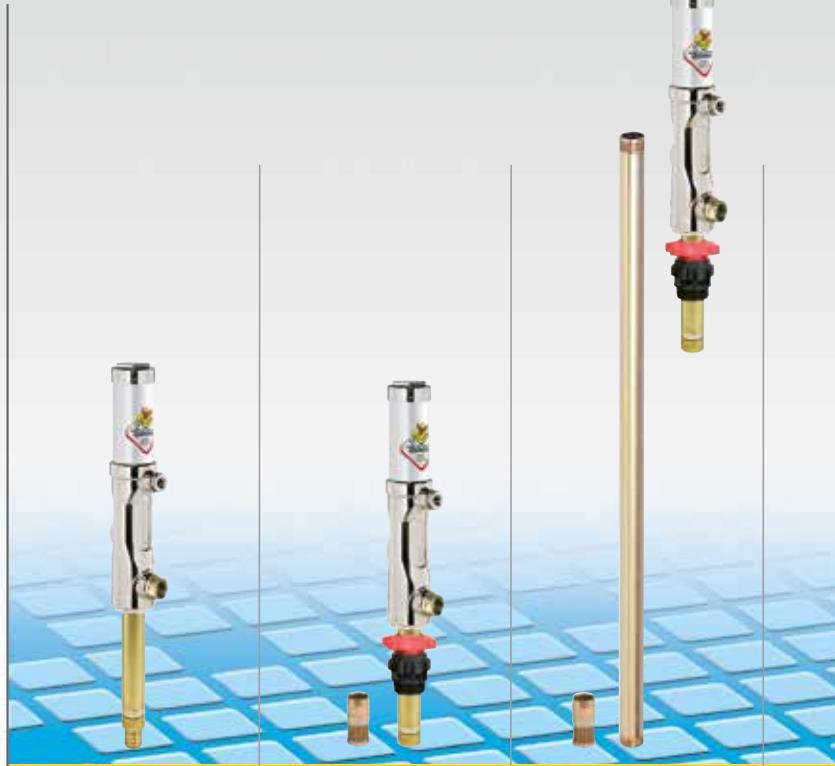


# Air-operated pumps for DISTRIBUTION

Ratio 3:1 Flow rate 20 l/min

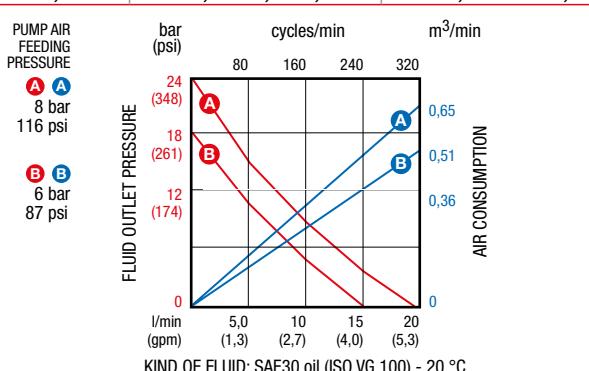
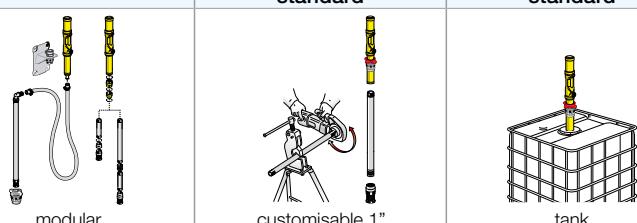


**Air-operated pumps series 500 and 600 for medium distance distribution.** Ideal for transferring low-medium viscosity fluids such as: oils, lubricants and similar products. Suitable for mobile unit or fixed installation. The wall-mounted version of these pumps, mounted on wall or in a fixed position by means of the special accessories (refer to page 107), enables numerous uses through the application of modular extensions (refer to page 112).



series 500

Article with seals in	NBR			
Article with seals in	NBR			
Article with seals in	Viton®	35060	35061	35063
Compatible fluids		Oils, lubricants and similar		
Suction tube upper body		Aluminum		
Suction tube		Carbon steel		
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G	F 1/2" G
Air working pressure	bar	6 - 8	6 - 8	6 - 8
Average air consumption	l/min	350	350	350
Noise level	dB	81	81	81
Max deliverable oil viscosity	SAE	130	130	130
Bung adaptor	-	standard	standard	standard
Suitable for drums or tank				
Packing	1 - 0,01	1 - 0,01	1 - 0,01	1 - 0,01
Weight	5,35	5,8	5,8	5,8
Dimensions (A - B - C)	33,2 - 20 - 3,2	33,2 - 18,5 - 3,2	33,2 - 125 - 3,2	33,2 - 125 - 3,2



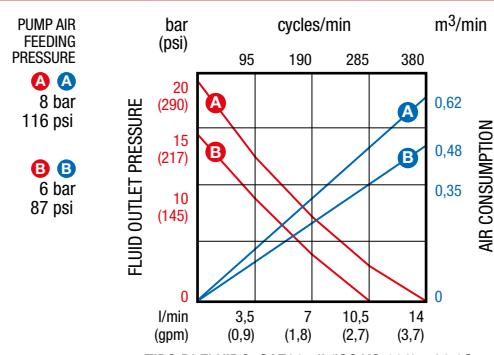
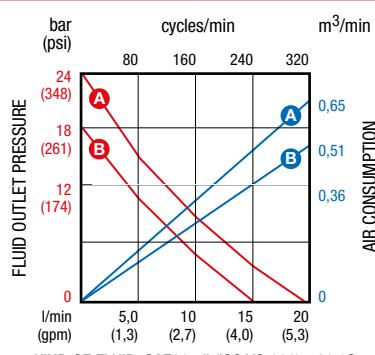


series 500



series 600

35076	35094	35160	35161	35163	35173	35194
Oils, lubricants and similar		Oils, lubricants and similar				
Aluminum		Aluminum				
Carbon steel		Carbon steel				
F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G
6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8
350	350	330	330	330	330	330
81	81	81	81	81	81	81
130	130	130	130	130	130	130
standard	standard	-	standard	standard	standard on 35176	standard on 35196
suitable for drums 50-60 kg	suitable for drums 180-220 kg	modular	customisable 1"	tank	suitable for drums 50-60 kg	suitable for drums 180-220 kg
1 - 0,01	1 - 0,01	1 - 0,01	1 - 0,01	1 - 0,02	1 - 0,020	1 - 0,020
5,8	6,5	4,4	5,0	6,8	5,8	6,5
33,2 - 74 - 3,2	33,2 - 94 - 3,2	28,5 - 28,5 - 4,2	28,5 - 22 - 4,2	28,5 - 125 - 4,2	28,5 - 74 - 4,2	28,5 - 94 - 4,2





# Air-operated pumps for DISTRIBUTION

Ratio 5:1 Flow rate 18 l/min

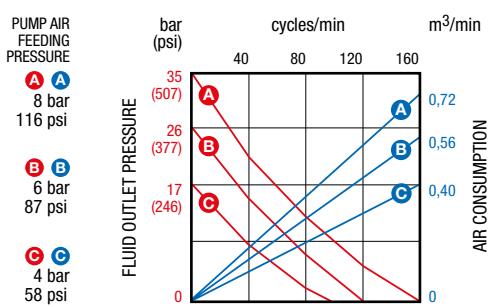


**A Series 650 air-operated double-acting pumps for medium distance oil distribution.** Ideal for also distributing high viscosity oil. The double action guarantees the delivery of a continuous and constant flow, ideal for all installations, excellent for centralised distribution systems. The wall-mounted version of these pumps, mounted on wall or in a fixed position by means of the special accessories (refer to page 107), enables numerous uses through the application of modular extensions (refer to page 112).



series 650

Article with seals in	NBR	36060	36061	36063	
Article with seals in	NBR				
Compatible fluids		Medium/high-viscosity oil			
Suction tube upper body		Aluminum			
Suction tube		Carbon steel			
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G	
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G	F 1/2" G	
Air working pressure	bar	6 - 8	6 - 8	6 - 8	
Average air consumption	l/min	350	350	350	
Noise level	dB	81	81	81	
Max deliverable oil viscosity	SAE	240	240	240	
Bung adaptor		-	standard	standard	
Modular extensions					
modular		customisable 1"		tank	
Suitable for drums or tanks					
Packing	N° - m <sup>3</sup>	1 - 0,01	1 - 0,01	1 - 0,02	
Weight	kg	4,7	5,2	7,2	
Dimensions (A - B - C)	cm	34,5 - 27 - 4,2	34,5 - 27 - 4,2	34,5 - 125 - 4,2	



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

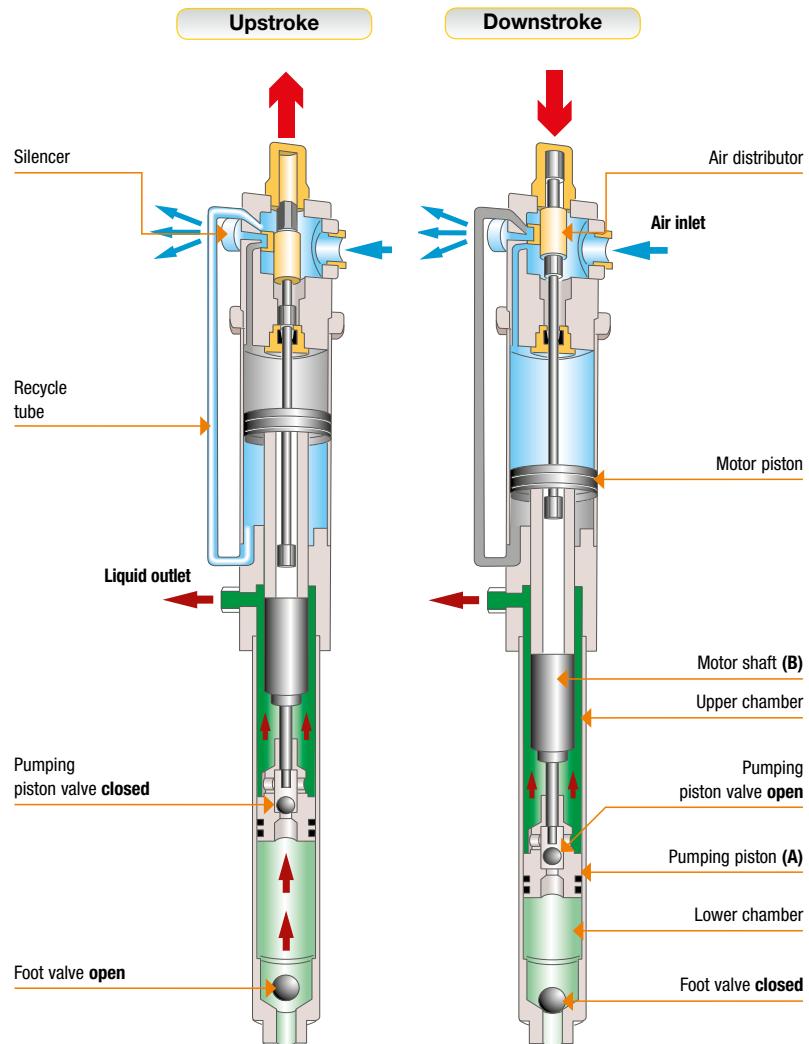
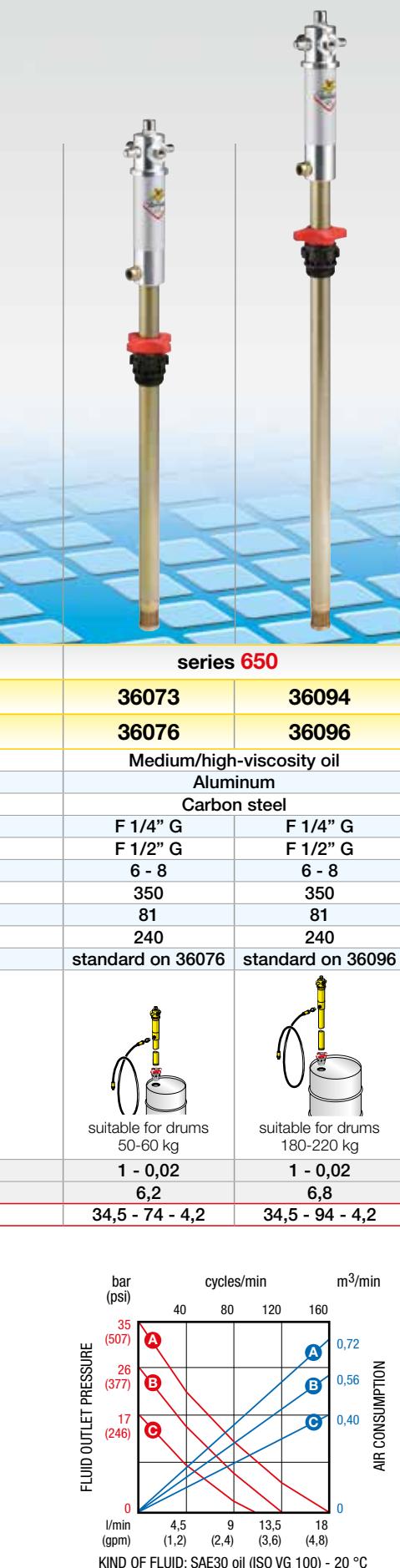
# Advantages of double-action

There are many technical solutions for obtaining a reciprocating double-acting pump.

The double-action of RAASM pumps is obtained with solutions that have simplified the pump mechanism itself, ensuring that delivery of the fluid in both alternating movements (upstroke and downstroke) of the pump occurs only through the difference in volume between the diameters of the pumping piston (A) and the pump shaft (B).

On the **upstroke**, delivery is caused by the **pumping piston (A)**.

On the **downstroke** it is caused by the difference in **volume between the diameter of the motor shaft (B) and the diameter of the pumping piston (A)**.

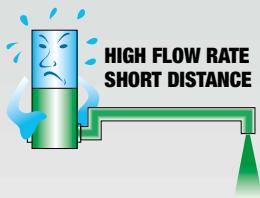


In addition to guaranteeing regular delivery of the fluid, this solution offers the further advantage of having fewer parts inside the pump. This means less wear plus greater and longer reliability.

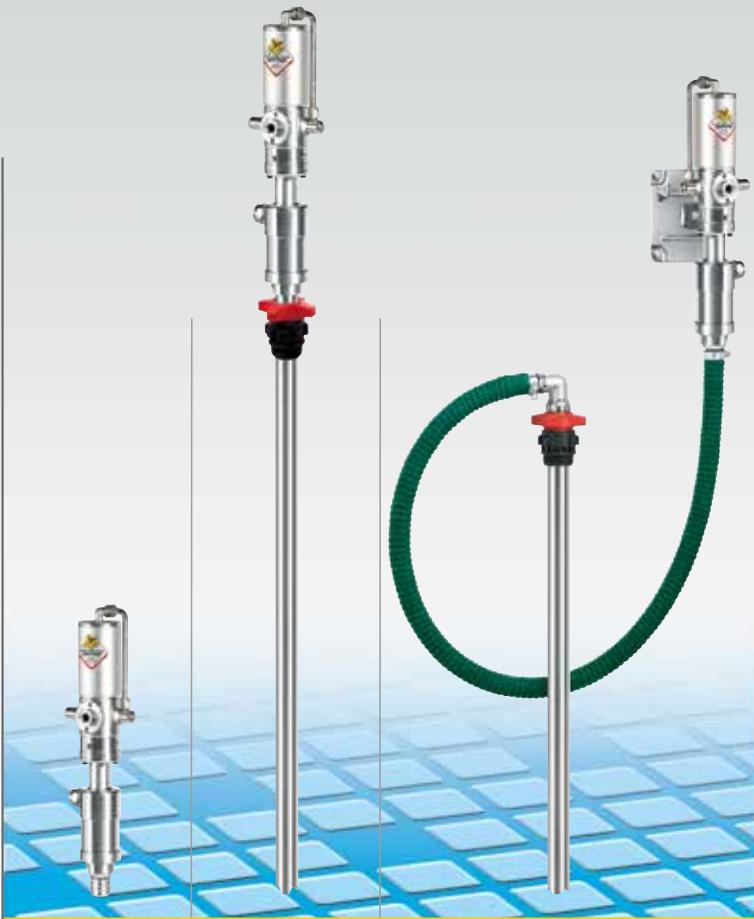


# Stainless steel AISI 304 pumps for TRANSFER

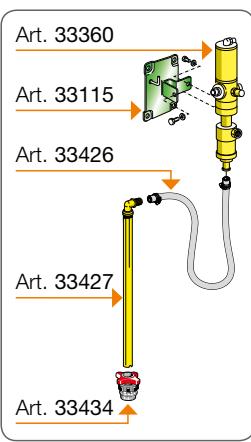
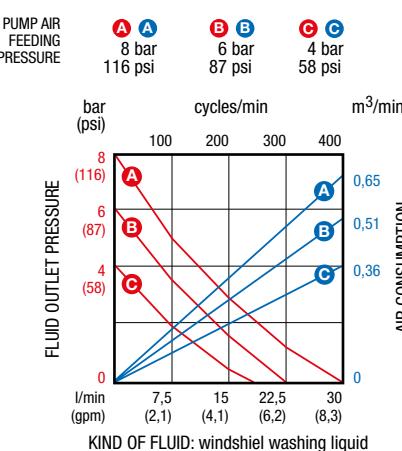
Ratio 1:1 Flow rate 30 l/min



**Stainless steel AISI 304 air-operated pumps for short-medium distance transfer.**  
Ideal for transferring low-medium viscosity fluids such as: antifreeze liquid, windshield washing liquid and chemical products.



Article with seals in Viton®	33360	33396	33300	
Compatible fluids	Suitable for antifreeze and windshield washing liquid			
Suction tube lower body	Stainless steel AISI 304			
Suction tube	Stainless steel AISI 304			
Air inlet connection	bsp	F 1/4" G	F 1/4" G	-
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G	-
Air working pressure	bar	6 - 8	6 - 8	-
Average air consumption	l/min	370	370	-
Noise level	dB	81	81	-
Max deliverable oil viscosity	SAE	50	50	-
Bung adaptor	-	standard	33434	
Suitable for drums or tanks				
Packing	N° - m³	1 - 0,10	1 - 0,020	1 - 0,29
Weight	kg	5,3	7,4	11,4
Dimensions (A - B - C)	cm	41 - 0 - 0	41 - 94 - 3,4	41 - 94 - 3,4



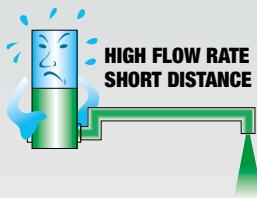


# DIAPHRAGM Pumps

## S. 340-AB

in aluminum

3/4" Ratio 1:1 Flow rate 70 l/min



The transfer diaphragm pumps, specific for oil and similar products in die-cast aluminum, with high-quality components, ensure lasting and reliable operation even in extreme conditions. Ideal for transferring fluids even in the presence of suspended solids.



ATEX directive  
II 2 GD c IIB T4 X



series 340-AB

### Article with membrane in NBR High Nitrile

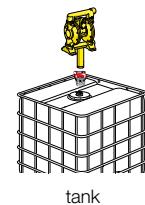
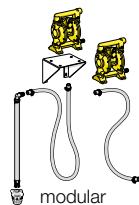
33/2011NHHV2

333500

333505

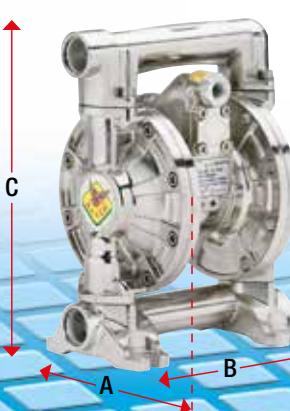
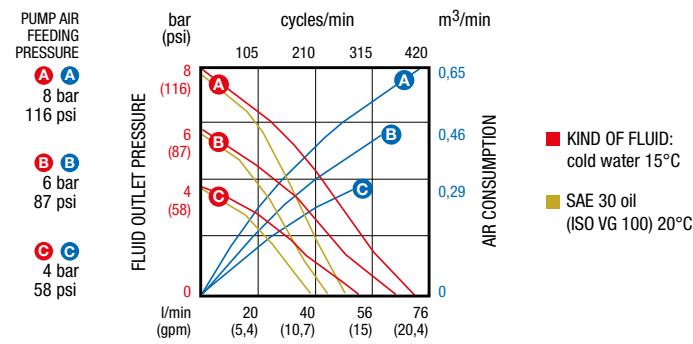
Compatible fluids	Water, mineral-vegetable oils, diesel oil		
Pump material	Aluminum		
Ball valve material	Hytrell®		
Air inlet connection	bsp	F 3/8" G	F 3/8" G
Fluid inlet-outlet connection	bsp	F 3/4" x F 3/4" G	suction tube ø 34 mm - F 3/4" G
Air working pressure	bar	2 - 6	2 - 6
Air max pressure	bar	8	8
Average air consumption	l/min	500	500
Noise level	dB	75	75
Fluid temperature	°C	-10 +90	-10 +90
Max solids diameter	mm	ø 1,5	ø 1,5

### Suitable for drums or tanks



### Suction-delivery ball valve with spring

Packing	N° - m <sup>3</sup>	1 - 0,015	2 - 0,040	2 - 0,040
Weight	kg	8	10	11
Dimensions (A - B - C)	cm	16 - 20 - 25,6	16 - 20 - 25,6	16 - 20 - 25,6
Suction tube length and ø	cm	-	94x3,4	124x3,4

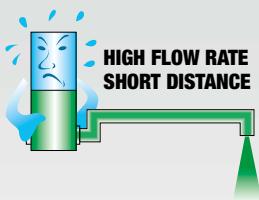




# DIAPHRAGM Pumps

## S. 1000-AB - 1140-AB

in aluminum

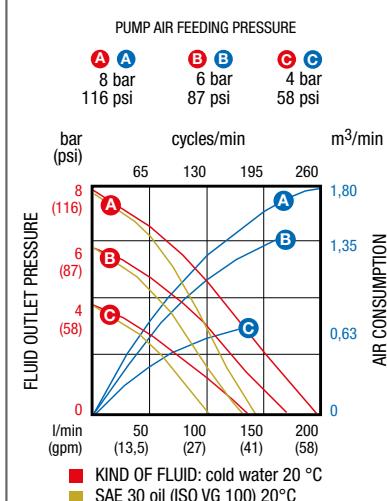
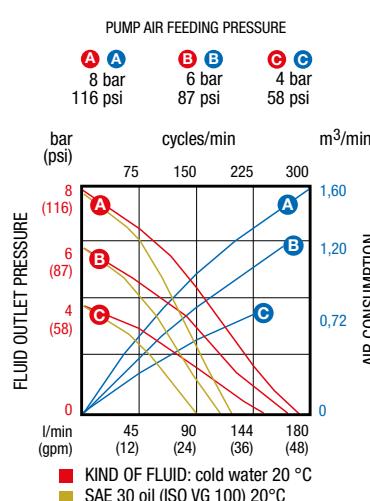
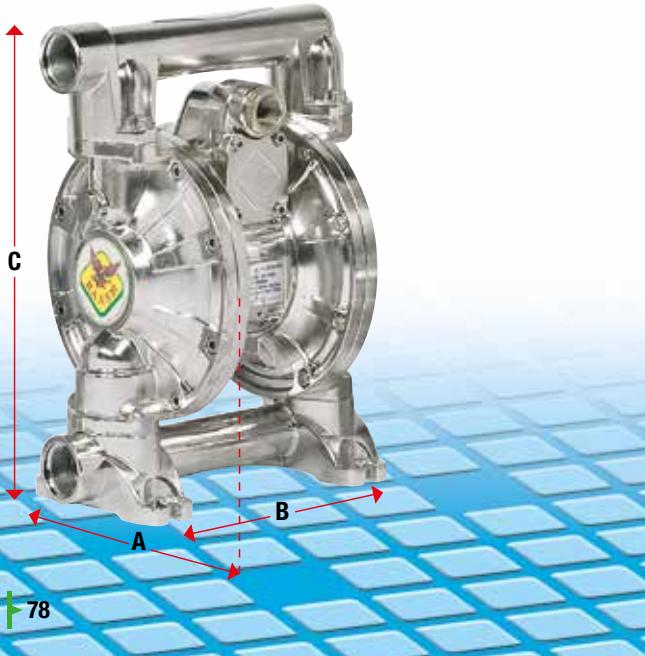


The transfer diaphragm pumps, specific for oil and similar products in die-cast aluminum, with high-quality components, ensure lasting and reliable operation even in extreme conditions. Ideal for transferring fluids even in the presence of suspended solids.



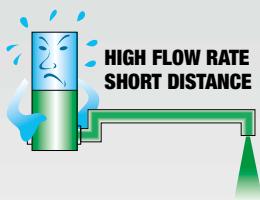
### Article with membrane in NBR High Nitrile

Compatible fluids	Water, mineral-vegetable oils, diesel oil	Water, mineral-vegetable oils, diesel oil
Pump material	Aluminum	Aluminum
Ball valve material	Hytre®	Hytre®
Air inlet connection	F 3/8" G	F 3/4" G
Fluid inlet-outlet connection	F 1.1/4" x F 1" G	F 1.1/4" x F 1.1/4" G
Air working pressure	2 - 6	2 - 6
Air max pressure	8	8
Average air consumption	1200	1400
Noise level	75	75
Fluid temperature	-10 +90	-10 +90
Max solids diameter	ø 3	ø 3
Suction-delivery ball valve with spring		
Packing	N° - m³	1 - 0,025
Weight	kg	14
Dimensions (A - B - C)	cm	20 - 26 - 34,5
		23,8 - 28,6 - 38,6



**DIAPHRAGM****Pumps****S. 120-PB**

in polypropylene



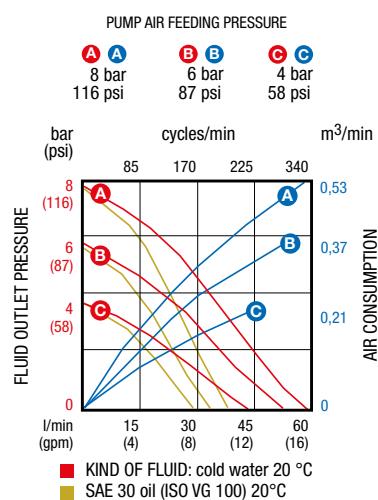
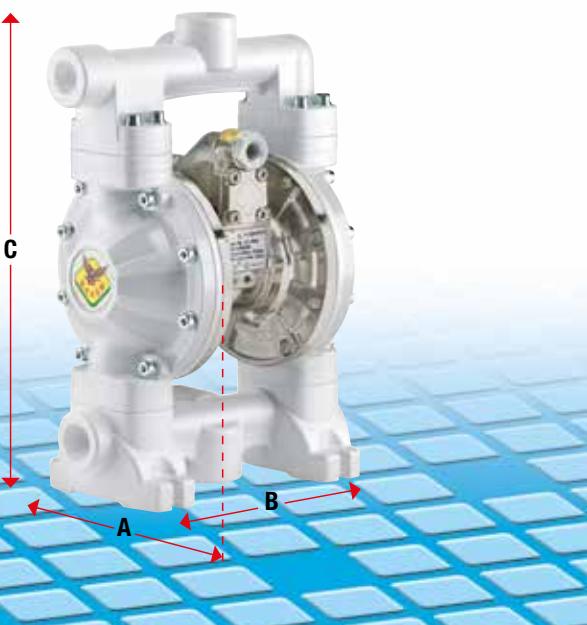
**Diaphragm pumps** are used in different kind of application. They can be installed on wall brackets, on trailers, on moving machines, on drums, on big reservoirs and in many other places. Ideal for transferring fluids even in the presence of suspended solids. Double inlet version is suitable to mix together two different kind of liquids i. e. water and antifreeze.

1/2" Ratio 1:1

Flow rate 60 l/min



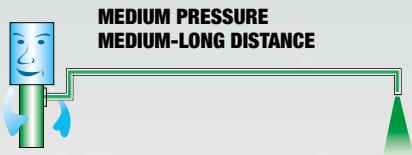
Article with membrane	NBR High Nitrile	2B3/16117NH52	2B8/16117NH52	2B8/16117TT52
Article with membrane	PTFE	2B3/16117TT52		2B8/16117TT52
Compatible fluids	Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze	Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze
Motor and inside flanges material	Aluminum	Aluminum	Aluminum	Aluminum
Wetted parts	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Ball valve material	Hytrell®	Teflon®	Hytrell®	Teflon®
Air inlet connection	bsp	F 3/8" G	F 3/8" G	F 3/8" G
Fluid inlet-outlet connection	bsp	F 3/4" x F 1/2" G	F 3/4" x F 1/2" G	F 3/4" x F 1/2" G
Air working pressure	bar	2 - 6	2 - 6	2 - 6
Air max pressure	bar	8	8	8
Average air consumption	l/min	400	400	400
Noise level	dB	75	75	75
Fluid temperature	°C	-10 +65	-10 +65	-10 +65
Max solids diameter	mm	ø 1,5	ø 1,5	ø 1,5
Suction-delivery ball valve with spring				
Packing	N° - m³	1 - 0,015	1 - 0,015	1 - 0,015
Weight	kg	7,5	7,5	7
Dimensions (A - B - C)	cm	17,8 - 21,8 - 32,6	17,8 - 21,8 - 32,6	17,8 - 22 - 32,6
				17,8 - 22 - 32,6





# Air-operated pumps for DISTRIBUTION

Ratio 5:1 Flow rate 45 l/min



**Series 900 industrial air-operated double-acting pumps for distribution.**  
Suitable for transferring oils, lubricants and similar products also with very high viscosity. The double action guarantees the delivery of a continuous and constant flow, ideal for all needs. Particularly effective in systems equipped with several distribution points.



## Article with seals in PU

Compatible fluids	
Suction tube upper body	
Suction tube	
Air inlet connection	bsp
Fluid outlet connection	bsp
Air max pressure	bar
Max air consumption 8 bar	m <sup>3</sup> /min
Noise level	dB

Suitable for drums or tanks

Packing	N° - m <sup>3</sup>	1 - 0,040
Weight	kg	12
Dimensions (A - B - C)	cm	43 - 23 - 6,2



series 900

## 90C/51

Oils, lubricants and similar

Aluminum

Carbon steel

F 1/2"

F 3/4"

8

1,6

80

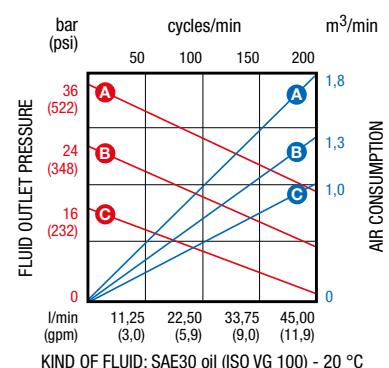


### PUMP AIR FEEDING PRESSURE

**A** 8 bar  
116 psi

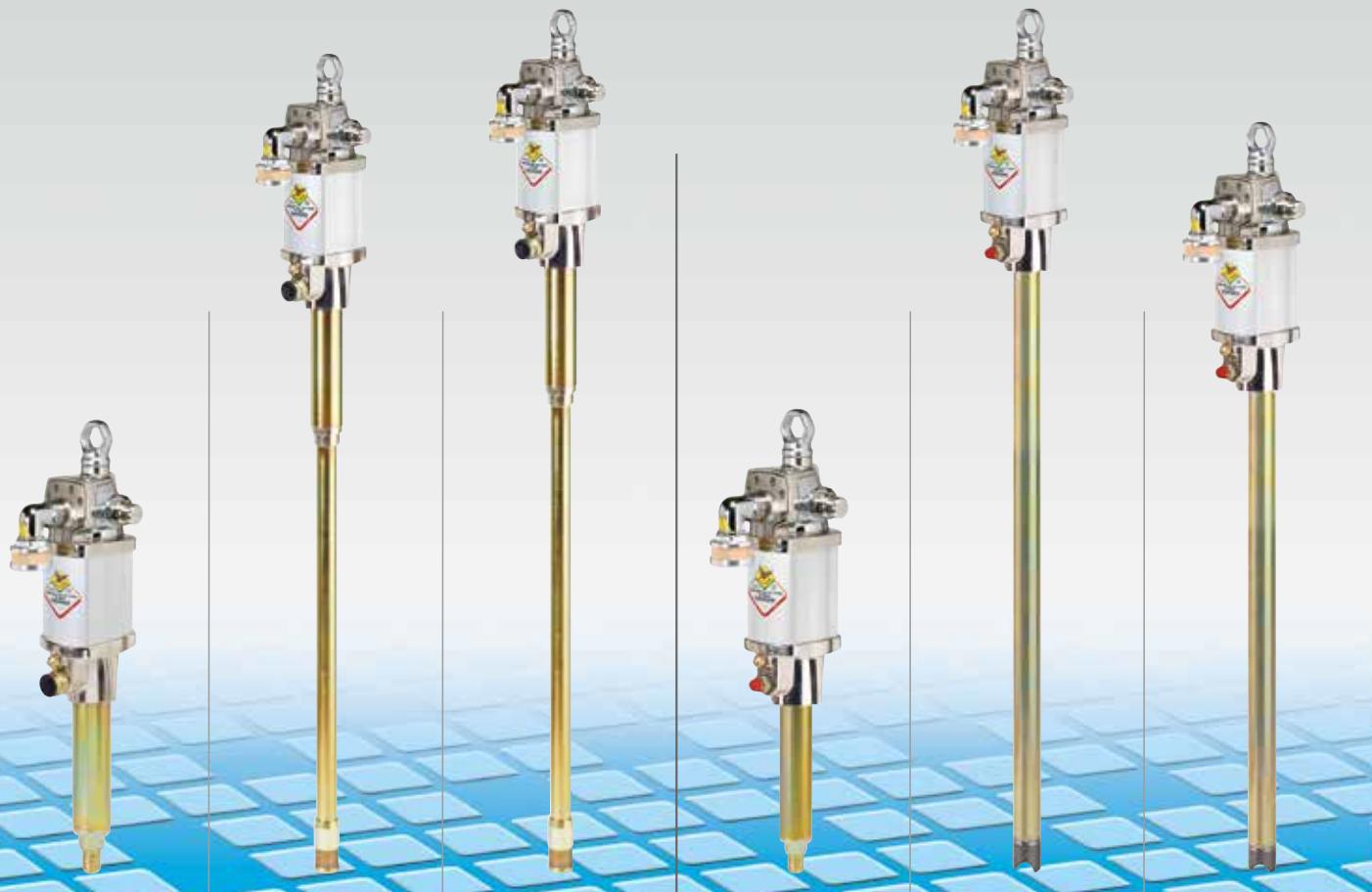
**B** 6 bar  
87 psi

**C** 4 bar  
58 psi



Ratio 7:1 Flow rate 30 l/min

Ratio 11:1 Flow rate 30 l/min



**series 900**

**90C/71**

**91C/71**

**92C/71**

Oils, lubricants and similar

Aluminum

Carbon steel

F 1/2"

F 3/4"

8

1,6

80

F 1/2"

F 3/4"

8

1,6

80

F 1/2"

F 3/4"

8

1,6

80

**90C/111**

**series 900**

**91C/111**

**92C/111**

Oils, lubricants and grease

Aluminum

Carbon steel

F 1/2"

F 3/4"

8

1,7

80

F 1/2"

F 3/4"

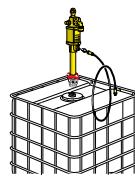
8

1,7

80



suitable for drums  
180-220 kg



1 - 0,040

11

43 - 27 - 5,3

1 - 0,070

13

43 - 94 - 5,3

1 - 0,080

15

43 - 126 - 5,3

1 - 0,040

11

43 - 27 - 4,5

1 - 0,070

16

43 - 94 - 4,5

1 - 0,070

15

43 - 74 - 4,5

PUMP AIR FEEDING

PRESSURE

**A A**

8 bar

116 psi

**B B**

6 bar

87 psi

**C C**

4 bar

58 psi

FLUID OUTLET PRESSURE

bar  
(psi)

54  
(783)

40  
(580)

26  
(377)

0

cycles/min

50 100 150 200

m<sup>3</sup>/min

1,8

1,3

1,0

0

AIR CONSUMPTION

l/min  
(gpm)

7,50  
(2,0)

15,00  
(4,0)

22,50  
(6,0)

30,00  
(7,9)

KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

PUMP AIR FEEDING

PRESSURE

**A A**

8 bar

116 psi

**B B**

6 bar

87 psi

**C C**

4 bar

58 psi

FLUID OUTLET PRESSURE

bar  
(psi)

82  
(1189)

58  
(841)

36  
(522)

0

cycles/min

65 130 195 260

m<sup>3</sup>/min

1,9

1,4

1,0

0

AIR CONSUMPTION

l/min  
(gpm)

7,5  
(2,0)

15  
(4,1)

22,5  
(6,3)

30  
(8,2)

KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



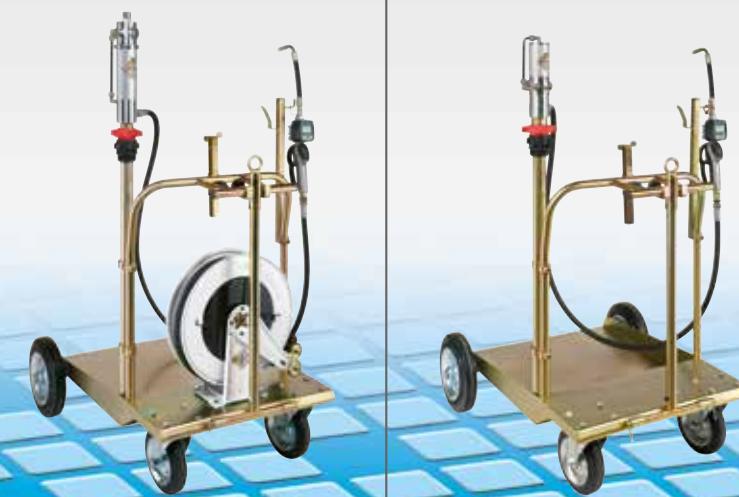
# Mobile oil DISPENSER unit

**trolley super**  
for drums 180-220 kg

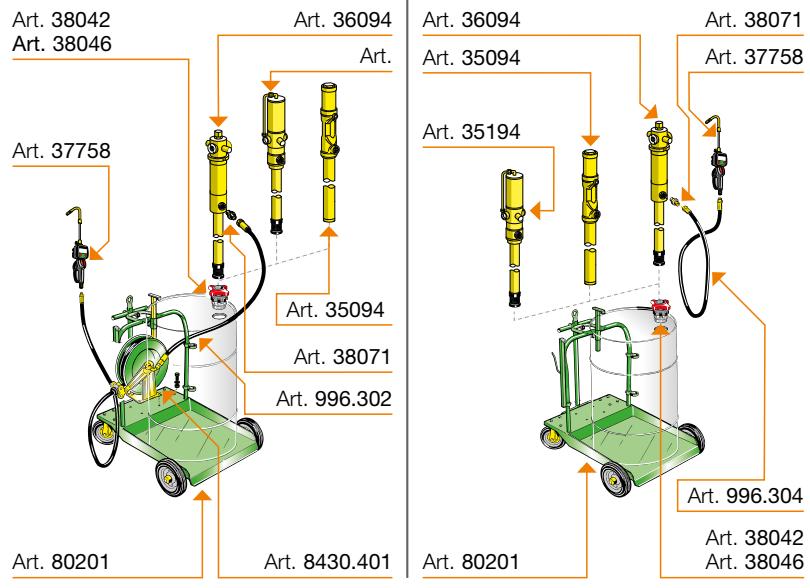
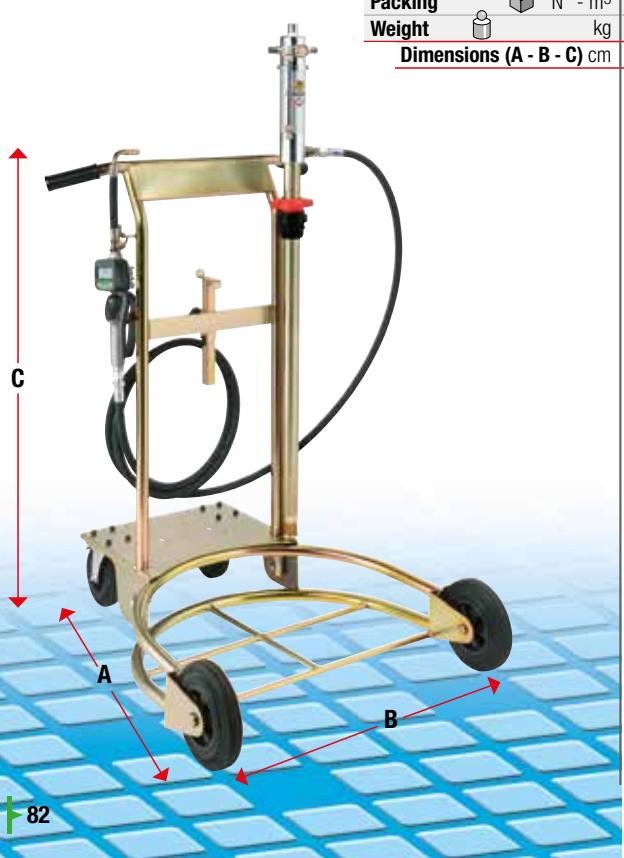
## Mobile oil dispenser unit.

The ideal combination for dispensing oil in any workplace. The very easy to handle trolley is equipped with a drum (180 - 220 kg) clamping device, adjustable side support for stowing accessories, wheel with brake.

The unit comes with a handy hose reel with 10 m of hose, and digital hose end meter.



Article	35201	35200	37100	35209	35210	37150
<b>Ratio</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>
<b>Flow rate</b> l/min	<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>
Pump	Art. 35094	35194	36094	35094	35194	36094
Trolley	Art. 80201	80201	80201	80201	80201	80201
Hose reel	Art. 8430.401	8430.401	8430.401	-	-	-
Bung adaptor	Art. 38046	38042	38042	38046	38042	38042
Nipple	Art. 38071	38071	38071	38071	38071	38071
Digital metering gun	Art. 37758	37758	37758	37758	37758	37758
Hose	Art. 996.302	996.302	996.302	996.304	996.304	996.304
Packing	4 - 0,210	4 - 0,210	4 - 0,210	3 - 0,176	3 - 0,176	3 - 0,176
Weight	kg	74	76	76	55	57
Dimensions (A - B - C) cm	93 - 81 - 143	93 - 81 - 138,5	93 - 81 - 144,5	93 - 81 - 143	93 - 81 - 138,5	93 - 81 - 144,5



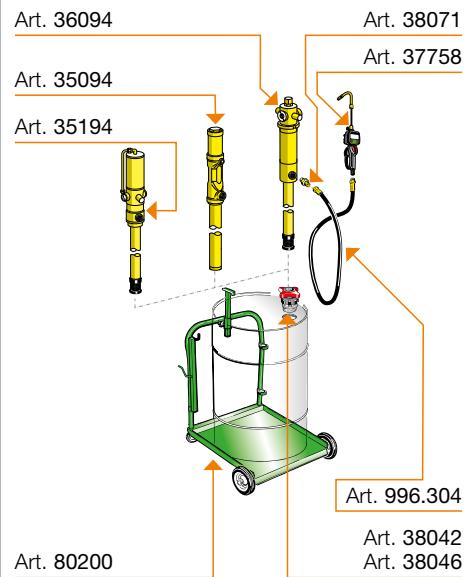
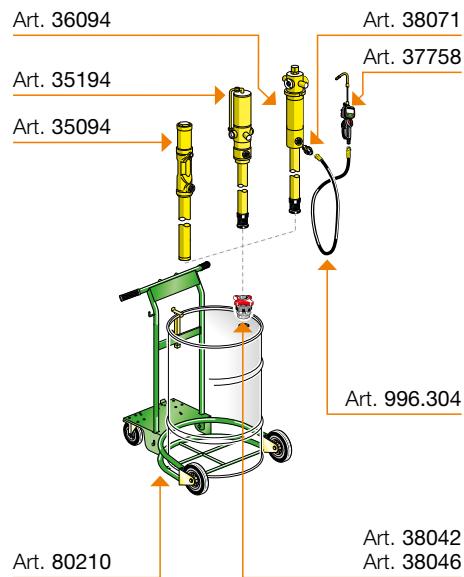
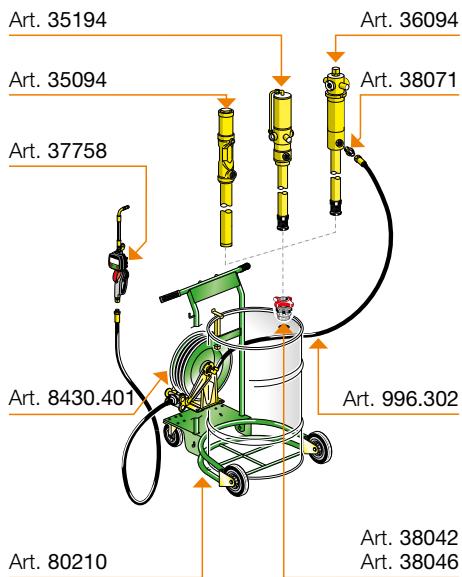
**trolley standard**  
for drums 180-220 kg

**trolley light**  
for drums 180-220 kg



35198	35199	37099
<b>3:1</b>	<b>3:1</b>	<b>5:1</b>
<b>20</b>	<b>14</b>	<b>18</b>
35094	35194	36094
80210	80210	80210
8430.401	8430.401	8430.401
38046	38042	38042
38071	38071	38071
37758	37758	37758
996.302	996.302	996.302
4 - 0,28	4 - 0,28	4 - 0,28
54,6	56,1	56,2
90-77-133	90 - 77 - 128,5	90-77-134,5

35415	35425	37095	35219	35220	37200
<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>
<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>
35094	35194	36094	35094	35194	36094
80210	80210	80210	80200	80200	80200
-	-	-	-	-	-
38046	38042	38042	38046	38042	38042
38071	38071	38071	38071	38071	38071
37758	37758	37758	37758	37758	37758
996.304	996.304	996.304	996.304	996.304	996.304
3 - 0,246	3 - 0,246	3 - 0,246	3 - 0,121	3 - 0,121	3 - 0,121
35,8	37,3	37,4	33,3	33,3	34,1
90-77-133	90 - 77 - 128,5	90-77-134,5	67-77-138,5	67-77-132,5	67-77-139,5



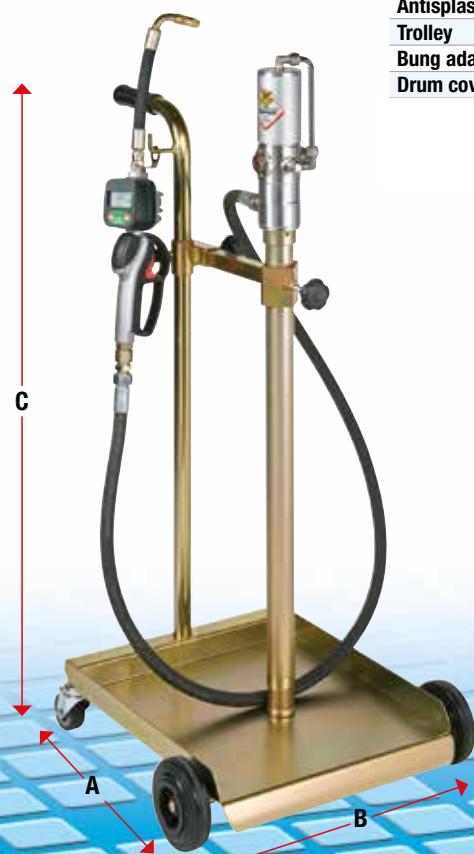


# Oil DISPENSER kit

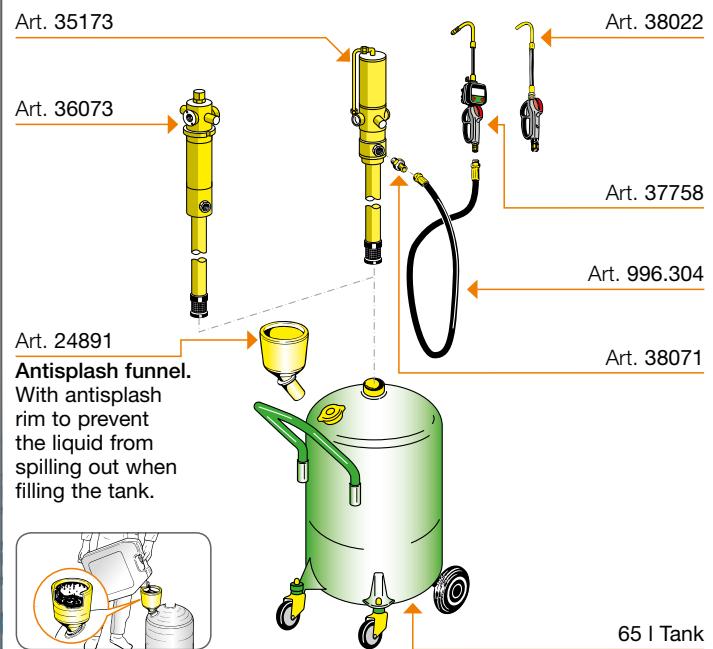
with 65 l tank

## Trolley-mounted oil dispenser kit.

The ideal combination for dispensing oil in any workplace. The compact trolley has 2 fixed wheels and 2 castors that make it very easy to handle. It is equipped with a pump support and is suitable for holding various types of containers (30 - 50 kg).



Article	35265	37650	35270	37670
<b>Ratio</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>5:1</b>
<b>Flow rate</b> l/min	<b>14</b>	<b>18</b>	<b>14</b>	<b>18</b>
Pump	Art. 35173	36073	35173	36073
Nipple	Art. 38071	38071	38071	38071
Digital metering gun	Art. 37758	37758	38022	38022
Hose	Art. 996.304	996.304	996.304	996.304
Antisplash funnel	Art. 24891	24891	24891	24891
Trolley	Art. -	-	-	-
Bung adaptor	Art. -	-	-	-
Drum cover	Art. -	-	-	-
Packing N° - m³	3 - 0,230	3 - 0,230	3 - 0,230	3 - 0,230
Weight kg	33	34	30,9	31,3
Dimensions (A - B - C) cm	60 - 60 - 145,5	60 - 60 - 145,5	60 - 60 - 145,5	60 - 60 - 145,5



trolley for drums 30 - 60 kg

kit for drums 30 - 60 kg



35260	35250	37500	35249	35259	37499	35264	35254	37504
3:1 20	3:1 14	5:1 18	3:1 20	3:1 14	5:1 18	3:1 20	3:1 14	5:1 18
35076	35173	36073	35076	35173	36073	35076	35173	36073
38071	38071	38071	38071	38071	38071	38071	38071	38071
37758	37758	37758	37758	37758	37758	37758	37758	37758
996.304	996.304	996.304	996.304	996.304	996.304	996.304	996.304	996.304
-	-	-	-	-	-	-	-	-
80050	80050	80050	-	-	-	-	-	-
-	-	-	38046	38042	38042	38046	38042	38042
-	-	-	-	-	-	65138	65138	65138
3 - 0,085 20	3 - 0,085 20	3 - 0,085 20,5	2 - 0,044 14,7	2 - 0,041 17,1	2 - 0,041 17,3	3 - 0,087 19,2	3 - 0,084 21,6	3 - 0,084 21,8
46 - 50 - 145,5	46 - 50 - 145,5	46 - 50 - 145,5	3,2 - 3,2 - 107,2	4,2 - 4,2 - 102,5	4,2 - 4,2 - 108,5	40 - 40 - 107,2	40 - 40 - 102,5	40 - 40 - 108,5

Art. 38071

Art. 35173

Art. 35076

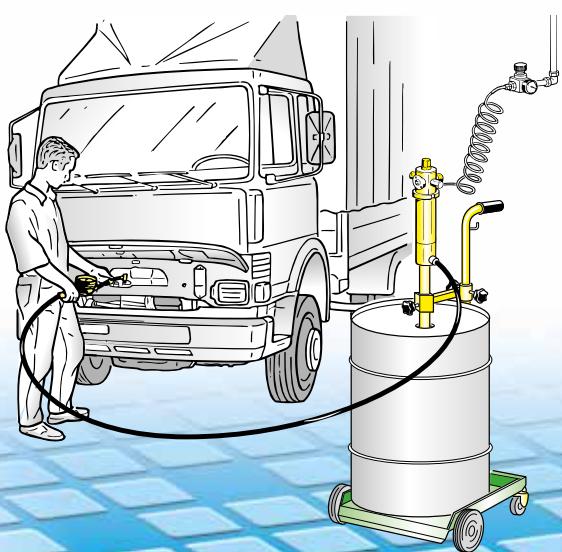
Art. 36073

Art. 37758

Art. 996.304

Art. 65138

Art. 80050



Art. 38042

Art. 38046

Engine oil filling up



# Modular oil dispensing kit with hose reel

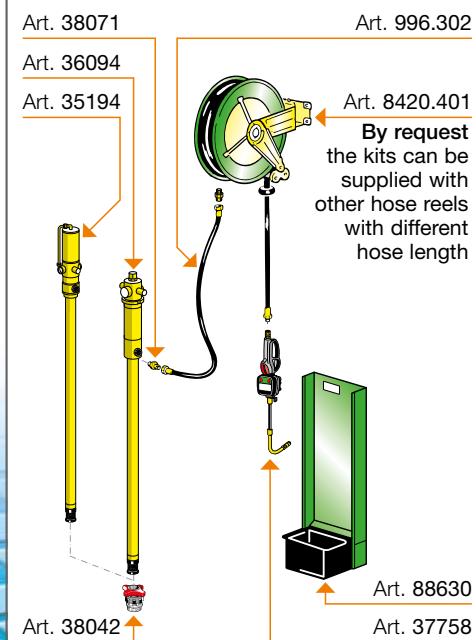
**Oil dispensing system with pump applied on a drum or tank, equipped with open or enclosed swivelling hose reel series 420/440 and with digital metering gun.** The kits are independent oil delivery station.

pump mounted on drum



Article	35275	37675
<b>Ratio</b>	<b>3:1</b>	<b>5:1</b>
<b>Flow rate</b>	<b>14</b>	<b>18</b>
Pump	Art. 35194	36094
Hose reel	Art. 8420.401	8420.401
Bung adaptor	Art. 38042	38042
Wall bracket	Art. -	-
Nipple	Art. 38071	38071
Digital metering gun	Art. 37758	37758
Flexible suction tube	Art. -	-
Rigid suction tube	Art. -	-
Drip-tray	Art. 88630	88630
Packing	N° - m <sup>3</sup>	4 - 0,128
Weight	kg	30,1
Dimensions (A - B - C) cm		94 - 90 - 220

**Art. 88630**  
**Modular drip-tray.**  
Equipped with hook for gun and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery gun. Essential for a clean and orderly workplace.



**pump mounted  
on drum**

**wall mounted  
pump**



**35276**

**3:1**

**14**

35194

8440.401

38042

-

38071

37758

-

-

88630

4 - 0,130

37,1

94 - 90 - 220

**37676**

**5:1**

**18**

36094

8440.401

38042

-

38071

37758

-

-

88630

4 - 0,130

38,1

94 - 90 - 220

**35280**

**3:1**

**14**

35160

8420.401

38042

38043

38071

37758

38026

38027

88630

4 - 0,130

38,5

170 - 90 - 220

**37680**

**5:1**

**18**

36060

8420.401

38042

38043

38071

37758

38026

38027

88630

4 - 0,130

39,5

170 - 90 - 220

**35281**

**3:1**

**14**

35160

8440.401

38042

38043

38071

37758

38026

38027

88630

4 - 0,135

45

170 - 90 - 220

**37679**

**5:1**

**18**

36060

8440.401

38042

38043

38071

37758

38026

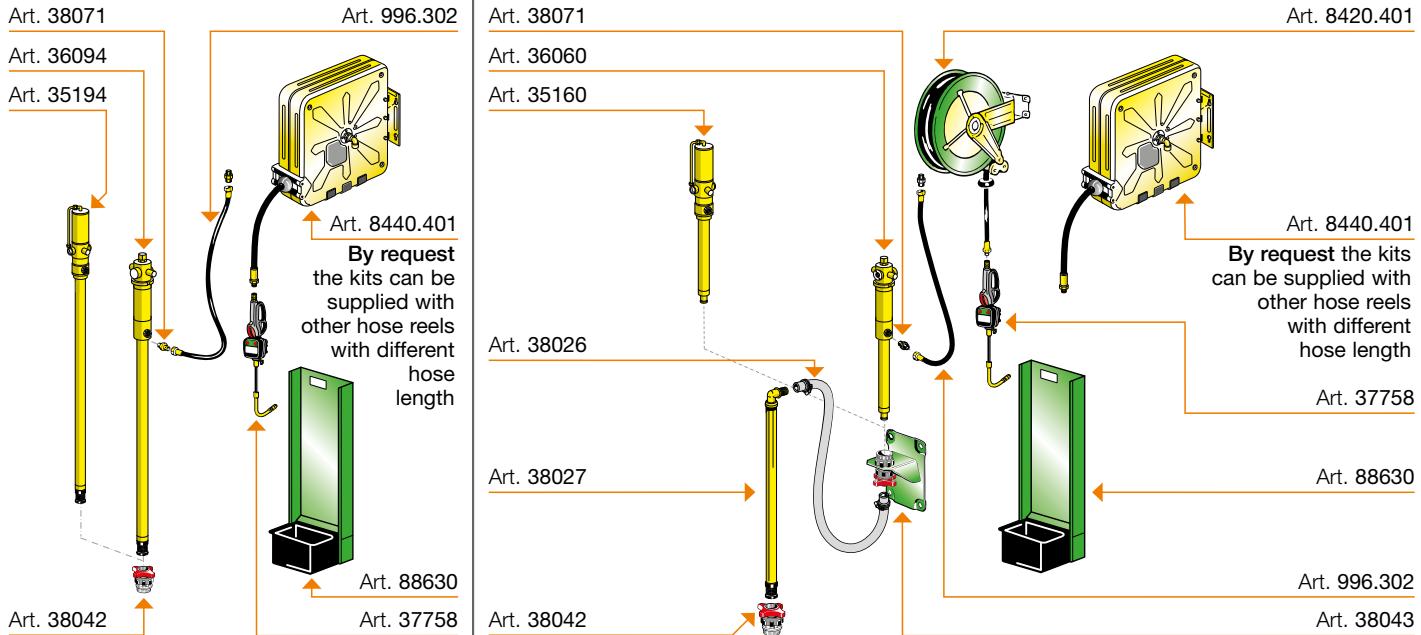
38027

88630

4 - 0,135

45

170 - 90 - 220





# Kit for DISPENSING from tank

**Oil dispensing kit from IBC tank,  
equipped with wall mounted pump or  
tank mounted pump.**

Kits with wall mounted pump can be connected with centralized lube piping or with an hose reel or a delivery hose.

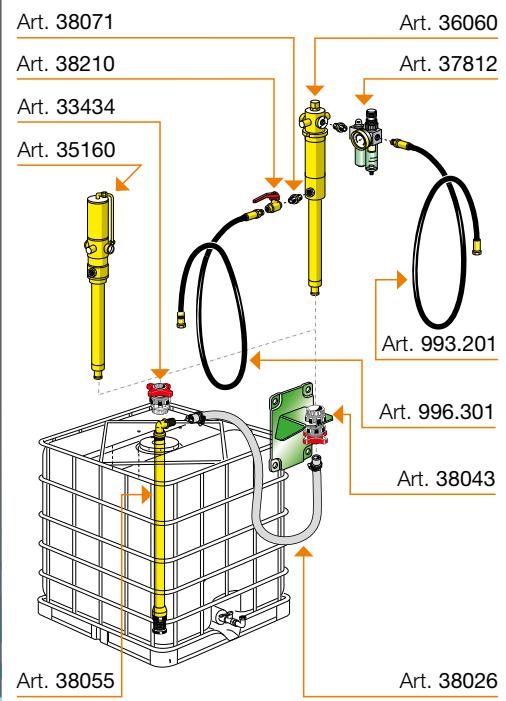
They are equipped with the accessories for air and oil connections.

Kits with tank mounted pump are provided with hose reel and digital metering gun.



Note: the tank is not part of the kit

Article	35330	36330
<b>Ratio</b>	<b>3:1</b>	<b>5:1</b>
<b>Flow rate</b> l/min	<b>14</b>	<b>18</b>
Pump Art.	35160	36060
Pump support bracket Art.	38043	38043
Support bracket drip-tray Art.	-	-
Bung adaptor Art.	33434	33434
Flexible suction tube Art.	38026	38026
Rigid suction tube Art.	38055	38055
Air hose connection Art.	993.201	993.201
Oil hose connection Art.	996.301	996.301
Cock Art.	38210	38210
Nipple Art.	38071	38071
Air regulator Art.	37812	37812
Hose reel Art.	-	-
Digital metering gun Art.	-	-
Drip-tray Art.	-	-
Packing N° - m <sup>3</sup>	2 - 0,040	2 - 0,040
Weight kg	15	15
Support width (A) cm	-	-

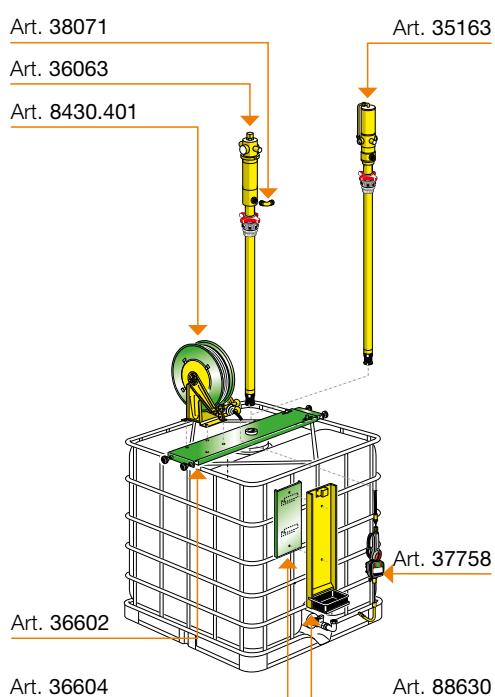
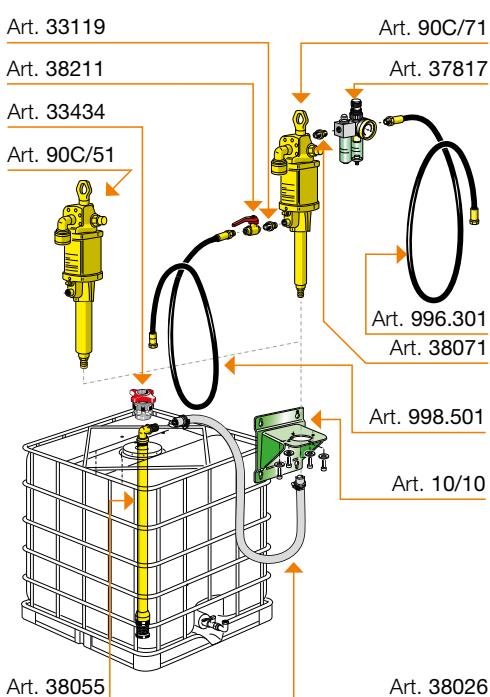
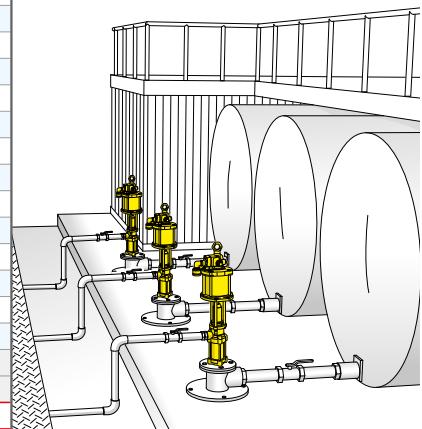
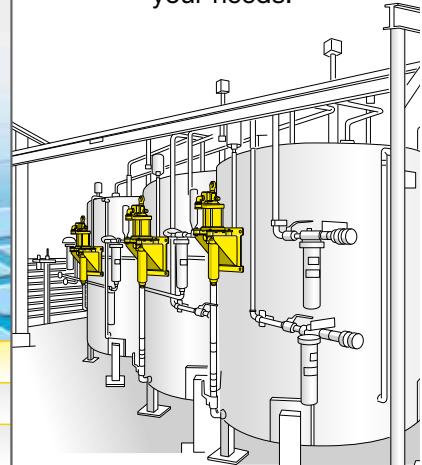


The possible solutions for equipping kits for tanks are many, due to the various shapes and sizes of the tanks (cube, rectangular, cylindrical) and the way in which the pump can be mounted (with suction tube dipped, connected to a cock on the bottom, etc.).

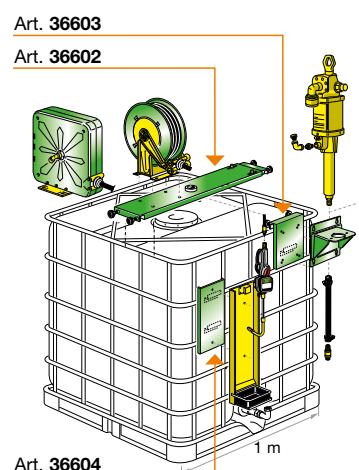
Therefore we recommend choosing the necessary components from among those indicated below, in order to make up the kit best suited to your needs.



36340	36350	36610	36620
<b>5:1</b>	<b>7:1</b>	<b>3:1</b>	<b>5:1</b>
<b>45</b>	<b>30</b>	<b>14</b>	<b>18</b>
90C/51	90C/71	35163	36063
10/10	10/10	36602	36602
-	-	36604	36604
33434	33434	-	-
38026	38026	-	-
38055	38055	-	-
996.301	996.301	-	-
998.501	998.501	-	-
38211	38211	-	-
33119	33119	38071	38071
37817	37817	-	-
-	-	8430.401	8430.401
-	-	37758	37758
-	-	88630	88630
2 - 0,120	2 - 0,120	4 - 0,250	4 - 0,250
23	22	48	49
-	-	100	100



#### Pump and hose reel supports available for customizable kit.





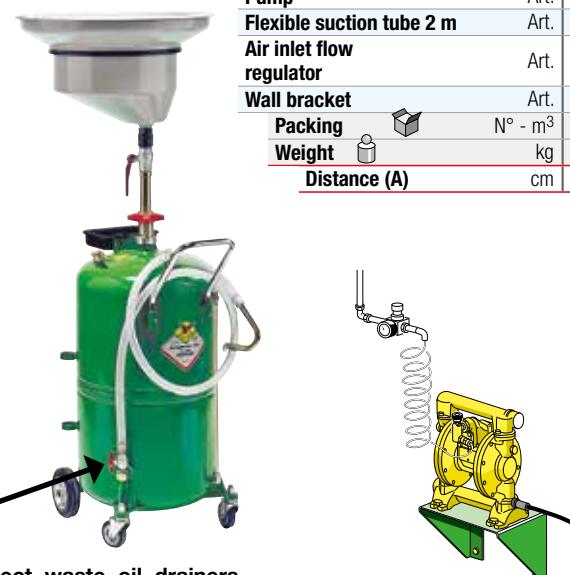
# Modular kit for TRANSFER or EMPTYING

## oil, waste oil and similar

**Wall-mounted transfer kit.** A practical solution for draining movable equipment, waste oil suction/drainers by means of connection with quick-coupling valve. Wall application enables connection to a fixed system for discharging the sucked liquid directly into the storage tank.



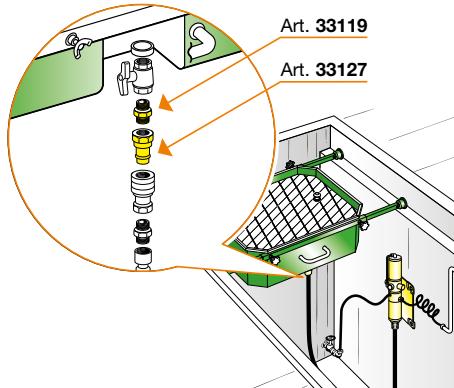
Article with seals in	Viton®	33125
Article with seals in	NBR	33550
Ratio	1:1	1:1
Flow rate	l/min	70      23
Pump	Art.	33/2011NHHV2
Flexible suction tube 2 m	Art.	38026
Air inlet flow regulator	Art.	37803
Wall bracket	Art.	33590
Packing	N° - m³	1 - 0,030
Weight	kg	14      8,4
Distance (A)	cm	150



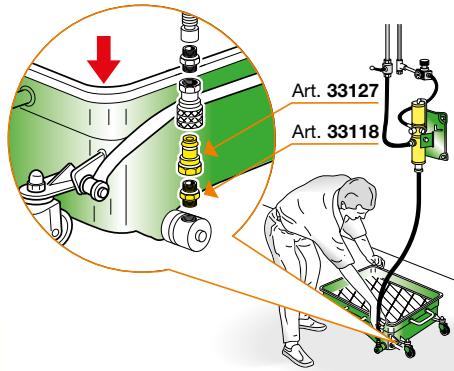
To connect waste oil drainers with above mentioned emptying kit it is necessary to mount a male quick coupler. Depending on the kind of waste oil drainers (standard, for pit or floor mounted) a different nipple must be used as shown in the examples (Pic. 1 - 2 - 3).



### 1 Pit waste oil drainer



### 2 Floor waste oil drainer



### 3 Standard waste oil drainer



# Modular TRANSFER kit

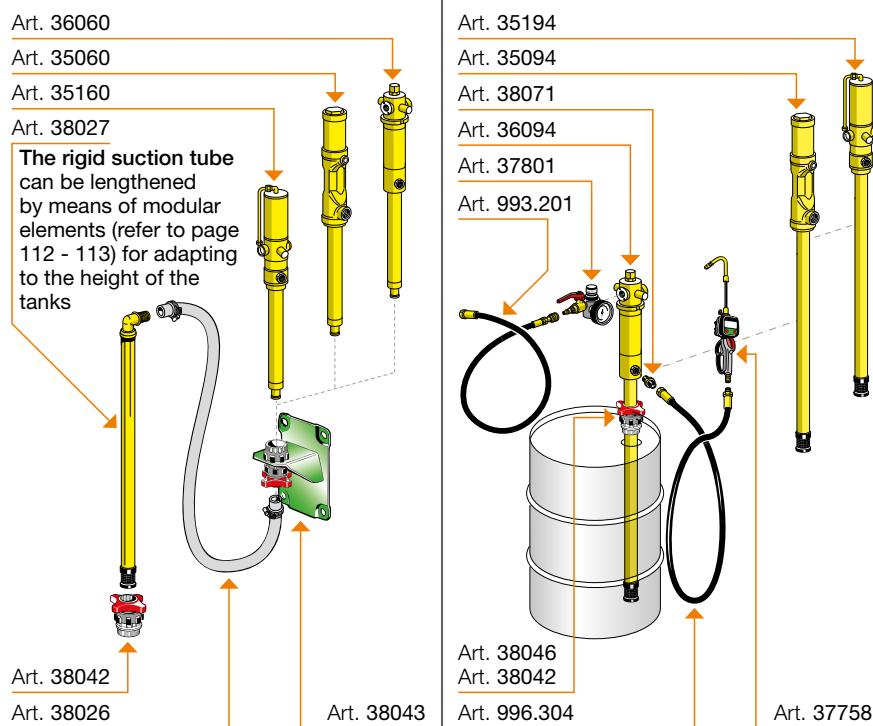
transfer kit

## Oil dispensing system with wall mounted or drum mounted pump.

Kits with wall mounted pump can be connected with centralized lube piping or with an hose reel or a delivery hose. Kits with tank mounted pump are provided with hose reel and digital metering gun. The rigid suction tube can be lengthened by means of modular elements (refer to page 112 - 113) for adapting to the height of the tanks.



<b>Article with seals in</b>	<b>Viton®</b>	35284			35290		
<b>Article with seals in</b>	<b>NBR</b>		35285	37685		35293	35296
<b>Ratio</b>		<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>
<b>Flow rate</b>	l/min	<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>
Pump	Art.	35060	35160	36060	35094	35194	36094
Delivery hose	Art.	-	-	-	996.304	996.304	996.304
Connection hose	Art.	-	-	-	993.201	993.201	993.201
Flexible suction tube	Art.	38026	38026	38026	-	-	-
Rigid suction tube	Art.	38027	38027	38027	-	-	-
Nipple	Art.	-	-	-	38071	38071	38071
Pressure regulator	Art.	-	-	-	37801	37801	37801
Digital metering gun	Art.	-	-	-	37758	37758	37758
Bung adaptor	Art.	38042	38042	38042	38046	38042	38042
Wall bracket	Art.	38047	38043	38043	-	-	-
Packing	N° - m³	1 - 0,029	1 - 0,029	1 - 0,029	2 - 0,070	2 - 0,085	2 - 0,085
Weight	kg	11,4	11,4	11,9	14	13,5	13,5
Distance (A)	cm	150	150	150	-	-	-

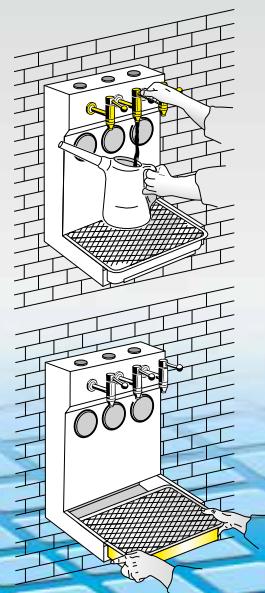




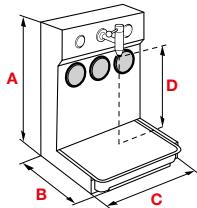
# Oil BAR

wall-mounted

**Oil bar** ideal for dispensing engine oil, gear oil, antifreeze and similar liquids. It offers the availability of up to 3 different types of oil. Quick and easy drawing of oil with possibility of controlling the quantity by means of the digital litre-counter available on request. Tap with double **valve** and **antisplash filter** to guarantee delivery while preventing sprays caused by possible air bubbles in the system. Closing is automatic when the lever is released. Equipped with an easy to clean, removable drip-catcher tray and sturdy support grid.



Article	37690	37689	37688	37691	37687	37686
Tap for oil bar	Art. 37692 x 1	37692 x 2	37692 x 3	37692 x 1	37692 x 2	37692 x 3
Digital litre-counter kit	Art. -	-	-	37830 x 1	37830 x 2	37830 x 3
Packing	N° - m <sup>3</sup>	1 - 0,136	1 - 0,136	1 - 0,136	1 - 0,136	1 - 0,136
Weight	kg	23,8	25	26,2	25	26,5
Dimensions (A-B-C-D)cm		67-43-56-46	67-43-56-46	67-43-56-46	67-43-56-46	67-43-56-46



Note: a max of 3 taps and 3 digital litre-counter kits can be fitted on the oil bar

## Kit feeding pump

### Art. 37695

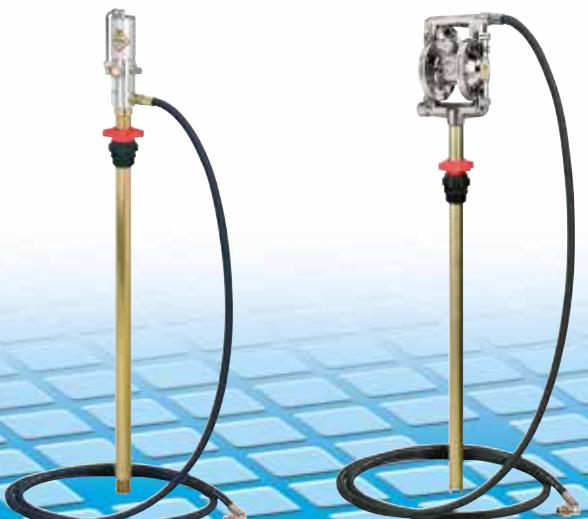
Kit with drum pump for feeding oil bar, equipped with:

- Art. 35194 pump **R 3:1 - 14 l/min**
- Art. 38042 bung adaptor
- Art. 996.304 hose 1/2" 4m
- elbow M 1/2" x M 1/2"
- nipple M 1/2" x F 1/2"

### Art. 33501

Kit with drum pump for feeding oil bar, equipped with:

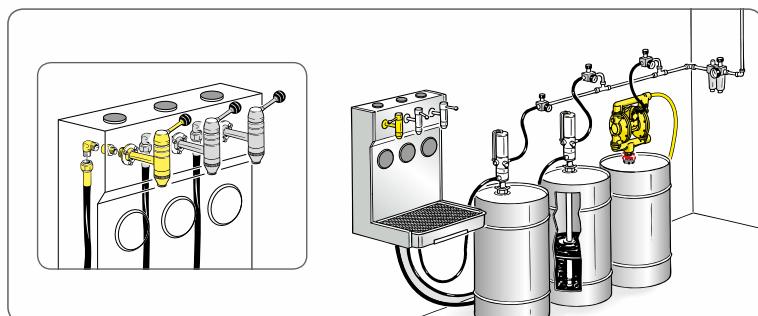
- Art. 33500 diaphragm pump **R 1:1 - 70 l/min**
- Art. 33434 bung adaptor
- Art. 996.304 tube 1/2" 4m
- Art. 33118 nipple M 3/4" x M 1/2"
- elbow F 1/2" x M 1/2"
- nipple M 1/2" x F 1/2"



## Example of installation

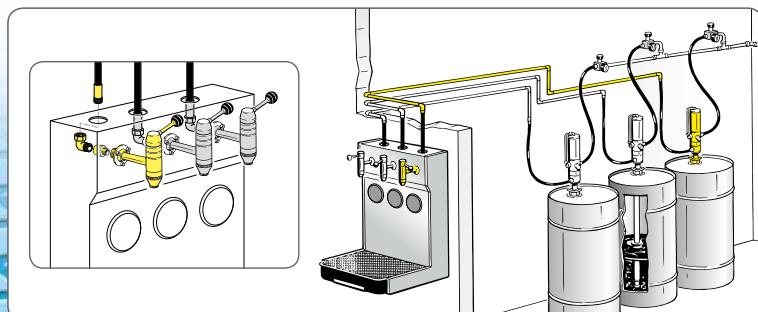
### Example of installation with hose.

Example of installation of an oil bar with three service taps connected by hoses to the feeder pumps. This type of connection is only recommended for short distances. After the air is connected to the pump, by operating the tap handle, it will always be ready to use.



### Example of installation to fixed system.

Example of installation to a fixed system with the oil bar connected to a centralized system by means of a 1 m hose.



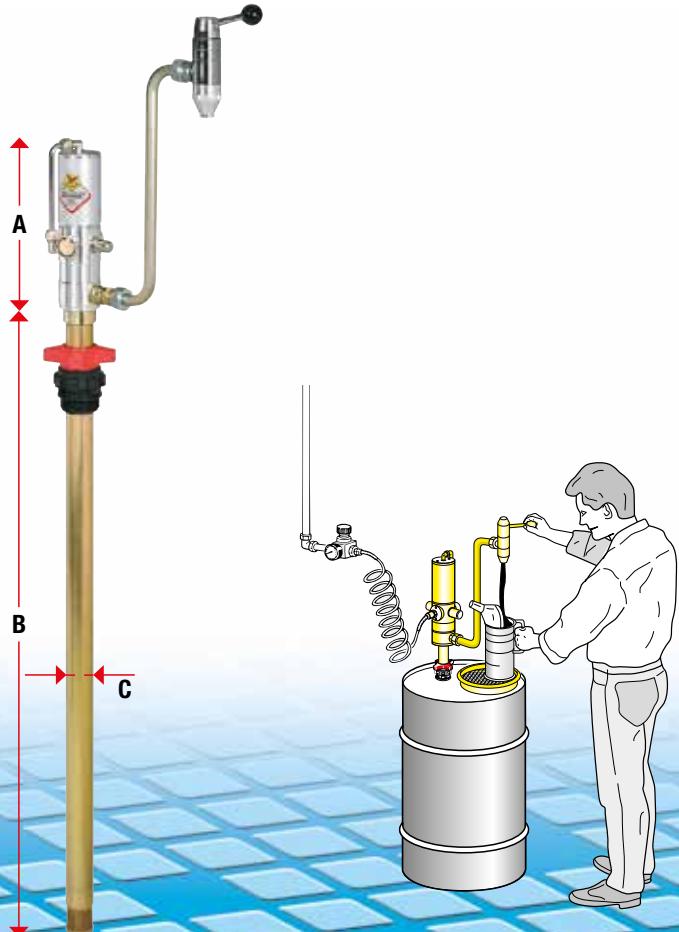


## Drum oil BAR

**Drum oil bar.**  
**Ideal for dispensing oil and antifreeze liquid.**  
 The delivery tap is connected directly to the feed pump. Very compact, it enables quick filling of jugs or other small containers.



Article	37697	37698
<b>Ratio</b>	<b>3:1</b>	<b>3:1</b>
<b>Flow rate</b> l/min	<b>14</b>	<b>14</b>
Pump Art.	35194	35194
Tap for oil bar Art.	37683	37683
Drip-catcher tray Art.	37699	-
Bung adaptor Art.	38042	38042
Packing N° - m <sup>3</sup>	2 - 0,034	2 - 0,025
Weight kg	12	9,5
<b>Dimensions (A-B-C)</b> cm	<b>28,5 - 94 - 4,2</b>	<b>28,5 - 94 - 4,2</b>



## Oil BAR ACCESSORIES



**Art. 37692**  
**Double valve tap with antisplash filter for oil bar inlet connection F 1/2" + M 3/4"**

**Note:** both articles guarantee maximum delivery while preventing sprays caused by possible air bubbles in the system. Closing is automatic upon releasing the lever



**Art. 37683**  
**Oil tap with pump connection,**  
 equipped with:  
 - Art. 37681 tap for oil bar  
 - Art. 37682 pump  
 - oil bar tap connection tube



**Art. 37699**  
**Drip-catcher tray**



**Art. 37693**  
**Kit for connecting oil bar to fixed system,**  
 equipped with:  
 - Art. 996.301 tube M 1/2" x F 1/2" - 1 m  
 - elbow M 1/2" x M 1/2"  
 - nipple M 1/2" x F 1/2"



**Art. 37830**  
**Digital litre-counter kit for oil bar,**  
 equipped with:  
 - Art. 37780 digital litre-counter  
 - connection unions  
 - connections M 1/2" x F 1/2"  
 - not type-approved for public use



**Art. 38102**  
**2-litre jug**

**Art. 38105**  
**5-litre jug**

\* articles not manufactured by us



# DIGITAL Meter

Flow rate 35 l/min

Flow rate 70 l/min

Flow rate 40 l/min

**RAASM's digital meters,** besides gauging the liquid delivered, can show instant flow rates, provide a reset total and allow the setting of different units of measurement.

RAASM's digital meters are suitable for a wide variety of fluids, from low to medium to high viscosities, including lubricants, diesel fuel, antifreeze, window wash liquid and other fluids compatible with the material of the meter.



Not type-approved for public use

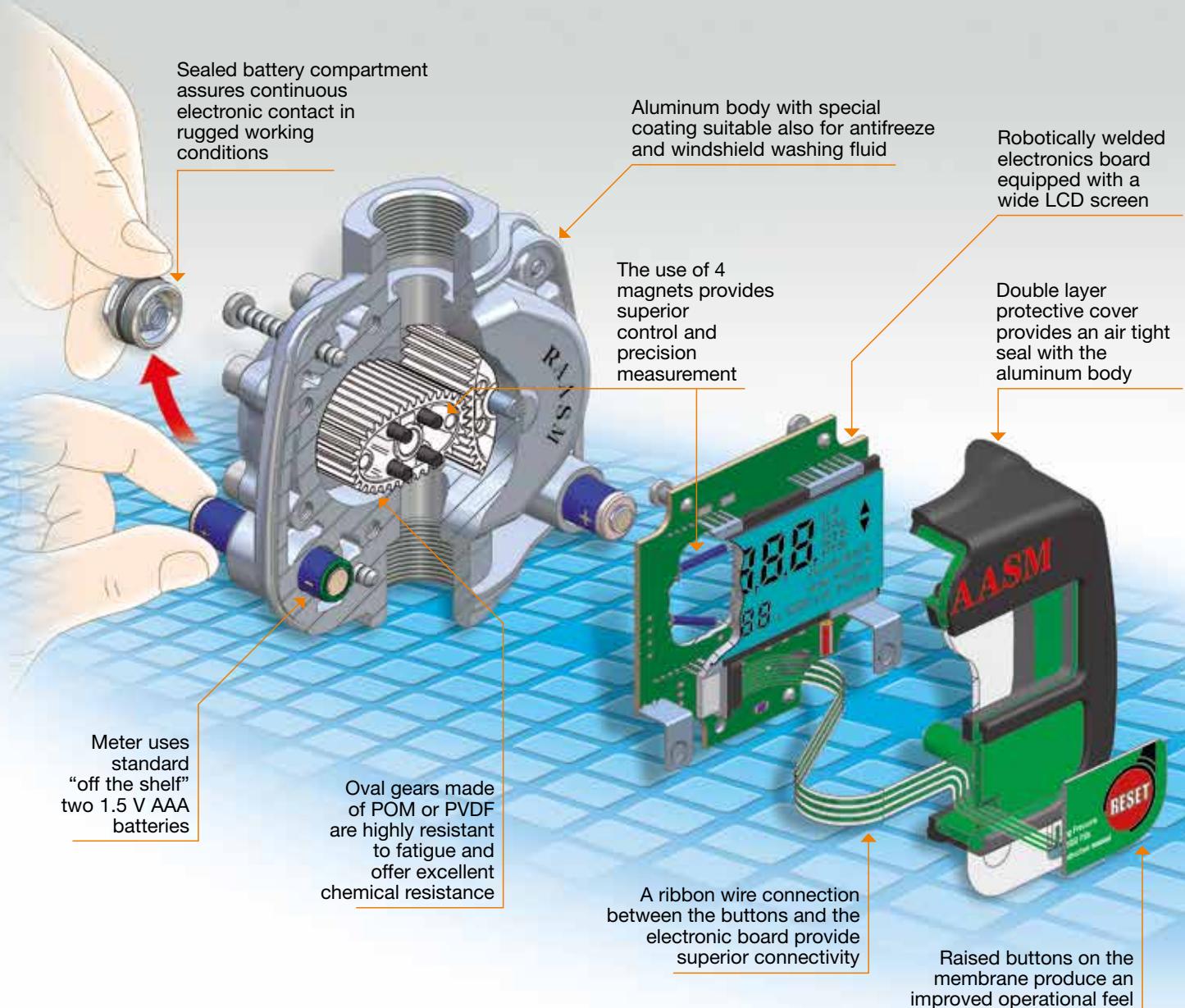
	oil and similar products	oil and similar products	antifreeze and windshield washing liquid
<b>Article</b>	<b>37780</b>	<b>37781</b>	<b>37785</b>
<b>Flow rate</b> l/min	<b>35</b>	<b>70</b>	<b>40</b>
<b>Compatible fluids</b>	Oil and similar products	Oil and similar products	Antifreeze and windshield washing liquid
<b>Body's material</b>	Aluminum	Aluminum	Aluminum with special surface treatment
<b>Gear's material</b>	POM	POM	PVDF
<b>Inlet</b>	F 1/2" BSP	F 3/4" BSP	F 1/2" BSP
<b>Outlet</b>	F 1/2" BSP	F 3/4" BSP	F 1/2" BSP
<b>Max operating pressure</b> bar	70	70	70
<b>Burst pressure</b> bar	± 200	± 200	± 200
<b>Accuracy</b>	± 0,3 %	± 0,5 %	± 0,5 %
<b>Net weight</b> kg	0,485	0,790	0,485
<b>Packing</b> N° - m <sup>3</sup>	1 - 0,0015	1 - 0,0018	1 - 0,0015
<b>Gross weight</b> kg	0,85	1	0,85
<b>Dimensions (A - B - C)</b> mm	94 - 90 - 55	94 - 92 - 77	94 - 90 - 55



**Diesel fuel version available. See specific documentation**



# TECHNICAL Characteristics



## ► PERFORMANCE

- Precision  $\pm 0,3 \%$
- Repeatability 0,2 %
- Pressure loss  $< 0,5$  bar at max. flow rate

**Series 1/2" 30 TP**



**Series 1/2" 40 AL**



**Series 1/2" 40 AP**



Series	1/2" 30 TP	1/2" 40 AL	1/2" 40 AP	1/2" 65 AP	3/4" 70 AP	3/4" 85 AP
Flow rate	l/min	<b>30</b>	<b>40</b>	<b>40</b>	<b>65</b>	<b>70</b>
Max pressure	bar	60	70	70	100	100
Inlet union		F 1/2" G	F 1/2" G	F 1/2" G	F 3/4" G	F 3/4" G
Seals		NBR	Viton®	Viton®	Viton®	Viton®

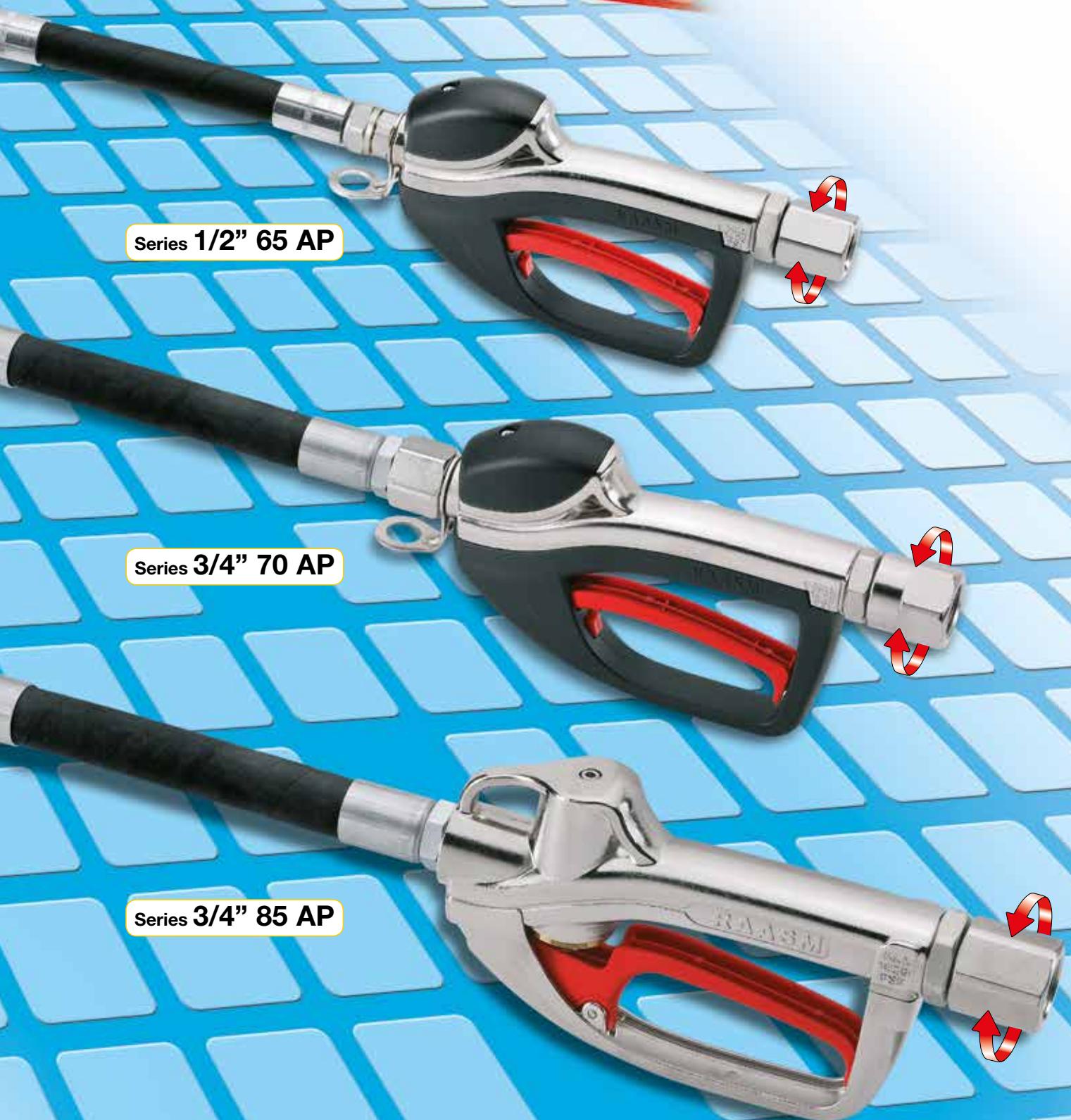


## Gun for oil and similar

Series 1/2" 65 AP

Series 3/4" 70 AP

Series 3/4" 85 AP





## GUN for oil and similar Series 1/2" - 30TP

Art. 38023

**Grip in technopolymer for oil gun**

equipped with F 1/2" inlet swivel joint, filter, F 3/8" outlet



Art. 33120

**Oil gun equipped with**

F 1/2" inlet swivel joint, filter, high flow rate rigid terminal

Art. 37730

**Oil gun with digital litre-counter**

Art. 37780 equipped with

F 1/2" inlet swivel joint, filter, high flow rate rigid terminal

- not type-approved for public use



Art. 38024

**Oil gun equipped with**

F 1/2" inlet swivel joint, filter, rigid terminal  
and semiautomatic drip-catcher nozzle ø 16 mm

Art. 37729

**Oil gun with digital litre-counter**

Art. 37780 equipped with

F 1/2" inlet swivel joint, filter, rigid terminal  
and semiautomatic drip-catcher nozzle ø 16 mm

- not type-approved for public use



Art. 38025

**Oil gun equipped with**

F 1/2" inlet swivel joint, filter, flexible terminal  
and semiautomatic drip-catcher nozzle ø 16 mm



Art. 37728

**Oil gun with digital litre-counter**

Art. 37780 equipped with

F 1/2" inlet swivel joint, filter, flexible terminal  
and semiautomatic drip-catcher nozzle ø 16 mm

- not type-approved for public use





# GUN for oil and similar Series 1/2" - 40AL - 40AP

Art. 38020

**Grip in aluminum for oil gun**  
equipped with  
**F 1/2"** inlet swivel joint, filter, **F 3/8"** outlet



Art. 37740

**Grip in aluminum for oil gun**  
equipped with  
**F 1/2"** inlet swivel joint, filter, **F 3/8"** outlet,  
**lever locking button**



Art. 33121

**Oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, high flow rate rigid terminal

Art. 37743

**Oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, high flow rate rigid terminal,  
**lever locking button**

Art. 37760

**Oil gun with digital litre-counter**

Art. 37780 equipped with **F 1/2"** inlet swivel joint, filter, high flow rate rigid terminal  
- not type-approved for public use



Art. 38021

**Oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, rigid terminal  
and semiautomatic drip-catcher nozzle ø 16 mm

Art. 37742

**Oil gun** equipped with **F 1/2"** inlet swivel joint,  
filter, rigid terminal, semiautomatic drip-catcher  
nozzle ø 16 mm and **lever locking button**

Art. 37759

**Oil gun with digital litre-counter** Art. 37780 equipped with **F 1/2"**  
inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle ø 16 mm  
- not type-approved for public use



Art. 38022

**Oil gun** equipped with  
**1/2" F** inlet swivel joint, filter, flexible terminal  
and semiautomatic drip-catcher nozzle ø 16 mm

Art. 37741

**Oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, flexible terminal,  
semiautomatic drip-catcher nozzle ø 16 mm and **lever locking button**



Art. 37758

**Oil gun with digital litre-counter**  
Art. 37780 equipped with  
**F 1/2"** inlet swivel joint, filter, flexible  
terminal and semiautomatic drip-catcher nozzle ø 16 mm  
- not type-approved for public use

Art. 37786

**Oil gun with digital litre-counter**  
Art. 37780 equipped with **F 1/2"** inlet swivel joint, filter,  
flexible terminal, semiautomatic drip-catcher nozzle ø 16 mm  
and **lever locking button**  
- not type-approved for public use





## GUN for oil and similar Series 1/2" - 65AP

Art. 37750

**Grip in aluminum for oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, **F 1/2"** outlet  
and lever locking button



Art. 33140

**High flow rate oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, high flow rate rigid terminal  
and lever locking button



Art. 37796

**High flow rate oil gun with digital litre-counter** Art. 37780 equipped with  
**F 1/2"** inlet swivel joint, filter, high flow rate rigid terminal  
and lever locking button  
- not type-approved for public use

Art. 37752

**Oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, rigid terminal,  
semiautomatic drip-catcher nozzle ø 21 mm  
and lever locking button



Art. 37795

**Oil gun with digital litre-counter**  
Art. 37780 equipped with **F 1/2"** inlet swivel joint, filter,  
rigid terminal, semiautomatic drip-catcher nozzle ø 21 mm  
and lever locking button  
- not type-approved for public use

Art. 37751

**Oil gun** equipped with  
**F 1/2"** inlet swivel joint, filter, flexible terminal,  
semiautomatic drip-catcher nozzle ø 21 mm  
and lever locking button



Art. 37794

**Oil gun with digital litre-counter**  
Art. 37780 equipped with  
**F 1/2"** inlet swivel joint, filter, flexible terminal,  
semiautomatic drip-catcher nozzle ø 21 mm  
and **lever locking button**,  
max pressure: 70 bar  
- not type-approved for public use





## GUN for oil and similar Series 3/4" - 70AP

Art. 37775

**High delivery oil grip in aluminum** equipped with F 3/4" inlet swivel joint, filter, F 1/2" outlet and **lever locking button**



Art. 37778

**High flow rate oil gun** equipped with F 3/4" inlet swivel joint, filter, high flow rate rigid terminal and lever locking button



Art. 37799

**High flow rate oil gun with digital litre-counter** Art. 37781 equipped with F 3/4" inlet swivel joint, filter, high flow rate rigid terminal and **lever locking button**  
- not type-approved for public use

Art. 37777

**High flow rate oil gun** equipped with F 3/4" inlet swivel joint, filter, rigid terminal 45°, semiautomatic drip-catcher nozzle ø 35 mm and **lever locking button**

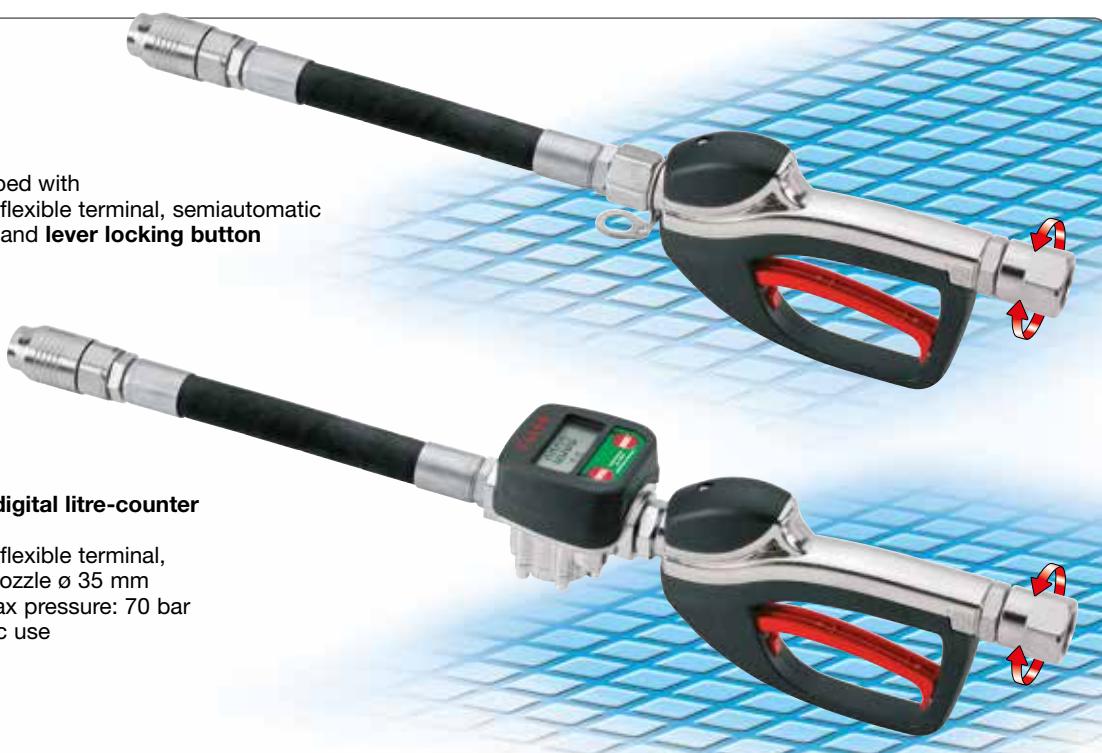


Art. 37798

**High flow rate oil gun with digital litre-counter** Art. 37781 equipped with F 3/4" inlet swivel joint, filter, rigid terminal 45°, semiautomatic drip-catcher nozzle ø 35 mm and **lever locking button**  
- not type-approved for public use

Art. 37776

**High flow rate oil gun** equipped with F 3/4" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 35 mm and **lever locking button**



Art. 37797

**High flow rate oil gun with digital litre-counter**  
Art. 37781 equipped with F 3/4" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 35 mm and **lever locking button**, max pressure: 70 bar  
- not type-approved for public use



## GUN for oil and similar Series 3/4" - 85AP

Art. 33150

**High delivery oil grip in aluminum** equipped with F 3/4" inlet swivel joint, filter, F 3/4" outlet and **lever locking button**



Art. 33153

**High delivery oil gun**  
equipped with F 3/4" inlet swivel joint, filter, **lever locking button**, rigid terminal with free outlet



Art. 33148

**High delivery oil gun with digital litre-counter** Art. 37781 equipped with F 3/4" inlet swivel joint, filter, **lever locking button**, rigid terminal with free outlet  
- not type-approved for public use

Art. 33152

**High delivery oil gun**  
equipped with F 3/4" inlet swivel joint, filter, **lever locking button**, rigid terminal and semiautomatic drip-catcher nozzle ø 35 mm

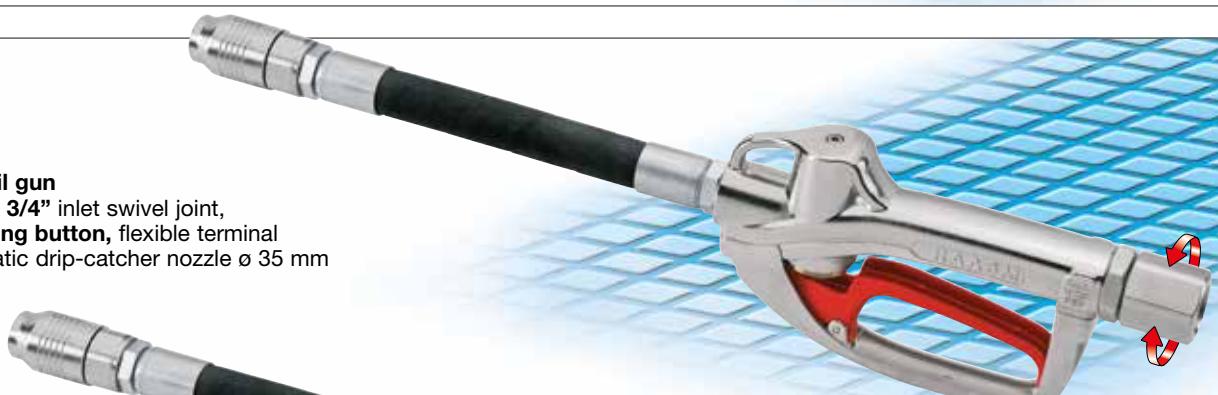


Art. 33147

**High delivery oil gun with digital litre-counter** Art. 37781  
equipped with F 3/4" inlet swivel joint, filter, **lever locking button**, rigid terminal and semiautomatic drip-catcher nozzle ø 35 mm  
- not type-approved for public use

Art. 33151

**High delivery oil gun**  
equipped with F 3/4" inlet swivel joint, filter, **lever locking button**, flexible terminal and semiautomatic drip-catcher nozzle ø 35 mm



Art. 33146

**High delivery oil gun with digital litre-counter** Art. 37781  
equipped with F 3/4" inlet swivel joint, filter, **lever locking button**, flexible terminal and semiautomatic drip-catcher nozzle ø 35 mm, max pressure 70 bar  
- not type-approved for public use





## GUN for windshield washing liquid and antifreeze

Art. 37785

Digital meter for windshield washing liquid and antifreeze, inlet and outlet F 1/2" BSP

- not type-approved for public use



### Antifreeze gun Series 1/2" - 40AL

Art. 33121

Oil gun equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal

Art. 37764

Antifreeze gun with digital

litre-counter Art. 37785 equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal

- not type-approved for public use

Art. 37762

Antifreeze gun with digital

litre-counter Art. 37785 equipped with F 1/2" inlet swivel joint, filter, flexible terminal and semiautomatic drip-catcher nozzle ø 16 mm

- not type-approved for public use

Art. 38022

Oil gun equipped with

1/2" F inlet swivel joint, filter, flexible terminal and semiautomatic drip-catcher nozzle ø 16 mm



### Windshield washing liquid gun Series 1/2" - 40AN

Art. 33445

Windshield washing liquid gun with oxyzidized aluminum grip

equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal



Art. 33446

Windshield washing liquid gun with oxyzidized aluminum grip

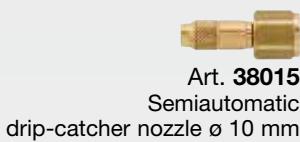
with digital litre-counter Art. 37785 equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal

- not type-approved for public use





## Gun for oil and similar S. 1/2" - 30TP - 40AL - 40AP



Art. 38015  
Semiautomatic  
drip-catcher nozzle ø 10 mm



Art. 38016  
Semiautomatic  
drip-catcher nozzle ø 16 mm



Art. 38017  
Semiautomatic  
drip-catcher nozzle ø 8 mm



Art. 38010  
Flexible terminal with  
semautomatic  
drip-catcher nozzle ø 16 mm



Art. 38011  
Rigid terminal with  
semautomatic  
drip-catcher nozzle ø 16 mm



Art. 38013  
Rigid terminal 45°  
with semiautomatic  
drip-catcher  
nozzle ø 16 mm



Art. 38012  
High delivery rigid  
terminal with free outlet ø 20 mm



Art. 38023  
Grip in technopolymer with  
inlet swivel joint F 1/2"



Art. 38020  
Grip in aluminum with  
inlet swivel joint F 1/2"



Art. 37740  
Grip in aluminum with  
F 1/2" inlet swivel joint and  
**lever locking button**



Art. 38018  
Curved semiautomatic  
drip-catcher ø 8 mm



Art. 38014  
Flexible terminal with  
semautomatic  
curved-drip-catcher  
nozzle ø 8 mm

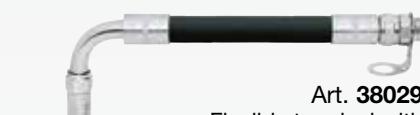
## Gun for oil and similar Series 1/2" - 65AP



Art. 38034  
Semiautomatic  
drip-catcher nozzle ø 21 mm



Art. 38035  
Semiautomatic  
drip-catcher nozzle ø 27 mm



Art. 38029  
Flexible terminal with  
semautomatic  
drip-catcher nozzle ø 21 mm



Art. 38030  
Rigid terminal with  
semautomatic  
drip-catcher nozzle ø 21 mm



Art. 38031  
Rigid terminal 45°  
with semiautomatic  
drip-catcher  
nozzle ø 21 mm



Art. 38032  
High delivery rigid  
terminal with free outlet ø 20 mm



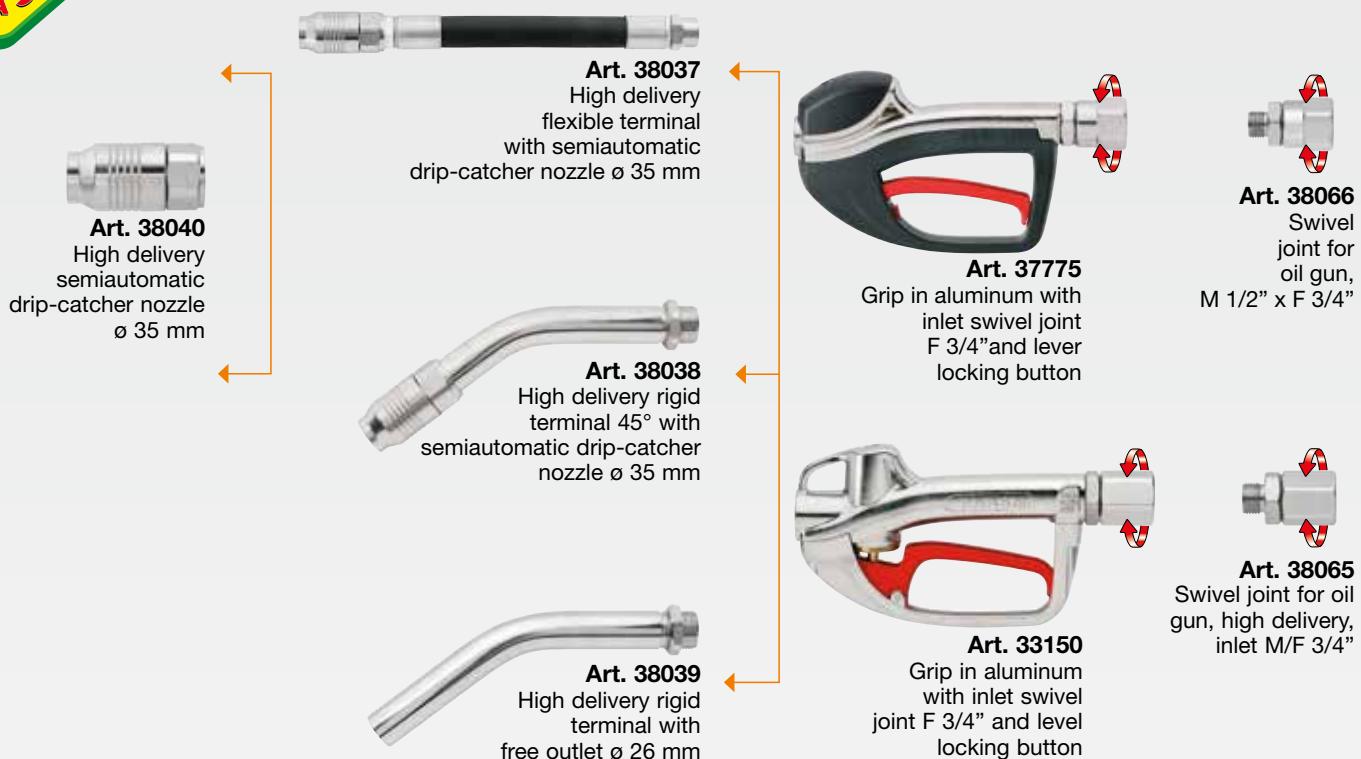
Art. 37750  
Grip in aluminum with  
inlet swivel joint F 1/2"  
and **lever locking button**



Art. 38063  
Swivel  
joint for  
oil gun,  
M/F 1/2"

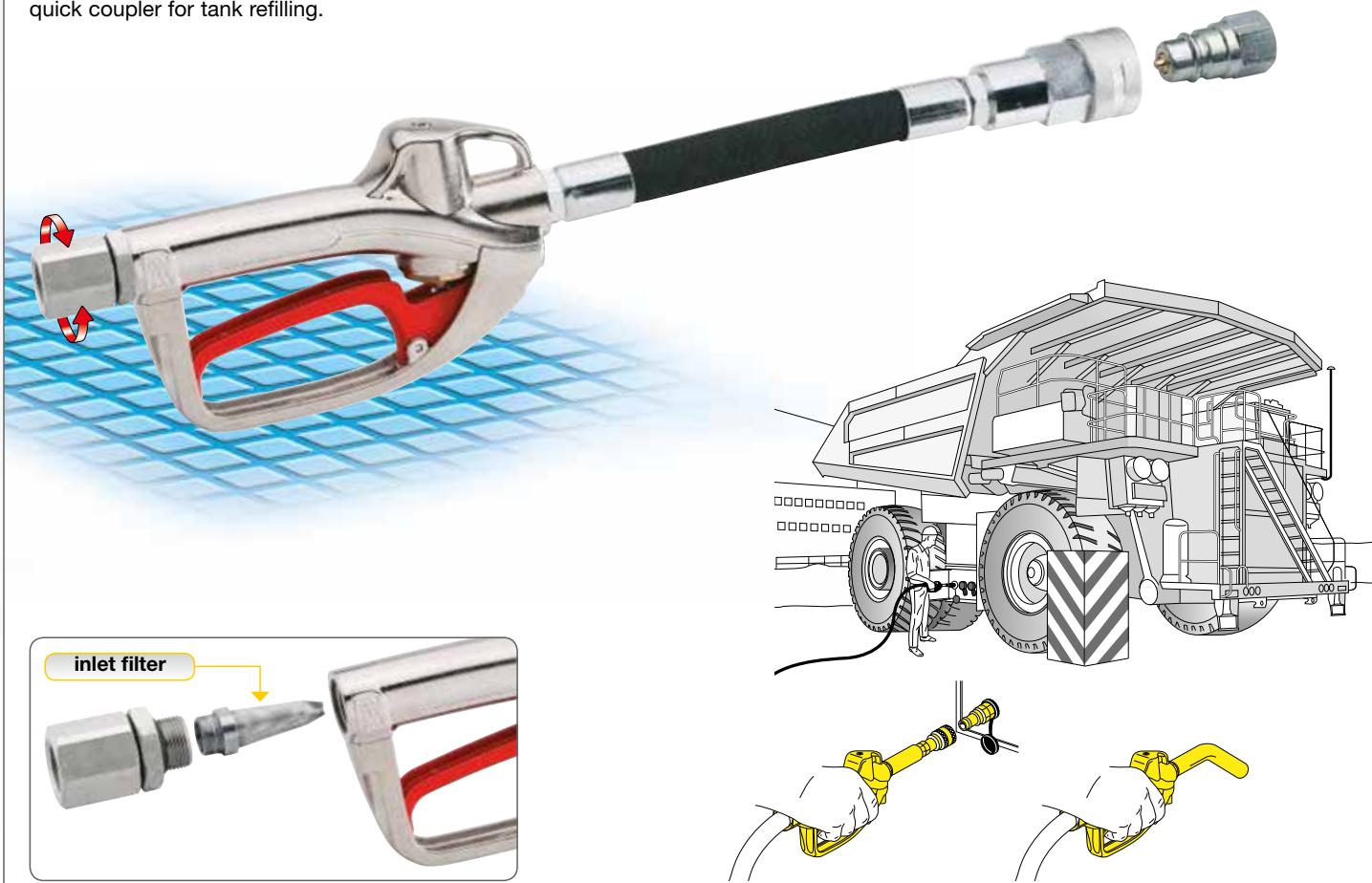


## Gun for oil and similar Series 3/4" - 70AP - 85AP



## High delivery grip Series 3/4"

Example of used 3/4" oil gun with quick coupler for tank refilling.



**Inlet filter** supplied with all our oil, antifreeze, windshield liquid delivery gun.



## Accessories digital meters and volumetric guns

\*\*



Art. 37704

Digital dispensing oil gun with preselection,  
equipped with:

- inlet swivel joint F 1/2"
- flexible terminal
- semiautomatic nozzle ø 16 mm

\* not type-approved for public use

★ articles not manufactured by us

\*\*



Art. 37701

Mechanical litre-counter (weight 1 kg) for oil,  
equipped with:

- connection F 1/2" x F 1/2"
- indicator 0-10 litres

\* not type-approved for public use

★ articles not manufactured by us

\*\*



Art. 37703

Oil gun with mechanical litre-counter (Art. 37701),  
equipped with:

- inlet swivel joint F 1/2"
- flexible terminal
- semiautomatic nozzle ø 16 mm

\* not type-approved for public use

★ articles not manufactured by us

\*



Art. 33122

High delivery oil gun for transfer,  
equipped with:

- F 3/4" inlet swivel joint (max 8 bar)
- rigid terminal with free outlet

Ideal for high deliveries in transferring oil, waste  
oil and antifreeze liquid

Note: it is advisable to use it with hose 3/4" (Art. 997.505) and with pumps  
R 1:1 (max 8 bar)

★ articles not manufactured by us



## Accessories for oil pumps



Art. 38046

**Bung adaptor**

ø 32 mm, with double body  
for pumps with suction tube,  
series 500

Art. 33434

**Bung adaptor**

ø 34 mm, with double body  
for pumps with suction tube,  
series 600

Art. 38042

**Bung adaptor**

ø 42 mm, with double body  
for pumps with suction tube,  
series 600 e 650

Art. 38044

**Bung adaptor**

ø 38 mm, with double body  
for pumps manual double  
acting oil pumps



Art. 38051

**Bung adaptor**

ø 50 mm, for pumps  
with suction tube,  
series 500

Art. 10/14

**Bung adaptor**

ø 45 mm for industrial  
pumps with suction tube,  
series 900 e 1200

Art. 10/15

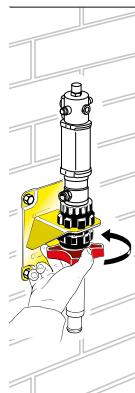
**Bung adaptor**

ø 53 mm for industrial  
pumps with suction tube,  
series 900 e 1200



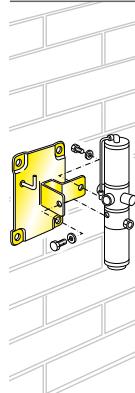
Art. 38047

**Wall bracket ø 32 mm**  
with double body  
for wall-mounting of pumps,  
series 500



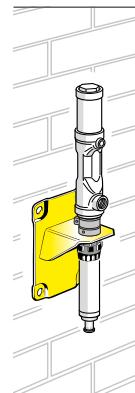
Art. 38043

**Wall bracket ø 42 mm**  
with double body  
for wall-mounting of pumps,  
series 600 and 650



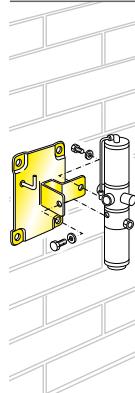
Art. 38052

**Wall bracket ø 50 mm**  
with clamping system  
with screw for  
wall-mounting  
of pumps,  
series 500



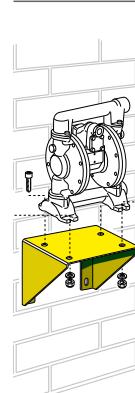
Art. 33115

**Wall bracket in steel**  
for wall-mounting of  
transfer pumps,  
series 600 and 650



Art. 33590

**Wall bracket in painted  
steel** for wall-mounting  
of diaphragm pumps  
1/2" and 3/4"



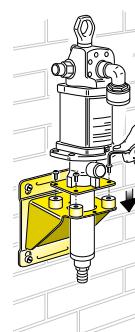
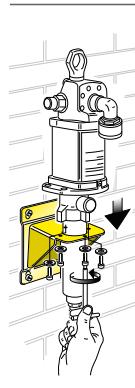
Art. 33591

**Wall bracket in painted  
steel** for wall-mounting  
of diaphragm pumps  
1" and 1.1/4"



Art. 10/10

**Wall bracket in painted  
steel** for wall-mounting  
of integral and flanged  
industrial pumps,  
series 900 and 1200



Art. 10/11

**Wall bracket in  
painted steel**

with dampers for  
wall-mounting of  
integral and flanged  
industrial pumps,  
series 900 and 1200



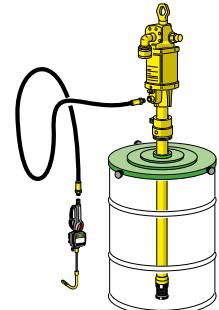
# Accessories for oil pumps

**Union 2" F**



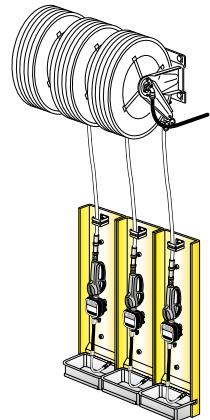
**Drum cover with 2" F union suitable for standard bung adaptor**

Art. 65160 Drum cover ø 600 mm (drums ø external 550 - 600 mm)  
 Art. 65142 Drum cover ø 420 mm (drums ø external 370 - 420 mm)  
 Art. 65138 Drum cover ø 385 mm (drums ø external 340 - 385 mm)



**Art. 88630  
Modular drip-tray.**

Equipped with hook for gun and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery gun. Essential for a clean and orderly workplace



\*



**Art. 33126  
Female quick connector**  
 - thread F 3/4"G  
 - high pressure  
 250 bar



**Art. 33127  
Male quick connector**  
 - thread F 3/4"G  
 - high pressure  
 250 bar

\* articles not manufactured by us

\*



**Art. 38069  
90° union**  
 - 3/4" G - F/M

**Art. 38070  
90° union**  
 - 1/2" G - F/M

\* articles not manufactured by us

\*



- Art. 33106 Nipple M 3/4"NPT x F 3/4"G
- Art. 33107 Nipple M 3/4"G x F 1"NPT
- Art. 33108 Nipple M 1"G x F 3/4"NPT
- Art. 33109 Nipple M 1"G x F 1"NPT
- Art. 38075 Nipple M 1/2"G x F 1/2"NPT
- Art. 38076 Nipple M 1/2"NPT x F 1/2"G
- Art. 38077 Nipple M 3/8"NPT x F 3/8"G
- Art. 38078 Nipple M 3/8"G x F 3/8"NPT
- Art. 38079 Nipple M 1/2"NPT x M 3/8"NPT
- Art. 33111 Nipple M 1.1/4"G x F 1.1/4"NPT
- Art. 33112 Nipple M 3/4"G x F 3/4"NPT
- Art. 33113 Nipple M 1/2"G x F 3/4"NPT

\* articles not manufactured by us

- Art. 38071 Nipple M 1/2"G x M 1/2"G ••
- Art. 38072 Nipple M 1/2"G x M 3/8"G •
- Art. 38073 Nipple M 3/8"G x M 3/8"G ••
- Art. 33114 Nipple M 1"G x M 1/2"G •
- Art. 33116 Nipple M 1"G x M 1"G •
- Art. 33117 Nipple M 3/4"G x M 3/4"G •
- Art. 33118 Nipple M 1/2"G x M 3/4"G •
- Art. 33119 Nipple M 1"G x M 3/4"G •
- Art. 33275 Nipple M 1/2"G x F 3/4"G •
- Art. 33276 Nipple M 3/4"G x F 1"G •
- Art. 33277 Nipple M 3/4"G x F 1/2"G •

•• tapared/cylindrical thread  
 • cylindrical/cylindrical thread





## Accessories 4-way evacuation valve and flow regulator chamber



**Art. 38130**

4-way evacuation valve with connection F 3/4"G

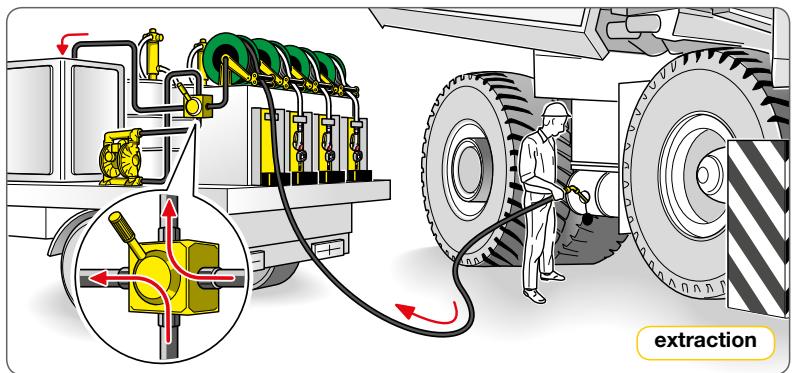
**Art. 38131**

4-way evacuation valve with connection F 1"G

**Art. 38132**

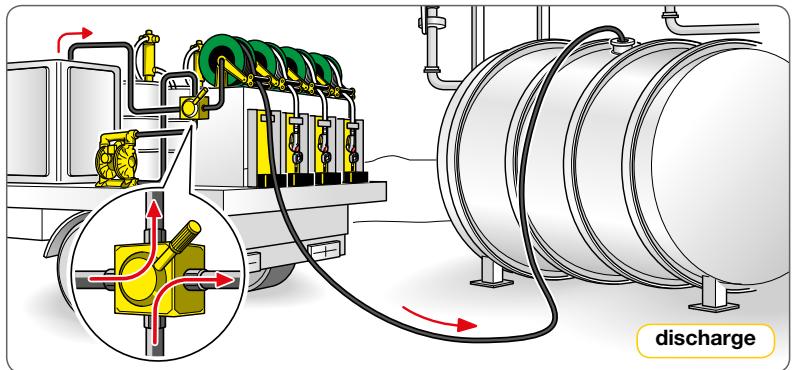
4-way evacuation valve with connection F 1.1/2"G

The 4-way evacuation valve is used for extraction and discharge of waste oil fluid hydraulic gear and engine oil and antifreeze



extraction

Article	Seals	Connection	Pressure	Weight
<b>38130</b>	Viton®	F 3/4"	14 bar	3 kg
<b>38131</b>	Viton®	F 1"	14 bar	3 kg
<b>38132</b>	Viton®	F 1.1/2"	14 bar	3 kg



discharge



Art. 38097

Art. 38098

**Art. 38097**

Flow regulator chamber F 3/4" x F 3/4" equipped with:

- one-way valve eliminates sudden pressure changes, ensuring a regular flow
- suitable for R 1:1 - 3:1 - 5:1 pumps
- max pressure 100 bar

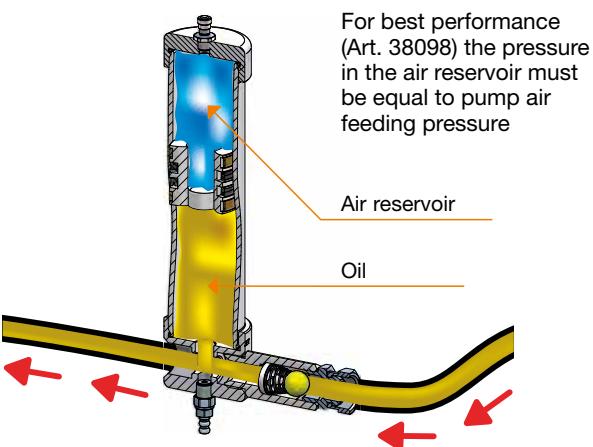
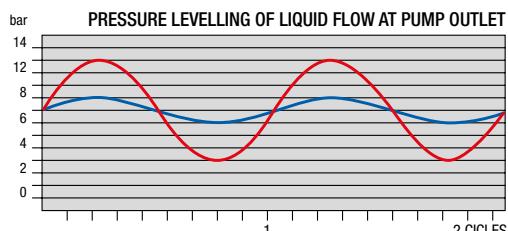
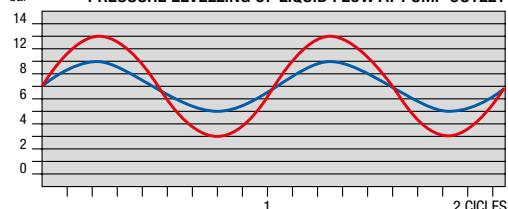
**Art. 38098**

Flow regulator chamber F 3/4" x F 3/4" with air tank equipped with:

- one-way valve eliminates sudden pressure changes, ensuring a regular flow
- suitable for pumps till R 20:1
- max pressure 100 bar

### Pressure trend of oil pump outlet

PRESSURE LEVELLING OF LIQUID FLOW AT PUMP OUTLET





## Accessories for oil pumps



Art. 38210

Art. 38211

**Art. 38210**  
**Ball cock F 1/2" x F 1/2"**  
total passage for system  
- max pressure 70 bar

**Art. 38211**  
**Ball cock F 1" x F 1"**  
total passage for system  
- max pressure 70 bar

\* articles not manufactured by us



**Art. 38095**  
**"Y" filter in line F/F 1/2"** for  
fitting on the outlet of pumps  
for oil and allied products,  
max pressure 100 bar

**Art. 38096**  
**"Y" filter in line F/F 1"** for  
fitting on the outlet of pumps  
for oil and allied products,  
max pressure 100 bar

\* articles not manufactured by us



**Art. 38099**  
**System overpressure  
control valve**  
- F 1/2" x F 1/2"  
- Calibration 5 - 50 bar

**Art. 38100**  
**System overpressure  
control valve**  
- F 3/4" x F 3/4"  
- Calibration 5 - 50 bar

\* articles not manufactured by us



**Art. 37812**  
**Pressure regulator**  
with condensate discharge  
filter, lubricator, pressure  
gauge and inlet-outlet  
connections F/F 1/4"  
**Art. 37817**  
**Pressure regulator**  
with condensate discharge  
filter, lubricator, pressure  
gauge and inlet-outlet  
connections F/F 1/2"

\* articles not manufactured by us



**Art. 38091**  
**Check valve**  
with connection for  
flexible hose 1.1/4"  
- thread 1"G - M to be  
fitted on the draining  
cock of tanks



**Art. 38080**  
Hose holder ø 1.1/4" with  
**M 3/4" inlet connection**  
**Art. 38081**  
Hose holder ø 1.1/4" with  
**M 1" inlet connection**

**Art. 38082**  
Hose holder ø 1.1/4" with  
**M 1.1/4" inlet connection**  
**Art. 38083**  
Stainless steel hose holder  
ø 3/4" with **M 1" inlet  
connection**



**Art. 38026**  
**Flexible suction tube**  
**ø 1.1/4" - 30 mm**  
- length 2 m for  
wall-mounted pumps

**Art. 38028**  
**Flexible suction tube**  
**ø 1.1/4" - 30 mm**  
- length 1 m for  
wall-mounted pumps



**Art. 33426**  
**Flexible suction tube**  
**ø 3/4"**  
- length 2 m for  
wall-mounted s/steel  
pumps



**Art. 993.201** Hose M 1/4" x F 1/4" - 1 m - 20 bar  
**Art. 993.202** Hose M 1/4" x F 1/4" - 2 m - 20 bar  
**Art. 996.301** Hose M 1/2" x F 1/2" - 1 m - 150 bar  
**Art. 996.302** Hose F 1/2" x F 1/2" - 2 m - 150 bar  
**Art. 996.304** Hose M 1/2" x F 1/2" - 4 m - 150 bar  
**Art. 997.3305** Hose M 3/4" x F 3/4" - 5 m - 100 bar  
**Art. 998.501** Hose M 1" x F 1" - 1 m - 150 bar  
**Art. 998.502** Hose M 1" x F 1" - 2 m - 150 bar



## Accessories for oil pumps



Art. 38056

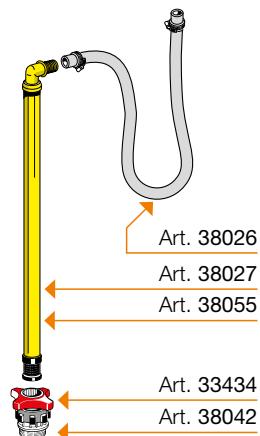
**Flexible and rigid suction tube** for wall mounted pump series 500 - 600 - 650 - 900 equipped with:

- Art. 38026 flexible suction tube 2 m - ø 1.1/4"
- Art. 38027 rigid suction tube 940 mm
- Art. 38042 bung adaptor

Art. 38057

**Flexible and rigid suction tube** for wall mounted pump series 500 - 600 - 650 - 900 equipped with:

- Art. 38026 flexible suction tube 2 m - ø 1.1/4"
- Art. 38055 rigid suction tube 1260 mm
- Art. 33434 bung adaptor



Art. 33583

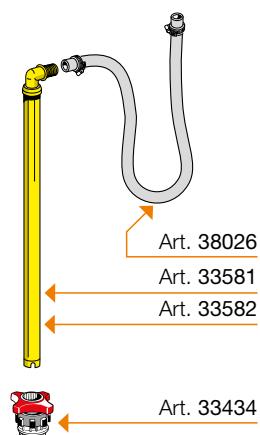
**Flexible and rigid suction tube** for wall mounted diaphragm pump equipped with:

- Art. 38026 flexible suction tube 2 m - ø 1.1/4"
- Art. 33581 rigid suction tube 940 mm - ø 1.1/4"
- Art. 33434 bung adaptor

Art. 33585

**Flexible and rigid suction tube** for wall mounted diaphragm pump equipped with:

- Art. 38026 flexible suction tube da 2 m - ø 1.1/4"
- Art. 33582 rigid suction tube 1240 mm
- Art. 33434 bung adaptor



Art. 33424

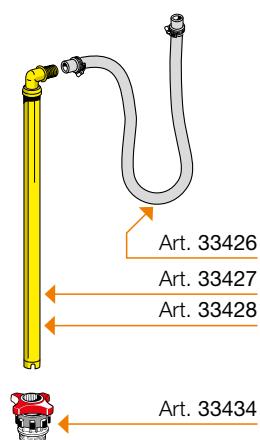
**Flexible and rigid suction tube** for wall mounted pump series 600 INOX equipped with:

- Art. 33426 flexible suction tube 2 m - ø 3/4"
- Art. 33427 stainless steel suction tube 940 mm - ø 3/4"
- Art. 33434 bung adaptor

Art. 33425

**Flexible and rigid suction tube** for wall mounted pump series 600 INOX equipped with:

- Art. 33426 flexible suction tube 2 m - ø 3/4"
- Art. 33428 stainless steel suction tube 1260 mm - ø 3/4"
- Art. 33434 bung adaptor





## Accessories extensions 1" thread



**Art. 38092**

**Top connector - thread F 1" x F 1"**  
allows to connect pump M 1" thread with extensions M 1" thread



**Art. 10/21**

**Extension ø 34 - thread M 1"G x M 1"G - 460 mm**  
- suitable for modular and extendable pumps with F 1" connection

**Art. 10/22**

**Extension ø 34 - thread M 1"G x M 1"G - 660 mm**  
- suitable for modular and extendable pumps with F 1" connection

**Art. 10/23**

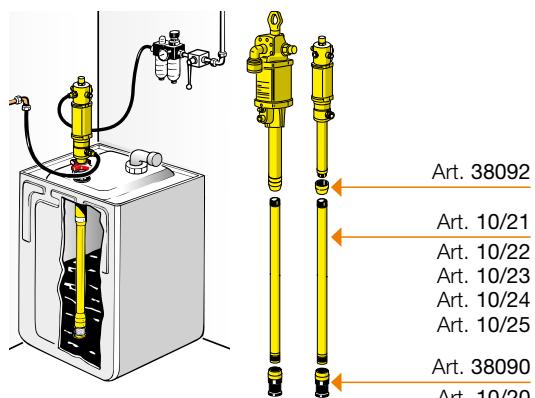
**Extension ø 34 - thread M 1"G x M 1"G - 960 mm**  
- suitable for modular and extendable pumps with F 1" connection

**Art. 10/24**

**Extension ø 34 - thread M 1"G x M 1"G - 1260 mm**  
- suitable for modular and extendable pumps with F 1" connection

**Art. 10/25**

**Extension ø 34 - thread M 1"G x M 1"G - 1460 mm**  
- suitable for modular and extendable pumps with F 1" connection

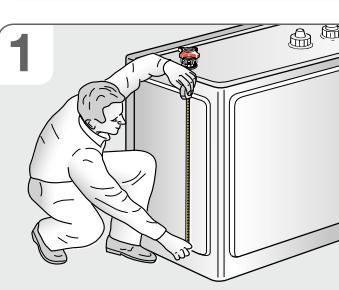


**Art. 38090**

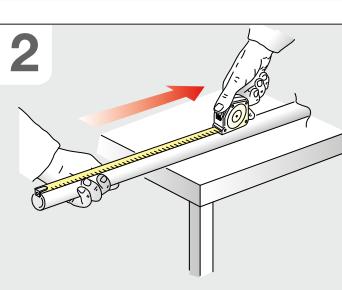
**Foot valve with air eliminator - F 1" thread**  
suitable to fit ø 34 extensions M 1"G thread

**Art. 10/20**

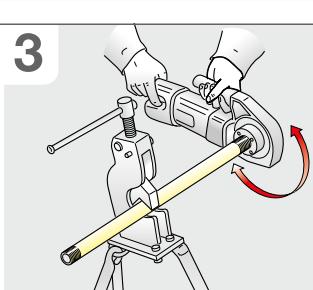
**Foot valve with filter - F 1" thread**  
suitable to fit ø 34 extensions M 1"G thread



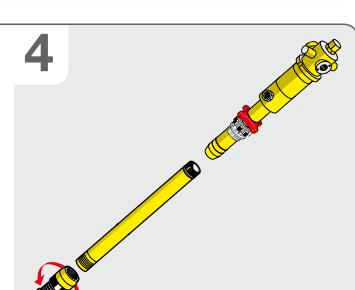
Obtain a water pipe (normally available on the market) ø 1" and thickness 2,5 mm



Cutting the length suitable for the container



Thread the 2 ends with 1" gas Male



Screw the threaded pipe between the pump and the foot valve (Art. 10/20)

**Note:** apply a sealant to prevent air infiltration in the pumping phase or oil leaks during stops



# Accessories extensions for customising pumps



Art. 38084



Art. 38085



Art. 38086



Art. 38087



Art. 38088

**Art. 38084**  
**Top connector F 1"**  
for connection between pump and extension

**Art. 38085**  
**Extension ø 32 mm**  
- 500 mm

**Art. 38086**  
**Connector to joint together**  
to extensions

**Art. 38087**  
**Extension ø 32 mm**  
- 200 mm

**Art. 38088**  
**Foot valve**  
complete with union and filter



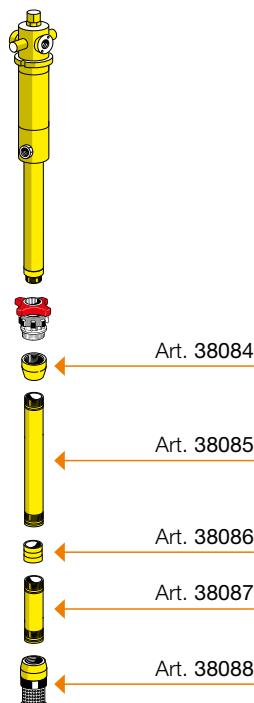
Art. 38089



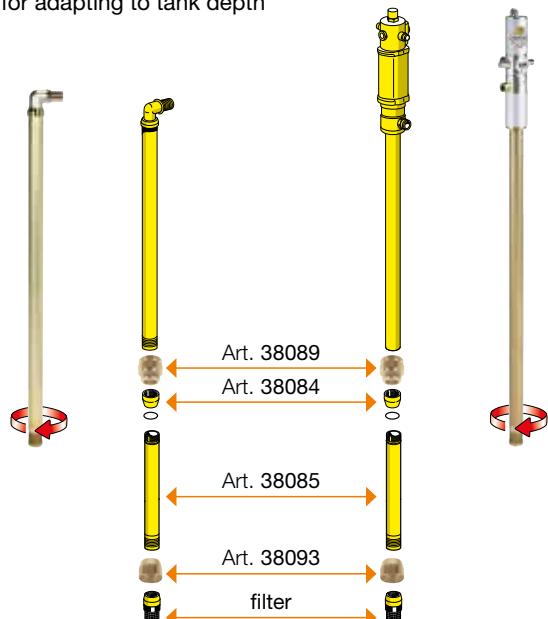
Art. 38093

**Art. 38089**  
**Differentiated union with valve** for suction tubes ø 42 mm with the foot valve removed it enables connection between the suction tube and the modular extensions

**Art. 38093**  
**Union for foot valve**  
it connects the modular extension, added to the suction tube, to the previously removed foot valve



Extension of the rigid suction tube for adapting to tank depth



Art. 80201



Art. 80210

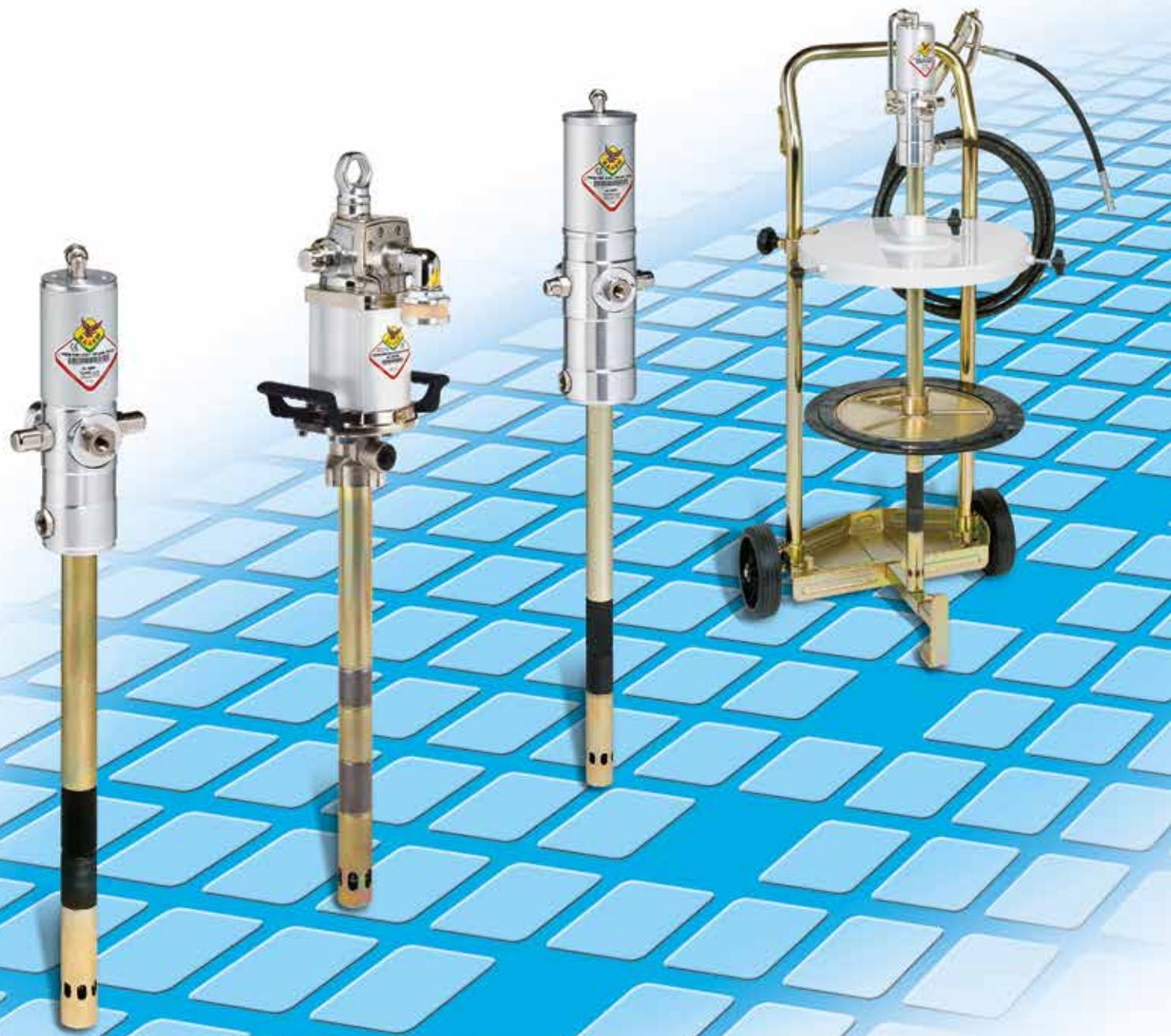


Art. 80050

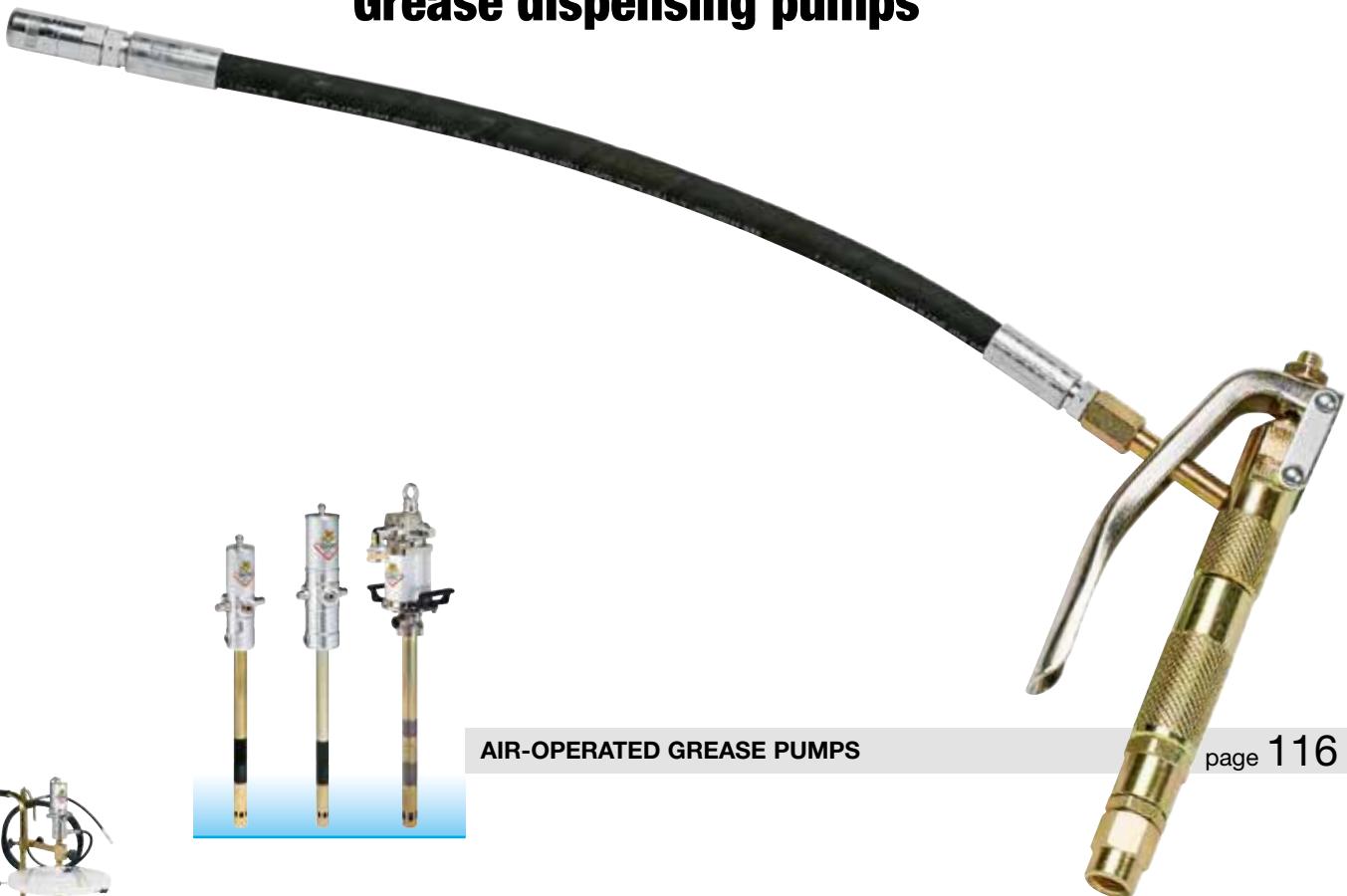
for trolleys  
see page 130



# FLUIDS AND LUBRICATION EQUIPMENT



# Grease dispensing pumps



AIR-OPERATED GREASE PUMPS

page 116



GREASING KIT

page 120

5



GUNS AND ACCESSORIES

page 126



TROLLEYS FOR CONTAINERS 20 - 220 KG

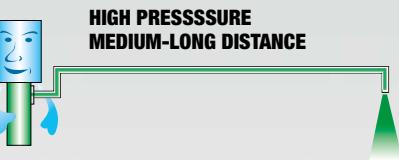
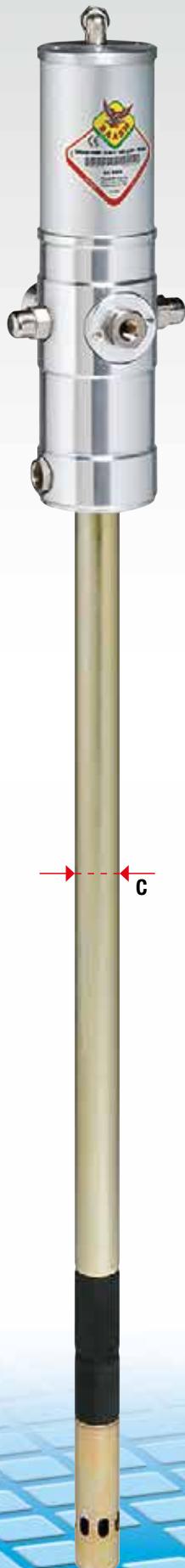
page 130



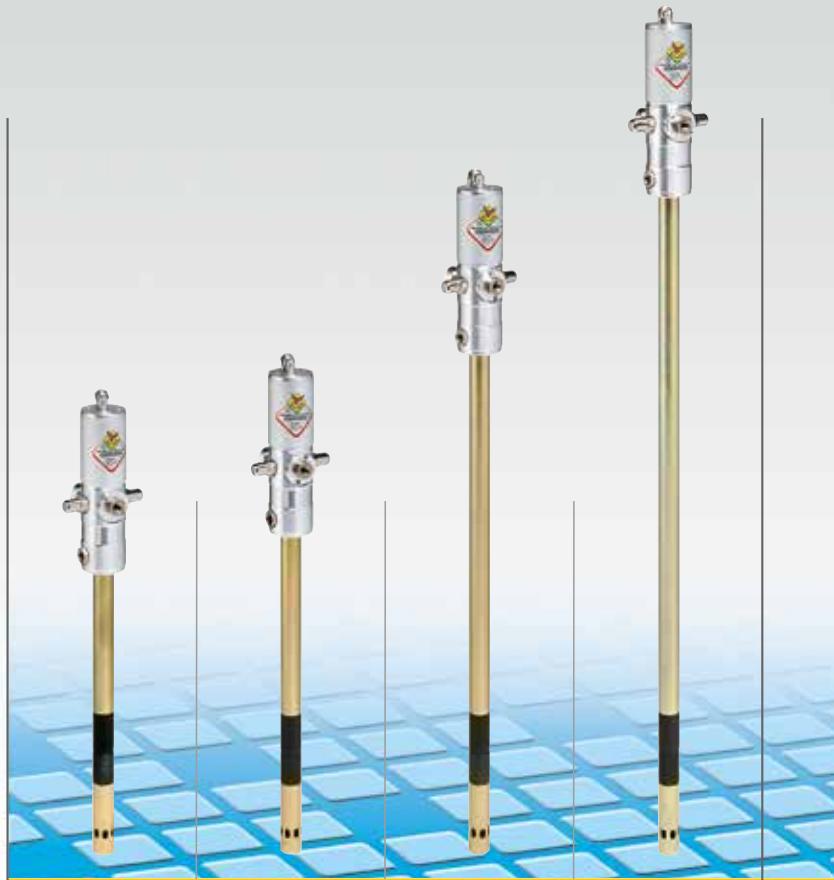
# Air-operated pumps for DISTRIBUTION

grease

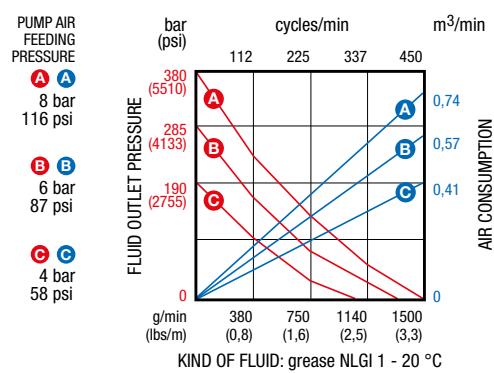
Ratio 50:1 Flow rate 1500 g/min



**Series 600 air-operated pumps for short-long distance grease distribution**, for high pressure greasing. Ideal for dispensing medium-high viscosity grease. Suitable for mobile installations and centralised fixed systems.



Article with seals in	PU	62041	62048	62074	62095
Compatible fluids		Greases, medium-high viscosity			
Suction tube upper body		Aluminium			
Suction tube		Carbon steel			
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp	F 3/8" G	F 3/8" G	F 3/8" G	F 3/8" G
Air working pressure	bar	6 - 8	6 - 8	6 - 8	6 - 8
Average air consumption	l/min	330	330	330	330
Noise level	dB	81	81	81	81
Air max pressure	bar	8	8	8	8
Suitable for drums	kg	16 - 20	20 - 30	50 - 60	180 - 220
Pump	Art.	-	-	-	-
Hose reel	Art.	-	-	-	-
Gun	Art.	-	-	-	-
Drum cover	Art.	-	-	-	-
Follower plate	Art.	-	-	-	-
Connection hose	Art.	-	-	-	-
Nipple	Art.	-	-	-	-
Drip-tray	Art.	-	-	-	-
Packing	N° - m³	1 - 0,010	1 - 0,010	1 - 0,020	1 - 0,020
Weight	kg	4,6	4,8	6,1	6,7
Dimensions (A - B - C)	cm	26,5 - 41 - 3	26,5 - 48 - 3	26,5 - 74 - 3	26,5 - 94 - 3

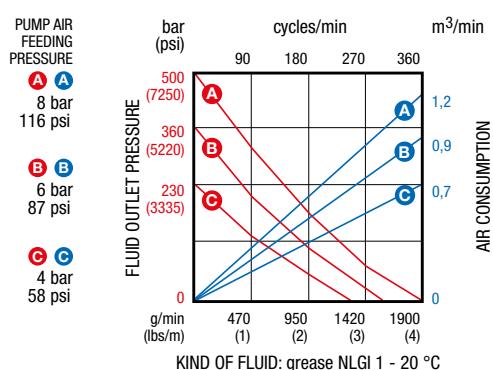


Ratio 65:1 Flow rate 1900 g/min



series 700

63041	63048	63074	63095
Greases, medium-high viscosity			
Aluminium			
F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 3/8" G	F 3/8" G	F 3/8" G	F 3/8" G
6 - 8	6 - 8	6 - 8	6 - 8
440	440	440	440
81	81	81	81
8	8	8	8
16 - 20	20 - 30	50 - 60	180 - 220
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
1 - 0,010	1 - 0,010	1 - 0,020	1 - 0,020
5,9	6,1	7,4	8,2
33,5 - 41 - 3	33,5 - 48 - 3	33,5 - 74 - 3	33,5 - 94 - 3

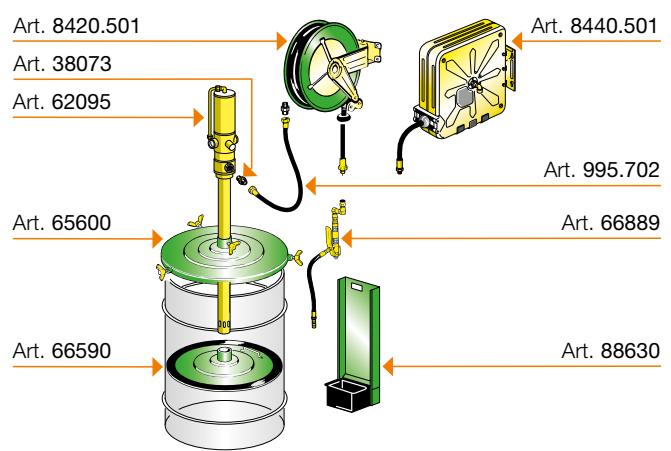


Ratio 50:1 Flow rate 1500 g/min



series 600

64200	64210
Greases, medium-high viscosity	
Aluminium	
Carbon steel	
F 1/4" G	F 1/4" G
F 3/8" G	F 3/8" G
6 - 8	6 - 8
330	330
81	81
8	8
180 - 220	180 - 220
62095	62095
8420.501	8440.501
66889	66889
65600	65600
66590	66590
995.702	995.702
38073	38073
88630	88630
4 - 0,150	4 - 0,160
66,8	72

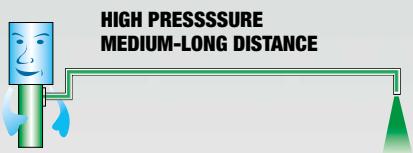
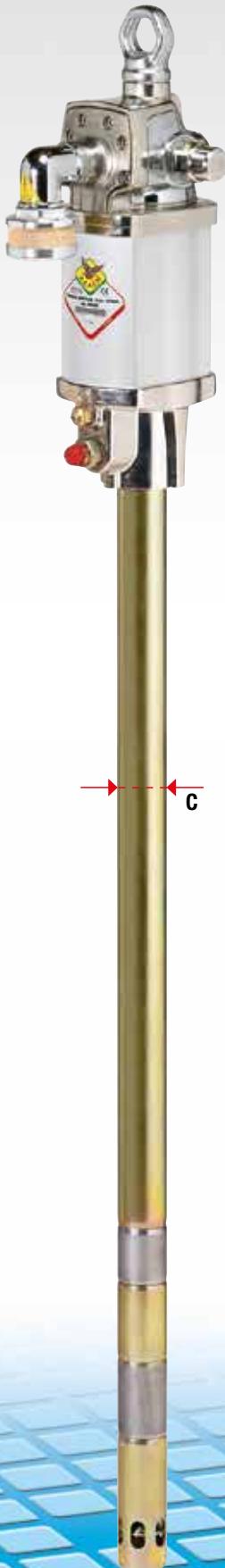




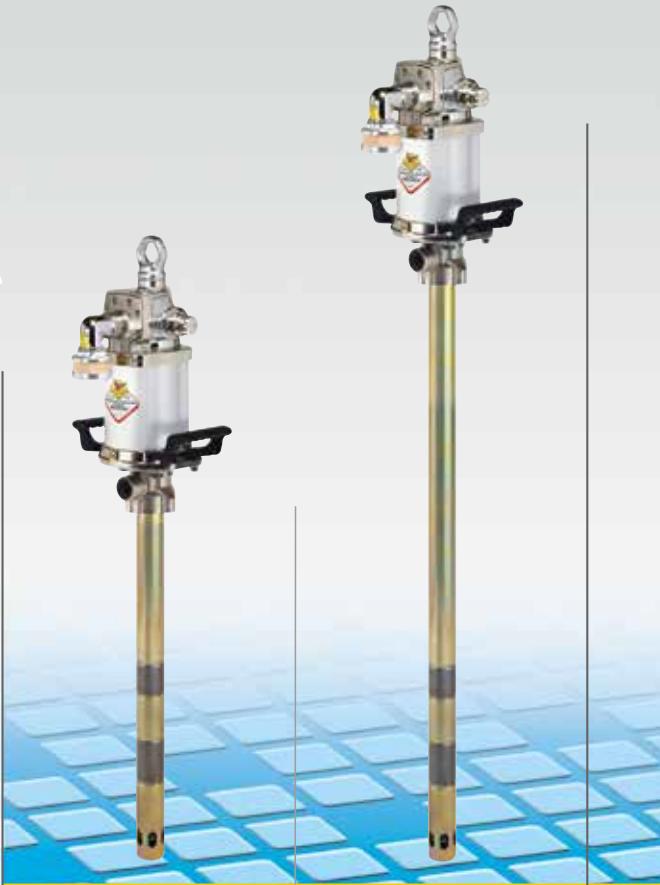
# Air-operated pumps for DISTRIBUTION

grease

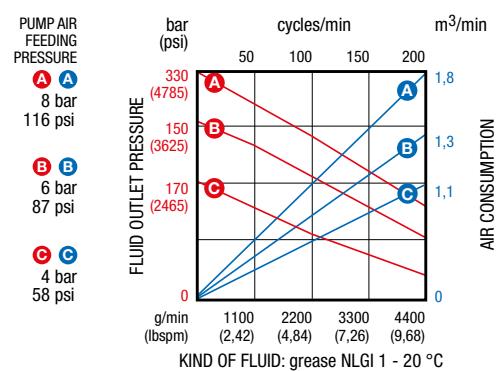
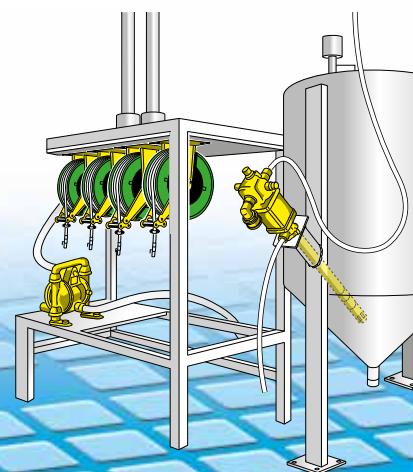
Ratio 45:1  
Flow rate 4400 g/min



**Series 900 industrial air-operated pumps for short-long distance grease distribution,** for high pressure greasing. Ideal for transferring grease and high viscosity oil. The double action guarantees the delivery of a continuous and constant flow, suitable for the numerous needs of modern industry. The high quality of the materials used and the anticorrosion treatments reduce internal friction and limit wear over time.



Article with seals in	PU	90F/451	91F/451
Compatible fluids	Greases, high viscosity oils		
Suction tube upper body		Carbon steel	
Suction tube		Carbon steel	
Air inlet connection	bsp	F 1/2" G	F 1/2" G
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G
Flow rate	g/min	4400	4400
Max air consumption 8 bar	m <sup>3</sup> /min	1,6	1,6
Noise level	dB	80	80
Air max pressure	bar	8	8
Suitable for drums			
Packing	N° - m <sup>3</sup>	1 - 0,050	1 - 0,070
Weight	kg	17	19
Dimensions (A - B - C)	cm	44,5 - 50 - 4,5	44,5 - 94 - 4,5



**Ratio 70:1**  
Flow rate **3000 g/min**



**series 900**

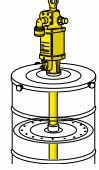
**91C/701**

Greases, high viscosity oils

Aluminium  
Carbon steel

F 1/2" G  
F 1/2" G

3000  
1,6  
80  
8



suitable for drums  
180-220 kg

**1 - 0,070**

**19**

**43 - 94 - 4,5**

**Ratio 75:1**  
Flow rate **4400 g/min**



**series 1200**

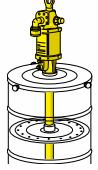
**116F/751**

Greases, high viscosity oils

Carbon steel

F 1/2" G  
F 1/2" G

4400  
2,8  
80  
8



suitable for drums  
180-220 kg

**1 - 0,070**

**21**

**44,5 - 94 - 4,5**

**117F/751**

Carbon steel

F 1/2" G  
F 1/2" G

4400  
2,8  
80  
8

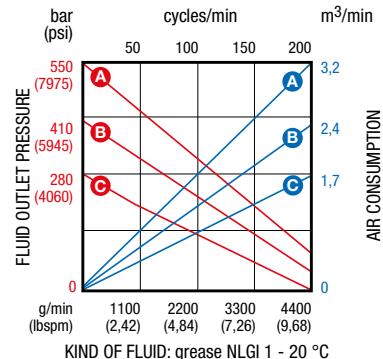
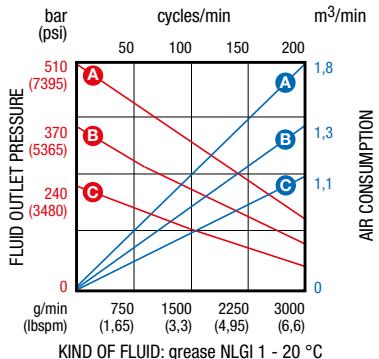


suitable for drums  
50-60 kg

**1 - 0,070**

**20**

**44,5 - 74 - 4,5**



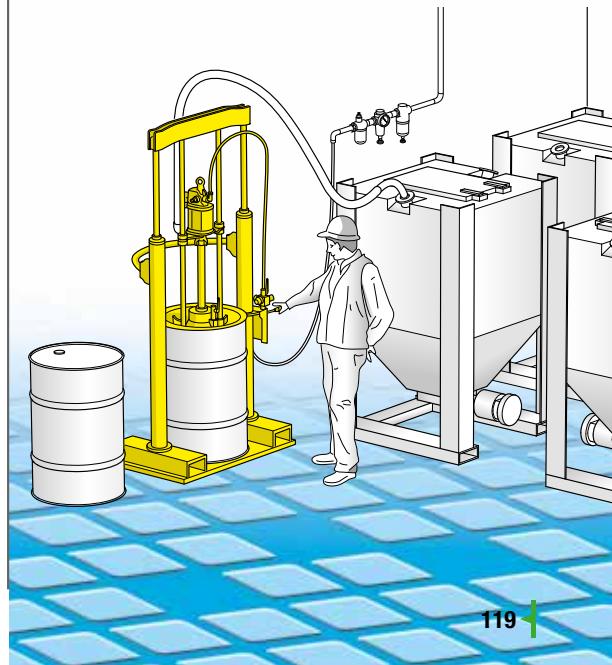
**Ratio 40:1**  
Flow rate **10000 g/min**



**with ram hoist Art.10/85**

**10/12401P1N**

example of pump installation on a twin column ram hoist. For more info see page 212





# Mobile or fixed grease dispensing kits suitable for drums 180 - 220 kg

## Mobile grease dispenser kits.

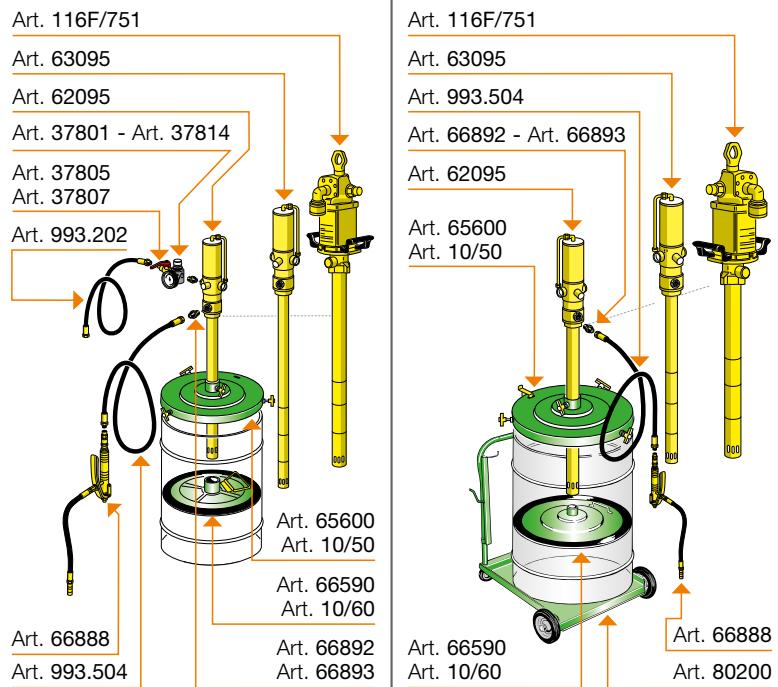
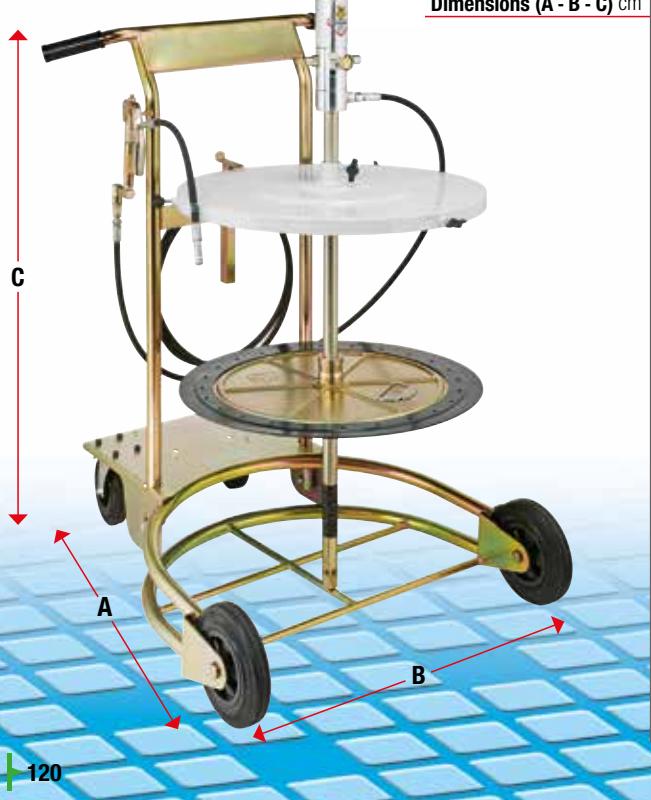
The ideal combination for dispensing grease in any workplace. The very easy to handle trolley is equipped with a drum (180 - 220 kg) clamping device, adjustable side support for hooking accessories, and wheel with brake.

The mobile unit comes with a handy hose reel with 12 m of hose.

By request the mobile unit can be equipped with other hose reels (see page 142).



Article	64195	64196	64197	64070	64070/65	64070/75
Ratio	50:1	65:1	75:1	50:1	65:1	75:1
Flow rate	1500	1900	4400	1500	1900	4400
from 550 to 600						
For drums with external ø mm	from 550 to 600					
Pump	Art. 62095	63095	116F/751	62095	63095	116F/751
Trolley	Art. -	-	-	80200	80200	80200
Hose reel or delivery hose	993.504	993.504	993.504	993.504	993.504	993.504
Gun	66888	66888	66888	66888	66888	66888
Drum cover	65600	65600	10/50	65600	65600	10/50
Follower plate	66590	66590	10/60	66590	66590	10/60
Grease connecting hose	Art. -	-	-	-	-	-
Air connecting hose	993.202	993.202	996.302	-	-	-
Nipple	66892	66892	66893	66892	66892	66893
Air regulator	37801	37801	37814	-	-	-
Air quick coupler	37805	37805	37807	-	-	-
Packing  N° - m³	2 - 0,060	2 - 0,060	2 - 0,110	3 - 0,120	3 - 0,120	3 - 0,170
Weight  kg	21	22,5	38	40,3	41,7	57
Dimensions (A - B - C) cm	60 - 60 - 120	60 - 60 - 127	60 - 60 - 138	67 - 77 - 131,5	67 - 77 - 131,5	67 - 77 - 131,5



**with hose reel**

**with hose reel**



64000	64000/65	64000/75
<b>50:1</b>	<b>65:1</b>	<b>75:1</b>
<b>1500</b>	<b>1900</b>	<b>4400</b>

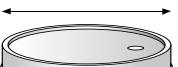
64071	64071/65	64071/75
<b>50:1</b>	<b>65:1</b>	<b>75:1</b>
<b>1500</b>	<b>1900</b>	<b>4400</b>

64001	64001/65	64001/75
<b>50:1</b>	<b>65:1</b>	<b>75:1</b>
<b>1500</b>	<b>1900</b>	<b>4400</b>

from 550 to 600

from 550 to 600

from 550 to 600



62095	63095	116F/751
80201	80201	80201
8430.501	8430.501	8430.501
66889	66889	66889
65600	65600	10/50
66590	66590	10/60
995.702	995.702	995.702
-	-	-
38073	38073	38072
-	-	-
-	-	-
4 - 0,234	4 - 0,234	4 - 0,285
86	87,5	102
93 - 81 - 137	93 - 81 - 137	93 - 81 - 137

62095	63095	116F/751
80210	80210	80210
993.504	993.504	993.504
66889	66889	66889
65600	65600	10/50
66590	66590	10/60
-	-	-
66892	66892	66893
-	-	-
-	-	-
3 - 0,120	3 - 0,120	3 - 0,170
45,8	47,2	62,5
90 - 77 - 126	90 - 77 - 126	90 - 77 - 126

62095	63095	116F/751
80210	80210	80210
8430.501	8430.501	8430.501
66889	66889	66889
65600	65600	10/50
66590	66590	10/60
995.702	995.702	995.702
-	-	-
38073	38073	38072
-	-	-
-	-	-
4 - 0,234	4 - 0,234	4 - 0,285
66,2	67,6	82,5
90 - 77 - 126	90 - 77 - 126	90 - 77 - 126

Art. 116F/751

Art. 63095

Art. 995.702

Art. 38073 - Art. 38072

Art. 62095

Art. 8430.501

Art. 66889

Art. 80201

Art. 65600  
Art. 10/50  
Art. 66590  
Art. 10/60

Art. 116F/751

Art. 63095

Art. 993.504

Art. 66892 - Art. 66893

Art. 62095

Art. 65600

Art. 10/50

Art. 80210

Art. 66889

Art. 66590

Art. 10/60

Art. 116F/751

Art. 63095

Art. 995.702

Art. 38073 - Art. 38072

Art. 62095

Art. 8430.501

Art. 66889

Art. 80210

Art. 65600  
Art. 10/50  
Art. 66590  
Art. 10/60

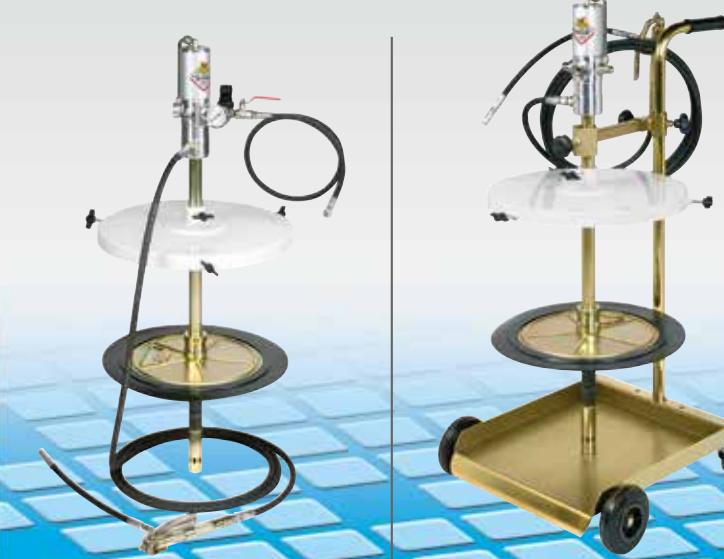


# Mobile or fixed grease dispensing kits suitable for drums 50 - 60 kg

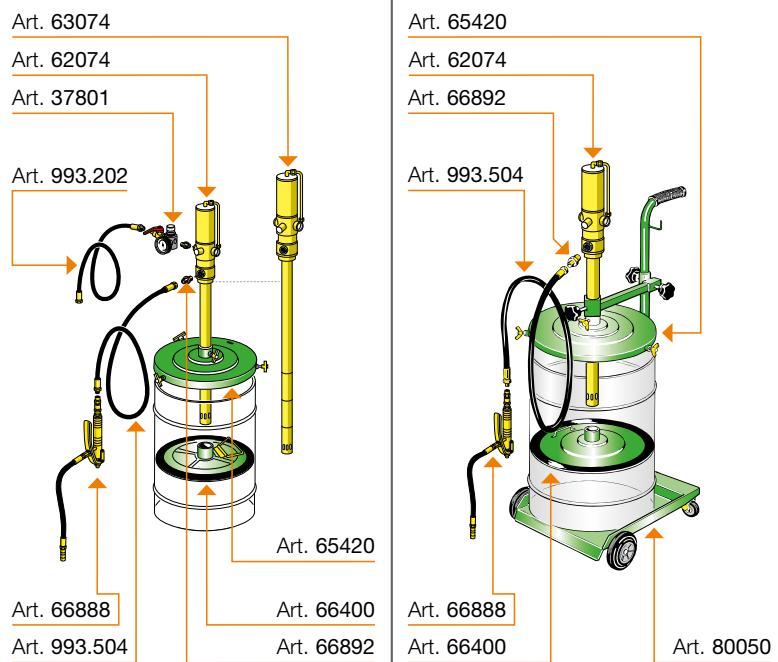
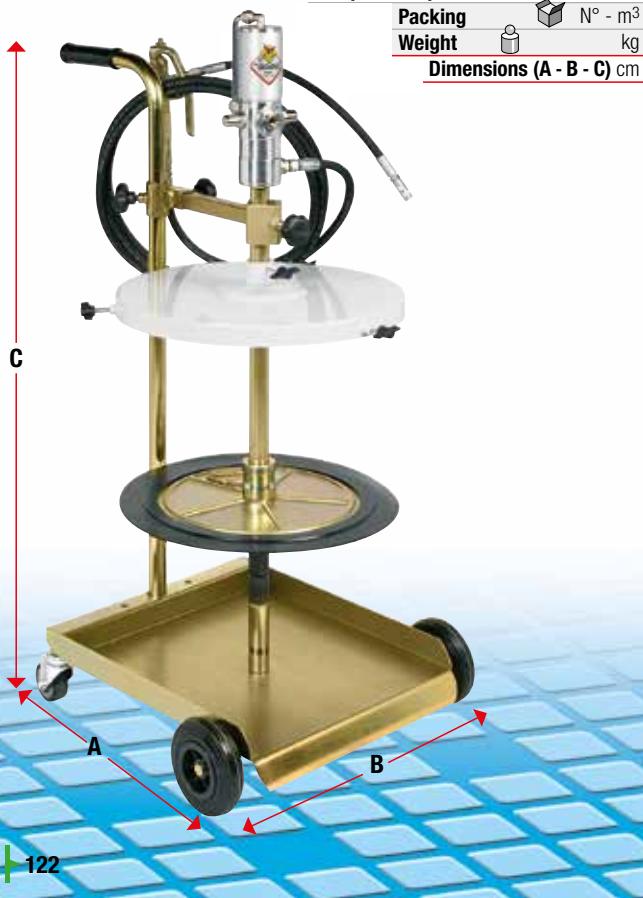
## Mobile grease dispenser kits.

The ideal combination for dispensing grease in any workplace.

The compact trolley has 2 fixed wheels and 2 castors (Art. 80050) or only 2 fixed wheels (Art. 80040 and Art. 80035), that make it very easy to handle. It is equipped with a pump support and is suitable for small-medium size containers.



Article	64145	64146	64063	64064
Ratio	50:1	65:1	50:1	50:1
Flow rate	1500 g/min	1900	1500	1500
from 370 to 420 mm				
For drums with external ø				
Pump	Art. 62074	63074	62074	62074
Trolley	-	-	80050	80050
Delivery hose	993.504	993.504	993.504	993.504
Air connecting hose	993.202	993.202	-	-
Gun	66888	66888	66888	66888
Drum cover	65420	65420	65420	65420
Follower plate	66400	66400	-	66400
Nipple	66892	66892	66892	66892
Air regulator	37801	37801	-	-
Air quick coupler	37805	37805	-	-
Packing	2 - 0,040	2 - 0,040	3 - 0,059	3 - 0,059
Weight	kg 17	18	19,5	22,4
Dimensions (A - B - C) cm	43 - 43 - 99	43 - 43 - 106	46 - 50 - 107,5	46 - 50 - 114,5

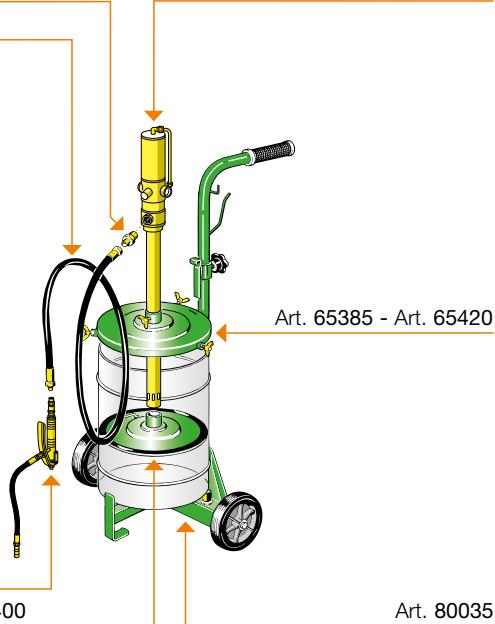




64040	64041	64037	64038	64042	64042/65	64039	64039/65
50:1	50:1	50:1	50:1	50:1	65:1	50:1	65:1
1500	1500	1500	1500	1500	1900	1500	1900
from 370 to 420		from 340 to 385		from 370 to 420		from 340 to 385	
62074	62074	62074	62074	62074	63074	62074	63074
80035	80035	80035	80035	80040	80040	80040	80040
993.504	993.504	993.504	993.504	993.504	993.504	993.504	993.504
-	-	-	-	-	-	-	-
66888	66888	66888	66888	66888	66888	66888	66888
65420	65420	65385	65385	65420	65420	65385	65385
-	66400	-	66370	66400	66400	66370	66370
66892	66892	66892	66892	66892	66892	66892	66892
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048
19	22	18	20	22	23,5	21	22,5
44 - 39,5 - 106	44 - 39,5 - 106	44 - 39,5 - 106	44 - 39,5 - 106	43 - 47,5 - 107,5	43 - 47,5 - 114,5	43 - 47,5 - 107,5	43 - 47,5 - 114,5

Art. 66892

Art. 993.504



Art. 62074

Art. 62074

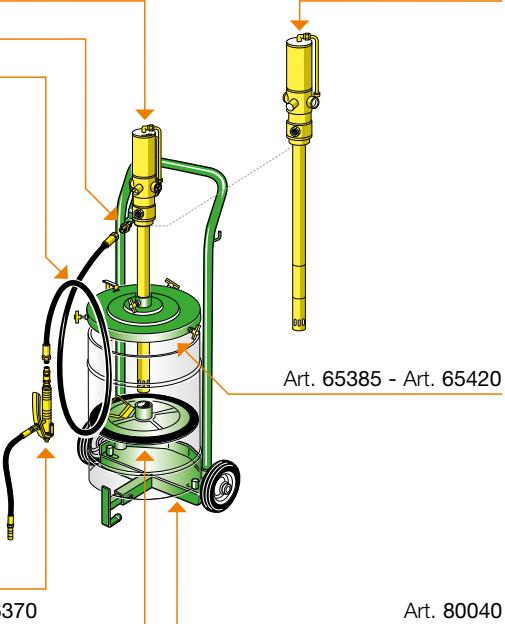
Art. 66892

Art. 993.504

Art. 66888

Art. 66400 - Art. 66370

Art. 63074



Art. 66888

Art. 66370 - Art. 66400

Art. 80040



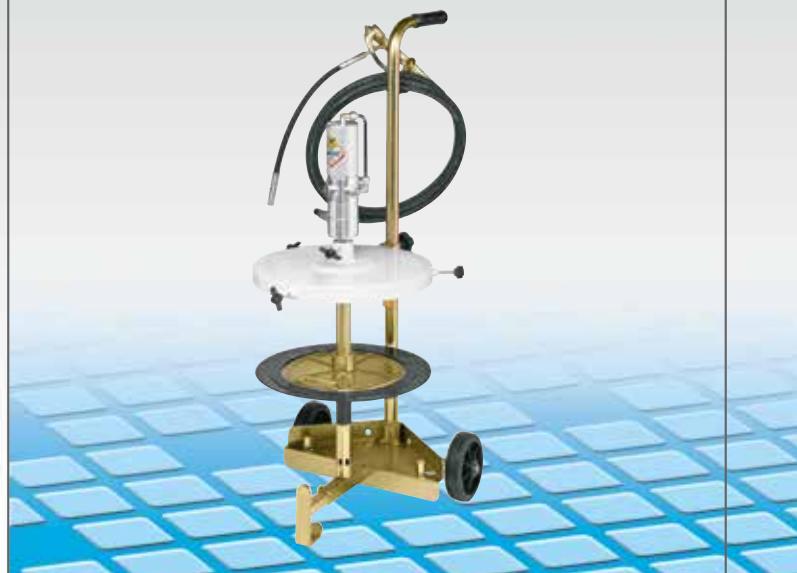
# Mobile or fixed grease dispensing kits suitable for drums 12 - 30 kg

## Mobile grease dispenser kits.

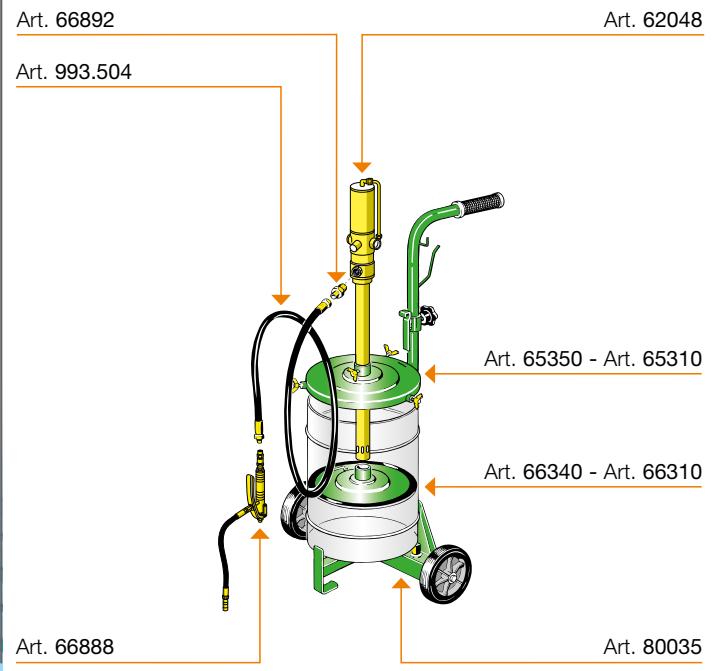
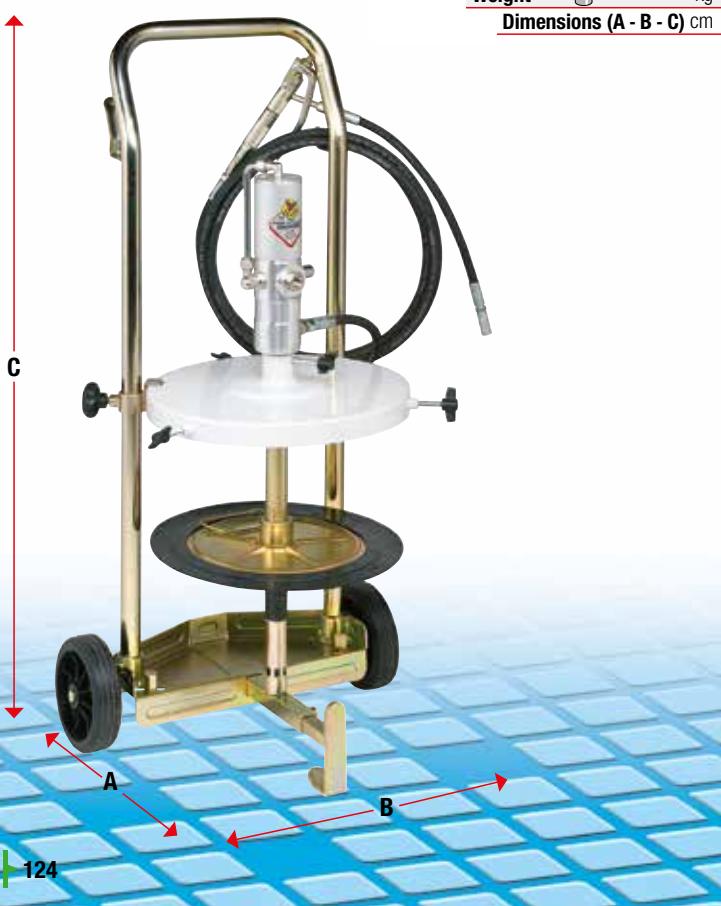
The ideal combination for dispensing grease in any workplace.

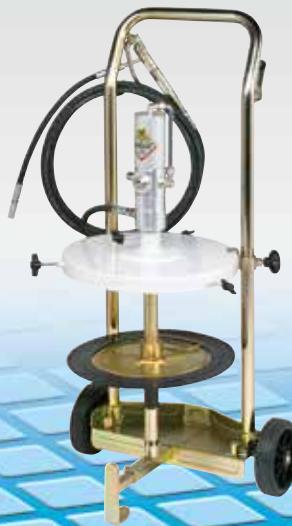
The compact trolley (Art. 80040 and Art. 80035) has 2 fixed wheels that make it very easy to handle.

It is equipped with a pump support and is suitable for small-medium size containers.

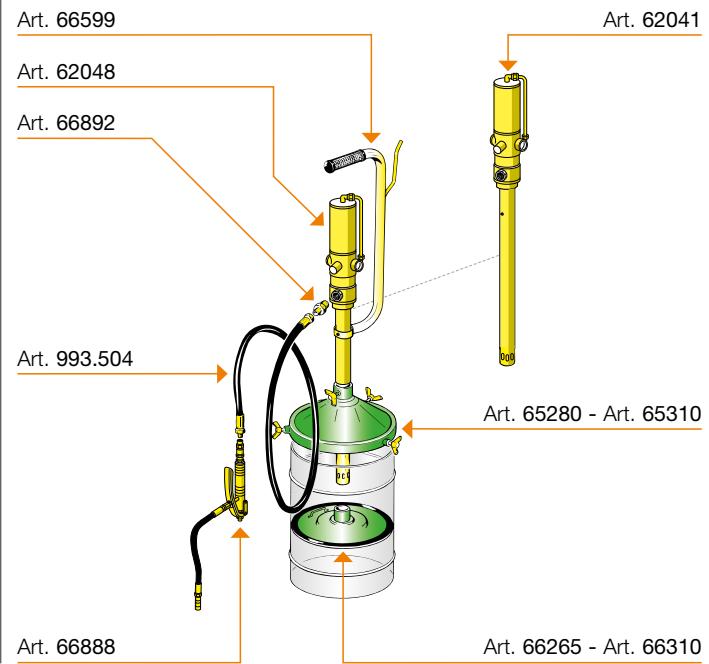
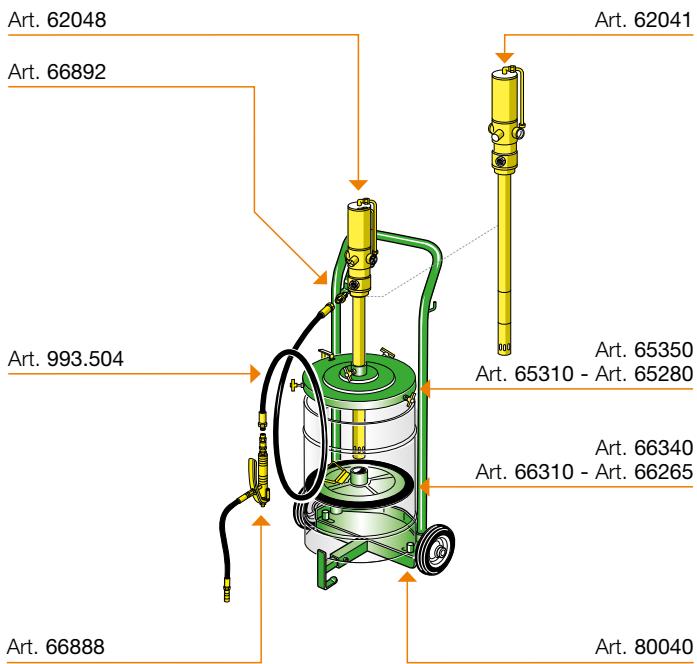


Article	64034	64035	64032	64033
Ratio	50:1	50:1	50:1	50:1
Flow rate	1500 g/min	1500	1500	1500
from 300 to 350		from 260 to 300		
For drums with external ø mm				
Pump	62048	62048	62048	62048
Trolley	80035	80035	80035	80035
Delivery hose	993.504	993.504	993.504	993.504
Gun	66888	66888	66888	66888
Drum cover	65350	65350	65310	65310
Follower plate	-	66340	-	66310
Nipple	66892	66892	66892	66892
Kit carrying handle	-	-	-	-
Packing  N° - m³	3 - 0,040	3 - 0,040	3 - 0,040	3 - 0,040
Weight  kg	15,9	17,5	15	17
Dimensions (A - B - C) cm	44 - 39,5 - 99,5	44 - 39,5 - 99,5	44 - 39,5 - 99,5	44 - 39,5 - 99,5





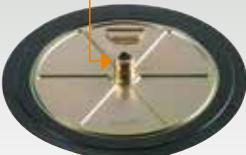
<b>64036</b>	<b>64033/40</b>	<b>64025</b>	<b>64031</b>	<b>64021</b>
<b>50:1</b>	<b>50:1</b>	<b>50:1</b>	<b>50:1</b>	<b>50:1</b>
<b>1500</b>	<b>1500</b>	<b>1500</b>	<b>1500</b>	<b>1500</b>
from 300 to 350	from 260 to 300	from 240 to 280	from 260 to 300	from 240 to 280
62048	62048	62041	62048	62041
80040	80040	80040	-	-
993.504	993.504	993.504	993.504	993.504
66888	66888	66888	66888	66888
65350	65310	65280	65310	65280
66340	66310	66265	66310	66265
66892	66892	66892	66892	66892
-	-	-	66599	66599
3 - 0,040	3 - 0,040	3 - 0,040	2 - 0,025	2 - 0,030
18,5	18	17	11,4	11
43 - 47,5 - 99	43 - 47,5 - 99	43 - 47,5 - 99	33 - 33 - 74,5	30 - 30 - 67,5





# Accessories for grease pumps

**Union ø 30 mm**



## Follower plate for pumps series 600 - 700 with suction tube ø 30

Art. 66265 Follower plate ø 265 mm (drum internal ø 240 - 260 mm)

Art. 66310 Follower plate ø 303 mm (drum internal ø 255 - 300 mm)

Art. 66340 Follower plate ø 340 mm (drum internal ø 300 - 330 mm)

Art. 66370 Follower plate ø 370 mm (drum internal ø 335 - 360 mm)

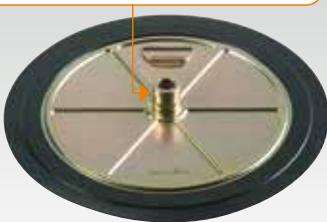
Art. 66400 Follower plate ø 400 mm (drum internal ø 360 - 400 mm)

Art. 66590 Follower plate ø 585 mm (drum internal ø 540 - 580 mm)

ø Follower plate



**Union ø 45 mm**



## Follower plate for pumps series 900 - 1200 with suction tube ø 45

Art. 10/60 Follower plate ø 585 mm (drum internal ø 540 - 580 mm)

Art. 10/61 Follower plate ø 400 mm (drum internal ø 360 - 400 mm)

Art. 10/62 Follower plate ø 370 mm (drum internal ø 335 - 360 mm)

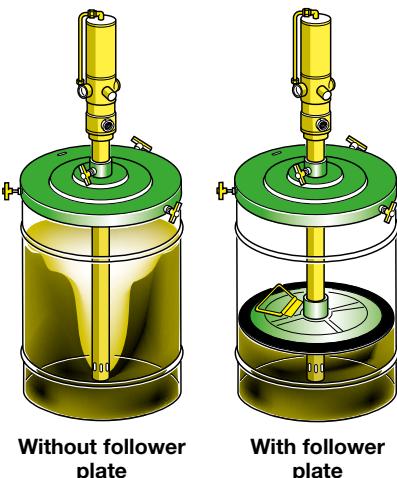
Art. 10/63 Follower plate ø 310 mm (drum internal ø 255 - 300 mm)

ø Follower plate



The follower plate is always recommended but becomes indispensable when using particularly hard greases. The follower plate is pulled towards the bottom of the drum by the vacuum created by the pump and always ensures the following advantages:

- it compresses the grease, preventing air pockets from forming and possible cavitation of the pump
- it keeps the grease clean, as well as preserving its characteristics
- it enables collection of all the grease from the bottom of the drum, that would otherwise remain stuck to the sides



## Details and advantages

The atmospheric pressure at sea-level is 1 bar, equivalent to approx. 1 kg per cm<sup>2</sup>. When the pump sucks the grease from the container, a vacuum is created under the follower plate and, at the same time, depending on the width of its surface, a pressure from 370 kg to 2000 kg is created above it.

Pump

Drum cover

Follower plate

Vacuum created by pump sucking the grease



**Union ø 30 mm**



## Drum cover for pumps series 600 - 700 with suction tube ø 30

Art. 65280 Drum cover ø 280 mm (drums external ø 240 - 280 mm)

Art. 65310 Drum cover ø 310 mm (drums external ø 260 - 300 mm)

Art. 65350 Drum cover ø 350 mm (drums external ø 300 - 350 mm)

Art. 65385 Drum cover ø 385 mm (drums external ø 340 - 385 mm)

Art. 65420 Drum cover ø 420 mm (drums external ø 370 - 420 mm)

Art. 65600 Drum cover ø 600 mm (drums external ø 550 - 600 mm)



**Union ø 45 mm**



## Drum cover for pumps series 900 - 1200 with suction tube ø 45

Art. 10/50 Drum cover ø 600 mm (drums external ø 550 - 600 mm)

Art. 10/51 Drum cover ø 420 mm (drums external ø 370 - 420 mm)

Art. 10/52 Drum cover ø 385 mm (drums external ø 340 - 385 mm)





# Accessories for grease pumps

**Union ø 25 - 30 - 38 mm**

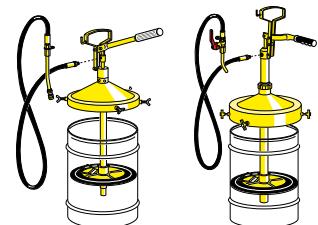


**Drum cover for manual pumps with suction tube ø 25 - 30 - 38**

Art. 65309 **Drum cover ø 337 mm**  
(drums external ø 270 - 330 mm) for Art. 60311 (suction tube ø 25 mm)

Art. 65311 **Drum cover ø 337 mm**  
(drums external ø 270 - 330 mm) for Art. 60411 (suction tube ø 38 mm)

Art. 65312 **Drum cover ø 337 mm**  
(drums external ø 270 - 330 mm) for pumps with ø 30 mm suction tube



Art. 66891 **Nipple M 1/4"G x M 1/4"G** tapered/cylindrical thread  
Art. 66892 **Nipple M 1/4"G x M 3/8"G** cylindrical/cylindrical thread  
Art. 66893 **Nipple M 1/4"G x M 1/2"G** cylindrical/cylindrical thread



Art. 66895 **Nipple M 3/8"G x F 1/4"NPT**  
Art. 66896 **Nipple M 1/4"G x F 1/4"NPT**  
Art. 66897 **Nipple F 1/4"G x M 1/4"NPT**



Art. 60450 **Female quick connector**  
complete with check valve -  
F 1/4"G max pressure 350 bar

\* articles not manufactured by us



Art. 60451 **Male quick connector**  
complete with check valve -  
F 1/4"G max pressure 350 bar

\* articles not manufactured by us



Art. 66661 **Straight single swivel joint**  
M/F 1/4" G supplied with grease  
guns Art. 66888 - Art. 66881



Art. 66663 **Triple swivel joint**  
M/F 1/4" G supplied with grease  
guns Art. 66889 - Art. 66882



Art. 66599 **Handle for portable grease kit**  
supplied with grease kits Art. 64020 -  
Art. 64021 - Art. 64030 - Art. 64031



Art. 66739 **4-jaw grease coupler**  
with antisplash valve fitted standard  
on manual grease pumps. Inlet M10x1  
Art. 66740 **Special 4-jaw grease  
coupler** with antisplash valve fitted  
standard on all grease guns. Inlet M10x1



Art. 66741 **90° grease coupler.**  
Inlet thread M10x1



Art. 66742 **Hooking grease coupler hexagon**  
15 mm - round 16 mm coupler.  
Inlet thread M10x1



Art. 66743 **Push-on grease hexagon**  
15 mm - round 16 mm coupler.  
Inlet thread M10x1

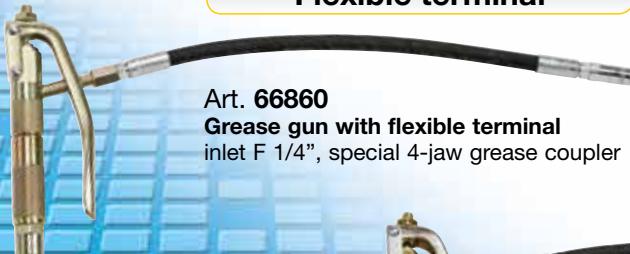


Art. 993.201 **Hose M/F 1/4" - 1 m - 20 bar**  
Art. 993.202 **Hose M/F 1/4" - 2 m - 20 bar**  
Art. 993.504 **Hose M/F 1/4" - 4 m - 400 bar**  
Art. 993.512 **Hose M/F 1/4" - 12 m - 400 bar**  
Art. 993.518 **Hose M/F 1/4" - 18 m - 400 bar**  
Art. 995.701 **Hose M/F 3/8" - 1 m - 400 bar**  
Art. 995.702 **Hose M/F 3/8" - 2 m - 400 bar**  
Art. 995.710 **Hose F 3/8" x M 1/4" - 10 m - 400 bar**  
Art. 995.715 **Hose F 3/8" x M 1/4" - 15 m - 400 bar**



# Grease guns

## Flexible terminal



**Art. 66860**  
Grease gun with flexible terminal  
inlet F 1/4", special 4-jaw grease coupler



**Art. 66888**  
Grease gun with flexible terminal  
inlet F 1/4", Art. 66661 single swivel joint  
special 4-jaw grease coupler

## Without terminal



**Art. 66855**  
Grease gun  
valve inlet F 1/4"



**Art. 66889**  
Grease gun with flexible terminal  
inlet F 1/4", Art. 66663 triple swivel joint  
special 4-jaw grease coupler

## Rigid terminal



**Art. 66880**  
Grease gun with rigid terminal  
inlet F 1/4", with special 4-jaw  
grease coupler



**Art. 66881**  
Grease gun with rigid terminal  
inlet F 1/4", Art. 66661 single swivel joint  
with special 4-jaw grease coupler

**Art. 66882**  
Grease gun with rigid terminal  
inlet F 1/4", Art. 66663 triple swivel joint  
with special 4-jaw grease coupler



**Art. 66856**  
Flexible terminal with special 4-jaw grease coupler



**Art. 66857**  
Rigid terminal with special 4-jaw grease coupler



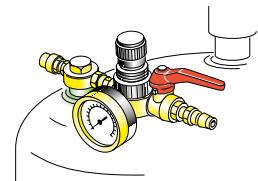
## Accessories for grease pumps

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### Art. 37801

**Pressure regulator with pressure gauge,** connections M/F 1/4" G. Applied on a pump or on the tank of a suction/drainer, for regulating the compressed air inlet pressure



### Art. 37814

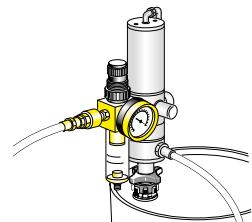
**Pressure regulator with pressure gauge,** connections M/F 1/2" G. Applied on a pump or on the tank of a suction/drainer, for regulating the compressed air inlet pressure

\*



### Art. 37810

**Pressure regulator with condensate discharge filter and pressure gauge,** connections F/F 1/4" G for application at the start of the compressed air line feeding the pump



### Art. 37815

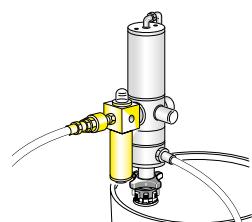
**Pressure regulator with condensate discharge filter and pressure gauge,** connections F/F 1/2" G for application at the start of the compressed air line feeding the pump

\*



### Art. 37811

**Air lubricator,** connections F/F 1/4" G. Its application guarantees better efficiency of the pump over time

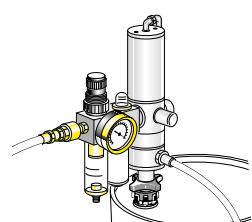


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### Art. 37812

**Pressure regulator with condensate discharge filter, air lubricator and pressure gauge.** Connections F/F 1/4" G the system guarantees that the pump feed air is free of condensate



### Art. 37817

**Pressure regulator with condensate discharge filter, air lubricator and pressure gauge.** Connections F/F 1/2" G the system guarantees that the pump feed air is free of condensate

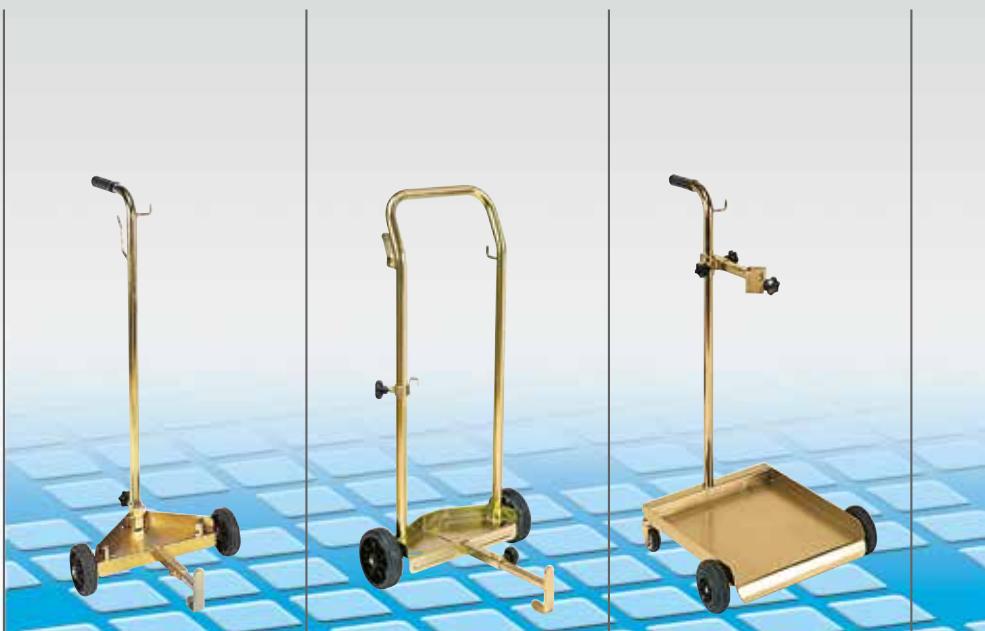
\* articles not manufactured by us



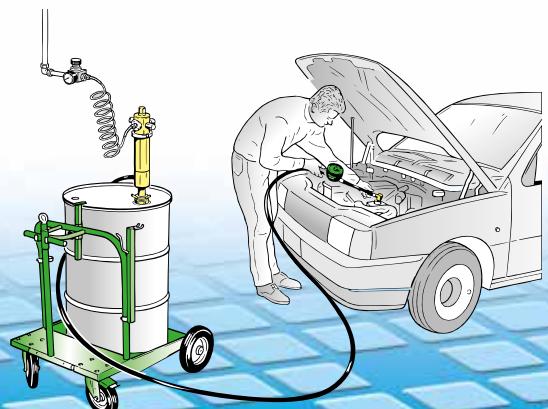
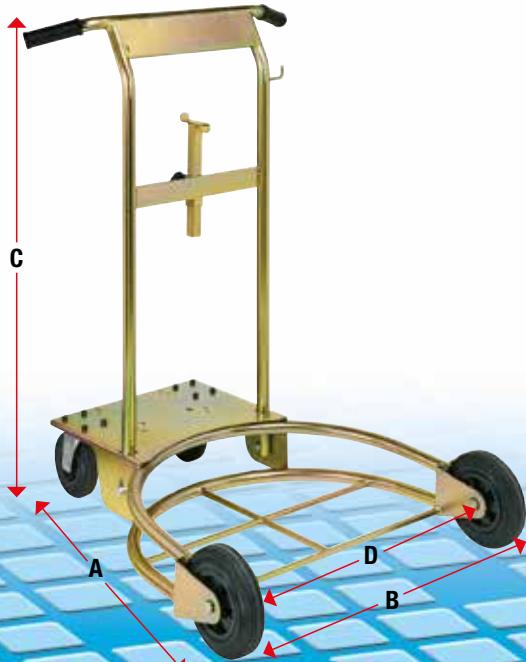
# MODULAR Trolleys

for drums 20 - 60 kg

**Modular trolleys**, entirely galvanised, suitable for handling 20 - 220 kg drums. Equipped with 2 or 4 high fluency wheels that make them very easy to handle. Their compact size ensures perfect integration in the workplace and their modularity enables compact packing for easy storage.



Article	80035	80040	80050
<b>Suitable for drums</b>	<b>20 - 60</b>	<b>20 - 60</b>	<b>20 - 60</b>
Packing	1 - 0,010	1 - 0,010	1 - 0,020
Weight	5	6	9,2
For drums with max external (D) cm	39	44	39,5
Dimensions (A - B - C) cm	44 - 39,5 - 99,5	43 - 47,5 - 99	46 - 50 - 99
Packing dimensions			
Modular structure			



for drums 180 - 220 kg



**80200**

**180 - 220**

1 - 0,060

21,9

61,5

67 - 77 - 87



**80201**

**180 - 220**

1 - 0,100

45,9

61,5

93 - 81 - 103



**80210**

**180 - 220**

1 - 0,18

26,2

61,5

90 - 77 - 115



**80215**

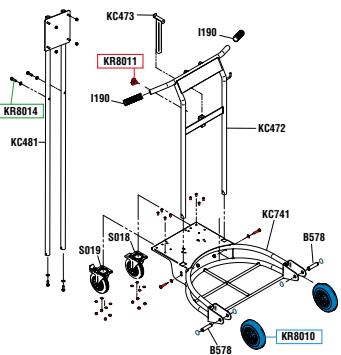
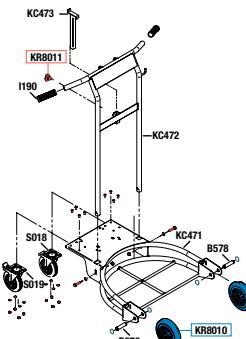
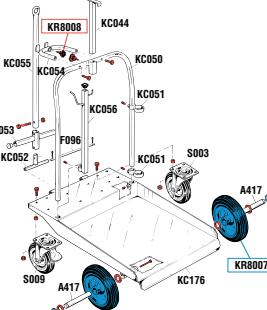
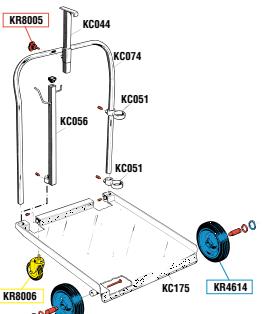
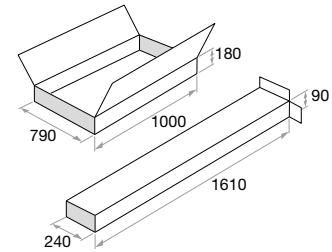
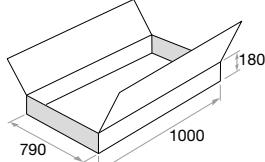
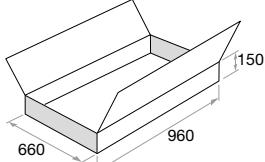
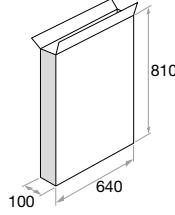
**180 - 220**

2 - 0,028

44

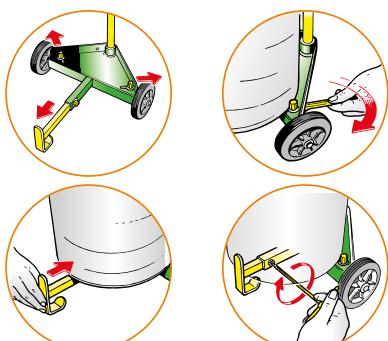
61,5

90 - 77 - 176



### Technical features Designed to complete our articles such as oil and grease kits

**Art. 80035 - Art. 80040**



**Art. 80200 - Art. 80201  
Art. 80210**



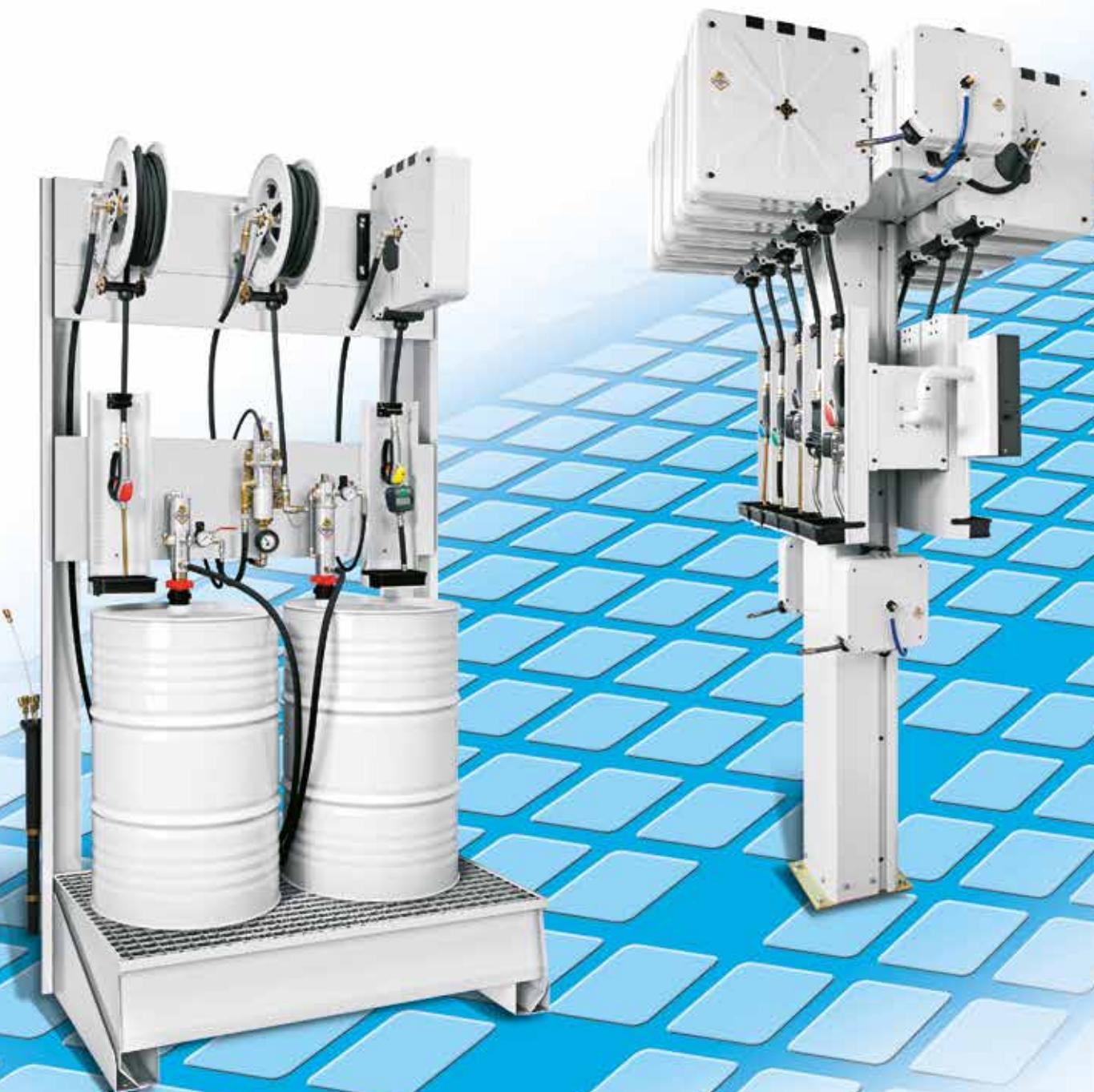
**Art. 80215**

Pump,  
hose reel  
and oil gun  
**not included**

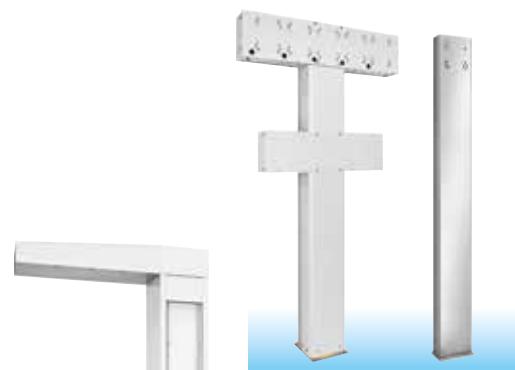




# FLUIDS AND LUBRICATION EQUIPMENT



# Service columns



FRONTAL SERVICE COLUMNS

page 134



BILATERAL SERVICE COLUMNS

page 136

6

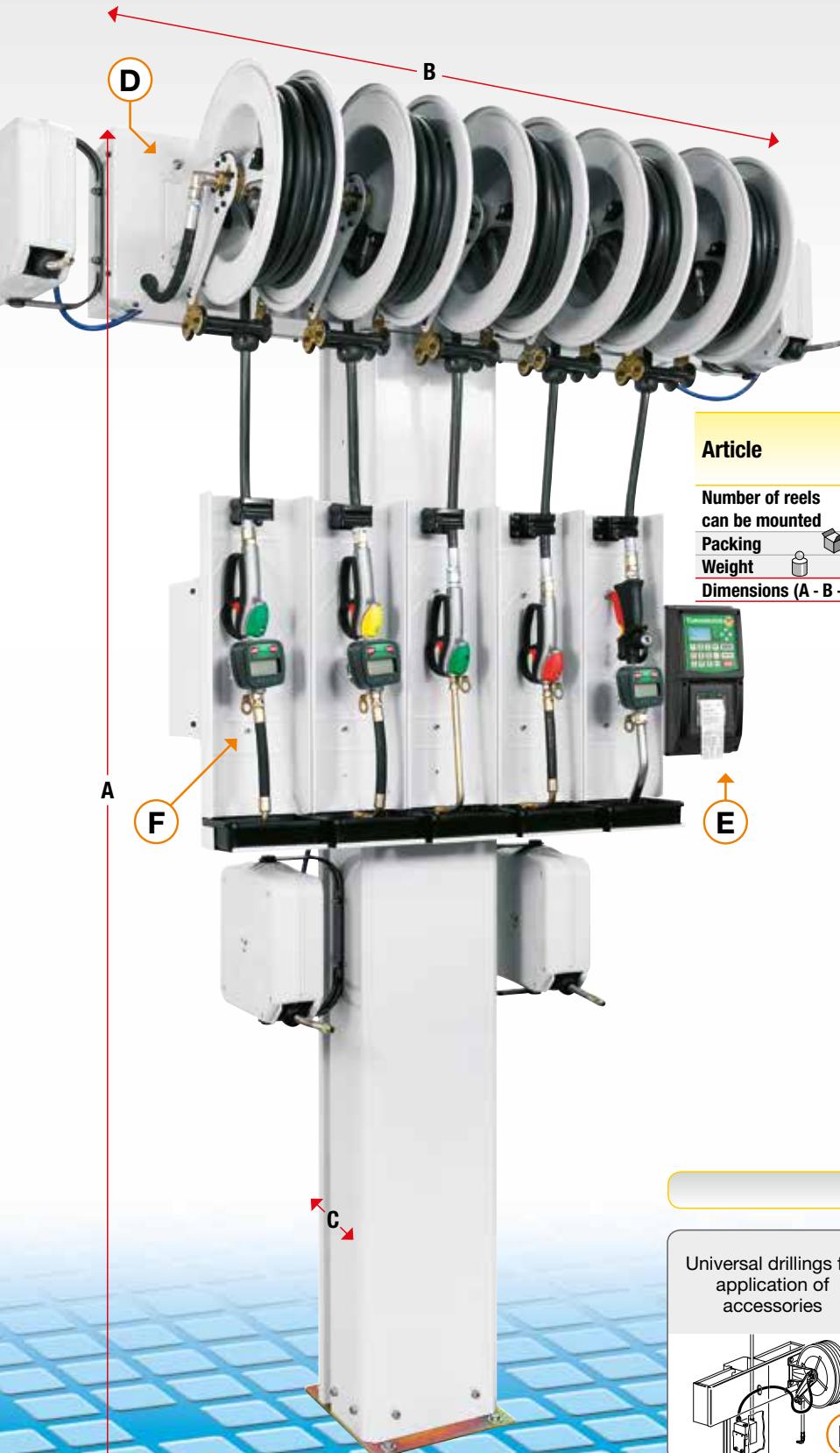
FRONTAL/BILATERAL SERVICE COLUMNS

page 138



# FRONTAL service columns

**Frontal service columns.** Ideal service stations for rationalising the areas dedicated to delivery. Installable on walls, connected to the centralised distribution system, they are real independent operational stations. Made from top quality materials, with scratchproof painting.

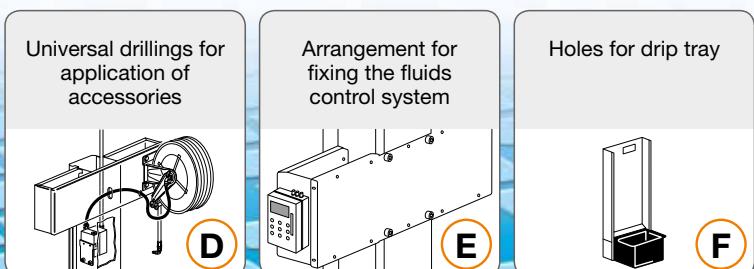


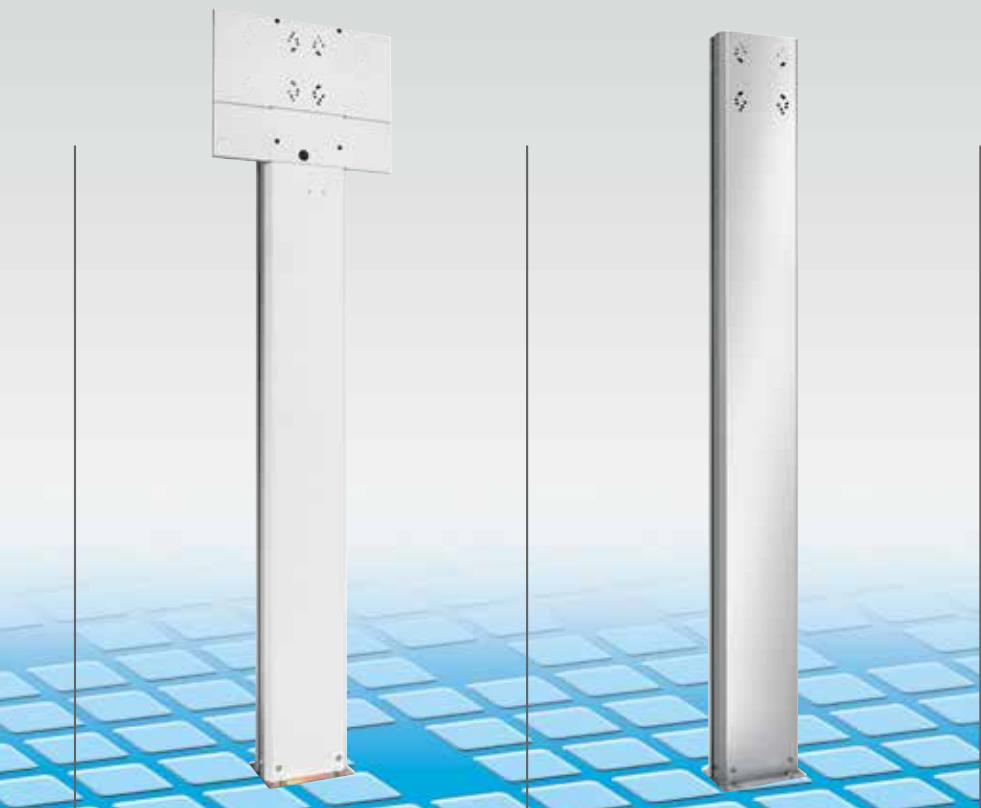
Article	39323	39334	39335
Number of reels can be mounted	3	4	5
Packing	1 - 0,265 N° - m <sup>3</sup>	1 - 0,460	1 - 0,460
Weight	54,5 kg	84,5	91
Dimensions (A - B - C)	245 - 86 - 13 cm	251 - 110 - 24	251 - 134 - 24

**Art. 88630**  
**Modular drip-tray.**  
Equipped with hook for gun and removable drip-tray.  
Applied under the hose reel, it is a handy holder for the delivery gun.  
Essential for a clean and orderly workplace.



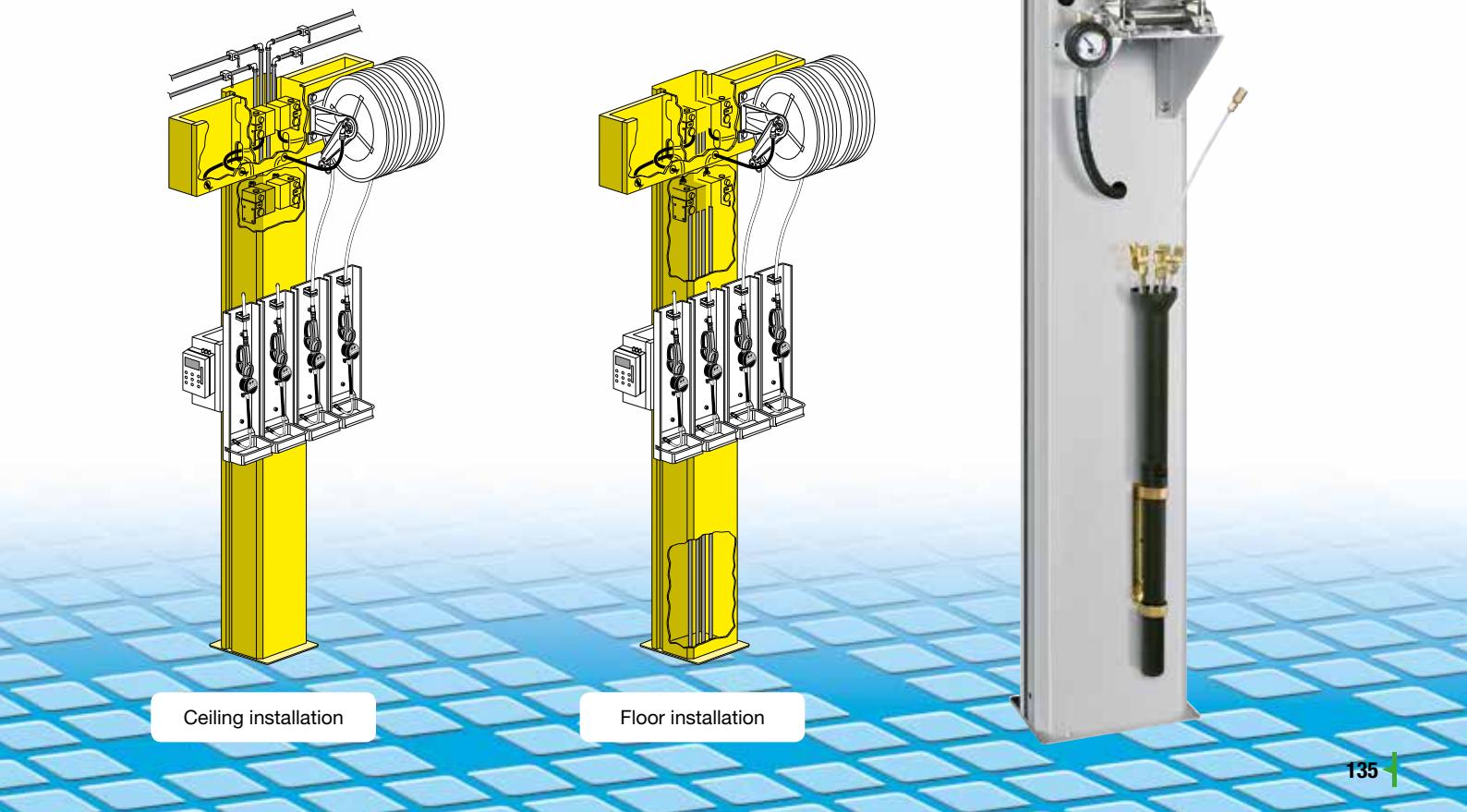
## Details and advantages





<b>39322</b>	<b>39422 AISI 304 S. Steel</b>	<b>39320 for suction</b>	<b>39321</b>	<b>39421 AISI 304 S. Steel</b>
2	2	1	1	1
1 - 0,265 48,5	1 - 0,265 44	1 - 0,265 41	1 - 0,265 42	1 - 0,265 37
245 - 62 - 13	245 - 62 - 13	245 - 29 - 12,5	245 - 29 - 12,5	245 - 29 - 12,5

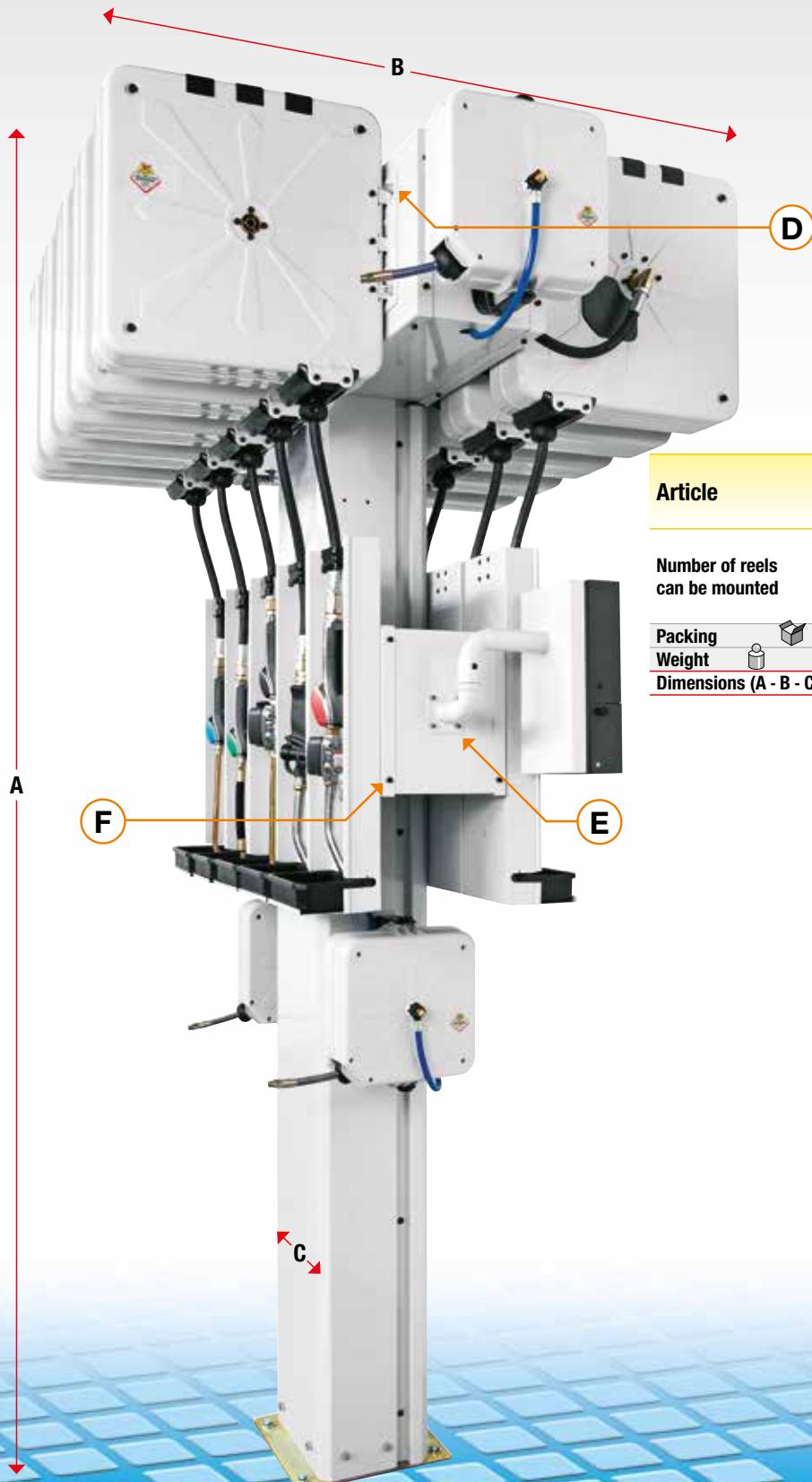
The upper part of the support is arranged with holes for the application of hose reels series 330 - 390 - 430 - 450 - 530 and solenoid valves for stopping the fluid. The drip-tray can be applied frontally.





# BILATERAL service columns

**Bilateral service columns, usable from both sides for access.** Installable anywhere in the workplace, connected to the centralised distribution system, they are real independent operational stations. Made from top quality materials, with scratchproof painting, and full width drip trays.

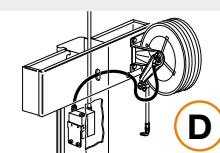


Article	39336	39338	39340
Number of reels can be mounted	3 + 3 + (4 hose reels S. 250 - 260 280 - 300)	4 + 4 + (4 hose reels S. 250 - 260 280 - 300)	5 + 5 + (4 hose reels S. 250 - 260 280 - 300)
Packing  N° - m³	1 - 0,460	1 - 0,460	1 - 0,460
Weight  kg	86	94	101
Dimensions (A - B - C) cm	251 - 86 - 24	251 - 110 - 24	251 - 134 - 24

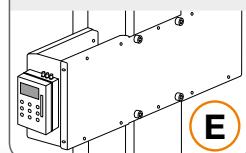
The upper part of the support is arranged with holes for the application of hose reels series 330 - 390 - 430 - 450 - 530 and solenoid valves for stopping the fluid. The drip-tray can be applied frontally.

## Details and advantages

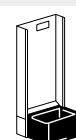
Universal drillings for application of accessories



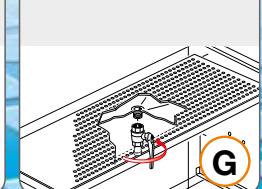
Arrangement for fixing the fluids control system

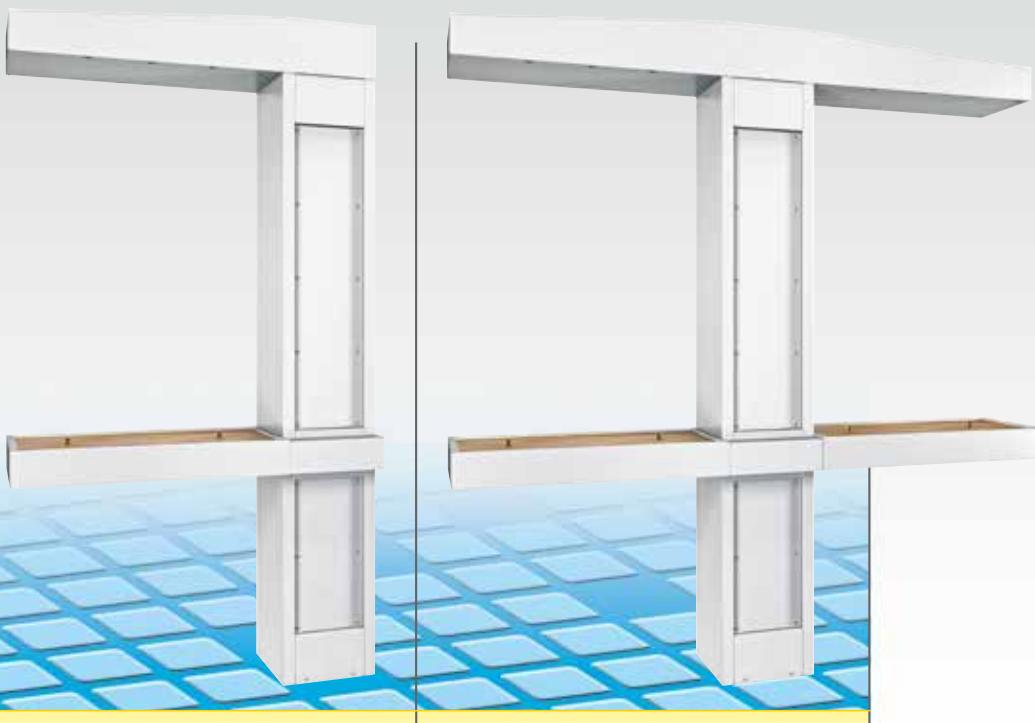


Holes for drip tray



Drip-tray





**Art. 88630**  
**Modular drip-tray.**  
 Equipped with  
 hook for gun and  
 removable  
 drip-tray.  
 Applied under  
 the hose reel,  
 it is a handy  
 holder for the  
 delivery gun.  
 Essential for  
 a clean and  
 orderly  
 workplace.



**39324**

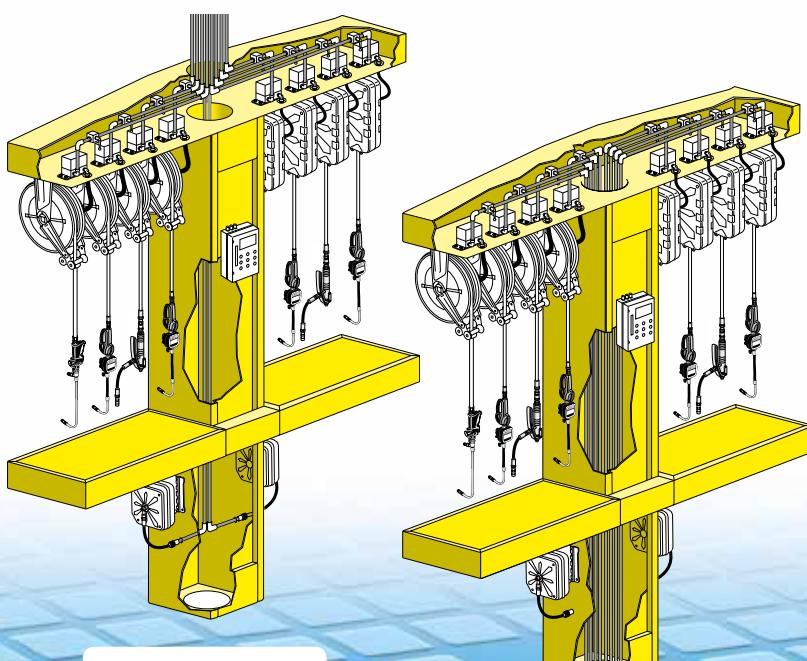
4 + (2 hose reels  
 S. 250 - 260 - 280 - 300)

1 - 1,035  
 228  
 268,5 - 145,2 - 50,5

**39328**

8 + (2 hose reels  
 S. 250 - 260 - 280 - 300)

1 - 1,035  
 276  
 268,5 - 250,3 - 50,5



Ceiling installation

Floor installation

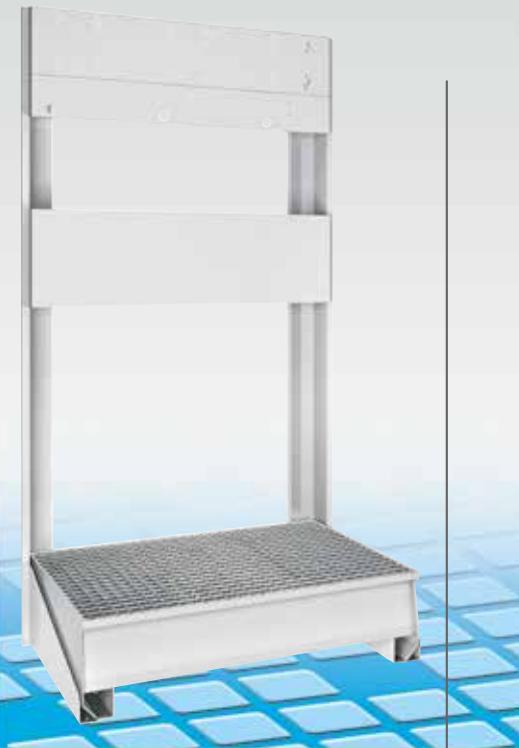




# FRONTAL/BILATERAL service columns

## Frontal, bilateral service colum or with containment tank.

Ideal service stations for rationalising the areas dedicated to delivery. Able to collect any leaks or accidental spills, by means of the containment tanks, in compliance with the new regulations. Installable on walls, they are real independent operational stations. Made from top quality materials, with scratchproof painting.



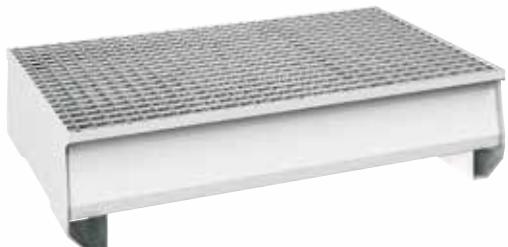
Article	39351	39352
Number of reels can be mounted	2 hose reels + 1 drum 180-220 kg	3 hose reels + 2 drums 180-220 kg
Packing N° - m <sup>3</sup>	2 - 1,080	2 - 1,120
Weight kg	161	183,5
Dimensions (A - B - C) cm	260 - 110 - 89,5	260 - 145 - 89,5

**Art. 39901**  
Containment tank 1 drum 180 - 220 kg (capacity 197 litre)

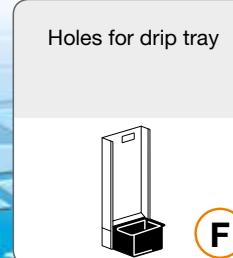
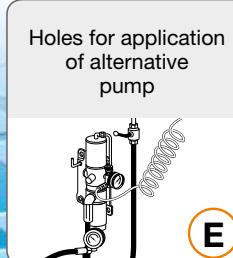
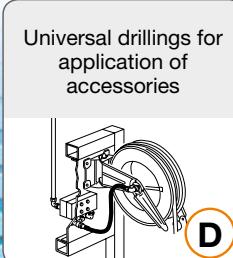
N°1 packing m<sup>3</sup> 0,525 kg 51

**Art. 39902**  
Containment tank 2 drum 180 - 220 kg (capacity 266 litre)

N°1 packing m<sup>3</sup> 0,670 kg 64,5



## Details and advantages



## Accessories for Art. 39314 - 39317



**39304**

**39307**

**39314**

**39317**

4

6

4 + (2 hose reels  
S. 250 - 260 - 280 - 300)

6 + (2 hose reels  
S. 250 - 260 - 280 - 300)

1 - 0,520

1 - 0,650

1 - 0,770

1 - 1,245

136

166

265

305

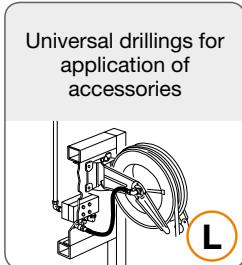
234 - 107 - 48,5

234 - 155 - 48,5

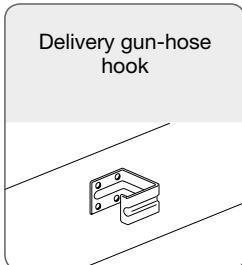
264 - 129 - 60

264 - 177 - 60

### Details and advantages



Delivery gun-hose hook



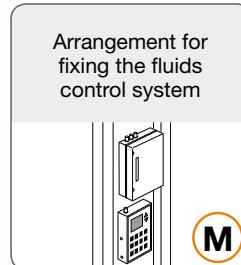
Drip-tray



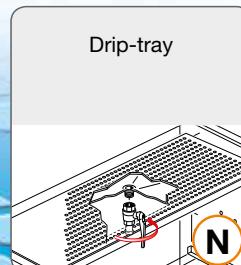
### Details and advantages



Arrangement for fixing the fluids control system



Drip-tray



**Art. 39405**  
**PC holder for service columns**

N°1 packing m<sup>3</sup> 0,019

kg 3,6



**Art. 39406**  
**Paper holder for service columns**

N°1 packing m<sup>3</sup> 0,044

kg 3,3



**Art. 39407**  
**Basket for service columns**

N°1 packing m<sup>3</sup> 0,044

kg 3,9





## RAASM HOSE REELS

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FLUIDS AND LUBRICATION EQUIPMENT



## INDUSTRIAL HOSE REELS



# Index hose reels

INTRODUCTION, ADVANTAGES AND CHOOSING A HOSE REELS

page 144

ENCLOSED IN SHOCK RESISTANT TECHNOPOLIMER SERIES 260



AIR-WATER 20 BAR

page 148

OPEN - HOSE POLYURETHANE



AIR-WATER 20 BAR

page 149

ENCLOSED IN PAINTED STEEL SERIES 450 - 440



AIR-WATER 20 BAR

page 150

OIL AND SIMILAR PRODUCTS 150 BAR

page 150

GREASE 400 BAR

page 150

ENCLOSED AND OPEN WITH DRUM IN ABS SHOCK PROOF



AIR-WATER 20 BAR

page 151

WATER MAX 130 °C 100 BAR

page 151

WATER MAX 130 °C 200 BAR

page 151

OIL AND SIMILAR PRODUCTS 150 BAR

page 151

GREASE 400 BAR

page 151

OPEN - AIR-WATER - PAINTED OR STAINLESS STEEL



AIR-WATER 20 BAR

page 154

WATER MAX 130 °C 100 BAR

page 156

WATER MAX 130 °C 200 BAR

page 158

WATER MAX 130 °C 400 BAR

page 160

OPEN - STAINLESS STEEL AISI 304



WATER MAX 130 °C 100 BAR

page 162

WATER MAX 130 °C 200 BAR

page 162

WATER MAX 130 °C 400 BAR

page 162

OPEN - STAINLESS STEEL AISI 316



WATER MAX 130 °C 100 BAR

page 163

OPEN - OIL, GREASE AND ALLIED PRODUCTS - PAINTED OR STAINLESS STEEL



OIL AND SIMILAR PRODUCTS 150 BAR

page 164

GREASE 400 BAR

page 166

## OPEN - DIESEL FUEL AND ADBLUE® IN PAINTED OR STAINLESS STEEL



DIESEL FUEL 10 BAR

page 168

ADBLUE® 10 BAR

page 170

## OPEN - DOUBLE INLET AND OUTLET - PAINTED STEEL



AIR-WATER 20 BAR

page 171

OIL-WATER 200 BAR

page 171

OIL-PAINT 150 BAR

page 171

OIL 400 BAR

page 171

## OPEN - OXYACETYLENE WELDING AND LPG-METHANE - PAINTED STEEL



WELDING 20 BAR

page 172

LPG-METHANE 20 BAR

page 173

## PNEUMATIC OR HYDRAULIC MOTOR OPERATED INDUSTRIAL SERIES - PAINTED STEEL



AIR-WATER 20 BAR

page 174

WATER MAX 130 °C 100 BAR

page 174

OIL AND SIMILAR PRODUCTS 150 BAR

page 174

GREASE 400 BAR

page 174

DIESEL FUEL 10 BAR

page 174

## SERIES 500 - MANUAL - PAINTED STEEL



AIR-WATER 20 BAR

page 176

WATER MAX 130 °C 100 BAR

page 176

WATER MAX 130 °C 200 BAR

page 176

WATER MAX 130 °C 400 BAR

page 176

OIL AND SIMILAR PRODUCTS 150 BAR

page 176

DIESEL FUEL 10 BAR

page 176

## GROUNDING CABLE REELSz - PAINTED STEEL



GROUNDING CABLE REELS

page 177

## SERIES 700 MOTOR DRIVEN AND MANUAL OPERATED - PAINTED STEEL



SERIES 700 (CATALOGUE N. 220/700)

page 178

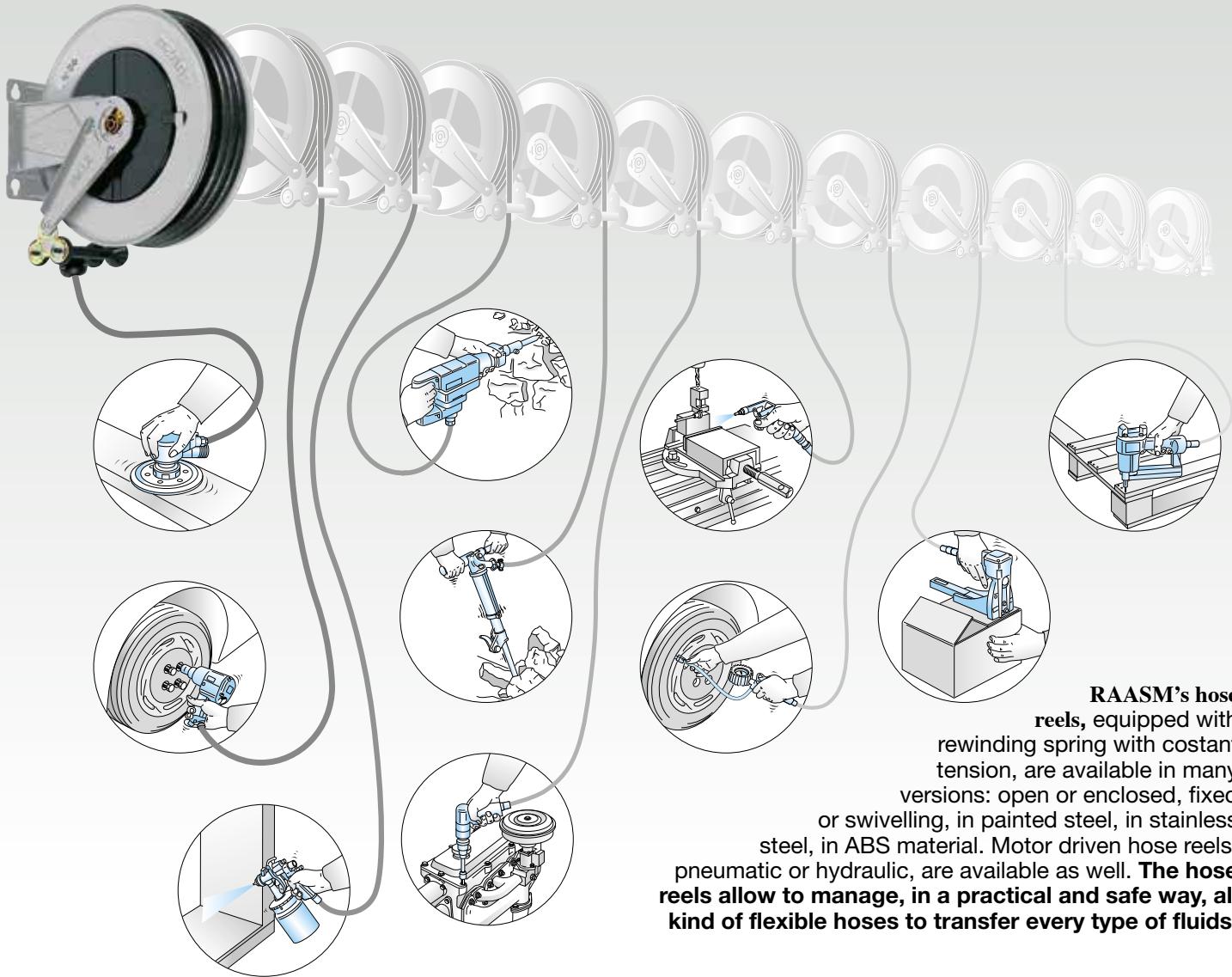


ACCESSORIES - HOSES

page 180



# RAASM introduces his wide range of hose reels



RAASM's hose reels, equipped with rewinding spring with constant tension, are available in many versions: open or enclosed, fixed or swivelling, in painted steel, in stainless steel, in ABS material. Motor driven hose reels, pneumatic or hydraulic, are available as well. **The hose reels allow to manage, in a practical and safe way, all kind of flexible hoses to transfer every type of fluids.**

## HOSE REELS ADVANTAGES



### NO ACCIDENT

The hose reels allows workers to operate in a safe workplace, using equipment always ready for use.



### NO BREAK

The hose reels safeguards against wear and possible breakage of the hoses themselves.



### NO DISORDER

With the hose reels, hose rewinding is quick and safe, for an orderly workplace.

# Choosing a hose reels

When choosing a hose reels, it is important to consider the following aspects:

TYPE OF FLUID TO BE DELIVERED	FLOWRATE IN L/MIN TO BE DELIVERED	LENGTH AND DIAMETER OF HOSE TO BE USED	PRESSURE OF FLUID
-------------------------------	-----------------------------------	--	-------------------

## TYPE OF FLUID TO BE DELIVERED AND PRESSURE OF FLUID

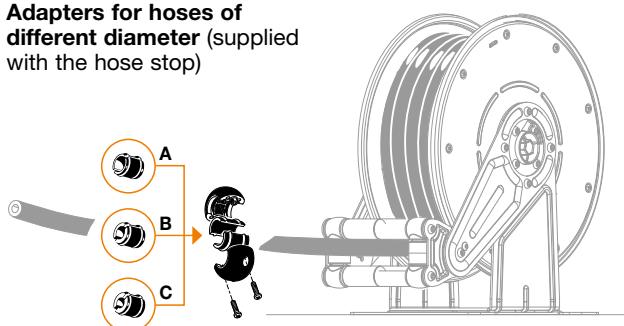
Air - Water <b>20 bar</b>	AdBlue® <b>10 bar</b>
Water max 130 °C <b>100 bar</b>	Air - Water <b>20 bar</b>
Water max 130 °C <b>200 bar</b>	Oil - Water <b>200 bar</b>
Water max 130 °C <b>400 bar</b>	Oil - Paint <b>150 bar</b>
Oil and similar products <b>150 bar</b>	Oil <b>400 bar</b>
Grease <b>400 bar</b>	Welding <b>20 bar</b>
Diesel fuel <b>10 bar</b>	LPG - methane <b>20 bar</b>

## HOSE LENGTH AND DIAMETER

external diameter of hose	HOSE REELS SERIES									
	290	330	380 - 390	420 - 430	440 - 450	520 - 530	540 - 550	560	617 - 618	637 - 638
ø 12 mm	max. length 16 m	max. length 18 m	max. length 22 m	-	-	-	-	-	-	-
ø 14 mm	max. length 14 m	max. length 16 m	max. length 20 m	-	-	-	-	-	-	-
ø 17 mm	max. length 10 m	max. length 12 m	max. length 18 m	max. length 21 m	max. length 21 m	max. length 28 m	-	-	-	-
ø 19,5 mm	-	-	-	max. length 16 m	max. length 16 m	max. length 26 m	-	-	-	-
ø 22 mm	-	-	-	max. length 14 m	max. length 14 m	max. length 24 m	max. length 30 m	max. length 60 m	max. length 50 m	max. length 100 m
ø 28 mm	-	-	-	-	-	-	max. length 22 m	max. length 40 m	max. length 30 m	max. length 60 m
ø 34 mm	-	-	-	-	-	-	max. length 17 m	max. length 30 m	max. length 20 m	max. length 40 m
ø 44 mm	-	-	-	-	-	-	-	-	max. length 15 m	max. length 30 m
ø 50 mm	-	-	-	-	-	-	-	-	max. length 10 m	max. length 20 m
ø 13 + 13 mm	-	-	-	max. length 13 m	-	max. length 22 m	max. length 37 m	-	-	-
ø 15 + 15 mm	-	-	-	max. length 12 m	-	max. length 20 m	max. length 35 m	-	-	-
ø 16 + 16 mm	-	-	-	max. length 10 m	-	max. length 15 m	max. length 27 m	-	-	-

## HOSE STOP

Adapters for hoses of different diameter (supplied with the hose stop)



**Universal hose stop** comes with all hose reels supplied without hose, complete with adapters for using hoses of different diameter.

Article	Hose reels series	ø Reductions
KR7201	290 - 330 380 - 390	Painted - S. steel 12 - 14 - 16 mm
KR8104	420 - 430 - 440 450 - 520 - 530	Painted - S. steel 14 - 17 - 19 mm
KR8705	540 - 550 - 560	Painted - S. steel 14 - 17,5 - 21 28,5 - 30 - 34 mm
KR8907	420 - 520 - 540	Double hose 12 - 14 - 15 - 16 mm



# Technical characteristics

**Corrosion proof:** all the components are treated or painted for external use.  
**Easy to install anywhere:** on wall, floor, ceiling, vehicles, etc.

Automatic stopping system: allows hose to be locked at the required length

Rewinding spring

Fluid conveyance joint

Adjustable hose stop

The wall bracket with bayonet hooking is easy to mount and allows to remove quickly the hose reels when necessary

Self-lubricating hose guide rollers

Drum support bushings in self-lubricating material

Fluid conveyance joint

The easy to install adjustable bracket allows the hose reels to be removed for any maintenance

Rewinding spring

The trip enables automatic stopping at the required length

Adjustable hose stop

Self-lubricating hose guide rollers

Automatic stopping system: allows the hose to be locked at the required length

Drum support bushings in brass alloy, self-lubricating, effective and corrosion resistant

Adjustable arm: to favour hose extraction according to hose reel installation

Hose reels drum: sturdy and practical with ribbing and rounded edges

Self-lubricating hose guide rollers: wide multi-way opening

Fully enclosed and protected constant-force automatic rewinding spring

Adjustable hose stop

Fluid passage swivel joint in brass / carbon steel / s/steel / AISI 304 s/steel with polyurethane / Viton® / Teflon® seals



# Guide to reading the catalogue

**AIR / WATER - 20 bar PAINTED STEEL**

Article		Hose supplied
<b>FIXED</b>	8290.100 8290.101 8290.104	- - -
<b>SWIVELLING</b>	8330.100 8330.101	- -

**S. 290** **S. 330**

**Supplied with:**

- hoses in black synthetic
- galvanized steel fitting
- swivel in brass
- seals in "Viton®"

**Hose supplied**

- without hose
- 10m - 3/8" (995.210)
- 15m - 1/4" (993.215)
- without hose
- 12m - 3/8" (995.211)

**A** Stainless steel or painted this depends on the workplace (closed or open) and the type of hose reels use (protected or exposed to water sprays)

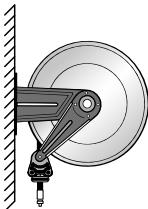
**B** Fixed or swivelling if the hose reels is used in a battery its operating range will be limited, therefore the fixed version is preferable. For uses requiring a greater operating range the swivelling version is recommended

**C** Open or enclosed the enclosed version is available only for the following fluids: air, oil and grease. The choice is up to the customer

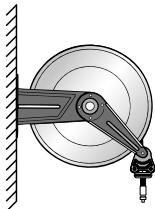
## HOSE REELS INSTALLATION

Example of installation: the adjustable arms can be easily repositioned according to needs

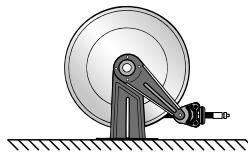
Standard installation



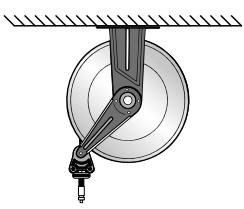
Wall installation



Bench installation



Ceiling installation



## ACCESSORIES FOR HOSE REELS

Art. 88650  
**Latch mechanism ABS protective cover**  
rack side for hose reels series 420 - 430

Art. 88651  
**Latch mechanism ABS protective cover**  
rack side for hose reels series 520 - 530  
540 - 550 - 560



Art. 88630  
**Modular drip-tray.**  
Equipped with hook for gun and removable drip-tray.  
Applied under the hose reels, it is a handy holder for the delivery gun.  
Essential for a clean and orderly workplace.





# AIR-WATER - 20 bar

Series 260



Series 260



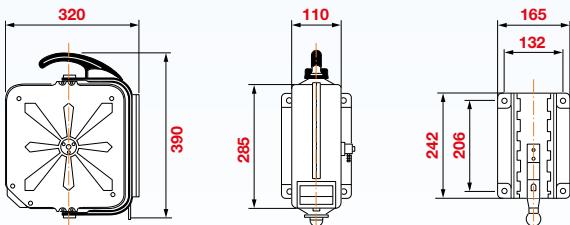
## SWIVELLING wall support with BAYONET hooking

Article	Hose supplied	Connection	
		inlet	outlet
89010	11m - 8x12 (971.111)	M1/4"G	M1/4"G
89011	11m - 6x10 (971.011)	M1/4"G	M1/4"G

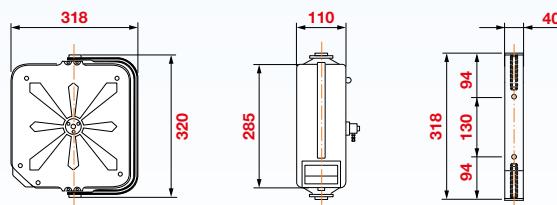
## SWIVELLING SIMPLE wall support

Article	Hose supplied	Connection	
		inlet	outlet
89109	11m - 8x12 (971.111)	M1/4"G	M1/4"G
89110	11m - 6x10 (971.011)	M1/4"G	M1/4"G

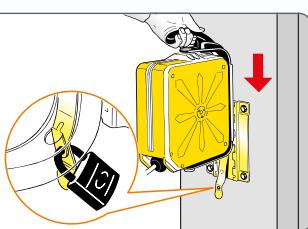
## OVERALL DIMENSIONS



## OVERALL DIMENSIONS



To prevent removal or theft of the hose reels, it can be secured with a bolt or padlock (not supplied).

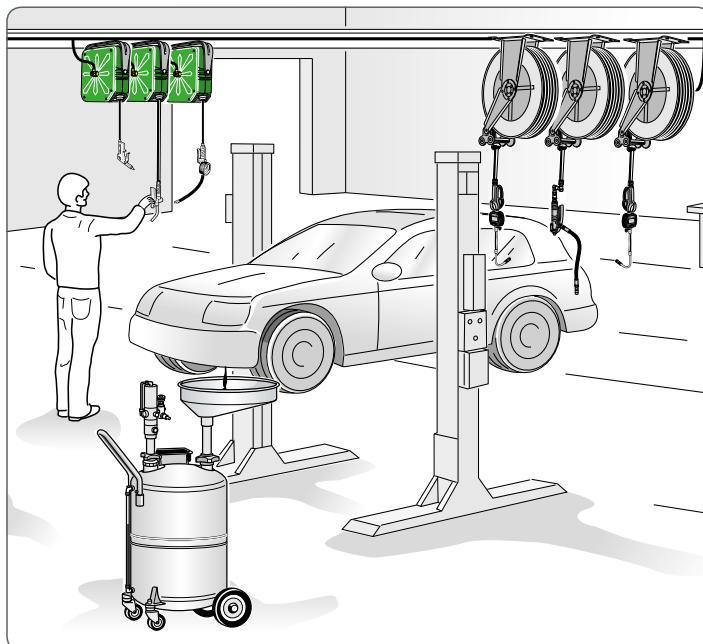


- Supplied with
- polyurethane hose
  - brass fitting
  - brass swivel joint
  - "Viton®" seals



Art. 89001

Series 260 hose reels are equipped with a **wall bracket with bayonet hooking**. The placing of several brackets in the service points allows the hose reels to be easily moved to the various workstations.





# AIR-WATER - 20 bar

## PAINTED STEEL

ATEX directive  
II 3 GD c X



### FIXED



#### Article

- 8288.100**
- 8288.102**
- 8288.103**
- 8288.104**
- 8288.105**

S. 288

Supplied with:

- polyurethane hose
- brass fitting
- brass swivel joint
- "Viton®" seals



#### Hose supplied

	Connection	
	inlet	outlet
without hose	M3/8"G	F3/8"G
13m - 10x14,5 (972.113)	M3/8"G	M3/8"G
15m - 8x12 (971.115)	M3/8"G	M1/4"G
10m - 6x10 (971.010)	M3/8"G	M1/4"G
15m - 6x10 (971.015)	M3/8"G	M1/4"G

- 8328.100**
- 8328.102**
- 8328.103**
- 8328.104**
- 8328.105**

S. 328

without hose	M3/8"G	F3/8"G
15m - 10x14,5 (972.115)	M3/8"G	M3/8"G
18m - 8x12 (971.118)	M3/8"G	M1/4"G
8m - 13x19 (976.108)	M1/2"G	M1/2"G
12m - 13x19 (976.112)	M1/2"G	M1/2"G

- 8378.100**
- 8378.102**
- 8378.103**
- 8378.104**
- 8378.105**

S. 378

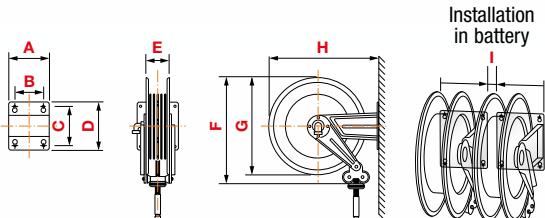
without hose	M3/8"G	F3/8"G
20m - 10x14,5 (972.120)	M3/8"G	M3/8"G
20m - 8x12 (971.120)	M3/8"G	M1/4"G
10m - 13x19 (976.110)	M1/2"G	M1/2"G
15m - 13x19 (976.114)	M1/2"G	M1/2"G

- 8430.100**
- 8438.101**
- 8438.102**

S. 438

without hose	F1/2"G	F1/2"G
10m - 13x19 (976.111)	F1/2"G	M1/2"G
15m - 13x19 (976.115)	F1/2"G	M1/2"G

### FIXED OVERALL DIMENSIONS

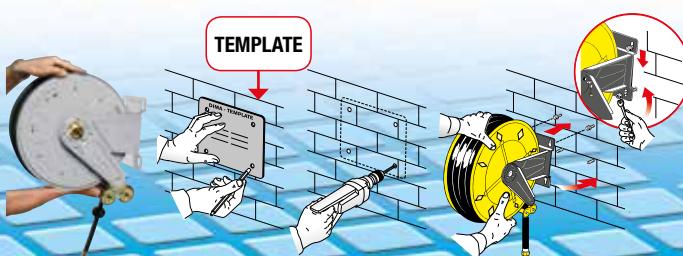


Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg*
<b>S. 288</b>	186	140	196	226	110	310	300	320	-	0,037	from 7 to 12
<b>S. 328</b>	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
<b>S. 378</b>	186	140	196	226	110	400	390	410	20	0,068	from 10 to 17
<b>S. 438</b>	186	140	196	226	115	450	420	460	20	0,098	from 14 to 21

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight revers to heaviest version which depends on hose length and diameter.

### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels. The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.





# ENCLOSED IN PAINTED STEEL

Series 450

Series 440



ATEX directive  
IIB 2 GD c T4 T135 °C X  
o II 3 GD c X (20 bar)



Supplied with:  
- hoses in black synthetic rubber  
- zinc plated steel couplings

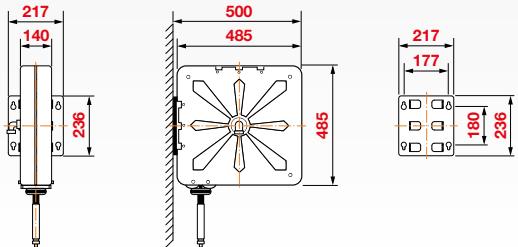
	FIXED support	SWIVELLING support
	Article	Article
Air - Water <b>20</b> bar - bras swivel joint - "Viton®" seals	8450.100	8440.100
	8450.101	8440.101
	8450.102	8440.102
	8450.103	8440.103
	8450.104	8440.104
Oil and similar products <b>150</b> bar - carbon steel swivel joint - "polyurethane" seals	8450.400	8440.400
	8450.401	8440.401
	8450.402	8440.402
Grease <b>400</b> bar - carbon steel swivel joint - "polyurethane" seals	8450.500 *	8440.500 *
	8450.501	8440.501
	8450.502	8440.502
	8450.505	8440.505
	8450.506	8440.506

\* 600 bar

\* 600 bar

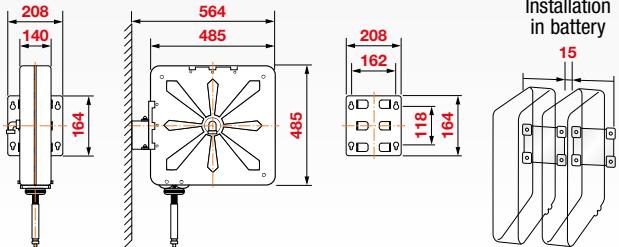
Hose supplied	Connection	
	inlet	outlet
without hose	F1/2"G	F1/2"G
12m - 3/8" (995.212)	F1/2"G	M3/8"G
18m - 3/8" (995.218)	F1/2"G	M3/8"G
10m - 1/2" (996.210)	F1/2"G	M1/2"G
15m - 1/2" (996.215)	F1/2"G	M1/2"G
without hose	F1/2"G	F1/2"G
10m - 1/2" (996.310)	F1/2"G	M1/2"G
15m - 1/2" (996.315)	F1/2"G	M1/2"G
without hose	F3/8"G	F1/2"G
12m - 1/4" (993.512)	F3/8"G	M1/4"G
18m - 1/4" (993.518)	F3/8"G	M1/4"G
10m - 3/8" (995.710)	F3/8"G	M1/4"G
15m - 3/8" (995.715)	F3/8"G	M1/4"G

## FIXED OVERALL DIMENSIONS



N°1 packing m³ 0,111 from 21 to 29 kg

## SWIVELLING OVERALL DIMENSIONS



N°1 packing m³ 0,111 from 22 to 30 kg

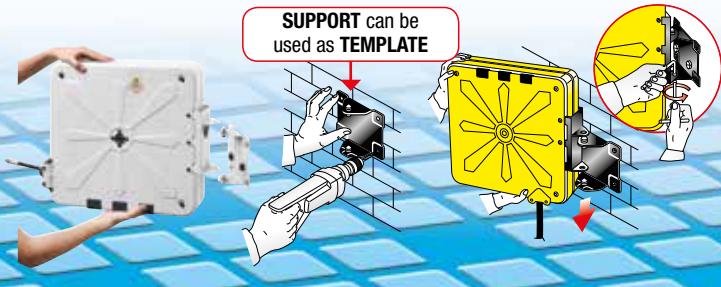
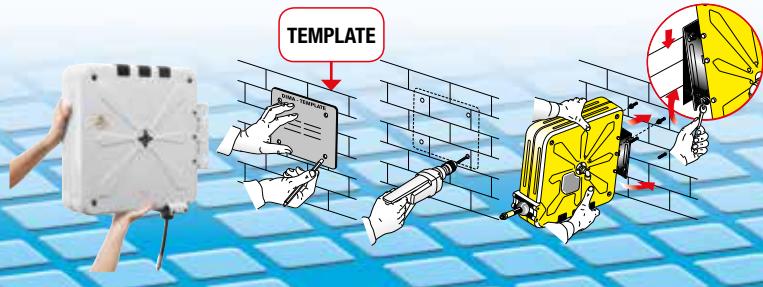
## FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

## SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reels installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# ENCLOSED IN PAINTED STEEL with ABS spool

ATEX directive  
II 3 GD c X

Series 450

cover in  
painted steel

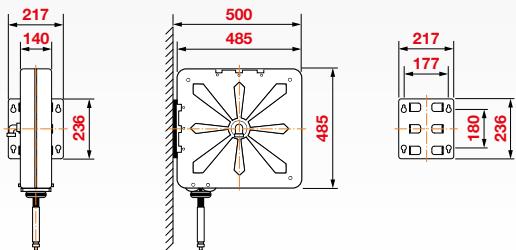


Supplied with:  
- hoses in black synthetic rubber  
- zinc plated steel couplings

	Hose supplied	Connection	
		inlet	outlet
Air - Water <b>20</b> bar - bras swivel joint - "Viton®" seals	9450.100	F1/2"G	F1/2"G
	9450.101	F1/2"G	M3/8"G
	9450.102	F1/2"G	M3/8"G
	9450.103	F1/2"G	M1/2"G
	9450.104	F1/2"G	M1/2"G
Oil and similar products <b>150</b> bar - carbon steel swivel joint - "polyurethane" seals	9450.400	F1/2"G	F1/2"G
	9450.401	F1/2"G	M1/2"G
	9450.402	F1/2"G	M1/2"G
Grease <b>400</b> bar - carbon steel swivel joint - "polyurethane" seals	9450.500 *	F3/8"G	F1/2"G
	9450.501	F3/8"G	M1/4"G
	9450.502	F3/8"G	M1/4"G
	9450.505	F3/8"G	M1/4"G
	9450.506	F3/8"G	M1/4"G

\* 600 bar

## FIXED OVERALL DIMENSIONS

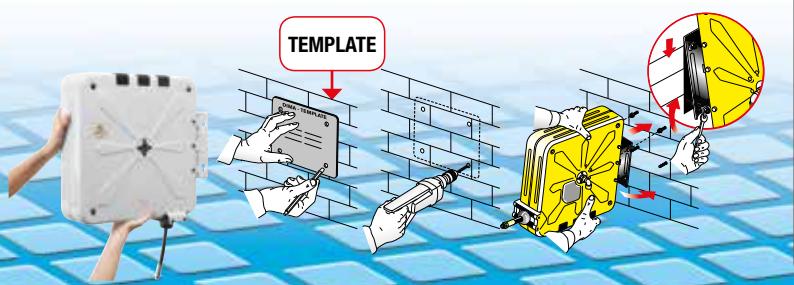


N°1 packing m³ 0,111 from 20 to 29 kg

## FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

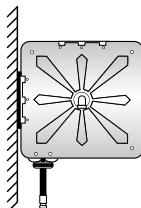
The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.



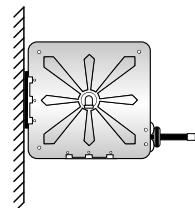
## HOSE REELS INSTALLATION

Example of installation: the hose reels can be easily repositioned according to needs

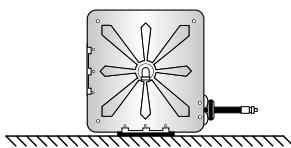
### Standard installation



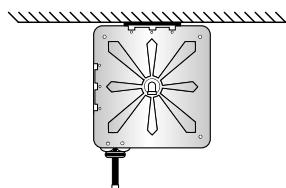
### Wall installation



### Bench installation



### Ceiling installation





# PAINTED STEEL with ABS drum

Series 430

painted steel bracket

ATEX directive  
II 3 GD c X



Supplied with:  
 - hoses in black synthetic rubber  
 - zinc plated steel couplings



## FIXED support

### Article

9430.100  
9430.101  
9430.102  
9430.103  
9430.104

### Air - Water **20** bar

- bras swivel joint
- "Viton®" seals

### Water max 130 °C **100** bar

- AISI 304 stainless steel swivel joint
- "Viton®" seals

### Water max 130 °C **200** bar

- AISI 304 stainless steel swivel joint
- "Viton®" seals

### Oil and similar products **150** bar

- carbon steel swivel joint
- "polyurethane" seals

### Grease **400** bar

- carbon steel swivel joint
- "polyurethane" seals

9430.200  
9430.201  
9430.202  
hygienic hose 9431.202

9430.300  
9430.301  
9430.302  
hygienic hose 9431.302

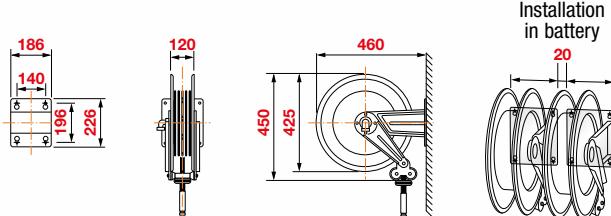
9430.400  
9430.401  
9430.402

9430.500 \*  
9430.501  
9430.502  
9430.505  
9430.506

\* 600 bar

Hose supplied	Connection	
	inlet	outlet
without hose	F1/2"G	F1/2"G
12m - 3/8" (995.212)	F1/2"G	M3/8"G
18m - 3/8" (995.218)	F1/2"G	M3/8"G
10m - 1/2" (996.210)	F1/2"G	M1/2"G
15m - 1/2" (996.215)	F1/2"G	M1/2"G
without hose	F1/2"G	F1/2"G
10m - 1/2" (996.311)	F1/2"G	M1/2"G
15m - 1/2" (996.316)	F1/2"G	M1/2"G
15m - 1/2" (996.415)	F1/2"G	M1/2"G
without hose	F3/8"G	F1/2"G
12m - 3/8" (995.512)	F3/8"G	F3/8"G
18m - 3/8" (995.518)	F3/8"G	F3/8"G
18m - 3/8" (995.618)	F3/8"G	F3/8"G
without hose	F1/2"G	F1/2"G
10m - 1/2" (996.310)	F1/2"G	M1/2"G
15m - 1/2" (996.315)	F1/2"G	M1/2"G
without hose	F3/8"G	F1/2"G
12m - 1/4" (993.512)	F3/8"G	M1/4"G
18m - 1/4" (993.518)	F3/8"G	M1/4"G
10m - 3/8" (995.710)	F3/8"G	M1/4"G
15m - 3/8" (995.715)	F3/8"G	M1/4"G

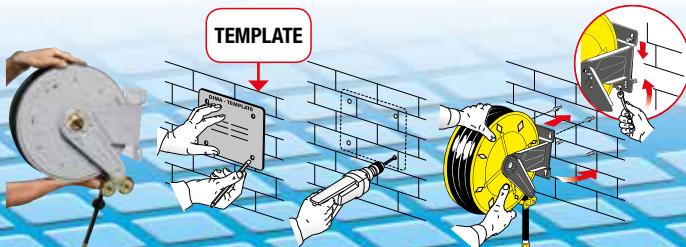
## FIXED OVERALL DIMENSIONS



N°1 packing m³ 0,098 from 14 to 24 kg

## FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.  
 The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.





# STAINLESS STEEL with ABS drum

Series 430

AISI 304 stainless steel bracket

ATEX directive  
II 3 GD c X



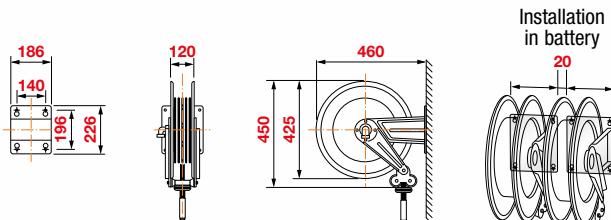
Supplied with:  
- hoses in black synthetic rubber  
- zinc plated steel couplings



	FIXED support	Connection	
	Article	inlet	outlet
Air - Water <b>20 bar</b> - bras swivel joint - "Viton®" seals	9432.100 9432.101 9432.102 9432.103 9432.104		
Water max 130 °C <b>100 bar</b> - AISI 304 stainless steel swivel joint - "Viton®" seals	9434.200 9432.201 9432.202 hygienic hose 9433.202		
Water max 130 °C <b>200 bar</b> - AISI 304 stainless steel swivel joint - "Viton®" seals	9434.300 9432.301 9432.302 hygienic hose 9433.302		
Oil and similar products <b>150 bar</b> - AISI 304 stainless steel swivel joint - "Viton®" seals	9434.200 9432.401 9432.402		
Grease <b>400 bar</b> - carbon steel swivel joint - "polyurethane" seals	9432.500 * 9432.501 9432.502 9432.505 9432.506		

\* 600 bar

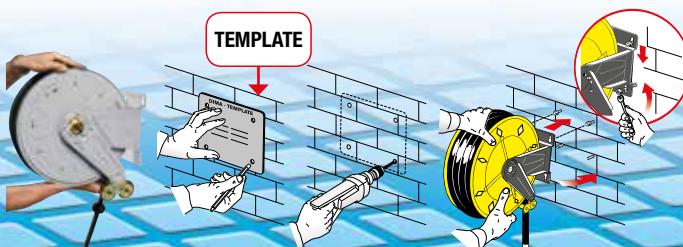
## FIXED OVERALL DIMENSIONS



N°1 packing m³ 0,098 from 14 to 24 kg

## FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.  
The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.





# **AIR-WATER - 20 bar**

## **PAINTED STEEL**



**ATEX directive  
II 3 GD c X**

<b>FIXED</b>	
	
<b>Article</b>	
<b>S. 290</b>	8290.100
	8290.101
	8290.104
<b>S. 330</b>	8330.100
	8330.101
<b>S. 390</b>	8390.100
	8390.102
<b>S. 430</b>	8430.100
	8430.101
	8430.102
	8430.103
	8430.104
<b>S. 530</b>	8530.100
	8530.101
	8530.102
<b>S. 540</b>	8540.100
	8540.101
	8540.102
	8540.103
	8540.105
	8540.106
<b>S. 560</b>	8560.100
	8560.101
	8560.103
	8560.104
	8560.105
	8560.106

## **FIXED HOSE REELS INSTALLATION**

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

**Supplied with:**

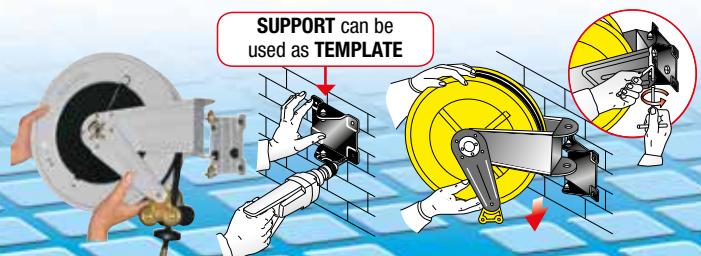
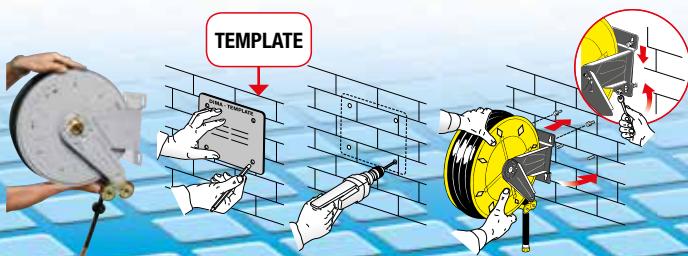
- hoses in black synthetic rubber
  - zinc plated steel couplings
  - brass swivel joint
  - “Viton®” seals



Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G
10m - 3/8" (995.210)	F3/8"G	M3/8"G
15m - 1/4" (993.215)	F3/8"G	M1/4"G
without hose	F3/8"G	F3/8"G
12m - 3/8" (995.211)	F3/8"G	M3/8"G
without hose	F3/8"G	F3/8"G
18m - 3/8" (995.217)	F3/8"G	M3/8"G
without hose	F1/2"G	F1/2"G
12m - 3/8" (995.212)	F1/2"G	M3/8"G
18m - 3/8" (995.218)	F1/2"G	M3/8"G
10m - 1/2" (996.210)	F1/2"G	M1/2"G
15m - 1/2" (996.215)	F1/2"G	M1/2"G
<b>s Series 430 see page 152</b>		
without hose	F1/2"G	F1/2"G
20m - 1/2" (996.220)	F1/2"G	M1/2"G
25m - 1/2" (996.225)	F1/2"G	M1/2"G
without hose	F1"G	F1"G
15m - 3/4" (997.215)	F1"G	M3/4"G
20m - 3/4" (997.220)	F1"G	M3/4"G
15m - 1" (998.215)	F1"G	M1"G
without hose	F1/2"G	F1/2"G
30m - 1/2" (996.230)	F1/2"G	M1/2"G
without hose	F1"G	F1"G
30m - 3/4" (997.230)	F1"G	M3/4"G
40m - 3/4" (997.240)	F1"G	M3/4"G
20m - 1" (998.220)	F1"G	M1"G
30m - 1" (998.230)	F1"G	M1"G
without hose	F1/2"G	F1/2"G

## **SWIVELLING HOSE REELS INSTALLATION**

The **quick coupling swivelling support** facilitates hose reels installation and enables **55° rotation** to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# **AIR-WATER - 20 bar**

## **AISI 304 STAINLESS STEEL**

The logo consists of a yellow hexagon containing a black 'Ex' symbol, followed by the text 'ATEX directive II 3 GD c X'.



FIXED



## Article

S. 290	8292.100 8292.101 8292.104
S. 330	8332.100 8332.101
S. 390	8392.100 8392.102
S. 430	8432.100 8432.101 8432.102 8432.103 8432.104
S. 530	8532.100 8532.101 8532.102
S. 540	8542.100 8542.101 8542.102 8542.103 8542.105 8542.106
S. 560	8562.100 8562.101 8562.103 8562.104 8562.105 8562.106

## **SWIVELLING**



## Article

-
-
-
-
-
<b>8382.100</b>
<b>8382.102</b>
<b>8422.100</b>
<b>8422.101</b>
<b>8422.102</b>
<b>8422.103</b>
<b>8422.104</b>
<b>for ABS hose reel</b>
<b>8522.100</b>
<b>8522.101</b>
<b>8522.102</b>
<b>8552.100</b>
<b>8552.101</b>
<b>8552.102</b>
<b>8552.103</b>
<b>8552.105</b>
<b>8552.106</b>
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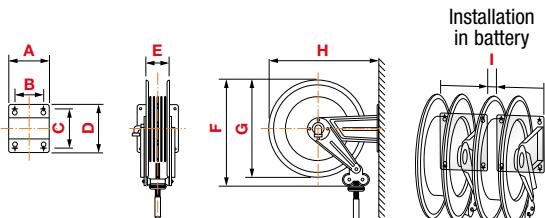
**Supplied with:**

- hoses in black synthetic rubber
  - zinc plated steel couplings
  - brass swivel joint
  - "Viton®" seals



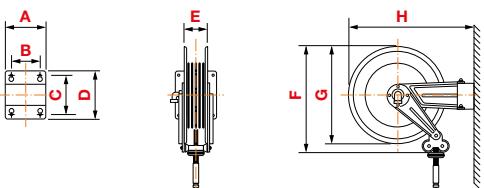
Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G
10m - 3/8" (995.210)	F3/8"G	M3/8"G
15m - 1/4" (993.215)	F3/8"G	M1/4"G
without hose	F3/8"G	F3/8"G
12m - 3/8" (995.211)	F3/8"G	M3/8"G
without hose	F3/8"G	F3/8"G
18m - 3/8" (995.217)	F3/8"G	M3/8"G
without hose	F1/2"G	F1/2"G
12m - 3/8" (995.212)	F1/2"G	M3/8"G
18m - 3/8" (995.218)	F1/2"G	M3/8"G
10m - 1/2" (996.210)	F1/2"G	M1/2"G
15m - 1/2" (996.215)	F1/2"G	M1/2"G
<b>Series 430 see page 153</b>		
without hose	F1/2"G	F1/2"G
20m - 1/2" (996.220)	F1/2"G	M1/2"G
25m - 1/2" (996.225)	F1/2"G	M1/2"G
without hose	F1"G	F1"G
15m - 3/4" (997.215)	F1"G	M3/4"G
20m - 3/4" (997.220)	F1"G	M3/4"G
15m - 1" (998.215)	F1"G	M1"G
without hose	F1/2"G	F1/2"G
30m - 1/2" (996.230)	F1/2"G	M1/2"G
without hose	F1"G	F1"G
30m - 3/4" (997.230)	F1"G	M3/4"G
40m - 3/4" (997.240)	F1"G	M3/4"G
20m - 1" (998.220)	F1"G	M1"G
30m - 1" (998.230)	F1"G	M1"G
without hose	F1/2"G	F1/2"G

#### **FIXED OVERALL DIMENSIONS**



<b>Art.</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	1-m³	kg *
<b>S. 290</b>	186	140	196	226	110	310	300	320	-	0,037	from 7 to 12
<b>S. 330</b>	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
<b>S. 390</b>	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
<b>S. 560</b>	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

#### **SWIVELLING OVERALL DIMENSIONS**



<b>Art.</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>1-m<sup>3</sup></b>	<b>kg</b>
<b>S. 380</b>	184	146	106	144	110	400	390	484	0,098	from 12 to 19
<b>S. 420</b>	208	162	118	164	115	460	420	541	0,098	from 15 to 25
<b>S. 520</b>	228	182	154	200	115	560	510	642	0,120	from 20 to 43
<b>S. 550</b>	300	218	226	268	190	560	510	702	0,175	from 25 to 41

- \* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



# WATER MAX 130 °C\* - 100 bar

## PAINTED STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



### FIXED

<b>Article</b>	<b>8330.200</b>
	<b>8330.201</b>

S. 330

### SWIVELLING



<b>Article</b>	<b>-</b>
	<b>-</b>

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "Viton®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F1/2"G	F 3/8"-1/2"G
12m - 3/8" (995.313)	F1/2"G	M3/8"G

<b>S. 390</b>	<b>8390.200</b>	<b>8380.200</b>
	<b>8390.202</b>	<b>8380.202</b>

<b>S. 430</b>	<b>8430.200</b>	<b>8420.200</b>
	<b>8430.201</b>	<b>8420.201</b>
	<b>8430.202</b>	<b>8420.202</b>

for ABS hose reels Series 430 see page 152

<b>S. 530</b>	<b>8530.200</b>	<b>8520.200</b>
	<b>8530.201</b>	<b>8520.201</b>

<b>S. 540</b>	<b>8540.200</b>	<b>8550.200</b>
	<b>8540.202</b>	<b>8550.202</b>
	<b>8540.203 *</b>	<b>8550.203 *</b>

<b>S. 560</b>	<b>8560.200</b>	<b>-</b>
	<b>8560.205 *</b>	<b>-</b>

\* 50 bar

\* 50 bar

without hose	F1/2"G	F1/2"G
20m - 1/2" (996.321)	F1/2"G	M1/2"G

without hose	F1"G	F1"G
20m - 3/4" (997.320)	F1"G	M3/4"G
15m - 1" (998.315)	F1"G	M1"G

without hose	F1"G	F1"G
30m - 1" (998.330)	F1"G	M1"G

\* Effective temperature only for versions without hose. For the maximum temperature of the versions with hose, contact technical dept.

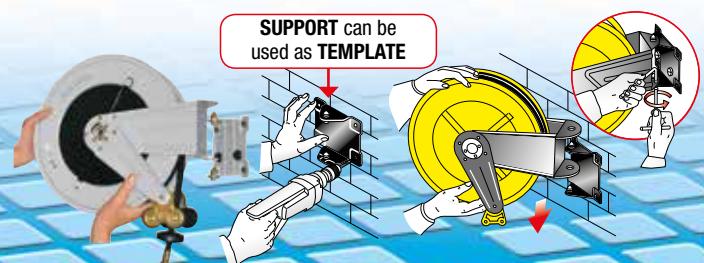
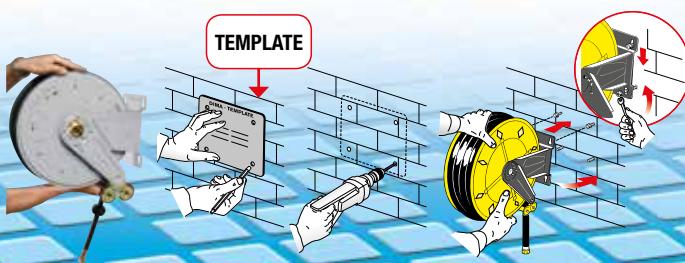
### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

### SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reels installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# WATER MAX 130 °C\* - 100 bar

AISI 304 STAINLESS STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



## FIXED

Article
<b>S. 330</b>
hygienic hose
<b>8332.400</b>

Article
<b>S. 390</b>
hygienic hose
<b>8392.200</b>

Article
<b>S. 430</b>
hygienic hose
<b>8434.200</b>

Article
<b>S. 530</b>
hygienic hose
<b>8534.200</b>

Article
<b>S. 540</b>
hygienic hose
<b>8544.200</b>

Article
<b>S. 560</b>
hygienic hose
<b>8564.200</b>

## SWIVELLING

### -55° 0° +55°

Article
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Article
---------

Article
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for ABS hose reels Series 430 see page 153

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "Viton®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F1/2"G	F 3/8"-1/2"G
12m - 3/8" (995.313)	F1/2"G	M3/8"G
12m - 3/8" (995.412)	F1/2"G	M3/8"G
without hose	F1/2"G	F3/8"-1/2"G
17m - 3/8" (995.318)	F1/2"G	M3/8"G
12m - 3/8" (995.412)	F1/2"G	M3/8"G

without hose	F1/2"G	F1/2"G
10m - 1/2" (996.311)	F1/2"G	M1/2"G
15m - 1/2" (996.316)	F1/2"G	M1/2"G
15m - 1/2" (996.415)	F1/2"G	M1/2"G

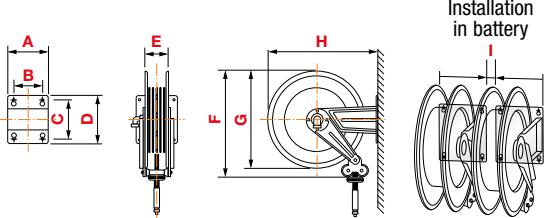
without hose	F1"G	F1"G
20m - 1/2" (996.321)	F1"G	M1/2"G
25m - 1/2" (996.425)	F1"G	M1/2"G

without hose	F1"G	F1"G
20m - 3/4" (997.320)	F1"G	M3/4"G

\* 50 bar \* 50 bar

\* Effective temperature only for versions without hose. For the maximum temperature of the versions with hose, contact technical dept.

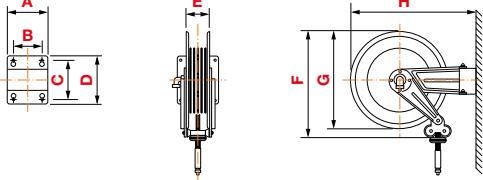
## FIXED OVERALL DIMENSIONS



Art. A B C D E F G H I 1-m³ kg\*

<b>S. 330</b>	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
<b>S. 390</b>	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
<b>S. 560</b>	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

## SWIVELLING OVERALL DIMENSIONS



Art. A B C D E F G H 1-m³ kg

<b>S. 380</b>	184	146	106	144	110	400	390	484	0,098	from 12 to 19
<b>S. 420</b>	208	162	118	164	115	460	420	541	0,098	from 15 to 25
<b>S. 520</b>	228	182	154	200	115	560	510	642	0,120	from 20 to 43
<b>S. 550</b>	300	218	226	268	190	560	510	702	0,175	from 25 to 41

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



# WATER MAX 130 °C - 200 bar

## PAINTED STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



S. 330

### FIXED



Article

8330.300

8330.301

S. 390

8390.300

8390.302

S. 430

8430.300

8430.301

8430.302

S. 530

8530.300

8530.301

8530.302

S. 540

8540.300

8540.301

S. 560

8560.300

8560.301

8560.302

### SWIVELLING



Article

-

-

8380.300

8380.302

8420.300

8420.301

8420.302

for ABS hose reels Series 430 see page 152

### Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "Viton®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G
12m - 5/16" (994.512)	F3/8"G	F3/8"G

without hose	F3/8"G	F3/8"G
17m - 5/16" (994.517)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
12m - 3/8" (995.512)	F3/8"G	F3/8"G
18m - 3/8" (995.518)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
20m - 3/8" (995.520)	F3/8"G	F3/8"G
25m - 3/8" (995.525)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
30m - 3/8" (995.530)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
40m - 3/8" (995.540)	F3/8"G	F3/8"G
50m - 3/8" (995.550)	F3/8"G	F3/8"G

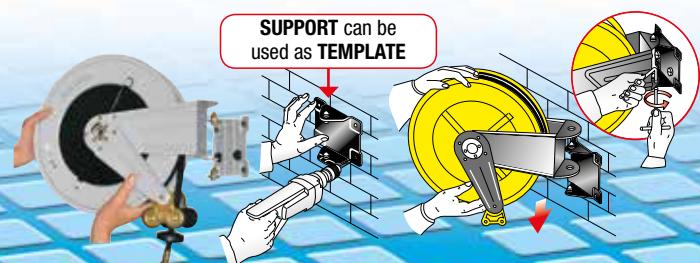
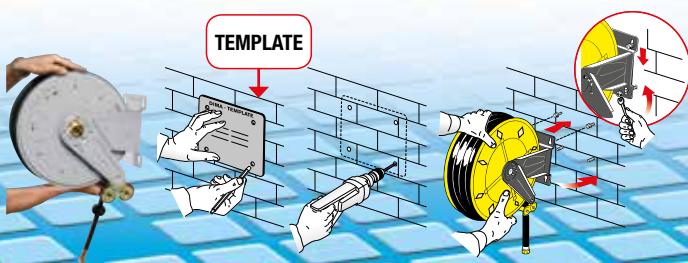
### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

### SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reels installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# WATER MAX 130 °C - 200 bar

AISI 304 STAINLESS STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



## FIXED

Article
8332.300
S. 330
hygienic hose

Article
8392.300
S. 390
hygienic hose

Article
8434.300
S. 430
hygienic hose

Article
8534.300
S. 530
hygienic hose

Article
8544.300
S. 540
hygienic hose

Article
8564.300
S. 560
hygienic hose

## SWIVELLING



## Article

Article
8382.300
S. 390
hygienic hose

Article
8424.300
S. 430
hygienic hose

Article
8524.300
S. 530
hygienic hose

Article
8554.300
S. 540
hygienic hose

Article
---------

## Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "Viton®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F 3/8"G
12m - 5/16" (994.512)	F3/8"G	F3/8"G
12m - 5/16" (994.612)	F3/8"G	F3/8"G

without hose	F3/8"G	F 3/8"G
17m - 5/16" (994.517)	F3/8"G	F3/8"G
12m - 5/16" (994.612)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
12m - 3/8" (995.512)	F3/8"G	F3/8"G
18m - 3/8" (995.518)	F3/8"G	F3/8"G
18m - 3/8" (995.618)	F3/8"G	F3/8"G

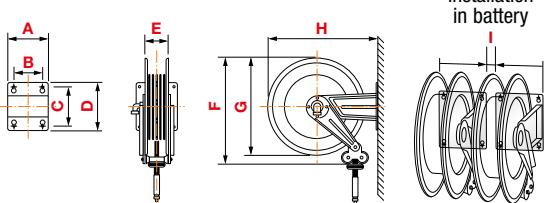
for ABS hose reels Series 430 see page 153

without hose	F3/8"G	F1/2"G
20m - 3/8" (995.520)	F3/8"G	F3/8"G
25m - 3/8" (995.525)	F3/8"G	F3/8"G
25m - 3/8" (995.625)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
30m - 3/8" (995.530)	F3/8"G	F3/8"G
30m - 3/8" (995.630)	F3/8"G	F3/8"G

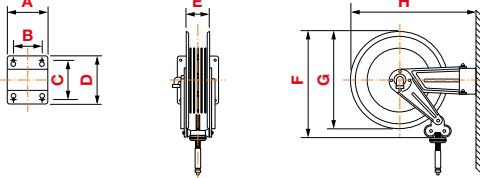
## FIXED OVERALL DIMENSIONS

Installation in battery



Art.	A	B	C	D	E	F	G	H	I	1-m³	kg*
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
S. 560	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

## SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m³	kg
S. 380	184	146	106	144	110	400	390	484	0,098	from 12 to 19	
S. 420	208	162	118	164	115	460	420	541	0,098	from 15 to 25	
S. 520	228	182	154	200	115	560	510	642	0,120	from 20 to 43	
S. 550	300	218	226	268	190	560	510	702	0,175	from 25 to 41	

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



# WATER MAX 130 °C - 400 bar

## PAINTED STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



Article	Article
S. 330	8330.350

S. 390	8390.350	8380.350
	8390.352	8380.352

S. 430	8430.350	8420.350
	8430.354	8420.354

S. 530	8530.350	8520.350
	8530.352	8520.352

S. 540	8540.350	8550.350

S. 560	8560.350	-



Article	Article
-	-

### Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "Teflon®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G

without hose	F3/8"G	F3/8"G
17m - 5/16" (994.717)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
15m - 3/8" (995.815)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
25m - 3/8" (995.825)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G

without hose	F3/8"G	F1/2"G

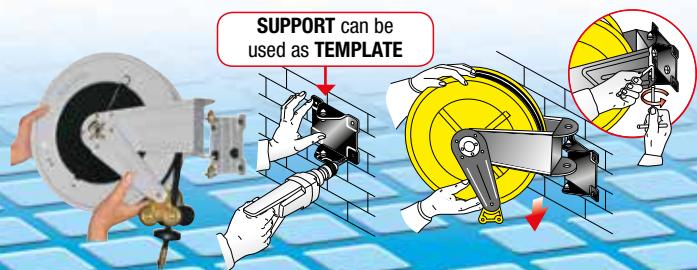
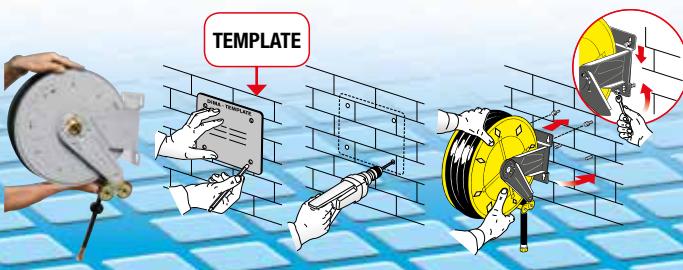
### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

### SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reels installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# WATER MAX 130 °C - 400 bar

AISI 304 STAINLESS STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



## FIXED

<b>S. 330</b>	<b>Article</b> <b>8332.350</b>
---------------	-----------------------------------

## SWIVELLING

-55	0°	+55
<b>Article</b>		-

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "Teflon®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G

<b>S. 390</b>	<b>8392.350</b>	<b>8382.350</b>
	<b>8392.352</b>	<b>8382.352</b>

without hose	F3/8"G	F3/8"G
17m - 5/16" (994.717)	F3/8"G	F3/8"G

<b>S. 430</b>	<b>8434.350</b>	<b>8424.350</b>
hygienic hose	<b>8432.354</b>	<b>8422.354</b>
	<b>8433.354</b>	<b>8423.354</b>

<b>S. 430</b>	<b>8434.350</b>	<b>8424.350</b>
hygienic hose	<b>8432.354</b>	<b>8422.354</b>
	<b>8433.354</b>	<b>8423.354</b>

without hose	F3/8"G	F1/2"G
15m - 3/8" (995.815)	F3/8"G	F3/8"G
15m - 3/8" (995.915)	F3/8"G	F3/8"G

<b>S. 530</b>	<b>8534.350</b>	<b>8524.350</b>
hygienic hose	<b>8532.352</b>	<b>8522.352</b>
	<b>8533.352</b>	<b>8523.352</b>

<b>S. 530</b>	<b>8534.350</b>	<b>8524.350</b>
hygienic hose	<b>8532.352</b>	<b>8522.352</b>
	<b>8533.352</b>	<b>8523.352</b>

without hose	F3/8"G	F1/2"G
25m - 3/8" (995.825)	F3/8"G	F3/8"G
25m - 3/8" (995.925)	F3/8"G	F3/8"G

<b>S. 540</b>	<b>8544.350</b>	<b>8554.350</b>
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<b>S. 540</b>	<b>8544.350</b>	<b>8554.350</b>
---------------	-----------------	-----------------

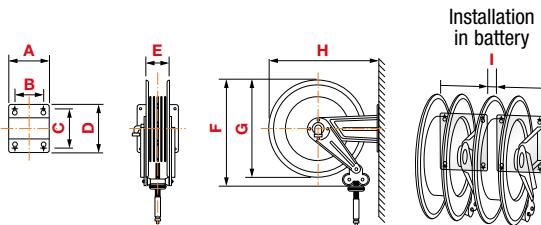
without hose	F3/8"G	F1/2"G
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<b>S. 560</b>	<b>8564.350</b>	<b>-</b>
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<b>S. 560</b>	<b>8564.350</b>	<b>-</b>
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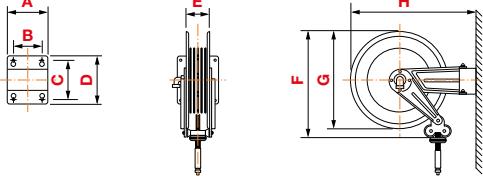
without hose	F3/8"G	F1/2"G
--------------	--------	--------

## FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m³	kg*
<b>S. 330</b>	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
<b>S. 390</b>	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
<b>S. 560</b>	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

## SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m³	kg
<b>S. 380</b>	184	146	106	144	110	400	390	484	0,098	from 12 to 19	
<b>S. 420</b>	208	162	118	164	115	460	420	541	0,098	from 15 to 25	
<b>S. 520</b>	228	182	154	200	115	560	510	642	0,120	from 20 to 43	
<b>S. 550</b>	300	218	226	268	190	560	510	702	0,175	from 25 to 41	

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



# WATER MAX 130 °C - 100-200-400 bar

AISI 304 STAINLESS STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X

Supplied with:

- AISI 304 stainless steel couplings
- AISI 304 stainless steel swivel joint
- "Viton®" seals (100-200 bar)
- "Teflon®" seals (400 bar)



S. 430

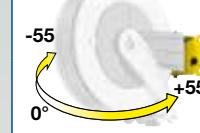
Water 130 °C 100 bar	8434.200
Water 130 °C 200 bar	8434.300
Water 130 °C 400 bar	8434.350

## FIXED



Article

## SWIVELLING



Article

Connection	
inlet	outlet
F1/2"G	F1/2"G
F3/8"G	F1/2"G
F3/8"G	F1/2"G



S. 530

Water 130 °C 100 bar	8534.200
Water 130 °C 200 bar	8534.300
Water 130 °C 400 bar	8534.350

8524.200
8524.300
8524.350

F1/2"G	F1/2"G
F3/8"G	F1/2"G
F3/8"G	F1/2"G



S. 540

Water 130 °C 100 bar	8544.200
	8544.205
Water 130 °C 200 bar	8544.300
Water 130 °C 400 bar	8544.350

8554.200
8554.205
8554.300
8554.350

F1"G	F1"G
F1/2"G	F1/2"G
F3/8"G	F1/2"G
F3/8"G	F1/2"G



S. 560

Water 130 °C 100 bar	8564.200
	8564.206
Water 130 °C 200 bar	8564.300
Water 130 °C 400 bar	8564.350

-
-
-
-

F1"G	F1"G
F1/2"G	F1/2"G
F3/8"G	F1/2"G
F3/8"G	F1/2"G

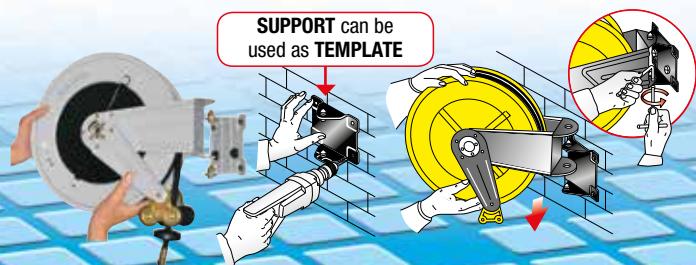
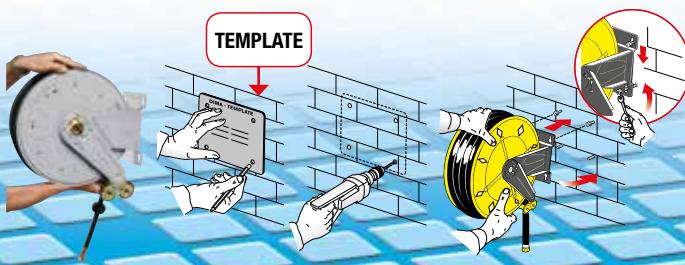
## FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

## SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reels installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# WATER MAX 130 °C - 100 bar

AISI 316 STAINLESS STEEL

Supplied with:

- AISI 316 stainless steel couplings
- AISI 316 stainless steel swivel joint
- "Viton®" seals

ATEX directive  
IIB 2 GD c T4 T135 °C X



S. 540

FIXED



Article

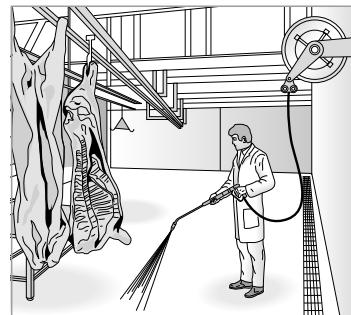
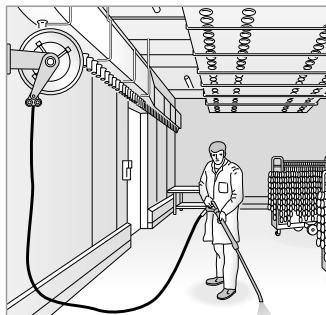
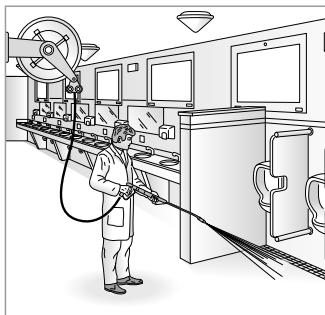
Water 130 °C 100 bar

8545.200

Connection

inlet	outlet
F1"G	F1"G

## EXAMPLE OF USE



## Hose reels capacity

To establish the **capacity of a hose reels** (max length of hose to be wound) it is necessary to know the following data:

- **hose reels spring rewinding capacity**
- **external diameter of hose to be used**

ø 17 mm max. 21 m

Series 430

ø 19,5 mm max. 16 m

Series 430

ø 22 mm max. 14 m

ø 22 mm max. 30 m

Series 540  
outlet 1/2"

ø 28 mm max. 22 m

Series 540  
outlet 1"

ø 34 mm max. 17 m

ø 18,5 mm max. 28 m

Series 530

ø 20 mm max. 26 m

ø 22 mm max. 24 m

ø 22 mm max. 60 m

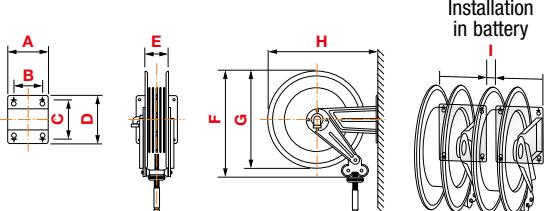
Series 560  
outlet 1/2"

ø 30 mm max. 40 m

Series 560  
outlet 1"

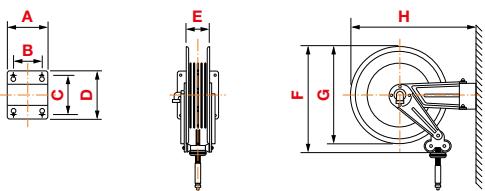
ø 35 mm max. 30 m

## FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m³	kg
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	16
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	21
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	28,5
<b>S. 560</b>	488	399	238	272	368	550	510	578	0	0,310	48

## SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m³	kg
<b>S. 420</b>	208	162	118	164	115	460	420	541	0,098	16,5	
<b>S. 520</b>	228	182	154	200	115	560	510	642	0,120	21,5	
<b>S. 550</b>	300	218	226	268	190	560	510	702	0,175	34	



# OIL AND SIMILAR PRODUCTS - 150 bar

## PAINTED STEEL

ATEX directive IIB 2 GD c T4 T135 °C X



S. 330

### FIXED



#### Article

8330.400  
8330.402

S. 390

8390.400  
8390.401  
8390.402

S. 430

8430.400  
8430.401  
8430.402

S. 530

8530.400  
8530.401  
8530.402

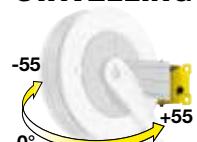
S. 540

8540.400  
8540.411 \*\*  
8540.412 \*\*  
8540.413 \*  
8540.405  
8540.406

S. 560

8560.400  
8560.415 \*

### SWIVELLING



#### Article

-  
-

#### Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- carbon steel swivel joint
- "polyurethane" seals



#### Hose supplied

Hose supplied	Connection	
	inlet	outlet
without hose	F1/2"G	F 3/8"-1/2"G
12m - 3/8" (995.312)	F1/2"G	M1/2"G

without hose	F1/2"G	F 3/8"-1/2"G
12m - 3/8" (995.312)	F1/2"G	M1/2"G
17m - 3/8" (995.317)	F1/2"G	M1/2"G

without hose	F1/2"G	F1/2"G
10m - 1/2" (996.310)	F1/2"G	M1/2"G
15m - 1/2" (996.315)	F1/2"G	M1/2"G

for ABS hose reels Series 430 see page 152

without hose	F1/2"G	F1/2"G
20m - 1/2" (996.320)	F1/2"G	M1/2"G
25m - 1/2" (996.325)	F1/2"G	M1/2"G

without hose	F1"G	F1"G
15m - 3/4" (997.3315)	F1"G	M3/4"G
20m - 3/4" (997.3320)	F1"G	M3/4"G
15m - 1" (998.3315)	F1"G	M1"G
without hose	F1/2"G	F1/2"G
30m - 1/2" (996.330)	F1/2"G	M1/2"G

without hose	F1"G	F1"G
30m - 1" (998.3330)	F1"G	M1"G

\* 50 bar  
\*\* 100 bar

\* 50 bar  
\*\* 100 bar

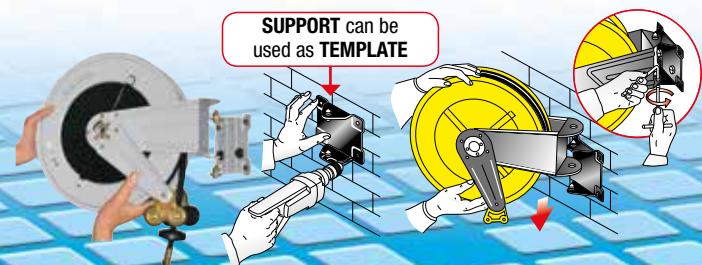
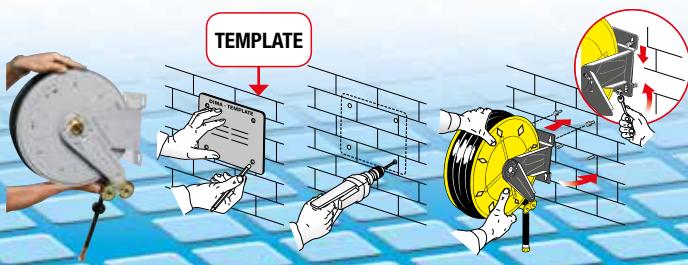
### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

### SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reels installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# OIL AND SIMILAR PRODUCTS - 150 bar

## AISI 304 STAINLESS STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X

### FIXED



Article

### SWIVELLING



Article

#### Supplied with:

- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "Viton®" seals

#### Hose supplied

#### Connection

inlet	outlet
-------	--------



S. 390

8392.200

8382.200

without hose

F1/2"G

F 3/8"-1/2"G

S. 430

8434.200

8424.200

without hose

F1/2"G

F1/2"G

S. 530

8534.200

8524.200

without hose

F1/2"G

F1/2"G

S. 540

8544.200

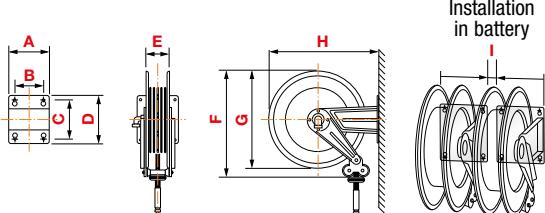
8554.200

without hose

F1"G

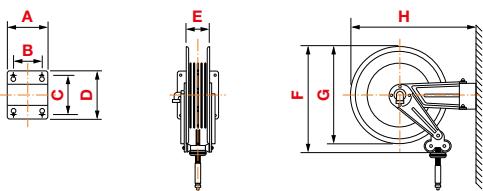
F1"G

### FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg*
<b>S. 330</b>	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
<b>S. 390</b>	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
<b>S. 560</b>	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

### SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m <sup>3</sup>	kg
<b>S. 380</b>	184	146	106	144	110	400	390	484	0,098	from 12 to 19
<b>S. 420</b>	208	162	118	164	115	460	420	541	0,098	from 15 to 25
<b>S. 520</b>	228	182	154	200	115	560	510	642	0,120	from 20 to 43
<b>S. 550</b>	300	218	226	268	190	560	510	702	0,175	from 25 to 41

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



# GREASE - 400 bar

## PAINTED STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



### FIXED

Article
S. 330
8330.500 *

Article
S. 390
8390.500 *

Article
S. 430
8430.500 *
8430.501
8430.502
8430.505
8430.506

Article
S. 530
8530.500 *

Article
S. 540

### SWIVELLING



### Article

Article
-
-

### Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- carbon steel swivel joint
- "polyurethane" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G
12m - 1/4" (993.511)	F3/8"G	M1/4"G

without hose	F3/8"G	F3/8"G
12m - 1/4" (993.511)	F3/8"G	M1/4"G
16m - 1/4" (993.516)	F3/8"G	M1/4"G

for ABS hose reels Series 430 see page 152

without hose	F3/8"G	F1/2"G
12m - 1/4" (993.512)	F3/8"G	M1/4"G
18m - 1/4" (993.518)	F3/8"G	M1/4"G
10m - 3/8" (995.710)	F3/8"G	M1/4"G
15m - 3/8" (995.715)	F3/8"G	M1/4"G

without hose	F3/8"G	F1/2"G
20m - 3/8" (995.720)	F3/8"G	M1/4"G
25m - 3/8" (995.725)	F3/8"G	M1/4"G

without hose	F3/8"G	F1/2"G
30m - 3/8" (995.730)	F3/8"G	M1/4"G

\* 600 bar

\* 600 bar

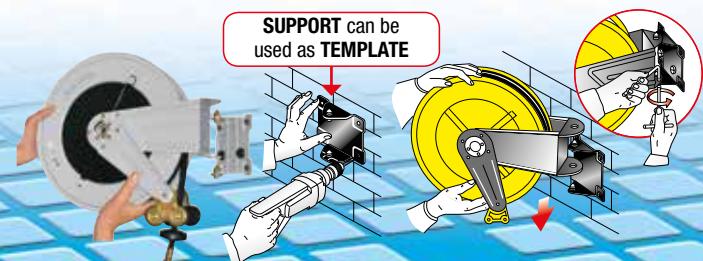
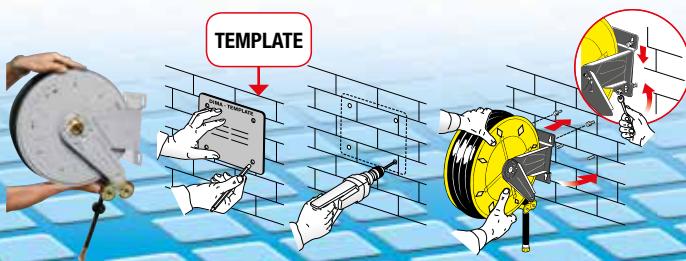
### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.

The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

### SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reels installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





# GREASE - 600 bar

AISI 304 STAINLESS STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X

## FIXED



Article

## SWIVELLING



Article

Supplied with:

- zinc plated steel couplings
- carbon steel swivel joint
- "polyurethane" seals

Hose supplied

## Connection

inlet	outlet
-------	--------



S. 390

8392.500

8382.500

without hose

F3/8"G

F 3/8"G

S. 430

8432.500

8422.500

without hose

F3/8"G

F1/2"G

S. 530

8532.500

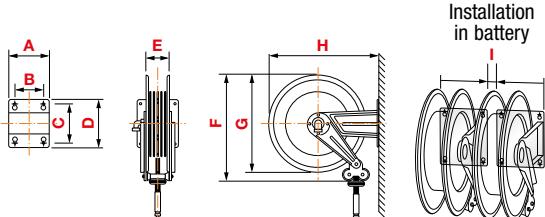
8522.500

without hose

F3/8"G

F1/2"G

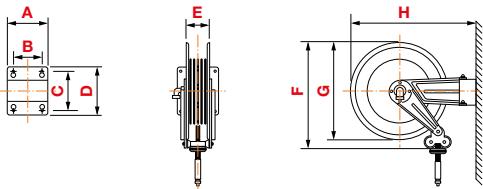
## FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg*
------	---	---	---	---	---	---	---	---	---	------------------	-----

<b>S. 330</b>	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
<b>S. 390</b>	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40

## SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m <sup>3</sup>	kg
<b>S. 380</b>	184	146	106	144	110	400	390	484	0,098	from 12 to 19
<b>S. 420</b>	208	162	118	164	115	460	420	541	0,098	from 15 to 25
<b>S. 520</b>	228	182	154	200	115	560	510	642	0,120	from 20 to 43

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



# DIESEL FUEL - 10 bar

## PAINTED STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X

### FIXED



**S. 530**

**Article**  
**8530.600**  
**8530.603**  
**8530.604**



**S. 540**

**Article**  
**8540.100**  
**8540.601**  
**8540.602**  
**8540.603**



**S. 560**

**Article**  
**8560.100**  
**8560.603**  
**8560.604**  
**8560.605**

### Supplied with:

- hoses in antistatic black synthetic rubber
- zinc plated steel couplings
- brass swivel joint
- "Viton®" seals

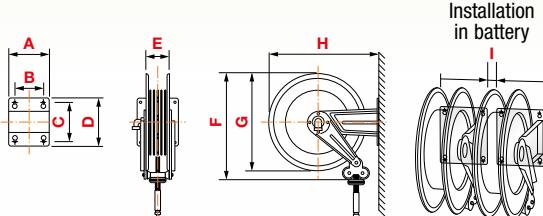


Hose supplied	Connection	
	inlet	outlet
without hose	F1"G	F1"G
12m - 3/4" (997.812)	F1"G	M3/4"G
8m - 1" (998.808)	F1"G	M1"G

without hose	F1"G	F1"G
15m - 3/4" (997.815)	F1"G	M3/4"G
20m - 3/4" (997.820)	F1"G	M3/4"G
15m - 1" (998.815)	F1"G	M1"G

without hose	F1"G	F1"G
40m - 3/4" (997.840)	F1"G	M3/4"G
20m - 1" (998.820)	F1"G	M1"G
30m - 1" (998.830)	F1"G	M1"G

### FIXED OVERALL DIMENSIONS

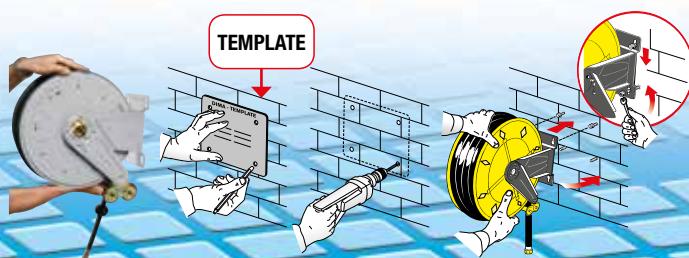


Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg*
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
<b>S. 560</b>	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight revers to heaviest version which depends on hose length and diameter.

### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.  
The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.





# DIESEL FUEL - 10 bar

AISI 304 STAINLESS STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X

## FIXED



Article

Supplied with:

- hoses in antistatic black synthetic rubber
- zinc plated steel couplings
- brass swivel joint
- "Viton®" seals

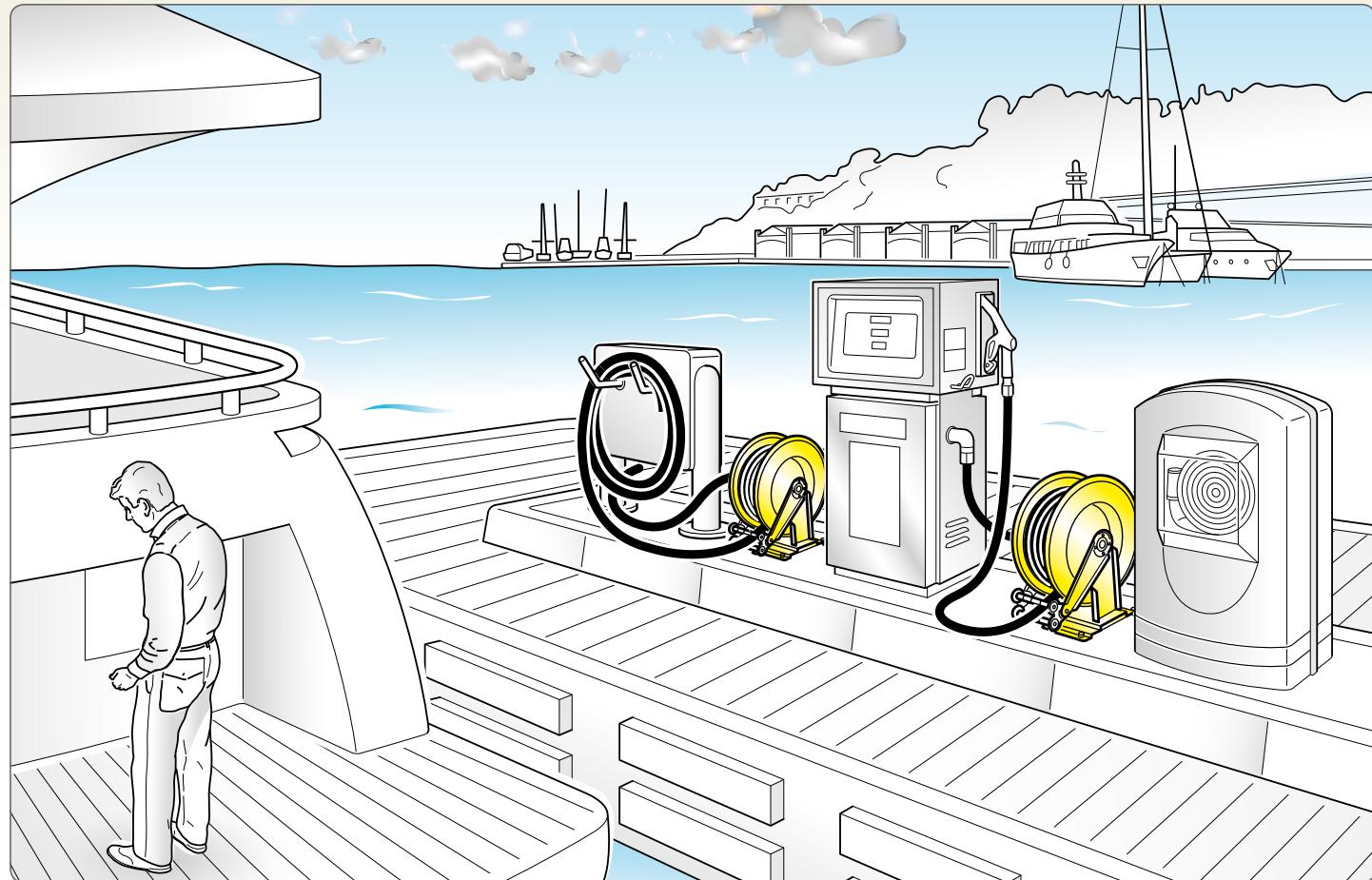


Hose supplied	Connection	
	inlet	outlet



<b>S. 540</b>	<b>8542.100</b>	without hose	F1"G	F1"G
	<b>8542.601</b>	15m - 3/4" (997.815)	F1"G	M3/4"G
	<b>8542.602</b>	20m - 3/4" (997.820)	F1"G	M3/4"G
	<b>8542.603</b>	15m - 1" (998.815)	F1"G	M1"G

<b>S. 560</b>	<b>8562.100</b>	without hose	F1"G	F1"G
	<b>8562.603</b>	40m - 3/4" (997.840)	F1"G	M3/4"G
	<b>8562.604</b>	20m - 1" (998.820)	F1"G	M1"G
	<b>8562.605</b>	30m - 1" (998.830)	F1"G	M1"G





# ADBLUE® - 10 bar

## PAINTED STEEL

### FIXED



#### Article

**8436.200**

**8434.250**

**8436.251**

**8436.252**

**S. 436**



ATEX directive  
IIB 2 GD c T4 T135 °C X  
o II 3 GD c X (20 bar)

### Supplied with:

- hoses in antistatic EPDM rubber
- AISI 316L stainless steel couplings
- AISI 316L stainless steel swivel joint
- "Viton®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F1"G	F3/4"G
without hose	F1"G	F3/4"G
10m - 19x27 (987.210)	M1"G	M3/4"G
15m - 19x27 (987.215)	M1"G	M3/4"G

# ADBLUE® - 10 bar

## STAINLESS STEEL

### FIXED



#### Article

**8537.200**

**8534.250**

**8537.251**

**8537.252**

**S. 537**



### Supplied with:

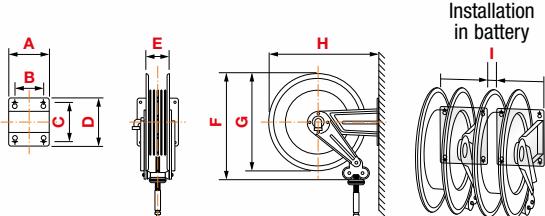
- hoses in antistatic EPDM rubber
- AISI 316L stainless steel couplings
- AISI 316L stainless steel swivel joint
- "Viton®" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F1"G	F1"G
without hose	F1"G	F1"G
10m - 19x27 (987.210)	M1"G	M3/4"G
15m - 19x27 (987.215)	M1"G	M3/4"G

**Hose reels for AdBlue®**, the fluid used in SCR systems which are present in Euro4 and Euro5 trucks, have been purposely designed by using **stainless steel AISI 316L** for those parts which get in contact with the fluid, avoiding in this way any contamination of the same fluid.

### FIXED OVERALL DIMENSIONS

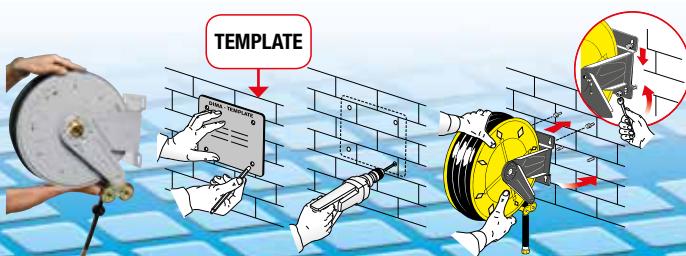


Art.	A	B	C	D	E	F	G	H	I	1-m³	kg
<b>S. 436</b>	337	302	160	203	168	450	420	460	20	0,122	from 19 to 42
<b>S. 537</b>	203	153	220	258	115	550	510	560	0	0,120	from 19 to 42

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.

### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels. The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.





# SERIES WITH DOUBLE INLET AND OUTLET

## PAINTED STEEL

ATEX directive  
IIB 2 GD c T4 T135 °C X



S. 430

Article	Connection	Equipped with	
	inlet	outlet	2 swivels seals
Air - Water <b>20</b> bar	8430.1000	F1/2"G	M3/8"G brass Viton®
Oil - Water <b>200</b> bar	8430.3000	F3/8"G	M3/8"G AISI 304 stainless steel Viton®
Oil - Paint <b>150</b> bar	8430.4000	F1/2"G	M3/8"G steel polyurethane
<b>Oil 400</b> bar	8430.5000	F3/8"G	M3/8"G steel polyurethane



S. 530

Air - Water <b>20</b> bar	8530.1000	F1/2"G	M3/8"G brass Viton®
Oil - Water <b>200</b> bar	8530.3000	F3/8"G	M3/8"G AISI 304 stainless steel Viton®
Oil - Paint <b>150</b> bar	8530.4000	F1/2"G	M3/8"G steel polyurethane
<b>Oil 400</b> bar	8530.5000	F3/8"G	M3/8"G steel polyurethane



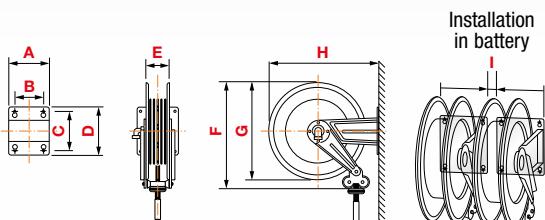
S. 540

<b>Oil 400</b> bar	8540.5000
--------------------	-----------

Article	Connection	Equipped with	
	inlet	outlet	2 swivels seals
Air - Water <b>20</b> bar	8530.1000	F1/2"G	M3/8"G brass Viton®
Oil - Water <b>200</b> bar	8530.3000	F3/8"G	M3/8"G AISI 304 stainless steel Viton®
Oil - Paint <b>150</b> bar	8530.4000	F1/2"G	M3/8"G steel polyurethane
<b>Oil 400</b> bar	8530.5000	F3/8"G	M3/8"G steel polyurethane

**Hose reels for dual hoses** can be used for the applications where it is requested **the distribution of two fluids simultaneously** (e.g. air and paint in painting systems) or the recycle of the same fluid (e.g. for hydraulic tools).

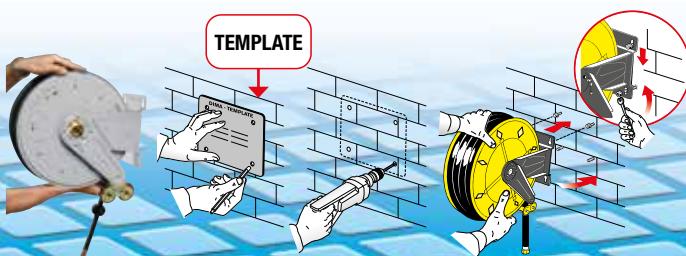
### FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg
S. 430	186	140	196	226	115	460	420	460	20	0,098	17,5
S. 530	203	153	220	258	115	550	510	560	20	0,120	24,5
S. 540	300	218	228	268	190	550	510	573	0	0,175	30

### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels. The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

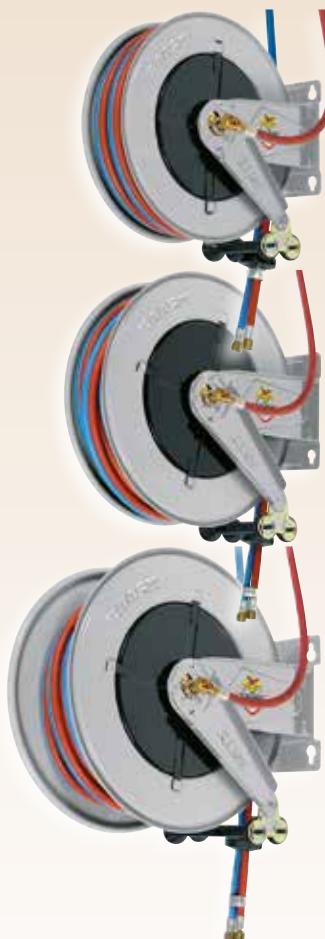




# WELDING - 20 bar

## PAINTED STEEL

ATEX directive  
II 3 GD c (T5) 100 °C X



### FIXED

Article
<b>S. 430</b>
<b>8430.700</b>
<b>8430.701</b>
<b>8430.702</b>

Article
<b>S. 530</b>
<b>8530.700</b>
<b>8530.701</b>
<b>8530.702</b>
<b>8530.703</b>
<b>8530.704</b>
<b>8530.705</b>

Article
<b>S. 540</b>
<b>8540.700</b>
<b>8540.701</b>
<b>8540.702</b>
<b>8540.704</b>
<b>8540.705</b>
<b>8540.707</b>
<b>8540.709</b>

Supplied with:

- double hose Standard ISO 3821, hoses SBR/EPDM rubber
- brass fitting
- brass swivel joint
- "Viton®" seals

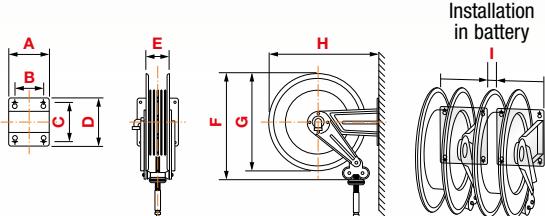


Hose supplied	Connection	
	inlet	outlet
without hose	M3/8"G	M3/8"G
13m - 2x1/4" - 2x6 (973.913)	F3/8"G	F3/8"G
12m - 2x5/16" - 2x8 (974.912)	F3/8"G	F3/8"G

without hose	M3/8"G	M3/8"G
17m - 2x1/4" - 2x6 (973.917)	F3/8"G	F3/8"G
20m - 2x1/4" - 2x6 (973.920)	F3/8"G	F3/8"G
15m - 2x5/16" - 2x8 (974.915)	F3/8"G	F3/8"G
20m - 2x5/16" - 2x8 (974.920)	F3/8"G	F3/8"G
15m - 2x3/8" - 2x9 (975.915)	F3/8"G	F3/8"G

without hose	M3/8"G	M3/8"G
25m - 2x1/4" - 2x6 (973.925)	F3/8"G	F3/8"G
30m - 2x1/4" - 2x6 (973.930)	F3/8"G	F3/8"G
25m - 2x5/16" - 2x8 (974.925)	F3/8"G	F3/8"G
30m - 2x5/16" - 2x8 (974.930)	F3/8"G	F3/8"G
20m - 2x3/8" - 2x9 (975.920)	F3/8"G	F3/8"G
27m - 2x3/8" - 2x9 (975.927)	F3/8"G	F3/8"G

### FIXED OVERALL DIMENSIONS

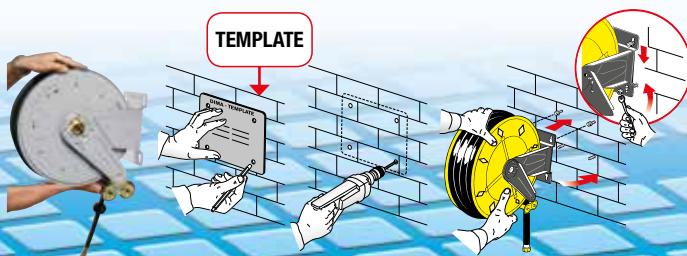


Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg*
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight reverses to heaviest version which depends on hose length and diameter.

### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels. The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.





# LPG-METHANE - 20 bar

## PAINTED STEEL

### FIXED



Supplied with:  
 - orange hose Standard ISO 3821  
 - brass fitting  
 - brass swivel joint  
 - "Viton®" seals



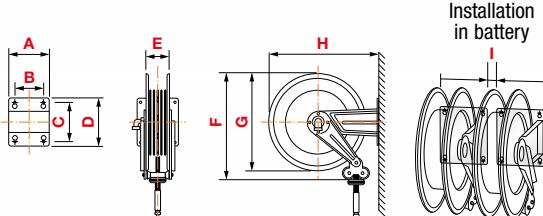
ATEX directive  
II 3 GD c (T5) 100 °C X



Article
<b>S. 330</b> 8330.800
<b>S. 330</b> 8330.801
<b>S. 330</b> 8330.802
<b>S. 390</b> 8390.800
<b>S. 390</b> 8390.801
<b>S. 390</b> 8390.802
<b>S. 430</b> 8430.800
<b>S. 430</b> 8430.802
<b>S. 430</b> 8430.804
<b>S. 530</b> 8530.800
<b>S. 530</b> 8530.802
<b>S. 530</b> 8530.804
<b>S. 540</b> 8540.800
<b>S. 540</b> 8540.802

Hose supplied	Connection	
	inlet	outlet
without hose	M3/8"G Sx	M3/8"G Sx
8m - 8x15 (974.1008)	F3/8"G Sx	F3/8"G Sx
10m - 10x17 (975.1010)	F3/8"G Sx	F3/8"G Sx
without hose	M3/8"G Sx	M3/8"G Sx
15m - 8x15 (974.1015)	F3/8"G Sx	F3/8"G Sx
15m - 10x17 (975.1015)	F3/8"G Sx	F3/8"G Sx
without hose	M3/8"G Sx	M3/8"G Sx
20m - 8x15 (974.1020)	F3/8"G Sx	F3/8"G Sx
18m - 10x17 (975.1018)	F3/8"G Sx	F3/8"G Sx
without hose	M3/8"G Sx	M3/8"G Sx
28m - 8x15 (974.1028)	F3/8"G Sx	F3/8"G Sx
27m - 10x17 (975.1027)	F3/8"G Sx	F3/8"G Sx
without hose	M3/8"G Sx	M3/8"G Sx
30m - 10x17 (975.1030)	F3/8"G Sx	F3/8"G Sx

### FIXED OVERALL DIMENSIONS

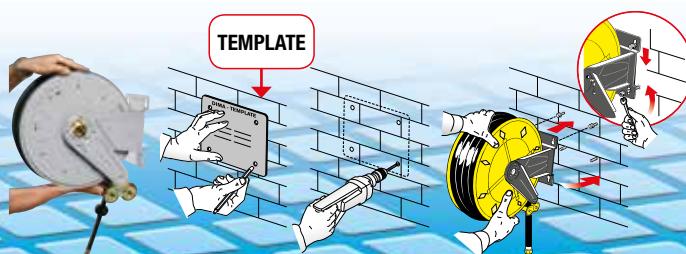


Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg*
<b>S. 330</b>	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
<b>S. 390</b>	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
<b>S. 430</b>	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
<b>S. 530</b>	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
<b>S. 540</b>	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40

\* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.

### FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reels.  
 The **template** supplied facilitates drilling of the holes and therefore hose reels fixing.

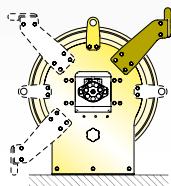




# HYDRAULIC MOTOR-OPERATED SERIES

S. 617 HYDRAULIC

The adjustable arms can be easily repositioned according to needs.



HYDRAULIC		Connection	
Article	inlet	outlet	Article

## Air - Water 20 bar

- brass swivel joint
- "Viton®" seals

8617.100

F1"G

## Water max 130 °C 100 bar

- AISI 304 stainless steel swivel joint
- "Viton®" seals

8617.200

F1"G

## Oil and similar products 150 bar

- carbon steel swivel joint
- "polyurethane" seals

8617.400

F1"G

## Grease 400 bar

- carbon steel swivel joint
- "polyurethane" seals

8617.500

F1"G

## Diesel fuel 10 bar

- carbon steel swivel joint
- "Viton®" seals

8617.600

F1.1/2"G

8637.100

F1"G

8637.200

F1"G

8637.400

F1"G

8637.500

F1"G

8637.600

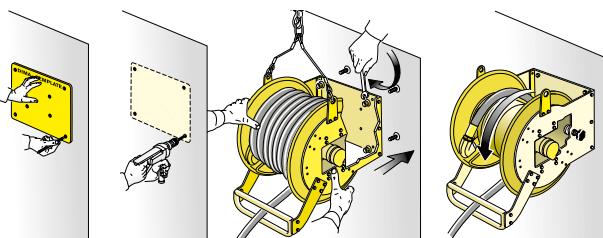
F1.1/2"G

## WALL MOUNTING

After choosing the ideal position, checking the consistency and thickness of the wall, marking the holes for the plugs (see template supplied with the hose reels) and making sure they do not interfere with hydraulic pipes or electrical wires, proceed with drilling.

Fix the plugs in the wall and insert the hose reels in the special seats.

Tighten the 4 fixing nuts.

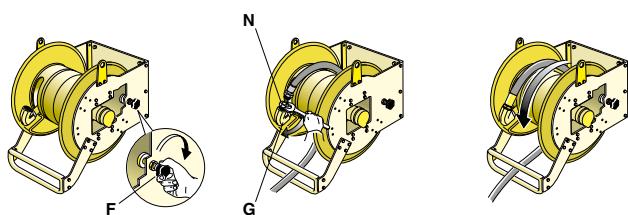


## HOSE MOUNTING - 1" - 1.1/2" Connector

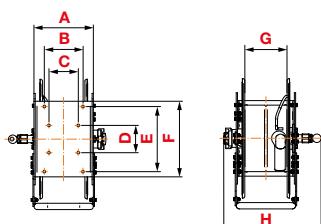
Before carrying out the operation, make sure the hose reels drum is locked by means of the parking brake F.

Screw one Nipple N on the outlet elbow G.

Apply the hose on Nipple N.



## HYDRAULIC OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	L	M	1-m³	kg
S. 617	283	185	140	130	310	360	220	463	692	570	621	0,310	from 55 to 86
S. 637	467	370	140	130	310	360	400	649	692	570	621	0,473	from 75 to 137

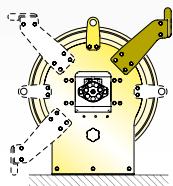


# AIR MOTOR-OPERATED SERIES

S. 618 PNEUMATIC

S. 638 PNEUMATIC

The adjustable arms can be easily repositioned according to needs.



PNEUMATIC

Article

Connection

inlet outlet

PNEUMATIC

Article

Connection

inlet outlet

**Air - Water 20 bar**

- bras swivel joint
- "Viton®" seals

8618.100

F1"G

**Water max 130 °C 100 bar**

- AISI 304 stainless steel swivel joint
- "Viton®" seals

8618.200

F1"G

8638.100

F1"G

**Oil and similar products 150 bar**

- carbon steel swivel joint
- "polyurethane" seals

8618.400

F1"G

8638.400

F1"G

**Grease 400 bar**

- carbon steel swivel joint
- "polyurethane" seals

8618.500

F1"G

8638.500

F1"G

**Diesel fuel 10 bar**

- brass swivel joint
- "Viton®" seals

8618.100

F1"G

8638.100

F1"G

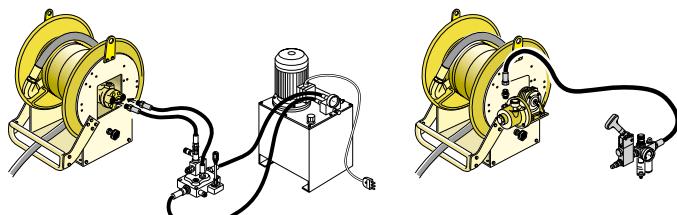
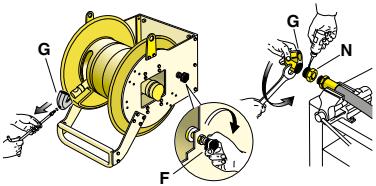
HOSE MOUNTING - 1" Connector

POWER SUPPLY

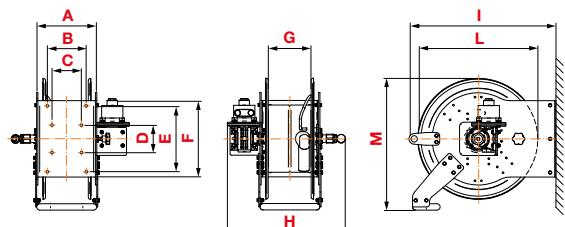
Before carrying out the operation, make sure the hose reels drum is locked by means of the brake **F**. Remove the outlet elbow **G**. Screw one Nipple **N** on the outlet elbow **G**. Screw the hose on nipple **N**. Refit the outlet elbow **G** with the assembled parts.

**The hydraulic motor-operated hose reels** are fed, by means of a control, by an electric control unit (control and control unit not supplied).

**The air motor-operated hose reels** are fed, by means of a control, with direct connection to the compressed air system (control not supplied).



PNEUMATIC OVERALL DIMENSIONS



HYDRAULIC MOTOR-OPERATED  
Oil pressure max 170 bar at  
5 l/min inlet feeding

AIR MOTOR-OPERATED HOSE REELS  
Air pressure max 7 bar at  
2000 l/min inlet feeding

Art.	A	B	C	D	E	F	G	H	I	L	M	1-m³	kg
S. 618	283	185	140	130	310	360	220	555	692	570	621	0,310	from 51 to 82
S. 638	467	370	140	130	310	360	400	740	692	570	621	0,473	from 71 to 133



# SERIES 500 MANUAL PAINTED STEEL

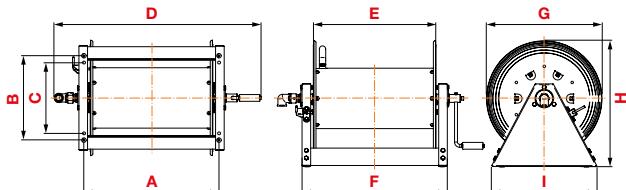
**Manual rewinding hose reels** are an easy and practical way to manage flexible hoses. Operation is extremely simple and needs very little maintenance. Made with high quality materials with a robust frame, manual rewinding hose reels are an inexpensive alternative to spring rewinding hose reels particularly for very long hoses.



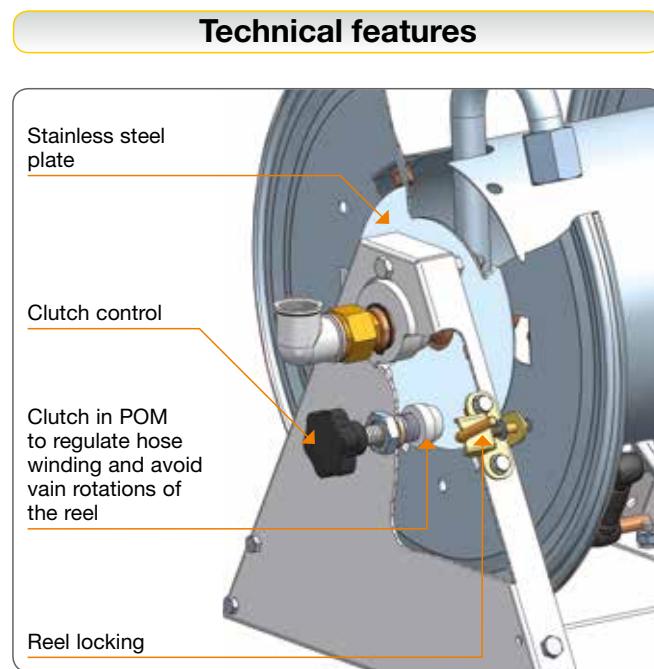
Note: all the hose reels in the following chart are without hose	width 240 mm	width 320 mm	width 460 mm	width 600 mm	Connection	
	inlet	outlet				
<b>Air - Water 20 bar</b> - brass swivel joint - "Viton®" seals	7522001.100	7532001.100	7552001.100	7562001.100	F 1"	F 1"
	7522001.150	7532001.150	7552001.150	7562001.150	F 1/2"	F 1/2"
<b>Water max 130 °C 100 bar</b> - AISI 304 stainless steel swivel joint - "Viton®" seals	7522001.200	7532001.200	7552001.200	7562001.200	F 1"	F 1"
	7522001.250	7532001.250	7552001.250	7562001.250	F 1/2"	F 1/2"
<b>Water max 130 °C 200 bar</b> - AISI 304 stainless steel swivel joint - "Viton®" seals	7522001.300	7532001.300	7552001.300	7562001.300	F 3/8"	F 1/2"
<b>Oil and similar products 150 bar</b> - carbon steel swivel joint - "polyurethane" seals	7522001.400	7532001.400	7552001.400	7562001.400	F 1"	F 1"
	7522001.450	7532001.450	7552001.450	7562001.450	F 1/2"	F 1/2"
<b>Diesel fuel 10 bar</b> - brass swivel joint - "Viton®" seals	7522001.100	7532001.100	7552001.100	7562001.100	F 1"	F 1"

Hose reels capacity	L240	L320	L460	L600
	ø 3/8"	50 m	80 m	120 m
	ø 1/2"	40 m	70 m	105 m
	ø 3/4"	25 m	40 m	60 m
	ø 1"	20 m	30 m	45 m

## OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m <sup>3</sup>	kg
L 240	297	373	313	631	242	342	510	555	468	0,208	25,2
L 320	377	373	313	711	322	422	510	555	468	0,243	26,8
L 460	517	373	313	851	462	562	510	555	468	0,304	29,3
L 600	657	373	313	991	602	702	510	555	468	0,365	31,9





# GROUNDING REEL

**Grounding reel satisfies**  
the need to ground fuel tanks  
during transferring operation  
in order to discharge electric  
charges.



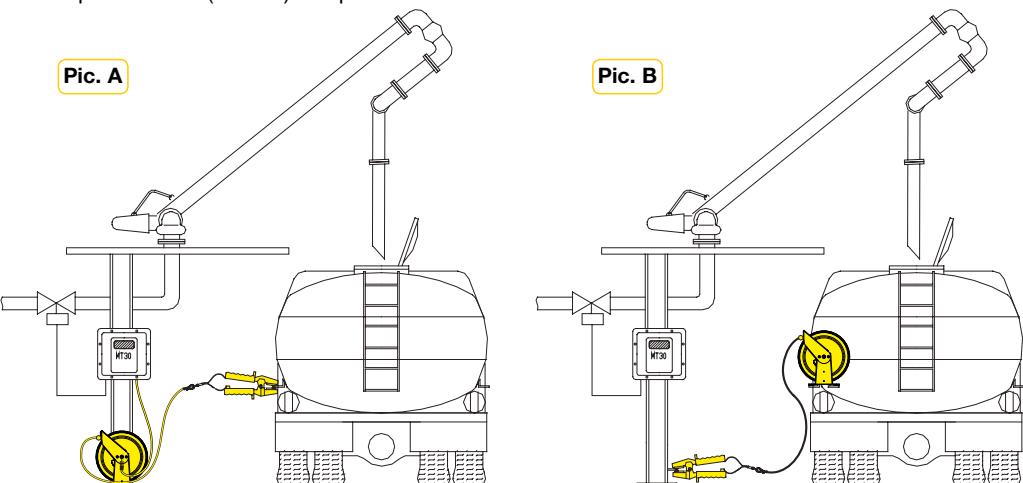
**APPLICATIONS:**  
tanks and oil-refinery,  
aviation, tank truck,  
boating.



## Operation:

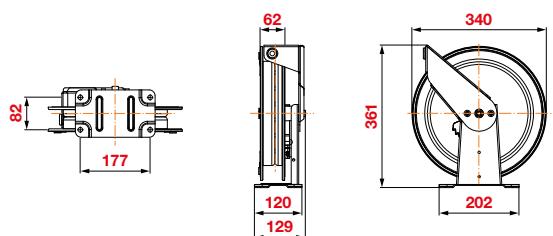
Before begin fuel transfer operator must connect the grounding clamp, mounted at the end of the cable, to the grounding plate which is compulsory on every tank truck (Pic. A). As an alternative the grounding reel may be installed on the tank truck and the clamp connected to the grounding plate (Pic. B). Grounding reel must be installed in a safe zone (potentially not dangerous) since it is not provided with ATEX Certification.

Antiexplosive clamp, standard on some models below listed, may be installed in a potential explosive area (Zone 1) as specified in the CE declaration.



Article	Cable material	Insulation	Cable cross section	Cable length	Grounding clamp
<b>735000</b>	without cable	max cable capacity 30 m - cross section 16 mm <sup>2</sup>			
<b>735131.60141</b>	copper	PUR	6 mm <sup>2</sup>	14,5 m	antiexplosive 10A
<b>735131.60261</b>	copper	PUR	6 mm <sup>2</sup>	26 m	antiexplosive 10A
<b>735131.60152</b>	copper	PUR	6 mm <sup>2</sup>	15 m	standard 50A
<b>735131.60252</b>	copper	PUR	6 mm <sup>2</sup>	25 m	standard 50A
<b>735141.60152</b>	steel	PVC	7x7 ø 5 mm	15 m	standard 50A
<b>735141.60252</b>	steel	PVC	7x7 ø 5 mm	25 m	standard 50A

## OVERALL DIMENSIONS



N°1 packing m<sup>3</sup> 0,045 from 10,3 to 11,5 kg

**Art. 735111**  
Standard grounding  
clamp 100A



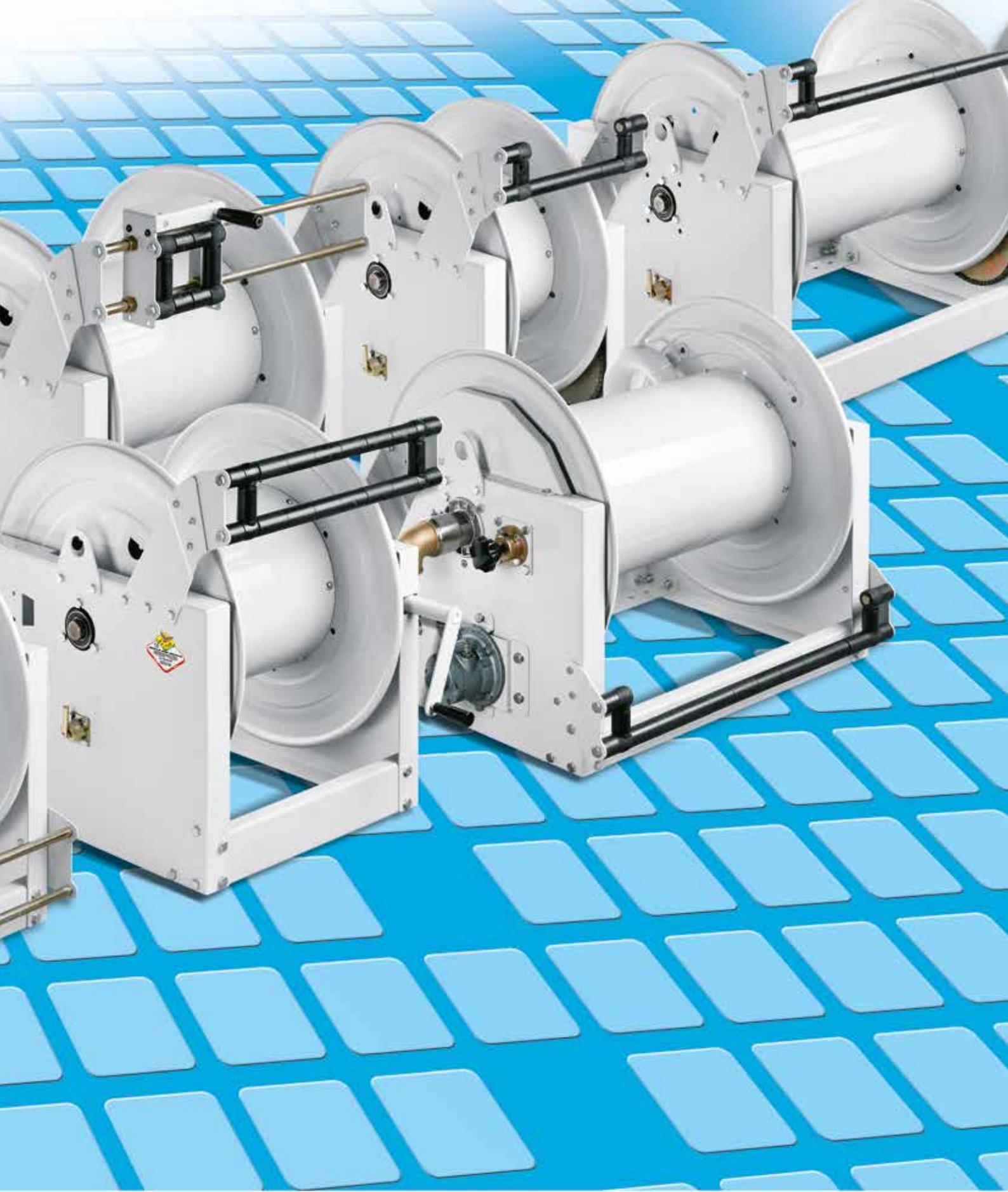


# SERIES 700 MOTOR-OPERATED AND MANUAL

## PAINTED STEEL



...for the complete range of  
**Industrial hose reels Series 700**  
ask for catalogue n. 220/700



**Industrial hose reels series 700** have been designed for fluids delivering in all the heavy applications of industry, mining, building construction, shipyard etc.

**They are available in 4 different sizes** each of them may be equipped with the following motor: **electric (high or low voltage), pneumatic, hydraulic or manual.**

They can manage hoses with max 2" I.D., max length 250 m (with 3/8" hose), suitable for max pressure of 70 bar.



# wall bracket for fixed hose reels

quick fit wall brackets supplied on request



Art. 843001

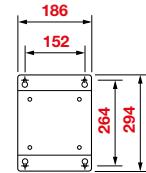


Art. 843002

Art. 843001

**Fixed support in steel**

for fixed hose reels in painted steel  
series 290 - 330 - 390 - 430



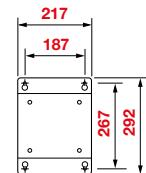
Art. 843002

**Fixed support in AISI 304 stainless steel**

for fixed hose reels in stainless steel and Aisi 304  
series 290 - 330 - 390 - 430



Art. 845001



Art. 845001

**Fixed support in steel**

for fixed enclosed hose reels in painted steel  
series 450



Art. 853001

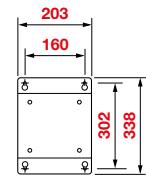


Art. 853002

Art. 853001

**Fixed support in steel**

for fixed hose reels in painted steel  
series 530



Art. 853002

**Fixed support in AISI 304 stainless steel**

for fixed hose reels in stainless steel and Aisi 304  
series 530



Art. 854001

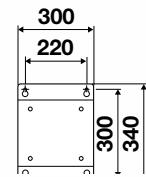


Art. 854002

Art. 854001

**Fixed support in steel**

for fixed hose reels in painted steel  
series 540



Art. 854002

**Fixed support in AISI 304 stainless steel**

for fixed hose reels in stainless steel and Aisi 304  
series 540



Art. 856001

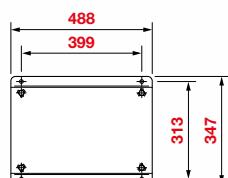


Art. 856002

Art. 856001

**Fixed support in steel**

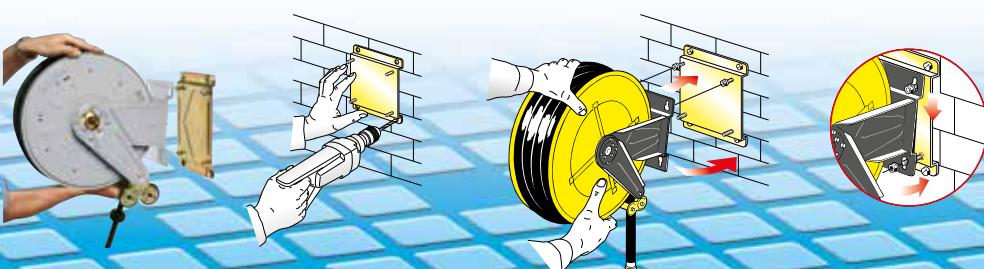
for fixed hose reels in painted steel  
series 560



Art. 856002

**Fixed support in AISI 304 stainless steel**

for fixed hose reels in stainless steel and Aisi 304  
series 560



The **quick coupling support** that facilitates hooking of the single hose reels and optimises its installation in battery (i.e. with several hose reels side by side) is available by request



# swivelling support for fixed hose reels

quick fit swivel brackets supplied on request



Art. 843005



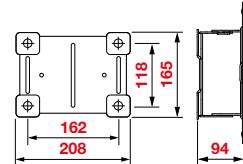
Art. 843006

Art. 843005

**Swivelling support in steel**  
for fixed hose reels in painted steel  
series 290 - 330 - 390 - 430

Art. 843006

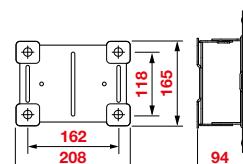
**Swivelling support in AISI 304 stainless steel**  
for fixed hose reels in stainless steel and Aisi 304  
series 290 - 330 - 390 - 430



Art. 845005

Art. 845005

**Swivelling support in steel**  
for fixed enclosed hose reels in painted steel  
series 450



Art. 853005



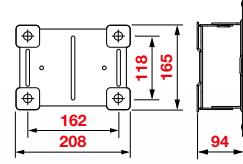
Art. 853006

Art. 853005

**Swivelling support in steel**  
for fixed hose reels in painted steel  
series 530

Art. 853006

**Swivelling support in AISI 304 stainless steel**  
for fixed hose reels in stainless steel and Aisi 304  
series 530



Art. 854005



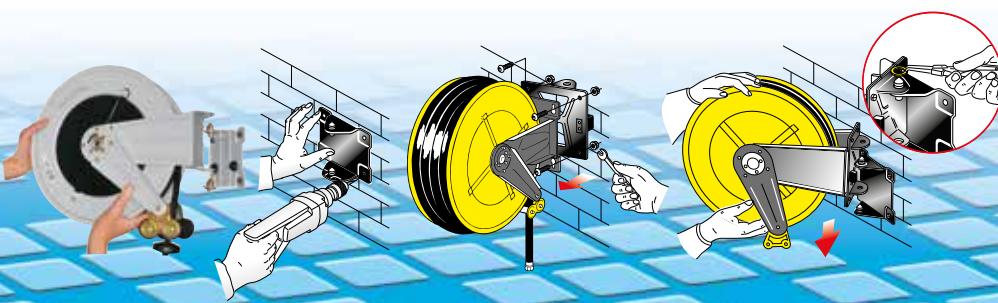
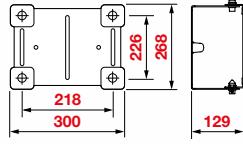
Art. 854006

Art. 854005

**Swivelling support in steel**  
for fixed hose reels in painted steel  
series 540

Art. 854006

**Swivelling support in AISI 304 stainless steel**  
for fixed hose reels in stainless steel and Aisi 304  
series 540



The **quick coupling swivelling support** facilitates hose reels installation and enables 40° rotation to the right or left or locking in fixed positioned at 0° by means of clamping with two screws is available by request



# Hoses

## technical data



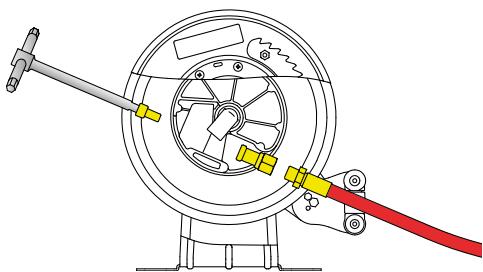
### Hose reels outlet hose connections fittings

Art. 66891	Nipple in carbon steel M 1/4"G x M 1/4"G tapered/cylindrical thread
Art. 66892	Nipple in carbon steel M 1/4"G x M 3/8"G cylindrical/cylindrical thread
Art. 66893	Nipple in carbon steel M 1/2"G x M 1/4"G cylindrical/cylindrical thread
Art. 33114	Nipple in carbon steel M 1"G x M 1/2"G cylindrical/cylindrical thread
Art. 33116	Nipple in carbon steel M 1"G x M 1"G cylindrical/cylindrical thread
Art. 33117	Nipple in carbon steel M 3/4"G x M 3/4"G cylindrical/cylindrical thread
Art. 33119	Nipple in carbon steel M 1"G x M 3/4"G cylindrical/cylindrical thread
Art. 33270	Nipple in carbon steel M 1.1/2"G x M 3/4"G cylindrical/cylindrical thread
Art. 33271	Nipple in carbon steel M 1.1/2"G x M 1"G cylindrical/cylindrical thread
Art. 33272	Nipple in carbon steel M 1.1/2"G x M 1.1/4"G cylindrical/cylindrical thread
Art. 33273	Nipple in carbon steel M 1.1/2"G x F 1.1/4"G cylindrical/cylindrical thread
Art. 33274	Nipple in carbon steel M 1"G x F 1/2"G cylindrical/cylindrical thread
Art. 38071	Nipple in carbon steel M 1/2"G x M 1/2"G tapered/cylindrical thread
Art. 38072	Nipple in carbon steel M 1/2"G x M 3/8"G cylindrical/cylindrical thread
Art. 38073	Nipple in carbon steel M 3/8"G x M 3/8"G tapered/cylindrical thread

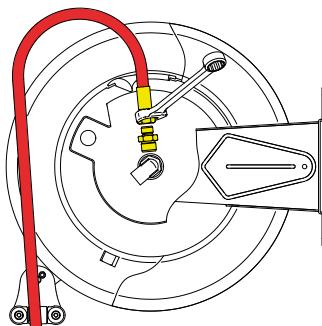


Art. 33128	Nipple in AISI 304 stainless steel M 1"G x M 3/4"G cylindrical/cylindrical thread
Art. 33129	Nipple in AISI 304 stainless steel M 1"G x M 1"G cylindrical/cylindrical thread
Art. 33130	Nipple in AISI 304 stainless steel M 3/4"G x M 3/4"G cylindrical/cylindrical thread
Art. 33131	Nipple in AISI 316 stainless steel M 1" x M 3/4" G cylindrical/cylindrical thread
Art. 33132	Nipple in AISI 316 stainless steel M 1" x M 1" G cylindrical/cylindrical thread
Art. 33133	Nipple in AISI 316 stainless steel M 1" x M 1/2" G cylindrical/cylindrical thread
Art. 38120	Nipple in AISI 304 stainless steel M 1/2"G x M 3/8"G cylindrical/cylindrical thread
Art. 38121	Nipple in AISI 304 stainless steel M 1/2"G x M 1/2"G cylindrical/cylindrical thread
Art. 38123	Nipple in AISI 304 stainless steel M 1/2" x M 3/8" G tapered/cylindrical thread
Art. 38124	Nipple in AISI 304 stainless steel M 1/2" x M 1/2" G tapered/cylindrical thread

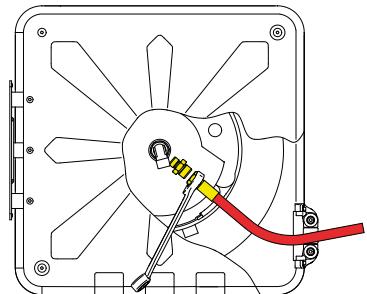
### HOSE REELS OUTLET HOSE CONNECTION



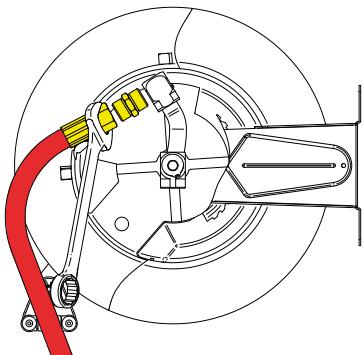
Series 290 - 330 - 380 - 390



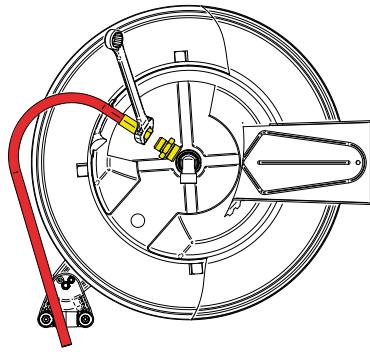
Series 420 - 430 - 520 - 530



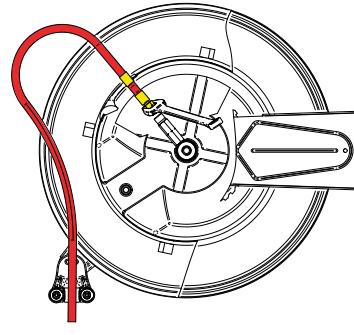
Series 440 - 450



Series 540-550-560  
outlet 1"



Series 540-550-560  
outlet 1/2"



Series Welding - Natural Gas

# HOSES - TECHNICAL DATA

The range of hoses offered by RAASM for its hose reels is in line with company's quality standards and guarantees excellent performance in the applications with the pressures specified in the catalogue. For conditions different from those recommended, RAASM is available to appraise every aspect of the application context (compatibility of the materials used with the fluid, temperature of use, working pressure, etc.) together with the customer for identifying the right hose for each specific case.



The hoses to be assembled on the hose reels must be suitable for the **working pressures specified on the label**.

## HOSE REELS - SYSTEMS EQUIPMENT CONNECTION HOSES TABLE

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet	Pressure	Unions
967.206	0,6m	rubber EPDM antistatic	3/4"	19 x 27	F 3/4"G	M 1"G	10 bar	s/steel AISI 316
971.102	1,5m	polyurethane	5/16"	8 x 12	M 1/4"G	SNODO	20 bar	brass
975.902	1,5m	SBR/EPDM	2 x 3/8"	9 + 9x16	F 3/8"G	F 3/8"G	20 bar	brass
975.1002	1,5m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx	20 bar	brass
972.102	1,5m	polyurethane	10 x 14,5	10 x 14,5	M 3/8"G	F 3/8"G	20 bar	brass
976.102	1,5m	polyurethane	13 x 19	13 x 19	F 1/2"G	M 1/2"G	20 bar	brass
993.201	1m	black rubber	1/4"	6,4 x 13	F 1/4"G	M 1/4"G	20 bar	galvanized steel
993.202	2m	black rubber	1/4"	6,4 x 13	F 1/4"G	M 1/4"G	20 bar	galvanized steel
995.206	0,6m	black rubber	3/8"	9,5 x 16	F 3/8"G	M 3/8"G	20 bar	galvanized steel
996.406	0,6m	hygienic cover	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G	100 bar	galvanized steel
998.406	0,6m	hygienic cover	1"	24,5 x 31,5	F 1"G	M 1"G	100 bar	galvanized steel
996.306	0,6m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G	150 bar	galvanized steel
996.301	1m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G	150 bar	galvanized steel
996.302	2m	black rubber	1/2"	12,7 x 19	F 1/2"G	F 1/2"G	150 bar	galvanized steel
996.304	4m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G	150 bar	galvanized steel
997.505	5m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G	150 bar	galvanized steel
998.3306	0,6m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G	50 bar	galvanized steel
998.501	1m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G	150 bar	galvanized steel
998.502	2m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G	150 bar	galvanized steel
995.506	0,6m	black rubber	3/8"	9,5 x 17	F 3/8"G	M 3/8"G	200 bar	galvanized steel
995.606	0,6m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	M 3/8"G	200 bar	galvanized steel
995.806	0,6m	black rubber	3/8"	9,5 x 17,5	F 3/8"G	M 3/8"G	400 bar	galvanized steel
995.906	0,6m	hygienic cover	3/8"	9,5 x 17,5	F 3/8"G	M 3/8"G	400 bar	galvanized steel
993.504	4m	black rubber	1/4"	6,3 x 17,5	F 1/4"G	M 1/4"G	400 bar	galvanized steel
995.706	0,6m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 3/8"G	400 bar	galvanized steel
995.701	1m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 3/8"G	400 bar	galvanized steel
995.702	2m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 3/8"G	400 bar	galvanized steel



# Hoses

## technical data

Air  
Water  
**20 bar**

Fittings  
**Galvanized steel**  
for black rubber hoses

Brass  
for polyurethane hoses

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>971.010</b>	10m	polyurethane	1/4"	6 x 10	M 3/8"G	M 1/4"G
<b>971.011</b>	11m	polyurethane	1/4"	6 x 10	M 1/4"G	M 1/4"G
<b>971.015</b>	15m	polyurethane	1/4"	6 x 10	M 3/8"G	M 1/4"G
<b>971.111</b>	11m	polyurethane	5/16"	8 x 12	M 1/4"G	M 1/4"G
<b>971.115</b>	15m	polyurethane	5/16"	6 x 12	M 3/8"G	M 1/4"G
<b>971.118</b>	18m	polyurethane	5/16"	8 x 12	M 3/8"G	M 1/4"G
<b>971.120</b>	20m	polyurethane	5/16"	8 x 12	M 3/8"G	M 1/4"G
<b>972.113</b>	13m	polyurethane	3/8"	10 x 14,5	M 3/8"G	M 3/8"G
<b>972.115</b>	15m	polyurethane	3/8"	10 x 14,5	M 3/8"G	M 3/8"G
<b>972.120</b>	20m	polyurethane	3/8"	10 x 14,5	M 3/8"G	M 3/8"G
<b>976.108</b>	8m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
<b>976.110</b>	10m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
<b>976.111</b>	10m	polyurethane	1/2"	13 x 19	F 1/2"G	M 1/2"G
<b>976.112</b>	12m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
<b>976.114</b>	15m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
<b>976.115</b>	15m	polyurethane	1/2"	13 x 19	F 1/2"G	M 1/2"G
<b>993.215</b>	15m	black rubber	1/4"	6,5 x 12,6	M 3/8"G	M 1/4"G
<b>995.210</b>	10m	black rubber	3/8"	9,5 x 17	M 3/8"G	M 3/8"G
<b>995.211</b>	12m	black rubber	3/8"	9,5 x 16	M 3/8"G	M 3/8"G
<b>995.212</b>	12m	black rubber	3/8"	9,5 x 16	F 3/8"G	M 3/8"G
<b>995.217</b>	18m	black rubber	3/8"	9,5 x 16	M 3/8"G	M 3/8"G
<b>995.218</b>	18m	black rubber	3/8"	9,5 x 16	F 3/8"G	M 3/8"G
<b>996.210</b>	10m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
<b>996.215</b>	15m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
<b>996.220</b>	20m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
<b>996.225</b>	25m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
<b>996.230</b>	30m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
<b>997.215</b>	15m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
<b>997.220</b>	20m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
<b>997.230</b>	30m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
<b>997.240</b>	40m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
<b>998.215</b>	15m	black rubber	1"	25,4 x 32,5	F 1"G	M 1"G
<b>998.220</b>	20m	black rubber	1"	25,4 x 32,5	F 1"G	M 1"G
<b>998.230</b>	30m	black rubber	1"	25,4 x 32,5	F 1"G	M 1"G

Water  
max 130 °C

**100 bar**

\* **50 bar**

Fittings  
**Galvanized steel**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>995.313</b>	12m	black rubber	3/8"	9,5 x15	M 3/8"G	M 3/8"G
<b>995.318</b>	17m	black rubber	3/8"	9,5 x15	M 3/8"G	M 3/8"G
<b>995.412</b>	12m	hygienic cover	3/8"	9,5 x15	M 3/8"G	M 3/8"G
<b>996.311</b>	10m	black rubber	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
<b>996.316</b>	15m	black rubber	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
<b>996.321</b>	20m	black rubber	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
<b>996.415</b>	15m	hygienic cover	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
<b>996.425</b>	25m	hygienic cover	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
<b>997.320</b>	20m	black rubber	3/4"	19 x 25	F 3/4"G	M 3/4"G
<b>997.420</b>	20m	hygienic cover	3/4"	19 x 25	F 3/4"G	M 3/4"G
<b>998.315</b>	15m	black rubber	1" *	25,4 x 31,5	F 1"G	M 1"G
<b>998.330</b>	30m	black rubber	1" *	25,4 x 31,5	F 1"G	M 1"G



# Hoses

## technical data

**Water**  
max 130 °C  
**200 bar**

Fittings  
**Galvanized steel**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>994.512</b>	12m	black rubber	5/16"	8 x 15	M 3/8"G	F 3/8"G
<b>994.517</b>	17m	black rubber	5/16"	8 x 15	M 3/8"G	F 3/8"G
<b>994.612</b>	12m	hygienic cover	5/16"	8 x 15	M 3/8"G	F 3/8"G
<b>995.512</b>	12m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.518</b>	18m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.520</b>	20m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.525</b>	25m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.530</b>	30m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.540</b>	40m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.550</b>	50m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.618</b>	18m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.625</b>	25m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
<b>995.630</b>	30m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	F 3/8"G

**Water**  
max 130 °C  
**400 bar**

Fittings  
**Galvanized steel**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>994.717</b>	17m	black rubber	5/16"	8 x 16	M 3/8"G	F 3/8"G
<b>995.815</b>	15m	black rubber	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G
<b>995.825</b>	25m	black rubber	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G
<b>995.915</b>	15m	hygienic cover	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G
<b>995.925</b>	25m	hygienic cover	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G

**Oil and similar products**  
**150 bar**  
\* **50 bar**  
\*\* **100 bar**

Fittings  
**Galvanized steel**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>995.312</b>	12m	black rubber	3/8"	9,5 x 17	M 3/8"G	M 1/2"G
<b>995.317</b>	17m	black rubber	3/8"	9,5 x 17	M 3/8"G	M 1/2"G
<b>996.310</b>	10m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
<b>996.315</b>	15m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
<b>996.320</b>	20m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
<b>996.325</b>	25m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
<b>996.330</b>	30m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
<b>997.3315</b>	15m	black rubber	3/4" *	19 x 26,5	F 3/4"G	M 3/4"G
<b>997.3320</b>	20m	black rubber	3/4" *	19 x 26,5	F 3/4"G	M 3/4"G
<b>998.3315</b>	15m	black rubber	1" **	25,4 x 35,5	F 1"G	M 1"G
<b>998.3330</b>	30m	black rubber	1" **	25,4 x 35,5	F 1"G	M 1"G

**Grease**  
**400 bar**

Fittings  
**Galvanized steel**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>993.511</b>	12m	black rubber	1/4"	6,3 x 17,5	M 3/8"G	M 1/4"G
<b>993.512</b>	12m	black rubber	1/4"	6,3 x 17,5	F 1/4"G	M 1/4"G
<b>993.516</b>	16m	black rubber	1/4"	6,3 x 17,5	M 3/8"G	M 1/4"G
<b>993.518</b>	18m	black rubber	1/4"	6,3 x 17,5	F 1/4"G	M 1/4"G
<b>995.710</b>	10m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
<b>995.715</b>	15m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
<b>995.720</b>	20m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
<b>995.725</b>	25m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
<b>995.730</b>	30m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G



# Hoses

## technical data

**Diesel fuel**  
**10 bar**

Fittings  
**Galvanized steel**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>997.812</b>	12m	black rubber	3/4"	19 x 27	F 1/2"G	M 1/2"G
<b>997.815</b>	15m	black rubber	3/4"	19 x 27	F 3/4"G	M 3/4"G
<b>997.820</b>	20m	black rubber	3/4"	19 x 27	F 3/4"G	M 3/4"G
<b>997.840</b>	40m	black rubber	3/4"	19 x 27	F 3/4"G	M 3/4"G
<b>998.808</b>	8m	black rubber	1"	25 x 35	F 1"G	M 1"G
<b>998.815</b>	15m	black rubber	1"	25 x 35	F 1"G	M 1"G
<b>998.820</b>	20m	black rubber	1"	25 x 35	F 1"G	M 1"G
<b>998.830</b>	30m	black rubber	1"	25 x 35	F 1"G	M 1"G

**AdBlue®**  
**10 bar**

Fittings  
**AISI 316**  
Stainless steel

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>967.210</b>	10m	rubber EPDM antistatic	3/4"	19 x 27	F 3/4"G	M 3/4"G
<b>967.215</b>	15m	rubber EPDM antistatic	3/4"	19 x 27	F 3/4"G	M 3/4"G

**Welding**  
**20 bar**  
**EN 559**

Fittings  
**Brass**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>973.913</b>	13m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	M 3/8"G
<b>973.917</b>	17m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
<b>973.920</b>	20m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
<b>973.925</b>	25m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
<b>973.930</b>	30m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
<b>974.912</b>	12m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
<b>974.915</b>	15m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
<b>974.920</b>	20m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
<b>974.925</b>	25m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
<b>974.930</b>	30m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
<b>975.915</b>	15m	SBR/EPDM	2x3/8"	9 + 9x16	F 3/8"G	F 3/8"G
<b>975.920</b>	20m	SBR/EPDM	2x3/8"	9 + 9x16	F 3/8"G	F 3/8"G
<b>975.927</b>	27m	SBR/EPDM	2x3/8"	9 + 9x16	F 3/8"G	F 3/8"G

**Lpg and Natural gas**  
**20 bar**  
**EN 559**

Fittings  
**Brass**

Article	Hose length	Hose characteristics	Ø Hose	Dimensions (mm)	Inlet	Outlet
<b>974.1008</b>	8m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
<b>974.1015</b>	15m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
<b>974.1020</b>	20m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
<b>974.1028</b>	28m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
<b>975.1010</b>	10m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
<b>975.1015</b>	15m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
<b>975.1018</b>	18m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
<b>975.1027</b>	27m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
<b>975.1030</b>	30m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx



## INDUSTRIAL PUMPS





## RAASM INDUSTRIAL

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FLUIDS AND LUBRICATION EQUIPMENT

# Industrial Pumps



INTRODUCTION

page 190



PUMPS FOR OILS AND SIMILAR PRODUCTS

page 196



GREASE PUMPS

page 202



PUMPS FOR INDUSTRIAL FLUIDS

page 206

AISI 304 STAINLESS STEEL PUMPS

page 208



ACCESSORIES

page 210

PUMP ELEVATORS AND RAM

page 212



## Total Quality



Innovative design for optimising the pump work cycle.

The result of years of research and development, during which numerous tests were carried out for thousands of work hours.

High quality materials used, cutting-edge processes, hardening and grinding for reducing internal friction and limiting wear.

Fewer moving parts for easy and occasional maintenance with savings in running costs.

The industrial pumps guarantee high efficiency in capacity and operating pressure.

Double action ensures a continuous and constant flow of the fluid delivered.

# Versatility

## INTEGRAL INDUSTRIAL PUMPS



Air motor and pumping unit form a single body. They are recommended for transferring non-corrosive fluids, oil and allied products.

## FLANGED INDUSTRIAL PUMPS



Air motor and pumping unit form a single body. They are recommended for transferring non-corrosive fluids, oil and allied products. The motor base is flanged to enable application of the handles which are useful for easy moving and for simple fixing in various other applications.

## DIVORCED INDUSTRIAL PUMPS

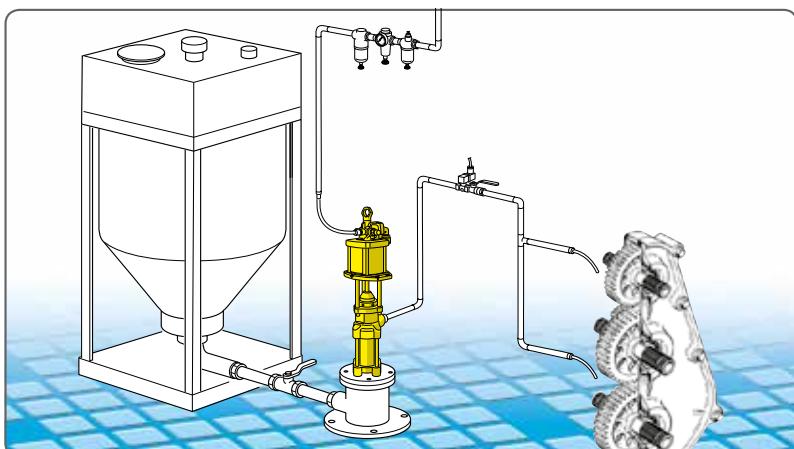


Air motor and pumping unit are separate so that the fluid cannot come into direct contact with the motor body. They are recommended for transferring non-aggressive industrial and chemical fluids. The motor base is flanged to enable application of the handles which are useful for easy moving and for simple fixing in various other applications.

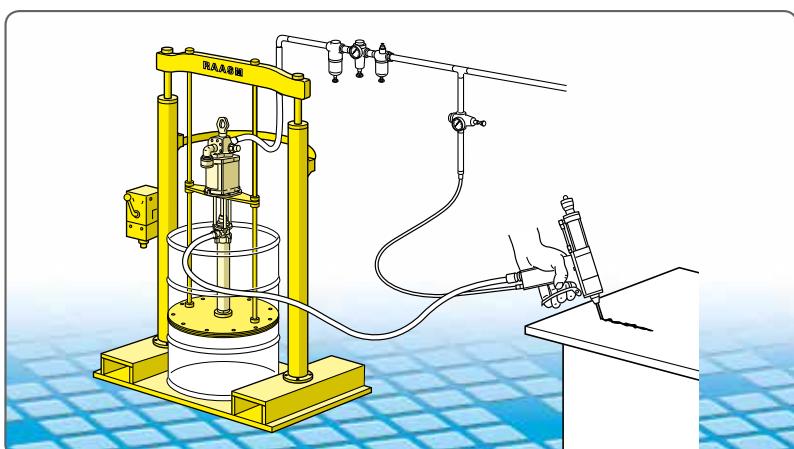
The **integral pumps** and **flanged pumps** are available in the drum version and modular version (modular = extendable with a rigid suction tube, or in the wall application with a flexible suction tube)



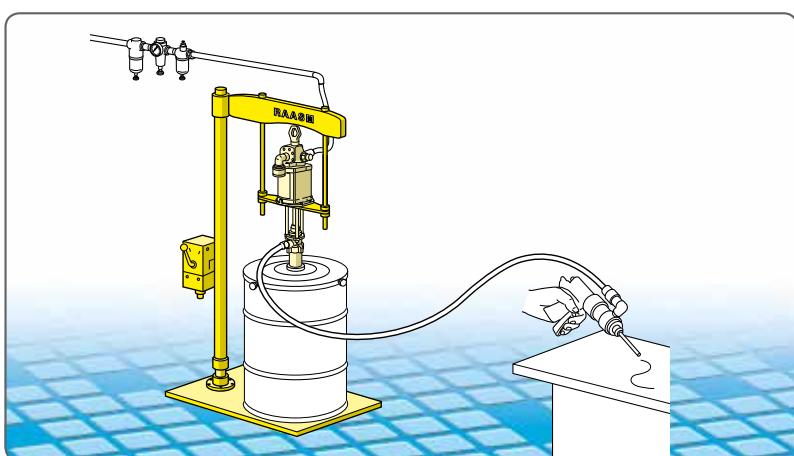
## Examples of industrial pump applications



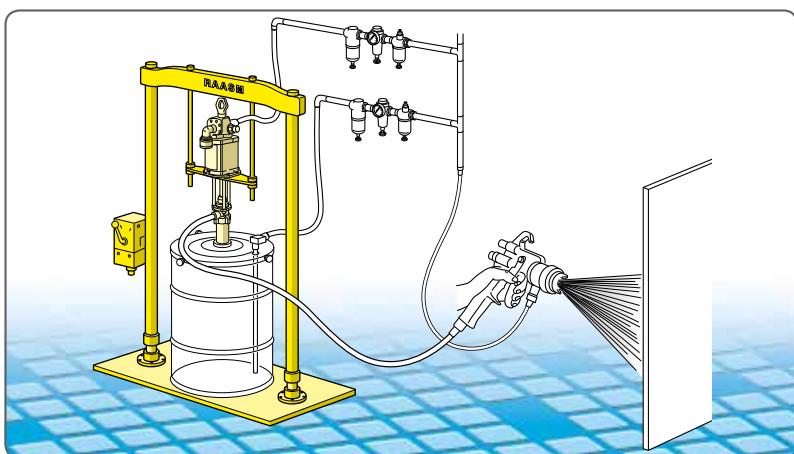
Stations for continuous feed of machinery by means of distribution of fluids in line (lubricants, inks, adhesives, etc.) with pump connected to the tank or fixed to the floor with bracket.



Automated system for the delivery of preselected quantities of fluids (inks, paints, greases, etc.), fed by pumps mounted on drum, with lift.



Application of sealants, adhesives, greases, etc., by means of special delivery gun fed by pump mounted on drum in fixed or mobile station.

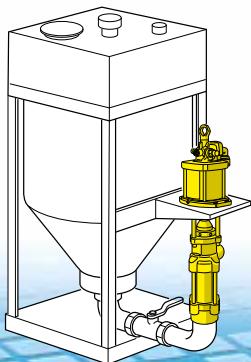


Fluid distribution system (for paints, lubricants, protective liquids, etc.) fed by pump mounted on drum in fixed station and delivery with spray gun.

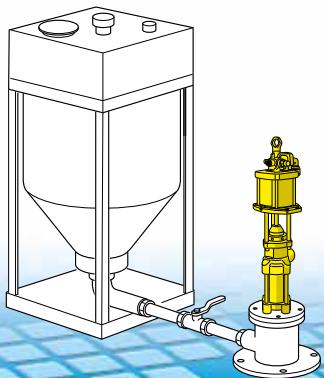


# Industrial pump installations on tanks or drums

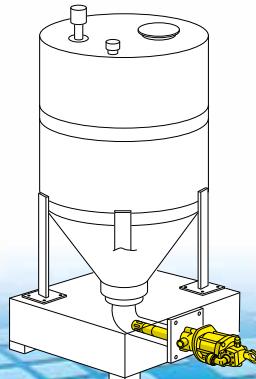
For tank with pump in vertical position mounted on bracket



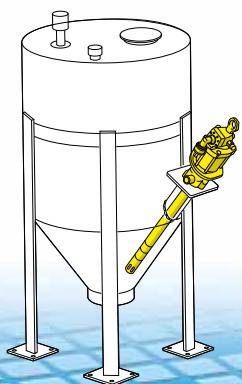
For tank with pump in vertical position mounted on floor with bracket



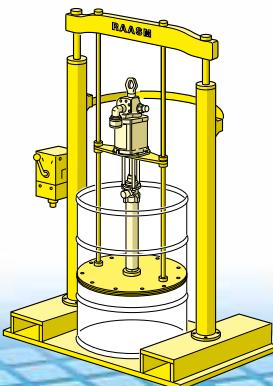
For tank with pump in horizontal position



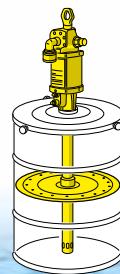
For tank with pump in inclined position



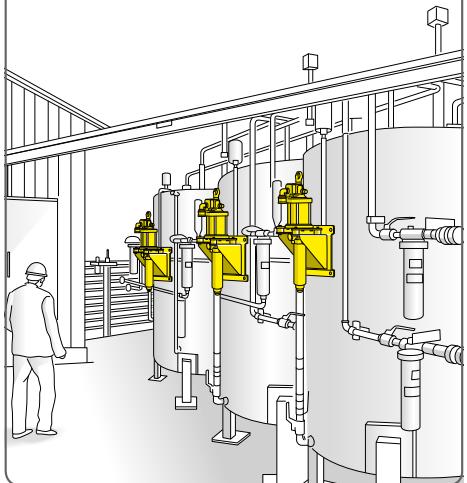
For 200 kg drum, with double ram hoist and follower



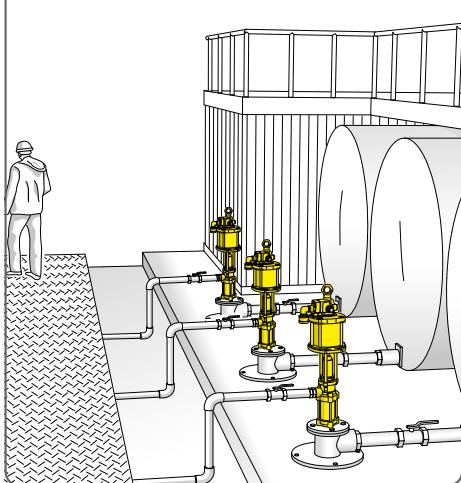
For 200 kg drums, standard application



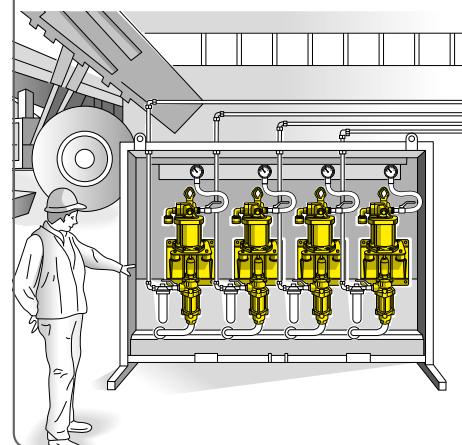
Industrial pumps installed on vertical bulk containers



Industrial pumps installed on pedestals connected to horizontal bulk containers

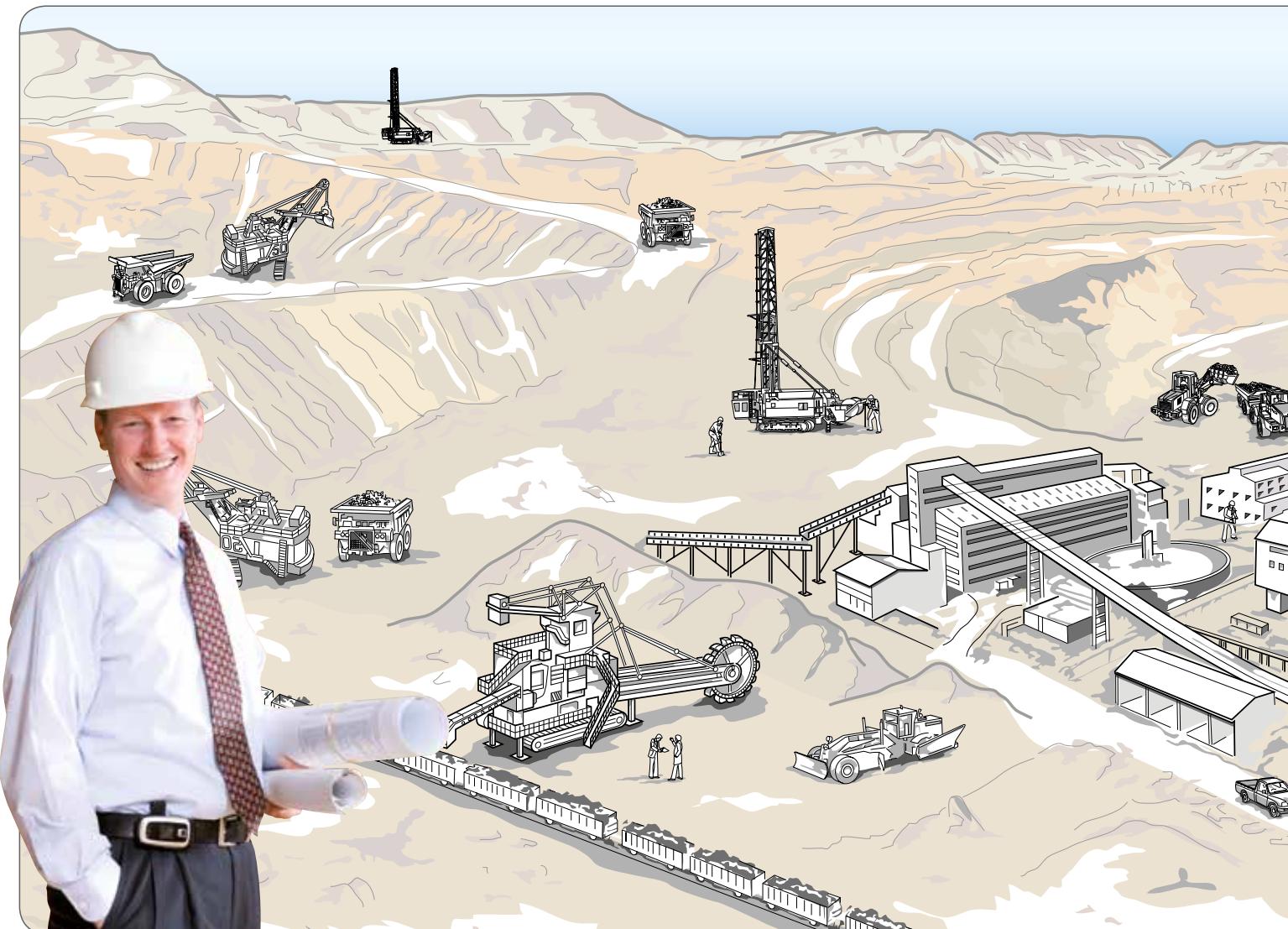


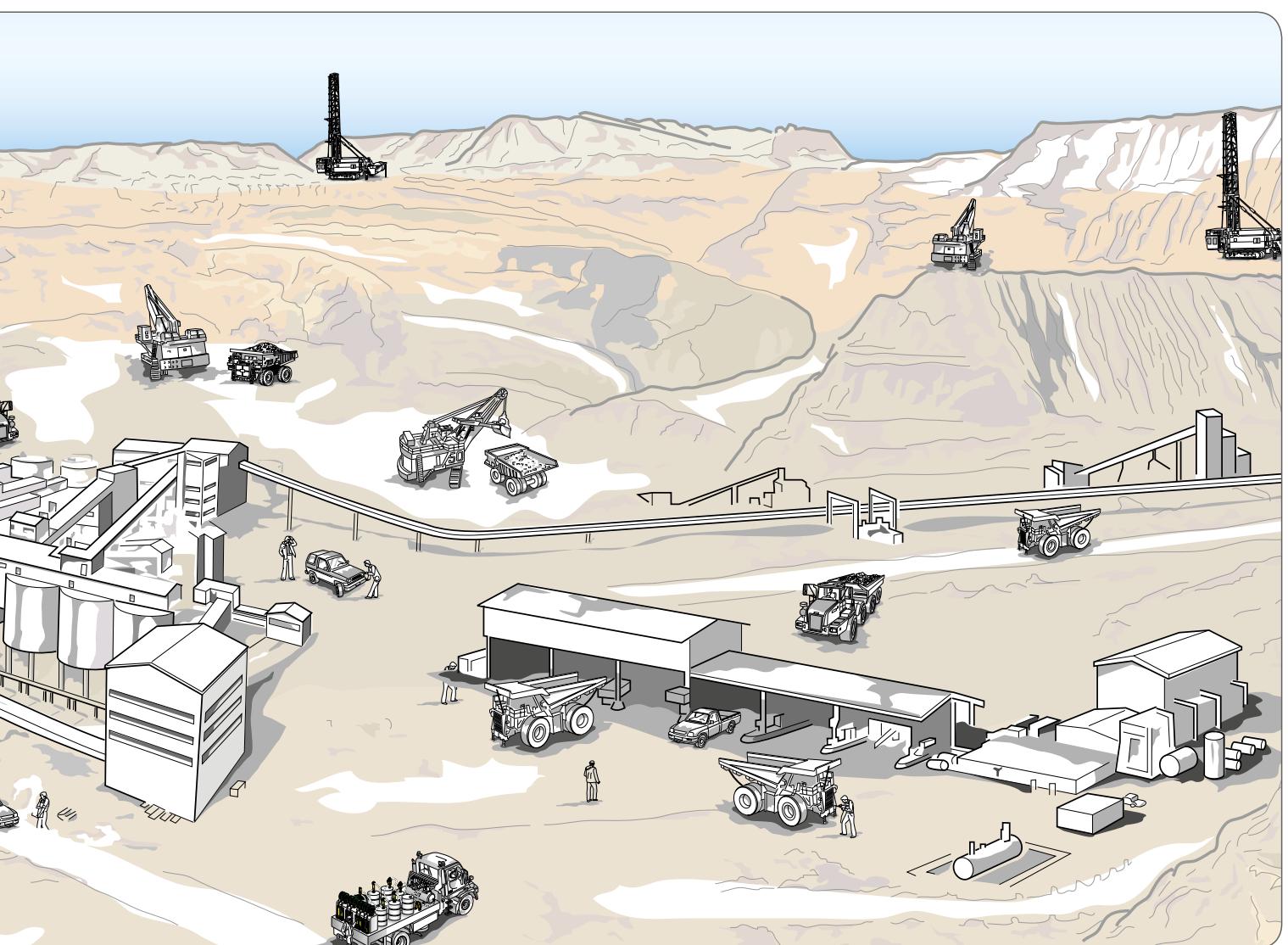
Bank of pumps connected with bulk containers





**...everything for mining  
technology, quality, functionality**







# Air-operated INDUSTRIAL PUMPS

## oil and similar products

Ratio 5:1  
Flow rate 45 l/min

### Double action series 900 air-operated industrial pumps for distribution.

Suitable for transferring oils, lubricants and similar products, also high viscosity. The double action guarantees the delivery of a continuous and constant flow. Ideal for every needs. Particularly effective in systems equipped with several dispensing points.



Article with seals in PU	90C/51	90F/51
<b>Compatible fluids</b>		
Suction tube upper body	Oils, lubricants and similar	Aluminium
Suction tube	Carbon steel	
Air inlet connection bsp	F 1/2"	F 1/2"
Fluid outlet connection bsp	F 3/4"	F 3/4"
Max. air consumption 8 bar m <sup>3</sup> /min	1,6	1,6
Noise level dB	80	80
Air max. feed pressure bar	8	8
<b>Suitable for drums or tanks</b>		
Packing	1 - 0,040	1 - 0,040
Weight kg	12	13
Dimensions (A - B - C) cm	43 - 27 - 6,2	44,5 - 27 - 6,2



series 900

integral

flanged

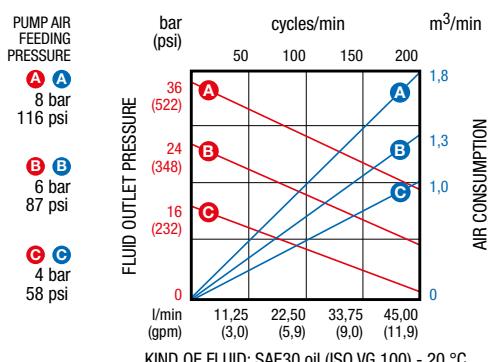
90C/51

90F/51

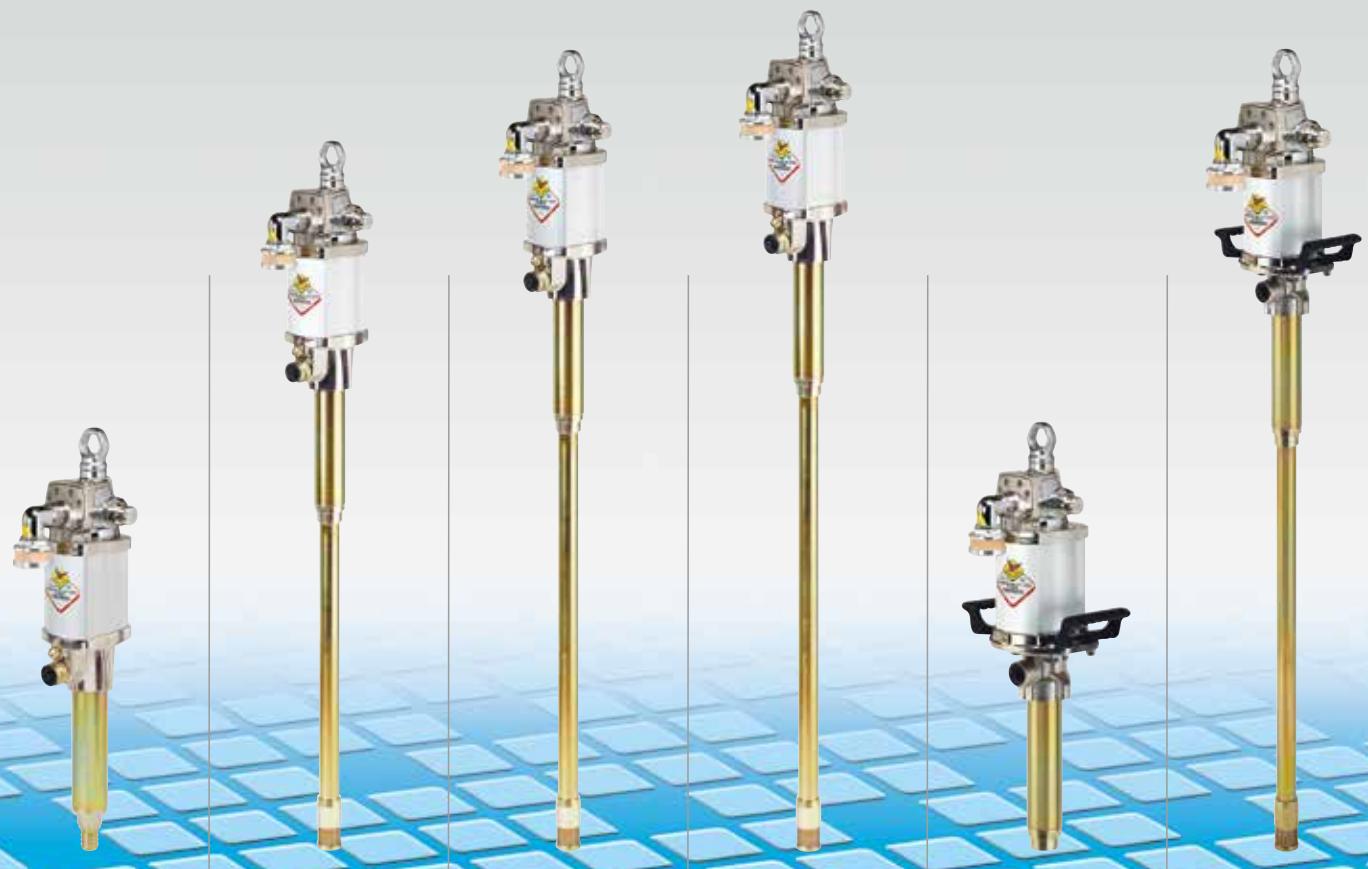
Oils, lubricants and similar

Aluminium

Carbon steel

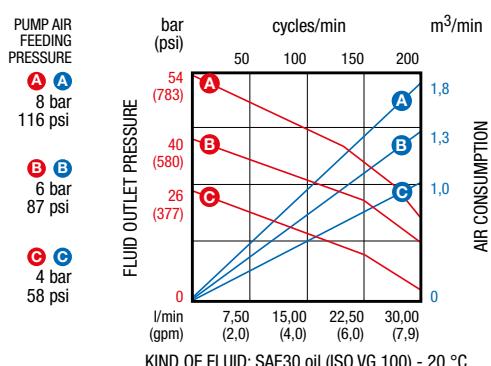


**Ratio 7:1**  
**Flow rate 30 l/min**



series 900

integral	integral	integral	integral	flanged	flanged
90C/71	93C/71	91C/71	92C/71	90F/71	91F/71
Oils, lubricants and similar					
Aluminium					
Carbon steel					
F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"
F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"
1,6	1,6	1,6	1,6	1,6	1,6
80	80	80	80	80	80
8	8	8	8	8	8
modular	suitable for drums 50-60 kg	suitable for drums 180-220 kg	tank	modular	suitable for drums 180-220 kg
1 - 0,040	1 - 0,080	1 - 0,080	1 - 0,080	1 - 0,040	1 - 0,070
11	13,5	14,5	15	12	14
43 - 27 - 5,3	43 - 74 - 5,3	43 - 94 - 5,3	43 - 126 - 5,3	44,5 - 27 - 5,3	44,5 - 94 - 5,3





# Air-operated INDUSTRIAL PUMPS

## oil and similar products

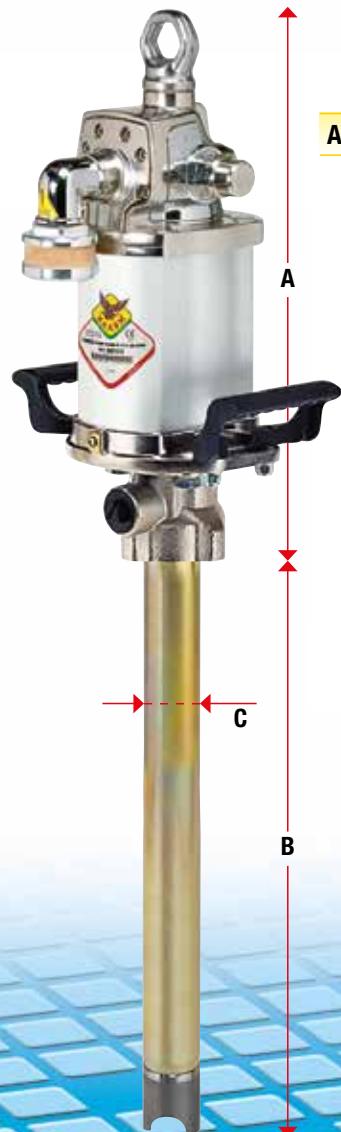
Ratio 11:1  
Flow rate 30 l/min

### Double action series 900 and 1200 air-operated industrial pumps for distribution.

Suitable for transferring oils, lubricants and similar products, also high viscosity. the double action guarantees the delivery of a continuous and constant flow.

Ideal for every needs.

Particularly effective in systems equipped with several dispensing points.



#### Article with seals in PU

##### Compatible fluids

##### Suction tube upper body

##### Suction tube

##### Air inlet connection

**PU**

**90C/111**

**series 900**

**integral**

**91C/111**

Oils, lubricants and grease

Aluminium  
Carbon steel

##### Fluid outlet connection

**F 1/2"**

**F 1/2"**

**F 1/2"**

##### Max. air consumption 8 bar

**m<sup>3</sup>/min**

**1,7**

**1,7**

**1,7**

##### Noise level

**dB**

**80**

**80**

**80**

##### Air max. feed pressure

**bar**

**8**

**8**

**8**

#### Suitable for drums or tanks

##### Packing



**N° - m<sup>3</sup>**

##### Weight



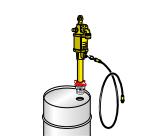
**kg**

##### Dimensions (A - B - C)

**cm**



modular



suitable for drums 50-60 kg



suitable for drums 180-220 kg

##### PUMP AIR FEEDING PRESSURE

**A A**

8 bar

116 psi

**B B**

6 bar

87 psi

**C C**

4 bar

58 psi

##### FLUID OUTLET PRESSURE

**bar**

(psi)

65

130

195

260

1,9

1,4

1,0

0

**cycles/min**

**m<sup>3</sup>/min**

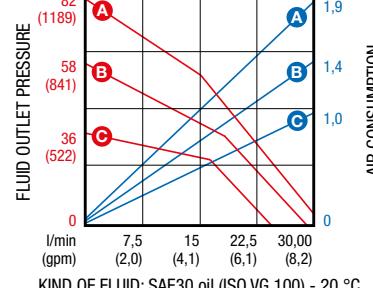
**l/min (gpm)**

(2,0)

(4,1)

(6,1)

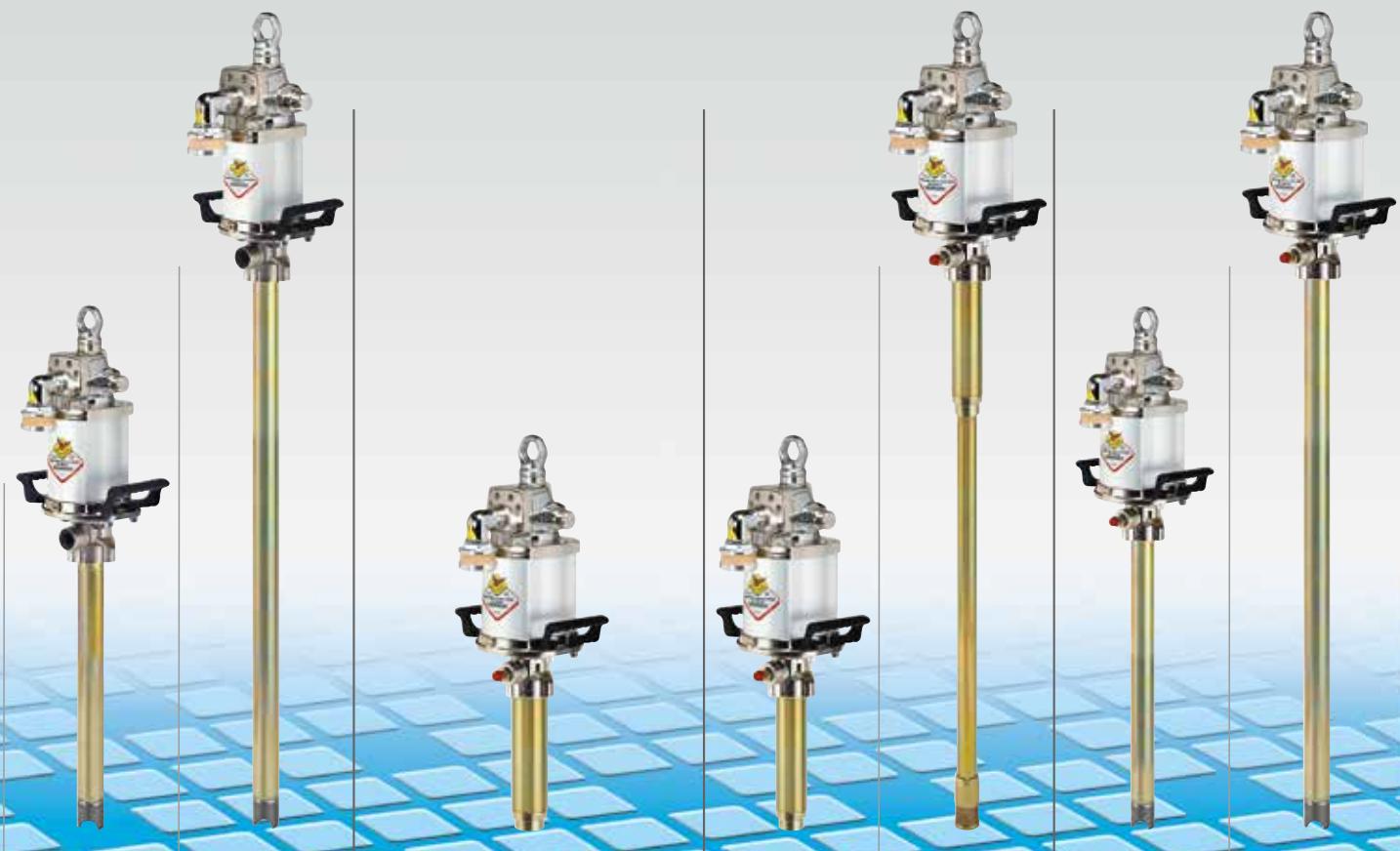
(8,2)



**Ratio 9:1**  
**Flow rate 45 l/min**

**Ratio 12:1**  
**Flow rate 30 l/min**

**Ratio 18:1**  
**Flow rate 23 l/min**



**series 900**

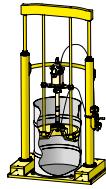
flanged

**90F/111**      **91F/111**

Oils, lubricants and grease

Carbon steel  
Carbon steel

F 1/2"	F 1/2"
F 3/4"	F 3/4"
1,7	1,7
80	80
8	8



suitable for drums  
180-220 kg

**1 - 0,045**

**13**

**44,5 - 48 - 4,5**

**series 1200**

flanged

**115F/91**

Oils, lubricants and similar

Carbon steel  
Carbon steel

F 1/2"	F 1/2"
F 3/4"	F 3/4"
2,8	2,8
80	80
8	8



**1 - 0,40**

**14**

**44,5 - 23 - 6,2**

**series 1200**

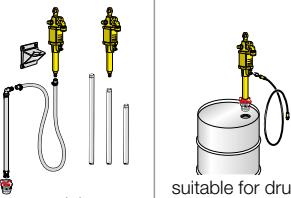
flanged

**115F/121**      **116F/121**

Oils, lubricants and similar

Carbon steel  
Carbon steel

F 1/2"	F 1/2"
F 3/4"	F 3/4"
2,8	2,8
80	80
8	8



**1 - 0,040**

**13**

**44,5 - 23 - 5,3**

**series 1200**

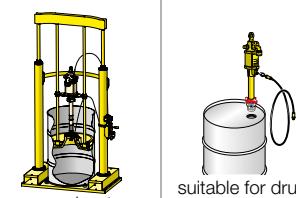
flanged

**115F/181**      **116F/181**

Oils, lubricants and grease

Carbon steel  
Carbon steel

F 1/2"	F 1/2"
F 3/4"	F 3/4"
2,8	2,8
80	80
8	8



**1 - 0,045**

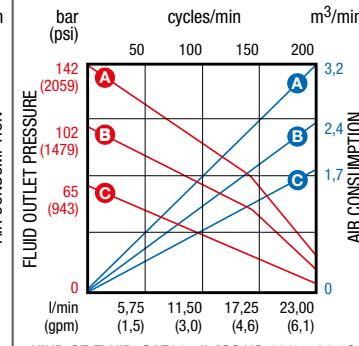
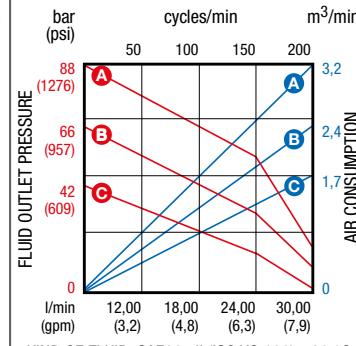
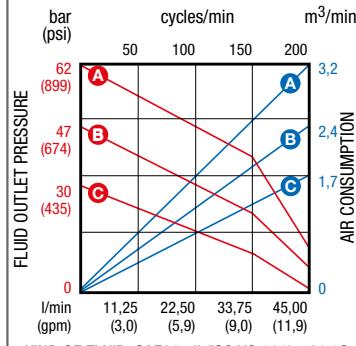
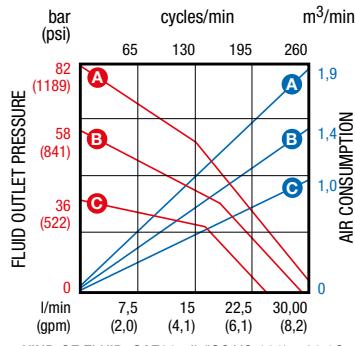
**15,5**

**44,5 - 48 - 4,5**

**1 - 0,070**

**18**

**44,5 - 94 - 4,5**





# Air-operated INDUSTRIAL PUMPS

## oil and similar products

**Series 900, 1200, 1500 and 1800 industrial air-operated pumps**  
 for medium-long distance distribution.  
 Suitable for transferring oils, lubricants and similar products, they guarantee high performance in capacity (l/min) and operating pressure.  
 The version with Viton® seals can also be used for the transfer of industrial and chemical fluids.  
 The high quality of the components ensures lasting and reliable operation even in extreme conditions.

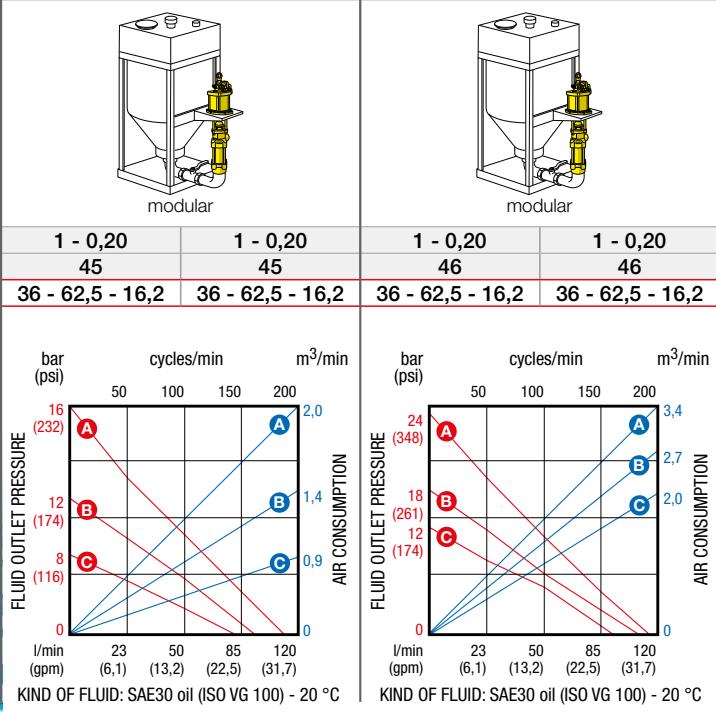


Ratio 2:1  
Flow rate 95 l/min

Ratio 3:1  
Flow rate 100 l/min



Article with seals in PU	90D/21	115D/31	115DV/31
Article with seals in Viton®	90DV/21	Oils, lubricants and similar	Chemical and industrial fluids
<b>Compatible fluids</b>			
<b>Suction tube upper body</b>	Carbon steel	Carbon steel	Carbon steel
<b>Suction tube</b>	Carbon steel	Carbon steel	Carbon steel
<b>Air inlet connection</b> bsp	F 1/2"	F 1/2"	F 1/2"
<b>Fluid outlet connection</b> bsp	F 1.1/2"	F 1.1/2"	F 1.1/2"
<b>Max. air consumption 8 bar</b> m³/min	1,6	1,6	2,8
<b>Noise level</b> dB	80	80	80
<b>Air max. feed pressure</b> bar	8	8	8
<b>Suitable for drums or tanks</b>			
<b>Packing</b>	N° - m³	1 - 0,20	1 - 0,20
<b>Weight</b> kg	45	45	46
<b>Dimensions (A - B - C)</b> cm	36 - 62,5 - 16,2	36 - 62,5 - 16,2	36 - 62,5 - 16,2



**Ratio 4:1**  
Flow rate **110 l/min**

**Ratio 6:1**  
Flow rate **80 l/min**

**Ratio 5:1**  
Flow rate **90 l/min**

**Ratio 8:1**  
Flow rate **65 l/min**



**series 1500**

**divorced**

**150D/41**

Oils, lubricants  
and similar

Carbon steel

Carbon steel

F 1/2"

F 1.1/2"

3,4

80

8

**series 1500**

**divorced**

**150D/61**

Oils, lubricants  
and similar

Carbon steel

Carbon steel

F 1/2"

F 1.1/2"

3,4

80

8

**series 1800**

**divorced**

**180D/51**

Oils, lubricants  
and similar

Carbon steel

Carbon steel

F 1/2"

F 1.1/2"

4,2

80

8

**series 1800**

**divorced**

**180D/81**

Oils, lubricants  
and similar

Carbon steel

Carbon steel

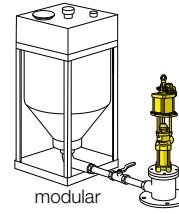
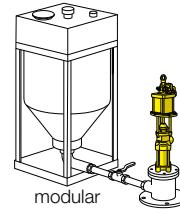
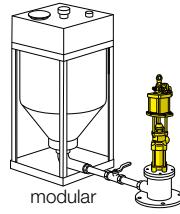
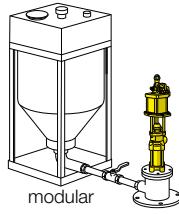
F 1/2"

F 1.1/2"

4,2

80

8



1 - 0,20

63

43 - 62,5 - 17,7

1 - 0,20

53

43 - 62,5 - 16,2

1 - 0,20

65

43 - 62,5 - 17,7

1 - 0,20

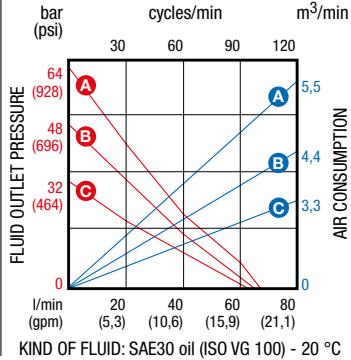
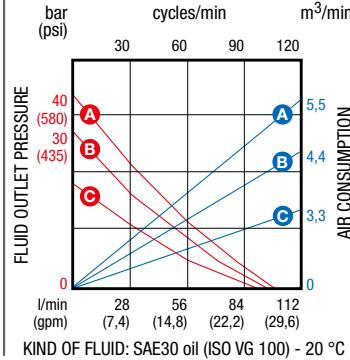
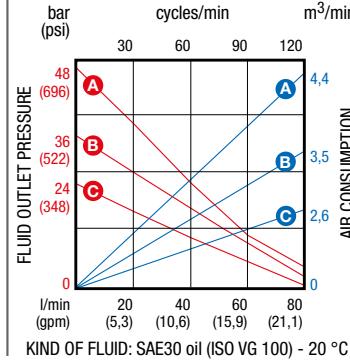
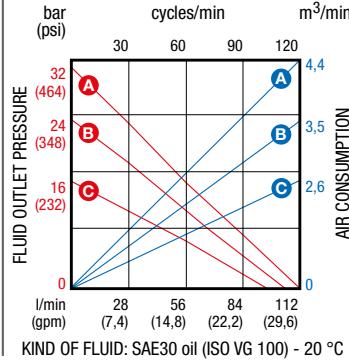
56

43 - 62,5 - 16,2

1 - 0,20

56

43 - 62,5 - 16,2



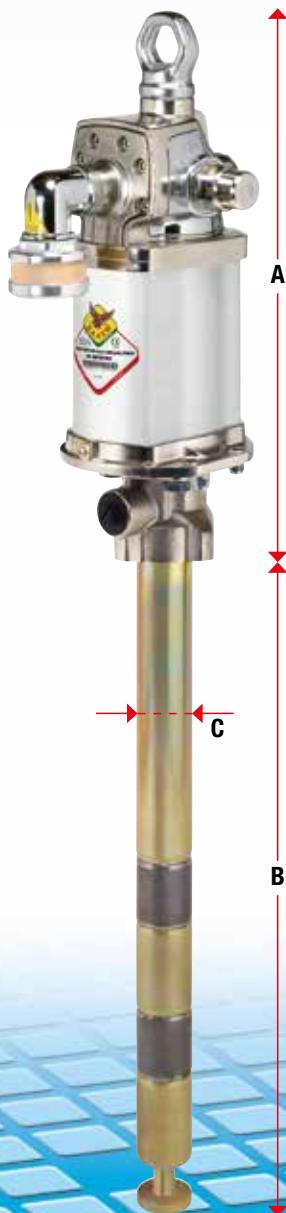


# Air-operated INDUSTRIAL PUMPS

grease

Ratio 45:1  
Flow rate 4400 g/min

**Series 900 - 1200 industrial air-operated pumps** for medium-long distance distribution. Suitable for the transfer of medium-high viscosity oils and greases. The high quality of the components ensures lasting and reliable operation even in extreme conditions whereas the double action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with several dispensing points.



## Article with seals in

Compatible fluids

Suction tube upper body

Suction tube

Air inlet connection bsp

Fluid outlet connection bsp

Max. air consumption 8 bar m<sup>3</sup>/min

Noise level dB

Air max. feed pressure bar

PU

90FSP/451

90F/451

92F/451

91F/451

High viscosity oils and greases

Carbon steel

Carbon steel

F 1/2"

1,6

1,6

1,6

1,6

80

80

80

80

8

8

8

8

## Suitable for drums or tanks

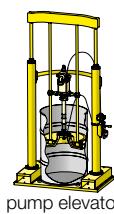
Packing

N° - m<sup>3</sup>

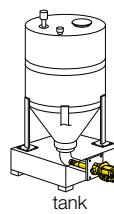
Weight

kg

Dimensions (A - B - C) cm



pump elevator



tank



suitable for drums 50-60 kg

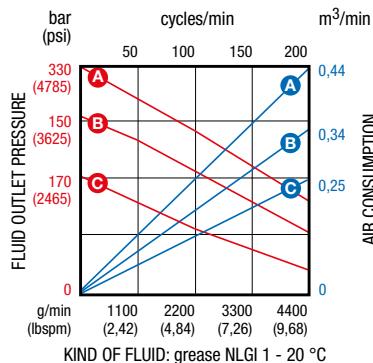


suitable for drums 180-220 kg

PUMP AIR FEEDING PRESSURE  
**A A**  
8 bar  
116 psi

**B B**  
6 bar  
87 psi

**C C**  
4 bar  
58 psi



**Ratio 70:1**  
**Flow rate 3000 g/min**

**Ratio 75:1**  
**Flow rate 4400 g/min**



series 900

integral

92C/701

91C/701

High viscosity oils and greases

Aluminium

Carbon steel

F 1/2"

F 1/2"

F 1/2"

F 1/2"

1,6

1,6

80

80

8

8



suitable for drums  
50-60 kg



suitable for drums  
180-220 kg

1 - 0,070

1 - 0,070

18

19

43 - 74 - 4,5

115FSP/751

115F/751

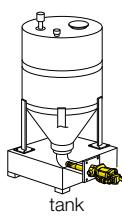
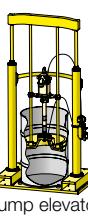
117F/751

116F/751

High viscosity oils and greases

Carbon steel

Carbon steel



suitable for drums  
50-60 kg



suitable for drums  
180-220 kg

1 - 0,045

1 - 0,045

1 - 0,070

1 - 0,070

18

18

20

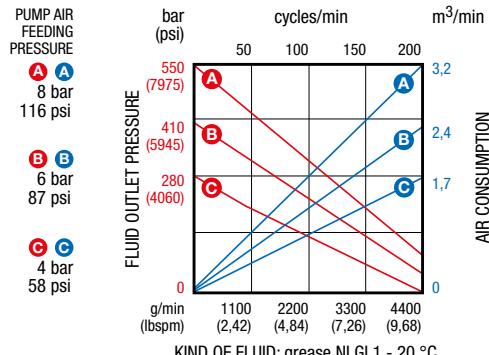
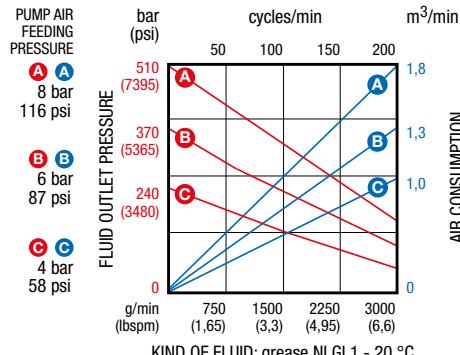
21

44,5 - 50 - 4,5

44,5 - 50 - 4,5

44,5 - 74 - 4,5

44,5 - 94 - 4,5





# Air-operated INDUSTRIAL PUMPS

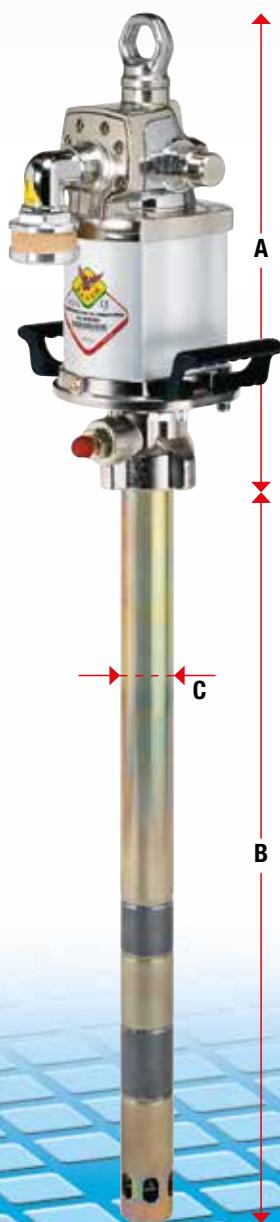
grease

Ratio 40:1  
Flow rate 10000 g/min

**Series 1200 and 1500 industrial air-operated pumps** for medium-long distance distribution.

Suitable for transferring oils, lubricants and allied products, they guarantee high performance in capacity (l/min) and operating pressure.

The high quality of the components ensures lasting and reliable operation even in extreme conditions.



## Article with seals in

**PU**

Compatible fluids

High viscosity oils and greases

Suction tube upper body

Carbon steel

Suction tube

Carbon steel

Air inlet connection bsp

**F 1/2"**

**F 1/2"**

**F 1/2"**

Fluid outlet connection bsp

**F 1/2"**

**F 1/2"**

**F 1/2"**

Max. air consumption 8 bar m<sup>3</sup>/min

2,8

2,8

2,8

Noise level dB

80

80

80

Air max. feed pressure bar

8

8

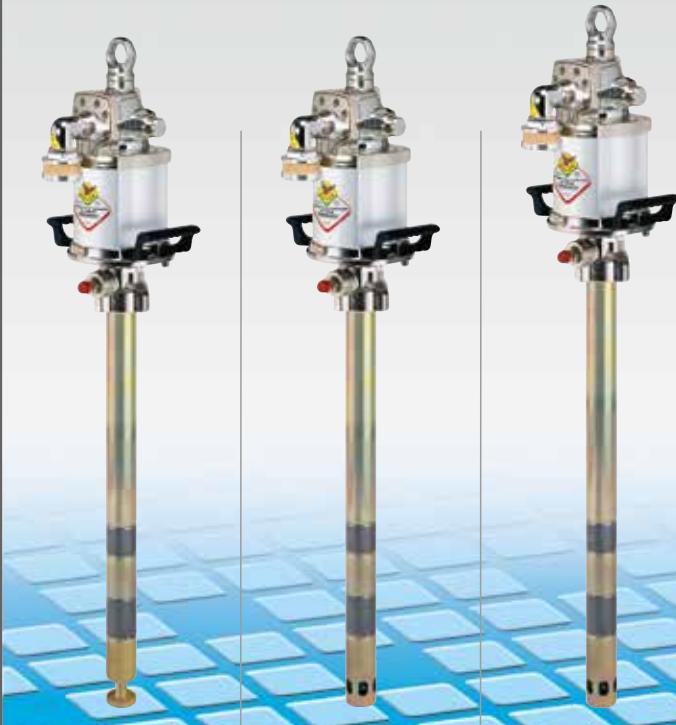
8

Suitable for drums or tanks

Packing	N° - m <sup>3</sup>
Weight	kg
Dimensions (A - B - C)	cm

**Art. 10/09**

Adaptor for integral and flanged pumps series 900 and 1200, for application with other brackets



**series 1200**

**flanged**

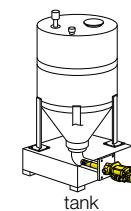
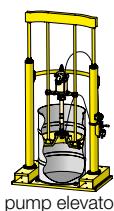
**118FSP/401**

**118F/401**

**115F/401**

High viscosity oils and greases

Carbon steel



suitable for drums 50-60 kg

**1 - 0,090**

**1 - 0,090**

**1 - 0,090**

21

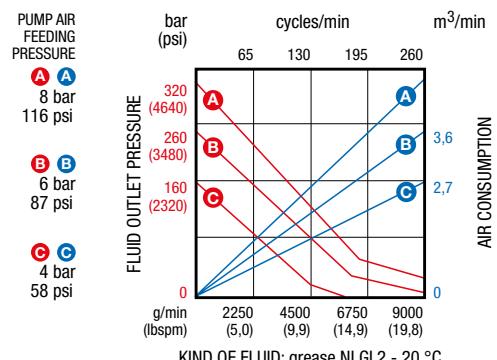
21

23

44,5 - 60 - 5,08

44,5 - 60 - 5,08

44,5 - 74 - 5,08



**Ratio 70:1**  
**Flow rate 7000 g/min**



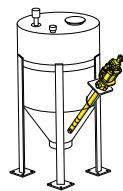
**series 1200**

**flanged**

**117F/401      116F/401**

High viscosity oils and greases  
Carbon steel  
Carbon steel

F 1/2"	F 1/2"
F 1/2"	F 1/2"
2,8	2,8
80	80
8	8



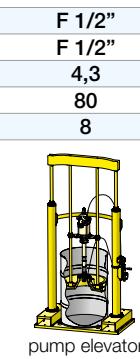
suitable for drums  
180-200 kg

**1 - 0,090**

**24**

**44,5 - 86 - 5,08**

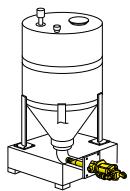
**153FSP/701**



**29**

**50 - 60 - 5,08**

**153F/701**



**1 - 0,20**

**29**

**50 - 60 - 5,08**

**series 1500**

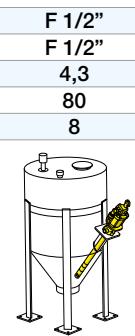
**flanged**

**150F/701**

High viscosity oils and greases  
Carbon steel  
Carbon steel

F 1/2"	F 1/2"	F 1/2"
F 1/2"	F 1/2"	F 1/2"
4,3	4,3	4,3
80	80	80
8	8	8

**152F/701**

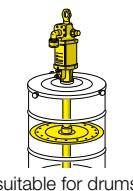


**1 - 0,20**

**32**

**50 - 86 - 5,08**

**151F/701**

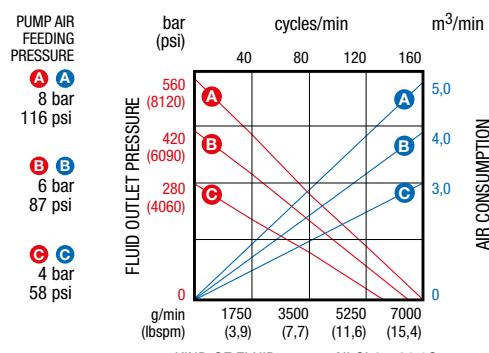
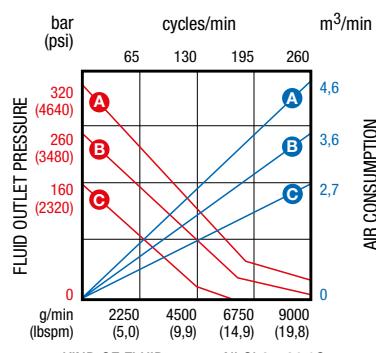


suitable for drums  
180-200 kg

**1 - 0,20**

**33**

**50 - 94 - 5,08**





# Air-operated INDUSTRIAL PUMPS

industrial fluids

## Series 900 and 1200 divorced industrial air-operated pumps for medium-long distance distribution.

The divorced version, with Teflon® seals, can also be used for the transfer of industrial and chemical fluids. The high quality of the components ensures lasting and reliable operation even in extreme conditions.



### Article with seals in **Teflon®**

#### Compatible fluids

Suction tube upper body

#### Suction tube

Air inlet connection bsp

Fluid outlet connection bsp

Max. air consumption 8 bar m<sup>3</sup>/min

Noise level dB

Air max. feed pressure bar

### series 900

#### divorced

#### 90D/51

Chemical and industrial fluids

Carbon steel

Carbon steel

F 1/2"

F 3/4"

1,6

80

8

### series 900

#### divorced

#### 90D/71

Chemical and industrial fluids

Carbon steel

Carbon steel

F 1/2"

F 3/4"

1,6

80

8

#### Suitable for drums or tanks

Packing

Weight

Dimensions (A - B - C)

N° - m<sup>3</sup>

kg

cm



#### PUMP AIR FEEDING PRESSURE

**A A**

8 bar

116 psi

**B B**

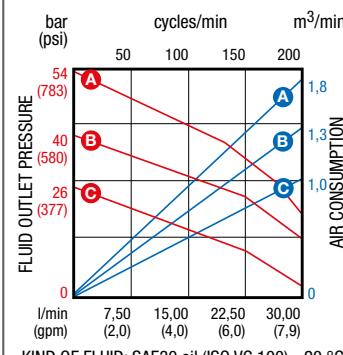
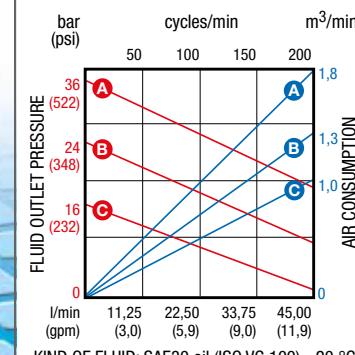
6 bar

87 psi

**C C**

4 bar

58 psi



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

Ratio 5:1

Flow rate 45 l/min

Ratio 7:1

Flow rate 30 l/min

**Ratio 11:1**  
Flow rate **30 l/min**

**Ratio 9:1**  
Flow rate **45 l/min**

**Ratio 12:1**  
Flow rate **30 l/min**

**Ratio 18:1**  
Flow rate **23 l/min**



**series 900**

**divorced**

**90D/111**

Chemical and industrial fluids

Carbon steel

Carbon steel

F 1/2"

F 3/4"

1,7

80

8



**modular**

**1 - 0,045**

**13**

**36 - 48 - 4,5**



**series 1200**

**divorced**

**115D/91**

Chemical and industrial fluids

Carbon steel

Carbon steel

F 1/2"

F 3/4"

2,8

80

8



**modular**

**1 - 0,045**

**15,5**

**36 - 48 - 6,2**



**series 1200**

**divorced**

**115D/121**

Chemical and industrial fluids

Carbon steel

Carbon steel

F 1/2"

F 3/4"

2,8

80

8



**modular**

**1 - 0,045**

**14,5**

**36 - 48 - 5,3**



**series 1200**

**divorced**

**115D/181**

Chemical and industrial fluids

Carbon steel

Carbon steel

F 1/2"

F 3/4"

2,8

80

8

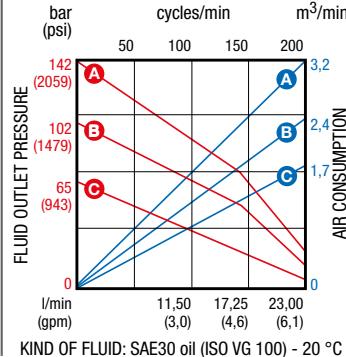
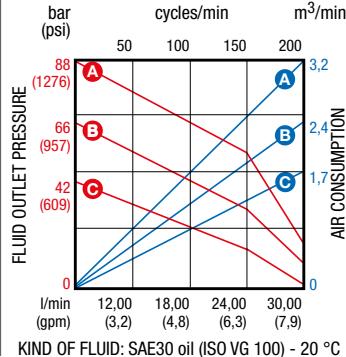
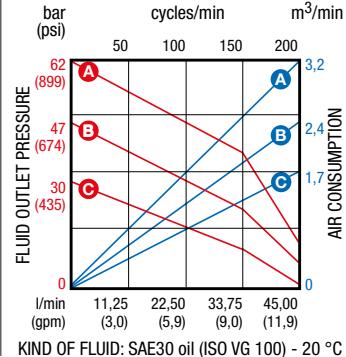
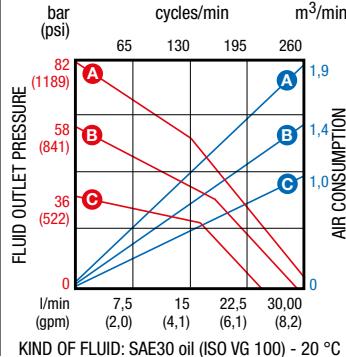


**modular**

**1 - 0,045**

**14**

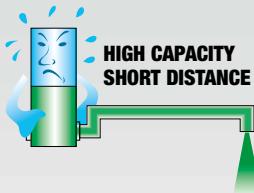
**36 - 48 - 4,5**





# Stainless steel AISI 304 pumps for TRANSFER

Ratio 1:1  
Flow rate 30 l/min



**Stainless steel AISI 304 air-operated pumps for short-medium distance transfer.**  
Ideal for transferring low-medium viscosity fluids such as: antifreeze liquid, windshield washing liquid and chemical products.



**Article with seals in Viton®**

Compatible fluids	Viton®	
Suction tube upper body		
Suction tube		
Air inlet connection	bsp	F 1/4" G
Fluid outlet connection	bsp	F 1/2" G
Max. air consumption 8 bar	m³/min	0,37
Noise level	dB	81
Air max. feed pressure	bar	6 - 8

**33360**  
Suitable for antifreeze and windshield washing liquid  
Stainless steel AISI 304

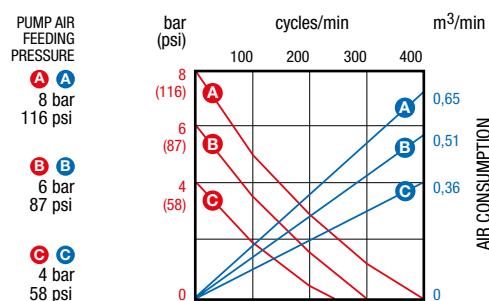
**33396**  
Stainless steel AISI 304



**Suitable for drums or tanks**

Packing	N° - m³	1 - 0,10	1 - 0,020
Weight	kg	5,3	7,4
Dimensions (A - B - C)	cm	41 - 0 - 0	41 - 94 - 3,4

**Art. 33445**  
Gun for antifreeze and windshield liquid with stainless steel rigid terminal





# Air-operated INDUSTRIAL PUMPS S/STEEL AISI 304

## industrial fluids

**Series 900 - 1200 divorced stainless steel AISI 304 industrial air-operated pumps for medium-long distance distribution.** They are suitable to transfer aggressive fluids compatible with the wet parts of the pump (stainless steel and Teflon®). The high quality of the components ensures lasting and reliable operation even in extreme conditions



**Article with seals in Teflon®**  
**Teflon®+UHMW-PE**

Compatible fluids	Chemical and industrial fluids	
Suction tube upper body	Stainless steel AISI 304	
Suction tube	Stainless steel AISI 304	
Air inlet connection	bsp	F 1/2"
Fluid inlet connection	bsp	F 1 1/4"
Fluid outlet connection	bsp	F 3/4"
Max. air consumption 8 bar	m³/min	1,6
Noise level	dB	80
Air max. feed pressure	bar	8

**Suitable for drums or tanks**

Packing	N° - m³
Weight	kg
Dimensions (A - B - C)	cm

PUMP AIR FEEDING PRESSURE

(A) 8 bar  
116 psi

(B) 6 bar  
87 psi

(C) 4 bar  
58 psi

**Ratio 6:1**  
**Flow rate 42 l/min**

**Ratio 9:1**  
**Flow rate 42 l/min**



**series 900**

**divorced**

**95D/61**

**94D/61**

Chemical and industrial fluids

Stainless steel AISI 304

Stainless steel AISI 304

F 1/2"

F 1 1/4"

F 3/4"

1,6

80

8

Chemical and industrial fluids

Stainless steel AISI 304

Stainless steel AISI 304

F 1/2"

F 1"

F 3/4"

2,8

80

8

Chemical and industrial fluids

Stainless steel AISI 304

Stainless steel AISI 304

F 1/2"

F 1"

F 3/4"

2,8

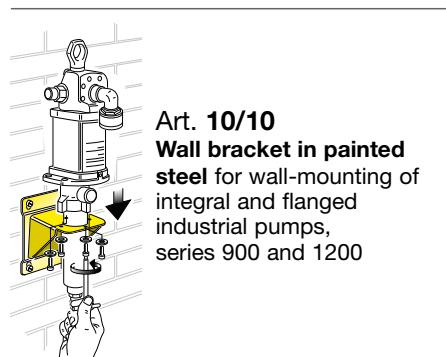
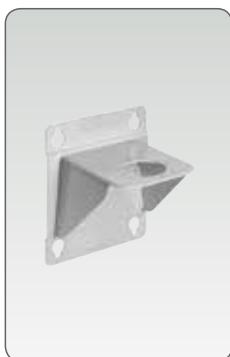
80

8

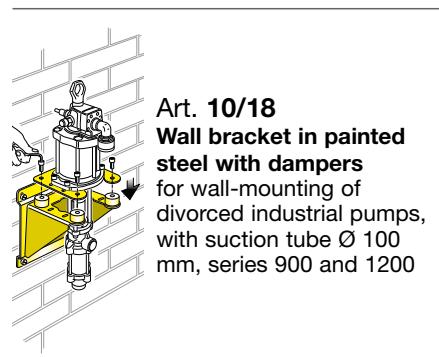
modular



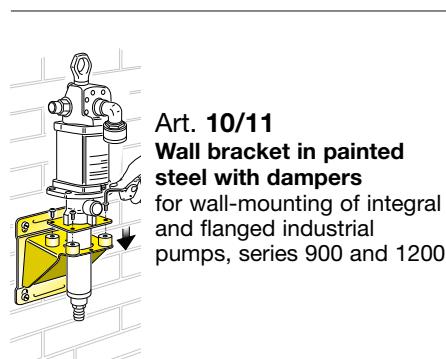
## Accessories for industrial pumps



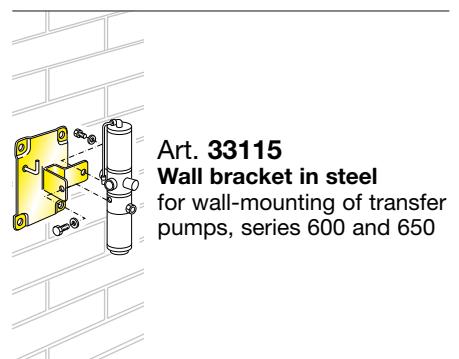
**Art. 10/10**  
**Wall bracket in painted steel** for wall-mounting of integral and flanged industrial pumps, series 900 and 1200



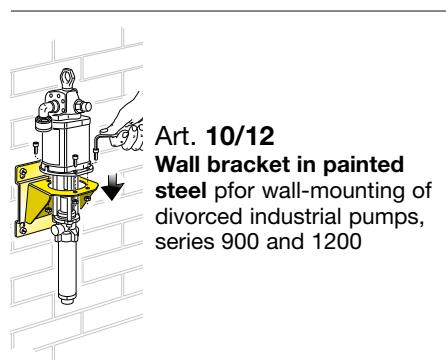
**Art. 10/18**  
**Wall bracket in painted steel with dampers** for wall-mounting of divorced industrial pumps, with suction tube Ø 100 mm, series 900 and 1200



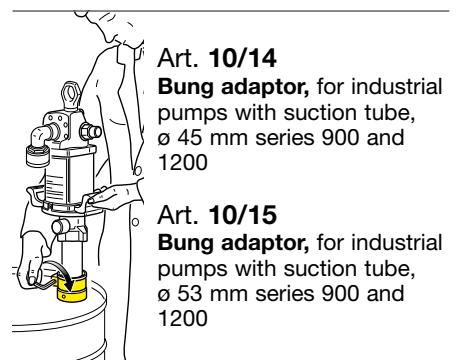
**Art. 10/11**  
**Wall bracket in painted steel with dampers** for wall-mounting of integral and flanged industrial pumps, series 900 and 1200



**Art. 33115**  
**Wall bracket in steel** for wall-mounting of transfer pumps, series 600 and 650

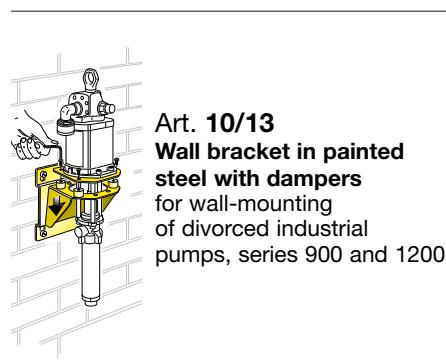


**Art. 10/12**  
**Wall bracket in painted steel** for wall-mounting of divorced industrial pumps, series 900 and 1200

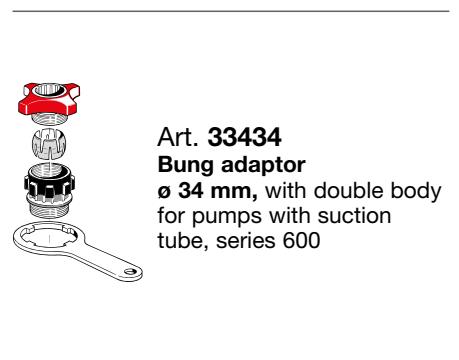


**Art. 10/14**  
**Bung adaptor**, for industrial pumps with suction tube, ø 45 mm series 900 and 1200

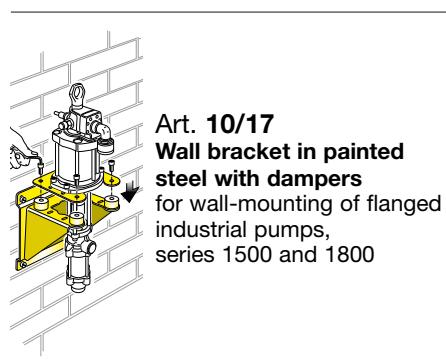
**Art. 10/15**  
**Bung adaptor**, for industrial pumps with suction tube, ø 53 mm series 900 and 1200



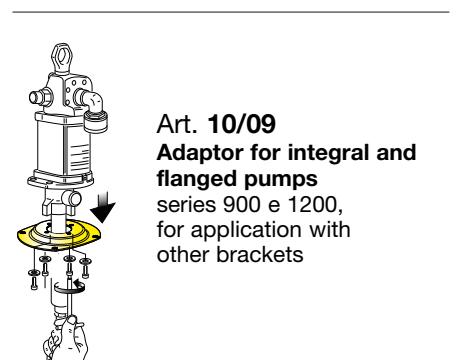
**Art. 10/13**  
**Wall bracket in painted steel with dampers** for wall-mounting of divorced industrial pumps, series 900 and 1200



**Art. 33434**  
**Bung adaptor** ø 34 mm, with double body for pumps with suction tube, series 600



**Art. 10/17**  
**Wall bracket in painted steel with dampers** for wall-mounting of flanged industrial pumps, series 1500 and 1800



**Art. 10/09**  
**Adaptor for integral and flanged pumps** series 900 e 1200, for application with other brackets



# Accessories for industrial pumps

Union ø 45 mm



## Drum cover for pumps with suction tube ø 45

Art. 10/50 Drum cover ø 600 mm for drums 180 - 220 kg  
(drums external ø 550 - 600 mm)

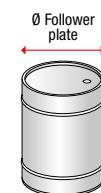
Art. 10/51 Drum cover ø 420 mm for drums 50 - 60 kg  
(drums external ø 370 - 420 mm)

Art. 10/52 Drum cover ø 385 mm for drums 30 - 50 kg  
(drums external ø 340 - 385 mm)



## Follower plate for pumps S. 900 - 1200 with suction tube ø 45

Art. 10/60 Follower plate ø 585 mm for drums 180 - 220 kg  
(drums internal ø 540 - 580 mm)



Art. 10/61 Follower plate ø 400 mm for drums 50 - 60 kg  
(drums internal ø 360 - 400 mm)

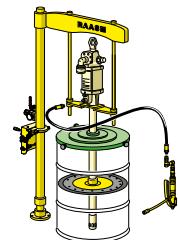
Art. 10/62 Follower plate ø 370 mm for drums 30 - 50 kg  
(drums internal ø 335 - 360 mm)

Union ø 50,8 mm



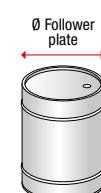
## Drum cover for pumps with suction tube ø 50,8

Art. 10/55 Drum cover ø 600 mm for drums 180 - 220 kg  
(drums external ø 550 - 600 mm)



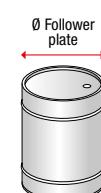
Art. 10/56 Drum cover ø 420 mm for drums 50 - 60 kg  
(drums external ø 370 - 420 mm)

Art. 10/57 Drum cover ø 385 mm for drums 30 - 50 kg  
(drums external ø 340 - 385 mm)



## Follower plate for pumps S. 1200 - 1500 with suction tube ø 50,8

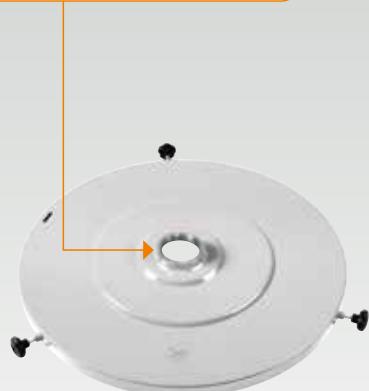
Art. 10/65 Follower plate ø 585 mm for drums 180 - 220 kg  
(drums internal ø 540 - 580 mm)



Art. 10/66 Follower plate ø 400 mm for drums 50 - 60 kg  
(drums internal ø 360 - 400 mm)

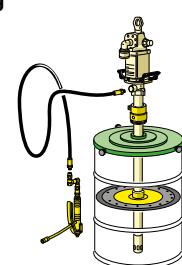
Art. 10/67 Follower plate ø 370 mm for drums 30 - 50 kg  
(drums internal ø 335 - 360 mm)

Union 2" F



## Drum cover with threaded bushing 2" F

Art. 65160 Follower plate ø 600 mm for drums 180 - 220 kg  
(drums external ø 550 - 600 mm)  
suitable to fit pump bung adaptor



Art. 65142 Follower plate ø 420 mm for drums 50 - 60 kg  
(drums external ø 370 - 420 mm)  
suitable to fit pump bung adaptor

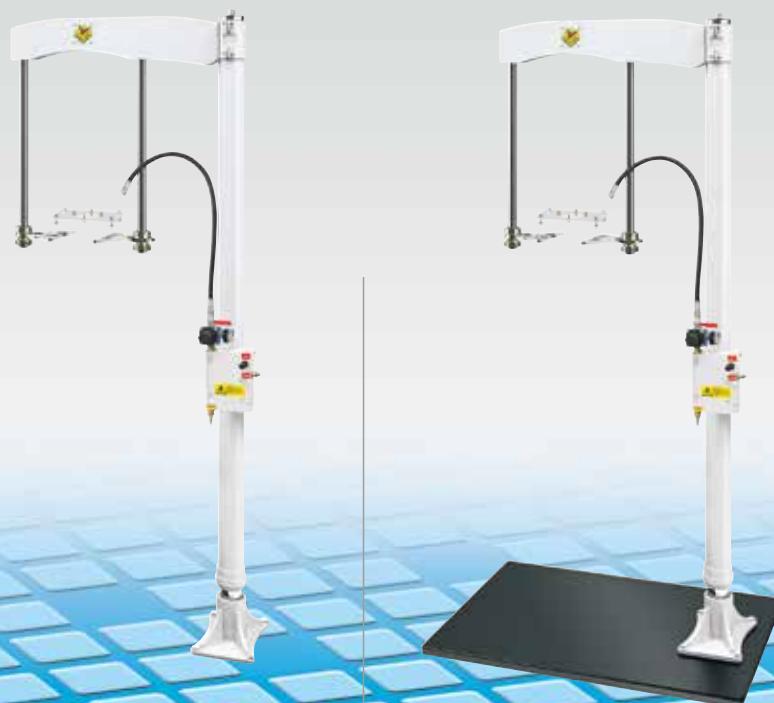
Art. 65138 Follower plate ø 385 mm for drums 30 - 50 kg  
(drums external ø 340 - 385 mm)  
suitable to fit pump bung adaptor



# Air-operated pump elevator

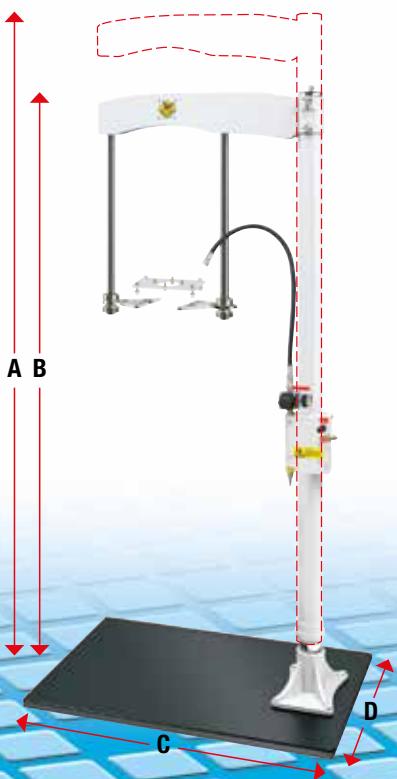
1 column

The Pump elevators are available in **single column** (with or without basement) or **twin column** version. It is raised by compressed air, via the side mounted 3-way valve allowing to change the drum easily and quickly. A special version of the twin columns elevator is equipped with 2 rods which connected to a special follower plate (available on request) may push it downward making easier suction of the fluid and increasing the performance of the pump. They are available for 180-220 kg drums.



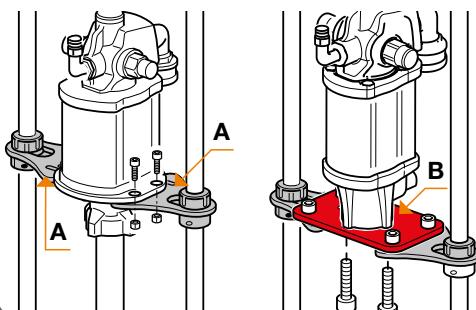
Article	10/81	10/80
Column	1	1
Suitable for drums	kg 180 - 220	kg 180 - 220
Working temperature	°C + 2 °C + 40 °C	°C + 2 °C + 40 °C
Pressure max	bar 8	bar 8
Usable pumps	S. 600 - 700 grease pump - 900 - 1200 - 1500 - 1800	
Noise level	dB negligible (< 70)	dB negligible (< 70)
Pushing force upwards at:	* 4 bar 113 kg - 6 bar 170 kg - 8 bar 226 kg	4 bar 113 kg - 6 bar 170 kg - 8 bar 226 kg
Pushing force downwards at:	-	-
Packing	N° - m3 1 - 0,679	N° - m3 1 - 1,165
Gross weight	kg 75	kg 97
Height max/min (A - B)	cm 271,5 - 171,5	cm 275 - 175
Dimensions (C - D)	cm 14 - 25,5	cm 86,6 - 63

Note: \*theoretical values, the coefficients of friction are not calculated.



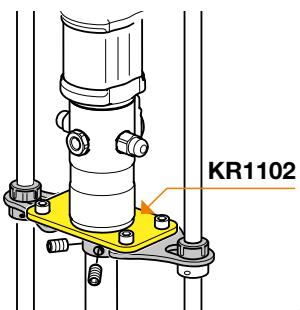
## STANDARD BRACKETS

All the elevators are equipped with 2 standard brackets (A - B) suitable for mounting all our industrial pumps.



## BRACKETS ON REQUEST

**KR1102:** Special support suitable to mount pump with Ø 30 mm suction tube.



## 2 column



## 2 column + fluid press



### 10/82

2

180 - 220

+ 2 °C + 40 °C

8

S. 600 - 700 grease pump - 900 - 1200 - 1500 - 1800

negligible (< 70)

\*

4 bar 226 kg - 6 bar 339 kg - 8 bar 452 kg

-

1 - 1,406

128

275 - 175

108,6 - 63

### 10/85

2

180 - 220

+ 2 °C + 40 °C

8

S. 600 - 700 grease pump - 900 - 1200 - 1500 - 1800

negligible (< 70)

\*

4 bar 509 kg - 6 bar 763 kg - 8 bar 1017 kg

\*\*

4 bar 432 kg - 6 bar 648 kg - 8 bar 864 kg

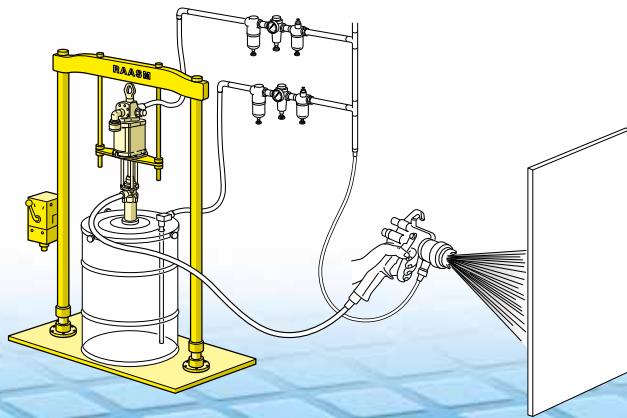
1 - 1,840

187

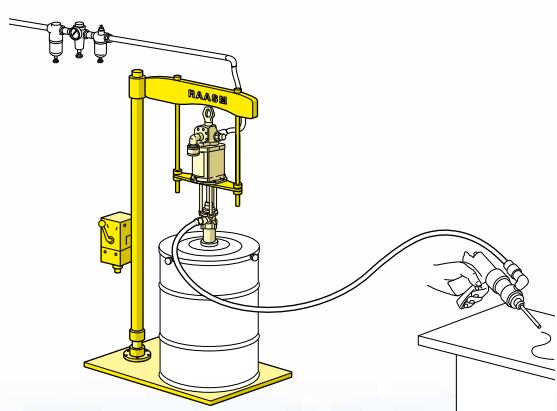
280 - 180

108,6 - 63

**Nota:** \*\*theoretical figures: friction has not been considered. Furthermore depression's force created by the pump during suction (+2100 kg) must be added to the listed figures.



Fluid distribution system (for paints, lubricants, protective liquids, etc.) fed by pump mounted on drum in fixed station and delivery with spray gun.



Automated system for the delivery of preselected quantities of fluids (inks, paints, greases, etc.), fed by pump mounted on drum, with twin column ram



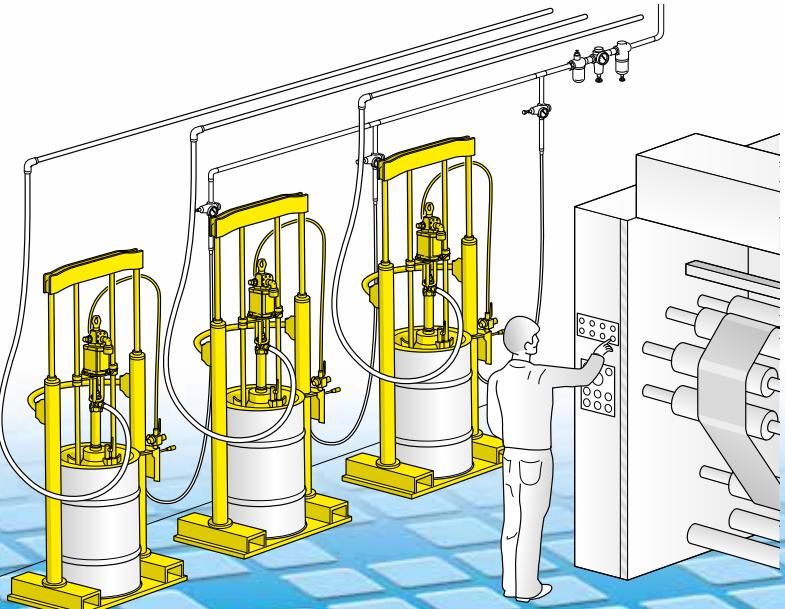
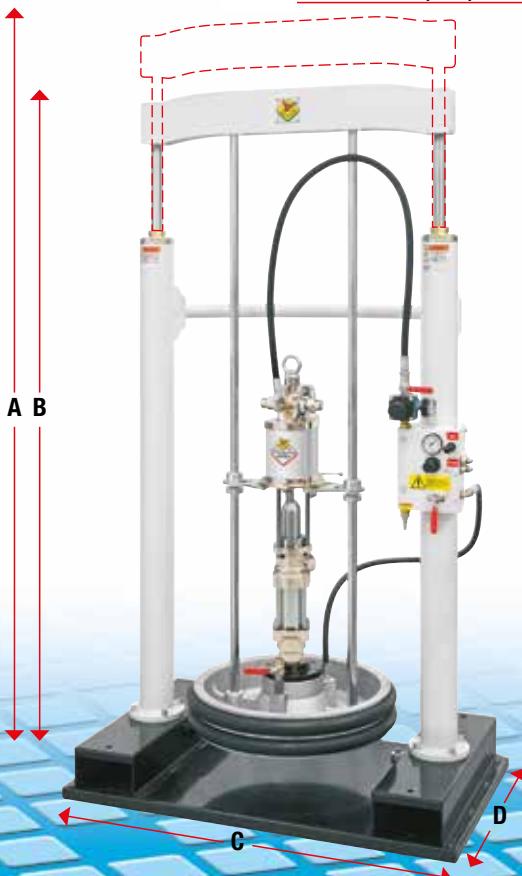
# Air-operated twin column ram hoist

low pressure/high flow rate

**Air-operated twin column ram hoist with industrial pump.** It is raised and lowered by compressed air, via the side mounted 3-way valve. Essential when pumping high viscosity and heavy fluids since ram pushes down the follower plate helping pump working.  
It is suitable for 180- 220 kg drums.



Article with follower plate with pump seals	NBR PU	10/1561P1N	10/1881P1N
<b>Ratio</b>		<b>6:1</b>	<b>8:1</b>
<b>Flow rate</b>		<b>80 l/min</b>	<b>65 l/min</b>
Pump	Art.	150D/61	180D/81
Suction tube		F 2" G	F 2" G
Twin column ram	Art.	10/85	10/85
Follower plate	Art.	11/60	11/60
Adaptors for follower plate	Art.	21/62	21/62
Pump connection hose	Art.	996.3015	996.3015
Follower plate connection hose	Art.	995.301	995.301
Suitable for drums	kg	200	200
Packing	N° - m <sup>3</sup>	1 - 1,80	1 - 1,80
Weight	kg	263	266
Height max/min (A - B)	cm	280 - 180	280 - 180
Dimensions (C - D)	cm	108,6 - 63	108,6 - 63



## medium pressure/medium flow rate

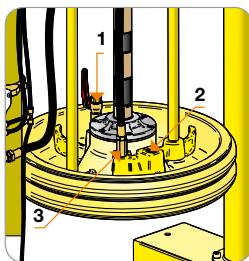


## high pressure/low flow rate



10/09111P1N	10/12181P1N	10/12401P1N	10/09451P1N	10/12751P1N	10/15701P1N
11:1	18:1	40:1	45:1	75:1	70:1
30 l/min	23 l/min	10 kg/min	4,4 kg/min	4,4 kg/min	7 kg/min
90F/111	115F/181	118FSP/401	90FSP/451	115FSP/751	153FSP/701
ø 45	ø 45	ø 50,8	ø 45	ø 45	ø 50,8
10/85	10/85	10/85	10/85	10/85	10/85
11/60	11/60	11/60	11/60	11/60	11/60
21/64	21/64	21/65	21/64	21/64	21/65
996.3015	996.3015	996.3015	996.3015	996.3015	996.3015
995.301	995.301	995.301	995.301	995.301	995.301
200	200	200	200	200	200
1 - 1,80	1 - 1,80	1 - 1,80	1 - 1,80	1 - 1,80	1 - 1,80
225	226	231	228	230	238
280 - 180	280 - 180	280 - 180	280 - 180	280 - 180	280 - 180
108,6 - 63	108,6 - 63	108,6 - 63	108,6 - 63	108,6 - 63	108,6 - 63

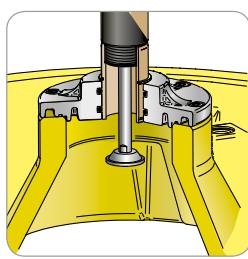
## Technical features



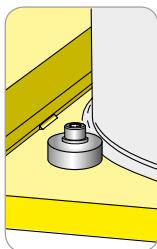
1 Ball cock for air bleeding during followerplate setting on new drum

2 Optional connection to pump outlet for pump starting and air bleeding when using a new drum

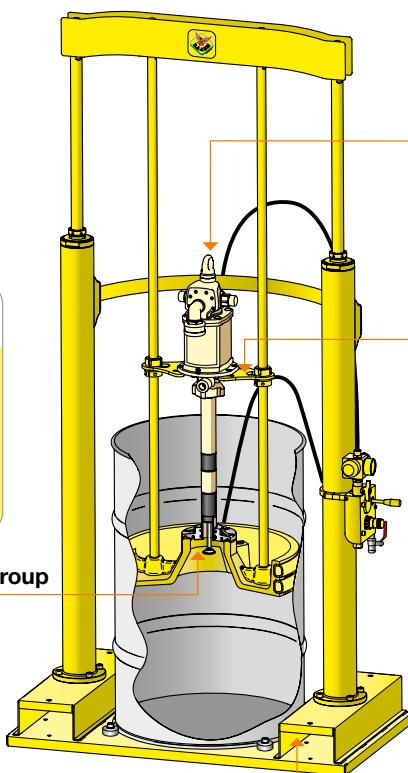
3 Air hose connection for follower plate lifting



Conical follower plate and bottom pumping group

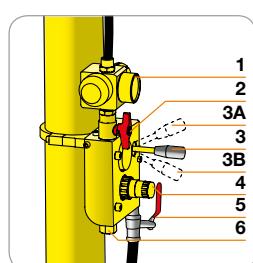


References to centre the drum



Pump feeding air inlet

Support with pump positioning clamps



1 Pressure regulator with manometer for pump air feeding

2 Pump air feeding ball cock

3A Follower plate and pump lifting position

3 Off position

3B Follower plate descent position

4 Pressure regulator with manometer for twin column ram air feeding

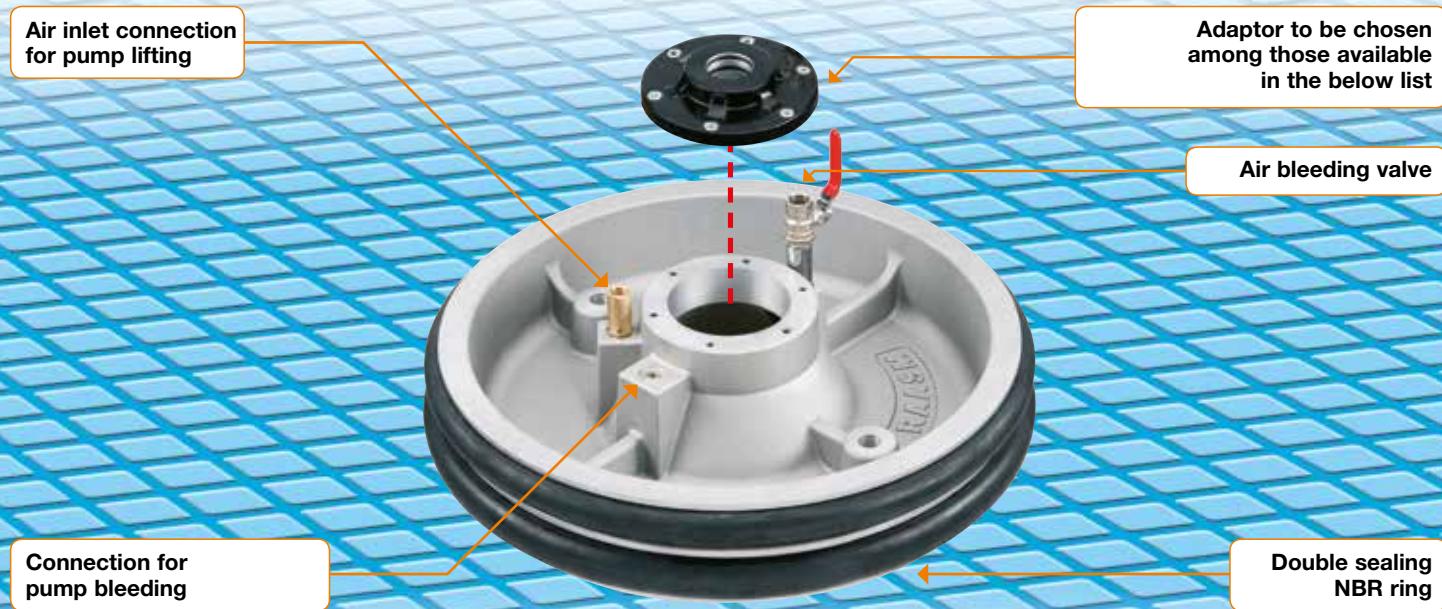
5 Ball cock to put air under the follower plate for pump lifting

6 Air inlet connection



## Technical characteristics

Follower plate ø 585 mm with double sealing NBR ring, to be used with air operated twin column ram for drums 180 - 220 kg, for grease or high viscosity fluid.



The follower plate can be used with different kind of pumps thanks to special adaptors shown in the below list and available on request.

Article	Description
Art. 11/60	 <b>Follower plate ø 585 mm</b> with double o-ring in NBR
Art. 21/61	 <b>Adaptor</b> suitable for pumps with F 1"G suction tube
Art. 21/62	 <b>Adaptor</b> suitable for pumps with F 2"G suction tube
Art. 21/64	 <b>Adaptor</b> suitable for pumps with ø 45 mm suction tube
Art. 21/65	 <b>Adaptor</b> suitable for pumps with ø 50,8 mm suction tube
Art. 21/63	 <b>Adaptor + Support (KR1102)</b> suitable for pumps with ø 30 mm suction tube Grease pumps Series 600 - 700



# Twin column ram: PERSONALIZED KIT

In order to satisfy any particular need it is possible to create one's personalized kit choosing pump, follower plate, adaptors and support. We suggest you to look at the information explained in the following pattern.

## 1 Twin column ram



Art. 10/85

## 2 Pumps

Choose the industrial pump with technical features (pressure ratio, flow rate, etc.) suitable for one's needs.



Article	150D/61	180D/81	90F/111	115F/181	90FSP/451	115FSP/751	118FSP/401	153FSP/701
Series	1500	1800	900	1200	900	1200	1200	1500
Ratio	6:1	8:1	11:1	18:1	45:1	75:1	40:1	70:1
Flow rate	80 l/min	65 l/min	30 l/min	23 l/min	4400 g/min	4400 g/min	10000 g/min	7000 g/min
Seals	polyurethane							
Suct. tube	-	-	-	480 mm	500 mm	500 mm	600 mm	600 mm

## 3 Follower plate



Art. 11/60

## 4 Adaptors

Choose the adaptor to be mounted on follower plate Art. 11/60 which must fit pump's suction tube diameter.





# Product customisation



RAASM offers its customers the opportunity of ordering the products included in its range in different colours **among the 6 made available**.

They can be requested by customers **without minimum quantity requirements, or extra costs, choosing from the 5 additional colours to the standard colour (RAASM green)**.

Customisation is characterised exclusively by the colour and **does not include**: instruction handbooks, labels, brands, etc.

**Delivery times can vary with respect to standard colour products (RAASM green).**

**The above-mentioned customisation does not include** the brake bleeders, pit and floor drainers, air-operated pumps, trolleys, service columns and accessories.

Requests for different colours, in addition to those made available, or other types of customisation, must be appraised from time to time and will be tied to minimum quantities and additional costs.

## STANDARD COLOURS

Products for which a customised colour is not specified, are understood to be supplied with the standard colour as per the catalogue.

### STANDARD



### RAL 7035



To order an article with a colour **different from standard**, among the six made available, it is necessary to add the following to the article number

the suffix:	/GREEN	for green	RAASM
	/C1	for neutral	Ral 7035
	/C2	for yellow	Ral 1004
	/C4	for red	Ral 3020
	/C5	for blue	Ral 5002

## OPPORTUNITY

RAASM offers its customers the opportunity of ordering articles in 4 different colours besides the standard one.

### STANDARD



### RAL 7035



### RAL 1004



### RAL 3020



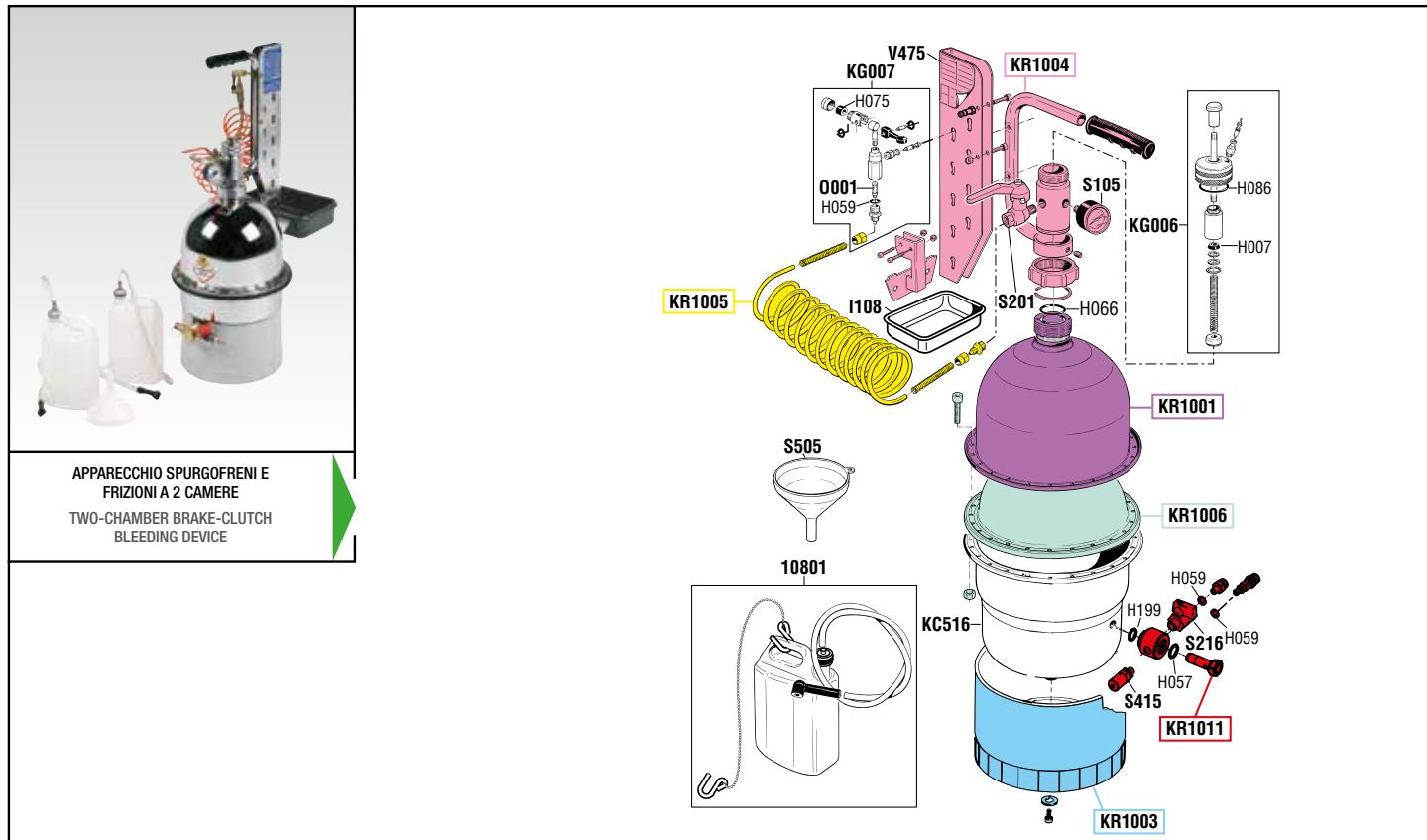
### RAL 5002





# Guide to reading the SPARE PARTS CATALOGUE

Exploded view



List of KR's (spare part kits) into which the article is divided. Every KR (e.g. KR1003) includes a distinct and homogeneous set of parts.  
A KR kit can be common to several articles.

List of parts of the article suppliable individually

The seal kit (e.g. KR1050) includes all the seals used in the article.  
This kit is not mentioned or shown in the exploded view.

KIT RICAMBI		
OGNI KIT SOTTO RIPORTATO COMPRENDE I RICAMBI EVIDENZIATI CON LO STESSO COLORE E LE RELATIVE GUARNIZIONI. QUESTI RICAMBI NON SONO FORNIBILI SEPARATAMENTE TRANNE QUELLI CODIFICATI.		
SPARE PARTS KITS		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY
KR1001	CALOTTA SUPERIORE UPPER CAP	1
KR1003	PIEDISTALLO FOOT-STALL	1
KR1004	GRUPPO SUPERIORE COMPLETO COMPLETE UPPER GROUP	1
KR1005	TUBO COLLEGAMENTO CONNECTION HOSE	1
KR1006	MEMBRANA CON SET VITI MEMBRANE WITH SET OF SCREWS	1
KR1011	GRUPPO INFERIORE COMPLETO COMPLETE LOWER GROUP	1

ELENCO RICAMBI FORNIBILI SINGOLARMENTE LIST OF SPARE PARTS WHICH CAN BE SUPPLIED SEPARATELY		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY
10801	TANICHELLA DI RECUPERO BRAKE FLUID COLLECTION CONTAINER	1
I108	VASCHETTA PORTA OGGETTI TOOL TRAY	1
KC516	SERBATOIO INFERIORE LOWER RESERVOIR	1
KG006	TAPPO CARICA OLIO OIL LEVEL INDICATOR	1
KG007	ATTACCO RAPIDO QUICK COUPLER	1
S105	MANOMETRO ø 50 mm GAUGE ø 50 mm	1
S201	RUBINETTO A SFERA 1/4" BALL VALVE 1/4"	1
S216	RUBINETTO A SFERA 1/4" BALL VALVE 1/4"	1
S415	VALVOLA DI SICUREZZA 3 bar SAFETY VALVE 3 bar	1
S505	IMBUTO RECUPERO OLIO FUNNEL	1
V475	ETICHETTA ELENCO TAPPI LABEL	1

A KS (e.g. KS1080) groups the spare parts (KR or single parts) given in the other tables.  
These are the spare parts recommended by the manufacturer, at the sales points and service centres, above all for first deliveries.  
Clearly, a KS cannot be shown in the exploded view

KIT GUARNIZIONI COMPLETO COMPOSTO DALLE GUARNIZIONI SOTTO ELENcate JOINTS GASKETS LIST INCLUDING ALL THE GASKETS SHOWN HERE UNDER		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY
H007	GUARNIZIONE GASKET	1
H057	O-RING 2062 O-RING 2062	1
H059	O-RING 2037 O-RING 2037	1
H066	O-RING 3118 O-RING 3118	1
H068	O-RING 112 O-RING 112	1
H075	GUARNIZIONE ATTACCO RAPIDO QUICK CONNECTOR GASKET	1
H086	O-RING 4118 O-RING 4118	1
H199	O-RING 119 O-RING 119	1
0001	FILTRO ATTACCO RAPIDO QUICK CONNECTOR FILTER	1

SET RICAMBI CONSIGLIATI AI PUNTI VENDITA E ASSISTENZA, COMPOSTO DAI RICAMBI SOTTO ELENcati SPARE PARTS KIT ADVISED TO THE REPAIR CENTERS. THIS KIT INCLUDES ALL THE SPARE PARTS SHOWN HERE UNDER		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY
KR1006	MEMBRANA CON SET DI VITI MEMBRANE WITH SET OF SCREWS	1
KR1050	KIT GUARNIZIONI COMPLETO COMPLETE GASKETS KIT	1
S105	MANOMETRO ø 50 mm GAUGE ø 50 mm	1



# General sales terms



The following general sales conditions regulate the sale of goods and services by the company RAASM S.p.A. for customers residing outside the territory of the Italian State.

## Art. 1 GOODS DELIVERY TERMS

The goods are delivered ex works RAASM S.p.A.. The subsequent transport / shipment must occur by, in the name and at the expense of the purchasing customer, even by means of carrier designated by the same. All risks arising from loading, subsequent custody and transport are borne entirely by the purchasing customer.

## Art. 2 MINIMUM ORDERS

Each order cannot be for less than € 1.500,00, net of taxes, discounts and rebates. If, at the option of RAASM S.p.A., orders for lower amounts are accepted, an extra charge of € 155,00 shall be applied for order management administrative expenses.

## Art. 3 ACCESSORIES

All the accessories given in the price list (plugs, oil bar taps, oil guns, grease guns, probes, protection caps, clutches, swivelling supports, etc.) are supplied exclusively for fitting to or combining with the items RAASM S.p.A. produces

## Art. 4 COMPLAINTS

Any defects immediately noticed after a brief inspection of the goods (damage, shortages or different product from that ordered) must be notified in writing to our company within 8 (eight) days of receipt of the goods. Any defects in the product noticeable only during its use must be notified in writing to RAASM S.p.A. within 8 (eight) days of being detected. Any returns of goods must be authorized in advance by RAASM S.p.A. and freight charges are at the customer's expenses.

## Art. 5 DELIVERY TIMES/TERMS

Delivery times and dates are only approximate and are subject to change. Any delays in delivery do not entitle the customer to cancel the order or claim compensation for damages caused by delay of delivery. Delivery times for urgent orders must be agreed directly by RAASM S.p.A.. RAASM S.p.A. has the right not to carry out the order and/or totally or partially carry it out, without this giving rise to reimbursement or claims for compensation for damage.

## Art. 6 PACKS AND PACKAGING

Packaging costs are included in the price, except for special packing, which shall be charged at cost.

## Art. 7 PRICES

The current Price list cancels and replaces the previous price list. In the event of changes to our price list and/or individual items, the goods shall be forwarded at the price in force on the day of delivery. The price list and/or the prices of individual items can be changed even without notice, according to the changes in market conditions or technical innovations/modifications made to the product. The prices are understood to be ex works RAASM S.p.A.

## Art. 8 PAYMENTS

Payments must be made exclusively to RAASM S.p.A. at the agreed conditions. Under no circumstances will deductions or roundings be accepted. In case of late payment with respect to the agreed conditions, RAASM S.p.A. reserves the right to charge interest at the current rate, effective from the day after that agreed for payment, plus any additional expenses. Discounts conditional on the payment term and already credited shall be recharged.

## Art. 9 WARRANTY

RAASM S.p.A. provides each product with the communication of particular instructions for the installation, use and maintenance requirements and the need to carry out possible checks on the product. Incorrect installation, use or maintenance of the product shall void the warranty. The articles must be returned free to our Factory for checking and acceptance. All the technical information and data mentioned in the catalogue and in the price-list in force are not binding and can be changed without prior notice for the purpose of improving the quality of the products. All products manufactured by RAASM S.p.A. are guaranteed for a period of 5 (five) years. The 5 (five) year guarantee does not apply to components which are subject to normal wear and tear (such as gaskets, membranes, O-rings, hoses, etc), electronic components and items that are sold but not manufactured by RAASM S.p.A. (marked with a red asterisk in the current product catalogue) which are guaranteed for 1(one) year.

1 (one) year warranty is valid also for the following products:

- digital litre counters and FCS system;
- cable reels;
- electric, pneumatic or hydraulic motor supplied with our industrial hose reels S. 600 and 700.

## Art. 10 RESPONSIBILITY

RAASM S.p.A. is exempt from any responsibility and liability for accidents that may occur to persons and property, as a result of or during the use of the equipment, due to or depending on the same whenever the products have been damaged during transport, tampered with or modified, or improperly used, or stored, installed, protected and preserved without complying with the instructions of RAASM S.p.A. as given in the installation, use and maintenance instruction manuals for each product. RAASM S.p.A. is liable for the value for the supplied product and cannot be held responsible in any way for other possible costs or additional costs that the customer may bear.

## Art. 11 COMPETENT LAW COURT

Any disputes shall be settled by the Law Court of Vicenza, Italy.



# How to reach RAASM



## by plane

With regular flights, the nearest airports are those Venice Tessera, Verona Villafranca and Treviso.

- **FROM VENICE TESSERA**  
Bassano can be reached by train: Venice - Padova - Cittadella Bassano del Grappa.

- **FROM VERONA VILLAFRANCA**  
Bassano can be reached by train: Dossobuono - Verona - Vicenza Cittadella - Bassano del Grappa.

- **FROM TREVISO**  
Bassano can be reached by train: Treviso - Castelfranco - Cassola.



## by train

RAASM can be reached also by train, getting off at Bassano del Grappa station.

- **BOLZANO:** Bolzano - Verona Vicenza - Cittadella - Bassano del Grappa.
- **MILAN:** Milan - Verona - Vicenza Cittadella - Bassano del Grappa.
- **BOLOGNA:** Bologna - Padova Cittadella - Bassano del Grappa.
- **TRIESTE - UDINE:** Trieste - Udine Codroipo - Treviso - Castelfranco Bassano del Grappa.

**RAASM is approx. 3 km from the Train Station.**



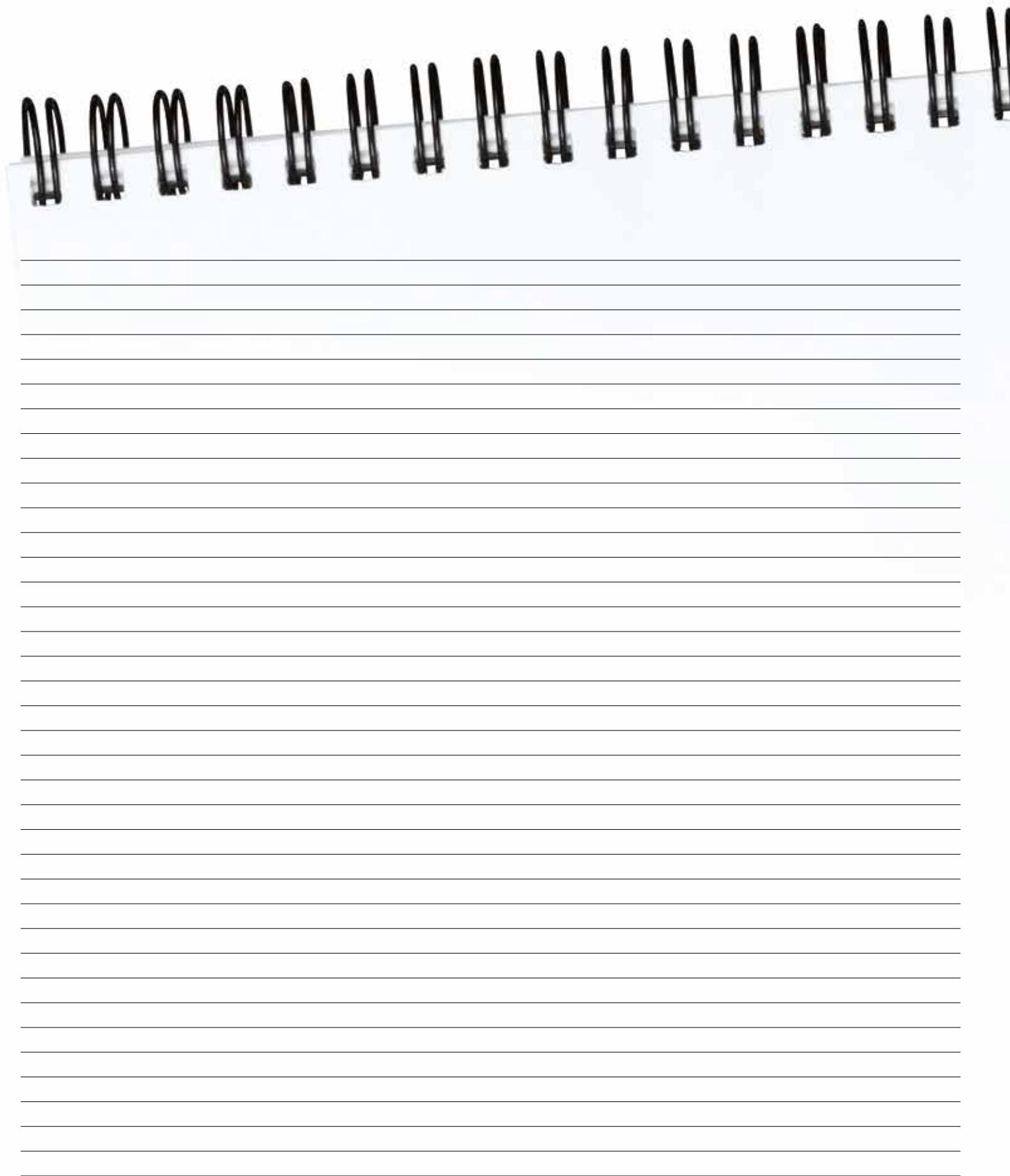
## by own transport

Arriving by car from the north or west, with Verona as the reference point take the A4 Motorway towards Vicenza - Valdagno. At the Dueville exit head for Bassano del Grappa.

If arriving from the south, with Padova as the reference point take State Road 47 towards Cittadella Bassano del Grappa.



# Notes





RAY  
SAFETY

# Index Articles

Article	219 Catalogue page N°	217 Catalogue page N°
---------	-----------------------	-----------------------

<b>10/09</b>	204-210	323
<b>10/10</b>	107-210	225-322
<b>10/11</b>	107-210	225-322
<b>10/12</b>	210	225-322
<b>10/13</b>	210	225-322
<b>10/14</b>	107-210	323
<b>10/15</b>	107-210	224-323
<b>10/17</b>	210	323
<b>10/18</b>	210	225-323
<b>10/20</b>	112	234-325
<b>10/21</b>	112	
<b>10/22</b>	112	234-325
<b>10/23</b>	112	234-325
<b>10/24</b>	112	234-325
<b>10/25</b>	112	
<b>10/50</b>	126-211	260-324
<b>10/51</b>	126-211	260-324
<b>10/52</b>	126-211	260-324
<b>10/55</b>	211	324
<b>10/56</b>	211	324
<b>10/57</b>	211	324
<b>10/60</b>	126-211	258-325
<b>10/61</b>	126-211	258-325
<b>10/62</b>	126-211	258-325
<b>10/65</b>	211	325
<b>10/66</b>	211	325
<b>10/67</b>	211	325
<b>10/80</b>	212	327
<b>10/81</b>	212	327
<b>10/82</b>	213	261-328
<b>10/85</b>	213	329
<b>10/09111P1N</b>	215	
<b>10/09451P1N</b>	215	
<b>10/12181P1N</b>	215	
<b>10/12401P1N</b>	215	
<b>10/12751P1N</b>	215	
<b>10/1561P1N</b>	214	
<b>10/15701P1N</b>	215	
<b>10/1881P1N</b>	214	
<b>10105</b>	32	48
<b>10205</b>	32	48
<b>10207</b>	32	48
<b>10705</b>	32	49
<b>10801</b>	35	51
<b>10802</b>	35	51
<b>10805</b>	32	49
<b>10807</b>	32	49
<b>11/60</b>	216	329
<b>11000/A</b>	34	50
<b>11000/B</b>	34	50
<b>11000/C</b>	34	50
<b>11000/D</b>	34	50
<b>11000/E</b>	34	50
<b>11000/F</b>	34	50
<b>11000/G</b>	34	50
<b>11000/H</b>	34	50
<b>11000/I</b>	34	50
<b>11000/K</b>	34	50
<b>11000/L</b>	34	50
<b>11000/M</b>	34	50
<b>11000/P</b>	34	50

Article	219 Catalogue page N°	217 Catalogue page N°
---------	-----------------------	-----------------------

<b>11000/R</b>	34	50
<b>11000/T</b>	34	50
<b>11000/U</b>	34	50
<b>11000/W</b>	34	50
<b>11000/X</b>	34	50
<b>11000/Y</b>	34	50
<b>11000/Z</b>	34	50
<b>11001</b>	34	50
<b>11002</b>	34	50
<b>11003</b>	35	51
<b>11003/1</b>	35	51
<b>11003/2</b>	35	51
<b>11003/3</b>	35	51
<b>11003/4</b>	35	51
<b>11003/5</b>	35	51
<b>11003/6</b>	35	51
<b>11003/7</b>	35	51
<b>11003/8</b>	35	51
<b>11003/9</b>	35	51
<b>11004</b>	35	51
<b>115D/121</b>	207	307
<b>115D/181</b>	207	308
<b>115D/31</b>	200	315
<b>115D/91</b>	207	306
<b>115DV/31</b>	200	315
<b>115F/121</b>	199	307
<b>115F/181</b>	199	308
<b>115F/401</b>	204	312
<b>115F/751</b>	203	311
<b>115F/91</b>	199	306
<b>115FSP/751</b>	203	
<b>116F/121</b>	199	307
<b>116F/181</b>	199	308
<b>116F/401</b>	205	312
<b>116F/751</b>	119-203	311
<b>117F/401</b>	205	312
<b>117F/751</b>	119-203	311
<b>118F/401</b>	204	
<b>118FSP/401</b>	204	
<b>120D/91</b>	209	321
<b>150D/41</b>	201	316
<b>150D/61</b>	201	317
<b>150DV/61</b>	201	317
<b>150F/701</b>	205	
<b>151F/701</b>	205	313
<b>152F/701</b>	205	313
<b>153F/701</b>	205	
<b>180D/51</b>	201	318
<b>180D/81</b>	201	319
<b>180DV/81</b>	201	319
<b>21/61</b>	216	
<b>21/62</b>	216	
<b>21/63</b>	216	
<b>21/64</b>	216	
<b>21/65</b>	216	
<b>22017</b>	36	54
<b>22024</b>	36	54
<b>23024</b>	36	55
<b>23025</b>	36	55
<b>24891</b>	36-60-62	55-116

Article	219 Catalogue page N°	217 Catalogue page N°
---------	-----------------------	-----------------------

<b>26090</b>	70	160
<b>26091</b>	70	160
<b>26093</b>	70	
<b>26094</b>	70	160
<b>2B3/16117NH52</b>	79	
<b>2B3/16117TT52</b>	79	
<b>2B8/16117NH52</b>	79	
<b>2B8/16117TT52</b>	79	
<b>30050</b>	61	115
<b>30200</b>	60	115
<b>31200</b>	60	114
<b>31201</b>	60	114
<b>32016</b>	61	116
<b>32024</b>	61	116
<b>32065</b>	61	116
<b>32713</b>	60-62	
<b>33/2011NHHV2</b>	77	
<b>33/2611NHHV2</b>	78	
<b>33/3011NHHV2</b>	78	
<b>33016</b>	62	120
<b>33024</b>	62	120
<b>33060</b>	71	163
<b>33061</b>	71	163
<b>33070</b>	71	163
<b>33071</b>	71	163
<b>33072</b>	71	163
<b>33073</b>	71	163
<b>33080</b>	71	162
<b>33081</b>	71	162
<b>33082</b>	71	162
<b>33083</b>	71	162
<b>33094</b>	71	163
<b>33096</b>	71	163
<b>33106</b>	108	
<b>33107</b>	108	
<b>33108</b>	108	
<b>33109</b>	108	
<b>33111</b>	108	
<b>33112</b>	108	226
<b>33113</b>	108	226
<b>33114</b>	108-182	403
<b>33115</b>	107-210	224
<b>33116</b>	108-182	226-403
<b>33117</b>	108-182	226-403
<b>33118</b>	108	226
<b>33119</b>	108-182	226-403
<b>33120</b>	98	210
<b>33121</b>	99	212
<b>33122</b>	106	223
<b>33125</b>	50-90	186
<b>33126</b>	108	186-226
<b>33127</b>	108	186-226
<b>33128</b>	182	403
<b>33129</b>	182	403
<b>33130</b>	182	403
<b>33131</b>	182	
<b>33132</b>	182	
<b>33133</b>	182	
<b>33134</b>	50-90	
<b>33140</b>	100	216
<b>33146</b>	102	

Article	219 Catalogue page N°	217 Catalogue page N°
---------	-----------------------	-----------------------

<b>33147</b>	102	
<b>33148</b>	102	
<b>33150</b>	102-105	218-222
<b>33151</b>	102	218
<b>33152</b>	102	218
<b>33153</b>	102	218-326
<b>33160</b>	71	165
<b>33170</b>	71	164
<b>33172</b>	71	164
<b>33173</b>	71	164
<b>33194</b>	71	165
<b>33196</b>	71	165
<b>33270</b>	182	403
<b>33271</b>	182	403
<b>33272</b>	182	403
<b>33273</b>	182	403
<b>33274</b>	182	403
<b>33275</b>	108	226
<b>33276</b>	108	226
<b>33277</b>	108	
<b>33300</b>	76	159
<b>33360</b>	76-208	158
<b>33396</b>	76-208	158
<b>33424</b>	111	
<b>33425</b>	111	
<b>33426</b>	110-111	228
<b>33427</b>	111	227
<b>33428</b>	111	
<b>33434</b>	107-111 210	224
<b>33445</b>	76-103 208	
<b>33446</b>	103	
<b>33500</b>	77	156
<b>33501</b>	92	201
<b>33505</b>	77	
<b>33550</b>	50-90	186
<b>33581</b>	111	227
<b>33582</b>	111	227
<b>33583</b>	111	
<b>33585</b>	111	
<b>33590</b>	107	225
<b>33591</b>	107	225
<b>35060</b>	72	161
<b>35061</b>	72	161
<b>35063</b>	72	
<b>35076</b>	73	
<b>35094</b>	73	161
<b>35160</b>	73	166
<b>35161</b>	73	166
<b>35163</b>	73	167
<b>35173</b>	73	167
<b>35176</b>	73	167
<b>35194</b>	73	167
<b>35196</b>	73	167
<b>35198</b>	83	
<b>35199</b>	83	
<b>35200</b>	82	172
<b>35201</b>	82	
<b>35209</b>	82	
<b>35210</b>	82	173

# Index Articles

Article	219 Catalogue page N°	217 Catalogue page N°
35219	83	
35220	83	174
35249	85	
35250	85	175
35254	85	
35259	85	
35260	85	
35264	85	
35265	84	176
35270	84	177
35275	86	180
35276	87	181
35280	87	182
35281	87	183
35284	91	
35285	91	185
35290	91	178
35293	91	178
35296	91	178
35330	88	190
35415	83	
35425	83	
36060	74	168
36061	74	168
36063	74	169
36073	75	169
36076	75	169
36094	75	169
36096	75	169
36330	88	190
36340	89	191
36350	89	191
36602	89	194
36603	89	
36604	89	
36610	89	196
36620	89	196
37095	83	
37099	83	
37100	82	172
37150	82	173
37200	83	174
37499	85	
37500	85	175
37504	85	
37650	84	176
37670	84	177
37675	86	180
37676	87	181
37679	87	183
37680	87	182
37683	93	200
37685	91	185
37686	92	198
37687	92	198
37688	92	198
37689	92	198
37690	92	198
37691	92	198
37692	93	202
37693	93	202

Article	219 Catalogue page N°	217 Catalogue page N°
37695	92	201
37697	93	200
37698	93	200
37699	93	200
37701	106	204
37703	106	206
37704	106	
37728	98	
37729	98	
37730	98	
37740	99-104	214-220
37741	99	214
37742	99	214
37743	99	214
37750	100-104	216-221
37751	100	216
37752	100	216
37758	99	
37759	99	
37760	99	
37762	103	
37764	103	
37775	101-105	
37776	101	
37777	101	
37778	101	
37780	94	
37781	94	
37785	94-103	
37786	99	
37794	100	
37795	100	
37796	100	
37797	101	
37798	101	
37799	101	
37801	129	264
37810	129	264
37811	129	264
37812	110-129	229-264
37814	129	264
37815	129	264
37816	129	264
37817	110-129	229-264
37830	93	
38010	104	220
38011	104	220
38012	104	220
38013	104	220
38014	104	
38015	104	220
38016	104	220
38017	104	220
38018	104	220
38020	99-104	212-220
38021	99	212
38022	99	212
38023	98-104	210-220
38024	98	210
38025	98	210
38026	110	228

Article	219 Catalogue page N°	217 Catalogue page N°
38027	111	227
38028	110	228
38029	104	221
38030	104	221
38031	104	221
38032	104	221
38034	104	221
38035	104	221
38037	105	222
38038	105	222
38039	105	222
38040	105	222
38042	107	224
38043	107	224
38044	107	
38046	107	224
38047	107	224
38051	107	224
38052	107	224
38055	111	227
38056	111	
38057	111	
38062	104	220
38063	104	221
38065	105	222
38066	105	
38069	108	
38070	108	226
38071	108-182	226-403
38072	108-182	226-403
38073	108-182	226
38075	108	226
38076	108	226
38077	108	226
38078	108	226
38079	108	
38080	110	
38081	110	
38082	110	
38083	110	
38084	113	232
38085	113	232
38086	113	232
38087	113	232
38088	113	232
38089	113	233
38090	112	234
38091	110	226
38092	112	234
38093	113	233
38095	110	229
38096	110	229
38097	109	229
38098	109	229
38099	110	229
38100	110	229
38102	93	202
38105	93	202
38120	182	403
38121	182	403
38124	182	

Article	219 Catalogue page N°	217 Catalogue page N°
38130	109	
38131	109	
38132	109	
38210	110	228
38211	110	228
39304	139	277
39307	139	277
39314	139	273
39317	139	273
39320	135	99
39321	135	279
39322	135	279
39323	134	
39324	137	275
39328	137	275
39334	134	
39335	134	
39336	136	
39338	136	
39340	136	
39351	138	281
39352	138	281
39405	139	
39406	139	
39407	139	
39421	135	
39422	135	
39901	138	282
39902	138	282
42000	51	66
42004	51	
42050	51	66
42055	52	
42056	52	
42059	52	64
42060	52	64
42061	52	64
42062	52	64
42065	46	68
42066	46	72
42069	53	65
42070	53	65
42072	53	65
42073	53	65
42075	53	
42076	53	
42090	46	68
42091	46	72
42115	46	68
42116	46	72
43016	45	79
43024	45	79
43060	47	80
43065	47	82
43090	47	80
43091	47	82
43114	47	80
43115	47	82
44060	47	84
44065	47	86
44090	47	84

# Index Articles

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>44091</b>	47	86
<b>44115</b>	47	84
<b>44116</b>	47	86
<b>45100</b>	55	97
<b>45110</b>	55	97
<b>45111</b>	55	97
<b>45150</b>	54	96
<b>45180</b>	54	96
<b>45200</b>	56	104
<b>45250</b>	56	104
<b>45280</b>	56	104
<b>45290</b>	56	104
<b>45291</b>	56	104
<b>45292</b>	56	104
<b>45300</b>	55	98
<b>45310</b>	55	99
<b>45311</b>	55	99
<b>45498</b>	44	100
<b>45499</b>	44	100
<b>45500</b>	44	100
<b>45501</b>	44	100
<b>45502</b>	44	100
<b>45504</b>	44	100
<b>45505</b>	44	100
<b>45506</b>	44	100
<b>45515</b>	44	100
<b>45516</b>	44	100
<b>45517</b>	44	100
<b>45518</b>	44	100
<b>45526</b>	44	100
<b>45527</b>	44	100
<b>45528</b>	44	100
<b>45538</b>	44	100
<b>45539</b>	44	100
<b>45540</b>	44	100-106
<b>45550</b>	44	101-109
<b>45551</b>	44	101-109
<b>45560</b>	44	100
<b>45570</b>	44	101
<b>46064</b>	48	90
<b>46065</b>	48	90
<b>46114</b>	49	91
<b>46115</b>	49	91
<b>46116</b>	49	92
<b>46215</b>	49	94
<b>52010</b>	39	60
<b>52013</b>	38	58
<b>52015</b>	38	59
<b>52020</b>	38	58
<b>52024</b>	38	59
<b>53016</b>	38	59
<b>53024</b>	38	59
<b>60280</b>	64	124
<b>60310</b>	64	124
<b>60311</b>	64	124
<b>60410</b>	65	126
<b>60411</b>	65	126
<b>60450</b>	65-127	126-262
<b>60451</b>	65-127	126-262
<b>62041</b>	116	238
<b>62048</b>	116	238

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>62074</b>	116	238
<b>62095</b>	116	238
<b>63041</b>	117	239
<b>63048</b>	117	239
<b>63074</b>	117	239
<b>63095</b>	117	239
<b>64000</b>	121	242
<b>64000/65</b>	121	242
<b>64000/75</b>	121	242
<b>64001</b>	121	
<b>64001/65</b>	121	
<b>64001/75</b>	121	
<b>64021</b>	125	251
<b>64025</b>	125	250
<b>64031</b>	125	251
<b>64032</b>	124	249
<b>64033</b>	124	249
<b>64033/40</b>	125	249
<b>64034</b>	124	248
<b>64035</b>	124	248
<b>64036</b>	125	248
<b>64037</b>	123	246
<b>64038</b>	123	246
<b>64039</b>	123	247
<b>64039/65</b>	123	247
<b>64040</b>	123	244
<b>64041</b>	123	244
<b>64042</b>	123	245
<b>64042/65</b>	123	245
<b>64063</b>	122	244
<b>64064</b>	122	244
<b>64070</b>	120	243
<b>64070/65</b>	120	243
<b>64070/75</b>	120	243
<b>64071</b>	121	
<b>64071/65</b>	121	
<b>64071/75</b>	121	
<b>64145</b>	122	256
<b>64146</b>	122	256
<b>64195</b>	120	257
<b>64196</b>	120	257
<b>64197</b>	120	257
<b>64200</b>	117	254
<b>64210</b>	117	255
<b>65138</b>	108-211	229-324
<b>65142</b>	108-211	229-324
<b>65160</b>	108-211	229-324
<b>65280</b>	126	260
<b>65309</b>	127	260
<b>65310</b>	126	260
<b>65311</b>	127	260
<b>65312</b>	127	
<b>65350</b>	126	260
<b>65385</b>	126	260
<b>65420</b>	126	260
<b>65600</b>	126	260
<b>66265</b>	126	258
<b>66310</b>	126	258
<b>66340</b>	126	258
<b>66370</b>	126	258
<b>66400</b>	126	258

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>66590</b>	126	258
<b>66599</b>	127	263
<b>66661</b>	127	262
<b>66663</b>	127	262
<b>66739</b>	127	263
<b>66740</b>	127	263
<b>66741</b>	127	263
<b>66742</b>	127	263
<b>66743</b>	127	263
<b>66855</b>	128	266
<b>66856</b>	128	267
<b>66857</b>	128	267
<b>66860</b>	128	266
<b>66880</b>	128	267
<b>66881</b>	128	267
<b>66882</b>	128	267
<b>66888</b>	128	266
<b>66889</b>	128	266
<b>66891</b>	127-182	262
<b>66892</b>	127-182	262
<b>66893</b>	127-182	262-403
<b>66895</b>	127	262
<b>66896</b>	127	262
<b>66897</b>	127	262
<b>68012</b>	63	122
<b>68113</b>	63	122
<b>68213</b>	63	123
<b>70365</b>	37	56
<b>70809</b>	37	56
<b>735000</b>	177	
<b>735111</b>	177	
<b>735131.60141</b>	177	
<b>735131.60152</b>	177	
<b>735131.60252</b>	177	
<b>735131.60261</b>	177	
<b>735141.60152</b>	177	
<b>735141.60252</b>	177	
<b>7522001.100</b>	176	
<b>7522001.150</b>	176	
<b>7522001.200</b>	176	
<b>7522001.250</b>	176	
<b>7522001.300</b>	176	
<b>7522001.400</b>	176	
<b>7522001.450</b>	176	
<b>7532001.100</b>	176	
<b>7532001.150</b>	176	
<b>7532001.200</b>	176	
<b>7532001.250</b>	176	
<b>7532001.300</b>	176	
<b>7532001.400</b>	176	
<b>7532001.450</b>	176	
<b>7552001.100</b>	176	
<b>7552001.150</b>	176	
<b>7552001.200</b>	176	
<b>7552001.250</b>	176	
<b>7552001.300</b>	176	
<b>7552001.400</b>	176	
<b>7562001.100</b>	176	
<b>7562001.150</b>	176	
<b>7562001.200</b>	176	
<b>7562001.250</b>	176	
<b>7562001.300</b>	176	
<b>7562001.400</b>	176	
<b>7562001.450</b>	176	
<b>80035</b>	130	270
<b>80040</b>	130	270
<b>80050</b>	130	270
<b>80200</b>	131	271
<b>80201</b>	131	271
<b>80210</b>	131	
<b>80215</b>	131	
<b>8288.100</b>	149	
<b>8288.102</b>	149	
<b>8288.103</b>	149	
<b>8288.104</b>	149	
<b>8288.105</b>	149	
<b>8290.100</b>	154	
<b>8290.101</b>	154	
<b>8290.104</b>	154	
<b>8292.100</b>	155	
<b>8292.101</b>	155	
<b>8292.104</b>	155	
<b>8328.100</b>	149	
<b>8328.102</b>	149	
<b>8328.103</b>	149	
<b>8328.104</b>	149	
<b>8328.105</b>	149	
<b>8330.100</b>	154	
<b>8330.200</b>	156	
<b>8330.201</b>	156	
<b>8330.300</b>	158	
<b>8330.301</b>	158	
<b>8330.350</b>	160	
<b>8330.400</b>	164	
<b>8330.402</b>	164	
<b>8330.500</b>	166	
<b>8330.501</b>	166	
<b>8330.800</b>	173	
<b>8330.801</b>	173	
<b>8330.802</b>	173	
<b>8332.100</b>	155	
<b>8332.101</b>	155	
<b>8332.201</b>	157	
<b>8332.300</b>	159	
<b>8332.301</b>	159	
<b>8332.350</b>	161	
<b>8332.400</b>	157	
<b>8333.202</b>	157	
<b>8333.301</b>	159	
<b>8378.100</b>	149	
<b>8378.102</b>	149	
<b>8378.103</b>	149	
<b>8378.104</b>	149	
<b>8378.105</b>	149	
<b>8380.100</b>	154	342
<b>8380.102</b>	154	342
<b>8380.200</b>	156	350
<b>8380.202</b>	156	350
<b>8380.300</b>	158	356
<b>8380.302</b>	158	356

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>7562001.250</b>	176	
<b>7562001.300</b>	176	
<b>7562001.400</b>	176	
<b>7562001.450</b>	176	
<b>80035</b>	130	270
<b>80040</b>	130	270
<b>80050</b>	130	270
<b>80200</b>	131	271
<b>80201</b>	131	271
<b>80210</b>	131	
<b>80215</b>	131	
<b>8288.100</b>	149	
<b>8288.102</b>	149	
<b>8288.103</b>	149	
<b>8288.104</b>	149	
<b>8288.105</b>	149	
<b>8290.100</b>	154	
<b>8290.101</b>	154	
<b>8290.104</b>	154	
<b>8292.100</b>	155	
<b>8292.101</b>	155	
<b>8292.104</b>	155	
<b>8328.100</b>	149	
<b>8328.102</b>	149	
<b>8328.103</b>	149	
<b>8328.104</b>	149	
<b>8328.105</b>	149	
<b>8330.100</b>	154	
<b>8330.200</b>	156	
<b>8330.201</b>	156	
<b>8330.300</b>	158	
<b>8330.301</b>	158	
<b>8332.300</b>	159	
<b>8332.301</b>	159	
<b>8332.350</b>	161	
<b>8332.400</b>	157	
<b>8333</b>		

# Index Articles

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>8380.350</b>	160	360
<b>8380.352</b>	160	360
<b>8380.400</b>	164	372
<b>8380.401</b>	164	372
<b>8380.402</b>	164	372
<b>8380.500</b>	166	380
<b>8380.501</b>	166	380
<b>8380.502</b>	166	380
<b>8382.100</b>	155	343
<b>8382.102</b>	155	343
<b>8382.200</b>	157-165	351-373
<b>8382.202</b>	157	351
<b>8382.300</b>	159	357
<b>8382.302</b>	159	357
<b>8382.350</b>	161	361
<b>8382.352</b>	161	361
<b>8382.500</b>	167	381
<b>8383.201</b>	157	351
<b>8383.301</b>	159	357
<b>8390.100</b>	154	340
<b>8390.102</b>	154	340
<b>8390.200</b>	156	348
<b>8390.202</b>	156	348
<b>8390.300</b>	158	354
<b>8390.302</b>	158	354
<b>8390.350</b>	160	358
<b>8390.352</b>	160	358
<b>8390.400</b>	164	370
<b>8390.401</b>	164	370
<b>8390.402</b>	164	370
<b>8390.500</b>	166	378
<b>8390.501</b>	166	378
<b>8390.502</b>	166	378
<b>8390.800</b>	173	
<b>8390.801</b>	173	
<b>8390.802</b>	173	
<b>8392.100</b>	155	341
<b>8392.102</b>	155	341
<b>8392.200</b>	157-165	349-371
<b>8392.202</b>	157	349
<b>8392.300</b>	159	355
<b>8392.302</b>	159	355
<b>8392.350</b>	161	359
<b>8392.352</b>	161	359
<b>8392.500</b>	167	379
<b>8393.201</b>	157	349
<b>8393.301</b>	159	355
<b>8420.100</b>	154	342
<b>8420.101</b>	154	342
<b>8420.102</b>	154	342
<b>8420.103</b>	154	342
<b>8420.104</b>	154	342
<b>8420.200</b>	156	350
<b>8420.201</b>	156	350
<b>8420.202</b>	156	350
<b>8420.300</b>	158	356
<b>8420.301</b>	158	356
<b>8420.302</b>	158	356
<b>8420.350</b>	160	360
<b>8420.354</b>	160	360
<b>8420.400</b>	164	372

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>8420.401</b>	164	372
<b>8420.402</b>	164	372
<b>8420.500</b>	166	380
<b>8420.501</b>	166	380
<b>8420.502</b>	166	380
<b>8420.505</b>	166	380
<b>8420.506</b>	166	380
<b>8422.100</b>	155	343
<b>8422.101</b>	155	343
<b>8422.102</b>	155	343
<b>8422.103</b>	155	343
<b>8422.104</b>	155	343
<b>8422.201</b>	157	351
<b>8422.202</b>	157	351
<b>8422.301</b>	159	357
<b>8422.302</b>	159	357
<b>8422.354</b>	161	361
<b>8422.500</b>	167	379
<b>8423.202</b>	157	349
<b>8423.302</b>	159	355
<b>8423.354</b>	161	359
<b>8424.200</b>	157-162	349-362 165 364-371
<b>8424.300</b>	159-162	355-366
<b>8424.350</b>	161-162	359-368
<b>8426.200</b>	170	
<b>8426.204</b>	170	
<b>8426.205</b>	170	
<b>8428.101</b>	149	
<b>8428.102</b>	149	
<b>8440.100</b>	150	344
<b>8440.101</b>	150	344
<b>8440.102</b>	150	344
<b>8440.103</b>	150	344
<b>8440.104</b>	150	344
<b>8440.400</b>	150	374
<b>8440.401</b>	150	374
<b>8440.402</b>	150	374
<b>8440.500</b>	150	382
<b>8440.501</b>	150	382
<b>8440.502</b>	150	382
<b>8440.505</b>	150	382
<b>8440.506</b>	150	382
<b>8450.100</b>	150	344
<b>8450.101</b>	150	344
<b>8450.102</b>	150	344
<b>8450.103</b>	150	344
<b>8450.104</b>	150	344
<b>8450.400</b>	150	374
<b>8450.401</b>	150	374
<b>8450.402</b>	150	374
<b>8450.500</b>	150	382
<b>8450.501</b>	150	382
<b>8450.502</b>	150	382
<b>8450.505</b>	150	382
<b>8450.506</b>	150	382
<b>8450.507</b>	150	382
<b>8450.508</b>	150	382
<b>8450.509</b>	150	382
<b>8450.510</b>	150	382
<b>8450.511</b>	150	382
<b>8450.512</b>	150	382
<b>8450.513</b>	150	382
<b>8450.514</b>	150	382
<b>8450.515</b>	150	382
<b>8450.516</b>	150	382
<b>8450.517</b>	150	382
<b>8450.518</b>	150	382
<b>8450.519</b>	150	382
<b>8450.520</b>	150	382
<b>8450.521</b>	150	382
<b>8450.522</b>	150	382
<b>8450.523</b>	150	382
<b>8450.524</b>	150	382
<b>8450.525</b>	150	382
<b>8450.526</b>	150	382
<b>8450.527</b>	150	382
<b>8450.528</b>	150	382
<b>8450.529</b>	150	382
<b>8450.530</b>	150	382
<b>8450.531</b>	150	382
<b>8450.532</b>	150	382
<b>8450.533</b>	150	382
<b>8450.534</b>	150	382
<b>8450.535</b>	150	382
<b>8450.536</b>	150	382
<b>8450.537</b>	150	382
<b>8450.538</b>	150	382
<b>8450.539</b>	150	382
<b>8450.540</b>	150	382
<b>8450.541</b>	150	382
<b>8450.542</b>	150	382
<b>8450.543</b>	150	382
<b>8450.544</b>	150	382
<b>8450.545</b>	150	382
<b>8450.546</b>	150	382
<b>8450.547</b>	150	382
<b>8450.548</b>	150	382
<b>8450.549</b>	150	382
<b>8450.550</b>	150	382
<b>8450.551</b>	150	382
<b>8450.552</b>	150	382
<b>8450.553</b>	150	382
<b>8450.554</b>	150	382
<b>8450.555</b>	150	382
<b>8450.556</b>	150	382
<b>8450.557</b>	150	382
<b>8450.558</b>	150	382
<b>8450.559</b>	150	382
<b>8450.560</b>	150	382
<b>8450.561</b>	150	382
<b>8450.562</b>	150	382
<b>8450.563</b>	150	382
<b>8450.564</b>	150	382
<b>8450.565</b>	150	382
<b>8450.566</b>	150	382
<b>8450.567</b>	150	382
<b>8450.568</b>	150	382
<b>8450.569</b>	150	382
<b>8450.570</b>	150	382
<b>8450.571</b>	150	382
<b>8450.572</b>	150	382
<b>8450.573</b>	150	382
<b>8450.574</b>	150	382
<b>8450.575</b>	150	382
<b>8450.576</b>	150	382
<b>8450.577</b>	150	382
<b>8450.578</b>	150	382
<b>8450.579</b>	150	382
<b>8450.580</b>	150	382
<b>8450.581</b>	150	382
<b>8450.582</b>	150	382
<b>8450.583</b>	150	382
<b>8450.584</b>	150	382
<b>8450.585</b>	150	382
<b>8450.586</b>	150	382
<b>8450.587</b>	150	382
<b>8450.588</b>	150	382
<b>8450.589</b>	150	382
<b>8450.590</b>	150	382
<b>8450.591</b>	150	382
<b>8450.592</b>	150	382
<b>8450.593</b>	150	382
<b>8450.594</b>	150	382
<b>8450.595</b>	150	382
<b>8450.596</b>	150	382
<b>8450.597</b>	150	382
<b>8450.598</b>	150	382
<b>8450.599</b>	150	382
<b>8450.600</b>	150	382
<b>8450.601</b>	150	382
<b>8450.602</b>	150	382
<b>8450.603</b>	150	382
<b>8450.604</b>	150	382
<b>8450.605</b>	150	382
<b>8450.606</b>	150	382
<b>8450.607</b>	150	382
<b>8450.608</b>	150	382
<b>8450.609</b>	150	382
<b>8450.610</b>	150	382
<b>8450.611</b>	150	382
<b>8450.612</b>	150	382
<b>8450.613</b>	150	382
<b>8450.614</b>	150	382
<b>8450.615</b>	150	382
<b>8450.616</b>	150	382
<b>8450.617</b>	150	382
<b>8450.618</b>	150	382
<b>8450.619</b>	150	382
<b>8450.620</b>	150	382
<b>8450.621</b>	150	382
<b>8450.622</b>	150	382
<b>8450.623</b>	150	382
<b>8450.624</b>	150	382
<b>8450.625</b>	150	382
<b>8450.626</b>	150	382
<b>8450.627</b>	150	382
<b>8450.628</b>	150	382
<b>8450.629</b>	150	382
<b>8450.630</b>	150	382
<b>8450.631</b>	150	382
<b>8450.632</b>	150	382
<b>8450.633</b>	150	382
<b>8450.634</b>	150	382
<b>8450.635</b>	150	382
<b>8450.636</b>	150	382
<b>8450.637</b>	150	382
<b>8450.638</b>	150	382
<b>8450.639</b>	150	382
<b>8450.640</b>	150	382
<b>8450.641</b>	150	382
<b>8450.642</b>	150	382
<b>8450.643</b>	150	382
<b>8450.644</b>	150	382
<b>8450.645</b>	150	382
<b>8450.646</b>	150	382
<b>8450.647</b>	150	382
<b>8450.648</b>	150	382
<b>8450.649</b>	150	382
<b>8450.650</b>	150	382
<b>8450.651</b>	150	382
<b>8450.652</b>	150	382
<b>8450.653</b>	150	382
<b>8450.654</b>	150	382
<b>8450.655</b>	150	382
<b>8450.656</b>	150	382
<b>8450.657</b>	150	382
<b>8450.658</b>	150	382
<b>8450.659</b>	150	382
<b>8450.660</b>	150	382
<b>8450.661</b>	150	382
<b>8450.662</b>	150	382
<b>8450.663</b>	150	382
<b>8450.664</b>	150	382
<b>8450.665</b>	150	382
<b>8450.666</b>	150	382
<b>8450.667</b>	150	382
<b>8450.668</b>	150</	

# Index Articles

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>8532.302</b>	159	355
<b>8532.352</b>	161	359
<b>8532.500</b>	167	379
<b>8533.202</b>	157	349
<b>8533.302</b>	159	355
<b>8533.352</b>	161	359
<b>8534.200</b>	157-162 165	349-362 364-371
<b>8534.300</b>	159-162	355-366
<b>8534.350</b>	161-162	359-368
<b>8537.200</b>	170	
<b>8537.204</b>	170	
<b>8537.205</b>	170	
<b>8540.100</b>	154-168	340-386
<b>8540.101</b>	154	340
<b>8540.102</b>	154	340
<b>8540.103</b>	154	340
<b>8540.105</b>	154	340
<b>8540.106</b>	154	340
<b>8540.200</b>	156	348
<b>8540.202</b>	156	348
<b>8540.203</b>	156	348
<b>8540.300</b>	158	354
<b>8540.301</b>	158	354
<b>8540.350</b>	160	358
<b>8540.400</b>	164	370
<b>8540.411</b>	164	
<b>8540.412</b>	164	
<b>8540.413</b>	164	
<b>8540.405</b>	164	370
<b>8540.406</b>	164	370
<b>8540.500</b>	166	378
<b>8540.5000</b>	171	
<b>8540.501</b>	166	378
<b>8540.601</b>	168	386
<b>8540.602</b>	168	386
<b>8540.603</b>	168	386
<b>8540.700</b>	172	390
<b>8540.701</b>	172	390
<b>8540.702</b>	172	390
<b>8540.704</b>	172	390
<b>8540.705</b>	172	390
<b>8540.707</b>	172	390
<b>8540.709</b>	172	390
<b>8540.800</b>	173	392
<b>8540.802</b>	173	392
<b>854001</b>	180	394
<b>854002</b>	180	394
<b>854005</b>	181	395
<b>854006</b>	181	395
<b>8542.100</b>	155-169	341-387
<b>8542.101</b>	155	341
<b>8542.102</b>	155	341
<b>8542.103</b>	155	341
<b>8542.105</b>	155	341
<b>8542.106</b>	155	340
<b>8542.200</b>	156	348
<b>8542.205</b>	162	349-362 364-371
<b>8542.602</b>	169	387
<b>8542.603</b>	169	387
<b>8543.202</b>	157	349
<b>8543.301</b>	159	355
<b>8544.200</b>	157-162 165	349-362 364-371
<b>8544.205</b>	162	349-362 364-371
<b>8544.300</b>	159-162	355-366
<b>8544.350</b>	161-162	359-368
<b>8545.200</b>	163	
<b>8550.100</b>	154	342
<b>8550.101</b>	154	342
<b>8550.102</b>	154	342
<b>8550.103</b>	154	342
<b>8550.105</b>	154	342
<b>8550.106</b>	154	342
<b>8550.200</b>	156	350
<b>8550.202</b>	156	350
<b>8550.203</b>	156	350
<b>8550.300</b>	158	356
<b>8550.301</b>	158	356
<b>8550.350</b>	160	360
<b>8550.400</b>	164	372
<b>8550.411</b>	164	
<b>8550.412</b>	164	
<b>8550.413</b>	164	
<b>8550.405</b>	164	372
<b>8550.406</b>	164	372
<b>8550.500</b>	166	380
<b>8550.501</b>	166	380
<b>8552.100</b>	155	343
<b>8552.101</b>	155	343
<b>8552.102</b>	155	343
<b>8552.103</b>	155	343
<b>8552.105</b>	155	343
<b>8552.106</b>	155	343
<b>8552.202</b>	157	351
<b>8552.203</b>	157	351
<b>8552.301</b>	159	357
<b>8553.202</b>	157	351
<b>8553.301</b>	159	357
<b>8554.200</b>	157-162 165	351-363 365-373
<b>8554.205</b>	162	351-363 365-373
<b>8554.300</b>	159-162	357-367
<b>8554.350</b>	161-162	361-369
<b>8560.100</b>	154-168	340-386
<b>8560.101</b>	154	340
<b>8560.103</b>	154	340
<b>8560.104</b>	154	340
<b>8560.105</b>	154	340
<b>8560.106</b>	154	340
<b>8560.200</b>	156	348
<b>8560.205</b>	156	348
<b>8560.300</b>	158	354
<b>8560.301</b>	158	354
<b>8560.302</b>	158	354
<b>8560.350</b>	160	358
<b>8560.400</b>	164	370

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>8560.415</b>	164	
<b>8560.603</b>	168	386
<b>8560.604</b>	168	386
<b>8560.605</b>	168	386
<b>856001</b>	180	394
<b>856002</b>	180	394
<b>8562.100</b>	155-169	341-387
<b>8562.101</b>	155	341
<b>8562.103</b>	155	341
<b>8562.104</b>	155	341
<b>8562.105</b>	155	341
<b>8562.106</b>	155	341
<b>8562.205</b>	157	349
<b>8562.301</b>	159	355
<b>8562.302</b>	159	355
<b>8562.603</b>	169	387
<b>8562.604</b>	169	387
<b>8562.605</b>	169	387
<b>8564.200</b>	157-162	349-362 364-371
<b>8564.206</b>	162	349-362 364-371
<b>8564.300</b>	159-162	355-366
<b>8564.350</b>	161-162	359-368
<b>8617.100</b>	174	346
<b>8617.200</b>	174	352
<b>8617.400</b>	174	376
<b>8617.500</b>	174	384
<b>8617.600</b>	174	388
<b>8618.100</b>	175	347-389
<b>8618.200</b>	175	353
<b>8618.400</b>	175	377
<b>8618.500</b>	175	385
<b>8637.100</b>	174	346
<b>8637.200</b>	174	352
<b>8637.400</b>	174	376
<b>8637.500</b>	174	384
<b>8637.600</b>	174	388
<b>8638.100</b>	175	347-389
<b>8638.200</b>	175	353
<b>8638.400</b>	175	377
<b>8638.500</b>	175	385
<b>88630</b>	86-108 134-137 147	203-265
<b>88650</b>	147	397
<b>88651</b>	147	397
<b>89001</b>	39-148	60-338
<b>89010</b>	148	338
<b>89011</b>	148	338
<b>89109</b>	148	339
<b>89110</b>	148	339
<b>90C/111</b>	81-198	304
<b>90C/51</b>	80-196	170-301
<b>90C/71</b>	81-197	171-302
<b>90D/111</b>	207	305
<b>90D/21</b>	200	314
<b>90D/51</b>	206	301
<b>90D/71</b>	206	303
<b>90DV/21</b>	200	314
<b>90F/111</b>	199	305

Article	219 Catalogue page N.	217 Catalogue page N.
---------	-----------------------	-----------------------

<b>90F/451</b>	118-202	240-309
<b>90F/51</b>	196	170-301
<b>90F/71</b>	197	171-303
<b>90FSP/451</b>	202	
<b>91C/111</b>	81-198	304
<b>91C/701</b>	119-203	241-310
<b>91C/71</b>	81-197	171-302
<b>91F/111</b>	199	305
<b>91F/451</b>	118-202	240-309
<b>91F/71</b>	197	171-303
<b>92C/111</b>	81-198	305
<b>92C/701</b>	203	
<b>92C/71</b>	81-197	303
<b>92F/451</b>	202	309
<b>93C/71</b>	197	
<b>9430.100</b>	152	
<b>9430.101</b>	152	
<b>9430.102</b>	152	
<b>9430.103</b>	152	
<b>9430.104</b>	152	
<b>9430.200</b>	152	
<b>9430.201</b>	152	
<b>9430.202</b>	152	
<b>9430.300</b>	152	
<b>9430.301</b>	152	
<b>9430.302</b>	152	
<b>9430.401</b>	152	
<b>9430.402</b>	152	
<b>9430.404</b>	152	
<b>9430.500</b>	152	
<b>9430.501</b>	152	
<b>9430.502</b>	152	
<b>9430.505</b>	152	
<b>9430.506</b>	152	
<b>9431.202</b>	152	
<b>9431.302</b>	152	
<b>9432.100</b>	153	
<b>9432.101</b>	153	
<b>9432.102</b>	153	
<b>9432.103</b>	153	
<b>9432.104</b>	153	
<b>9432.201</b>	153	
<b>9432.202</b>	153	
<b>9432.301</b>	153	
<b>9432.302</b>	153	
<b>9432.401</b>	153	
<b>9432.402</b>	153	
<b>9432.505</b>	153	
<b>9432.506</b>	153	
<b>9433.202</b>	153	
<b>9433.302</b>	153	
<b>9434.200</b>	153	
<b>9434.300</b>	153	
<b>9450.100</b>	151	
<b>9450.101</b>	151	
<b>9450.102</b>	151	
<b>9450.103</b>	151	
<b>9450.104</b>	151	

# Index Articles

Article	219 Catalogue page N°	217 Catalogue page N°
<b>9450.400</b>	151	
<b>9450.401</b>	151	
<b>9450.402</b>	151	
<b>9450.500</b>	151	
<b>9450.501</b>	151	
<b>9450.502</b>	151	
<b>9450.505</b>	151	
<b>9450.506</b>	151	
<b>94D/61</b>	209	
<b>95D/61</b>	209	320
<b>967.206</b>	183	
<b>967.210</b>	186	
<b>967.215</b>	186	
<b>971.010</b>	184	
<b>971.011</b>	184	405
<b>971.015</b>	184	
<b>971.102</b>	183	
<b>971.111</b>	184	
<b>971.112</b>	184	
<b>971.114</b>	184	
<b>971.115</b>	184	
<b>971.118</b>	184	
<b>971.120</b>	184	
<b>972.102</b>	183	
<b>972.113</b>	184	
<b>972.115</b>	184	
<b>972.120</b>	184	
<b>973.913</b>	186	409
<b>973.917</b>	186	409
<b>973.920</b>	186	409
<b>973.925</b>	186	409
<b>973.930</b>	186	409
<b>974.1008</b>	186	
<b>974.1015</b>	186	409
<b>974.1020</b>	186	409
<b>974.1028</b>	186	409
<b>974.912</b>	186	409
<b>974.915</b>	186	409
<b>974.920</b>	186	409
<b>974.925</b>	186	409
<b>974.930</b>	186	409

Article	219 Catalogue page N°	217 Catalogue page N°
<b>975.1002</b>	183	404
<b>975.1010</b>	186	
<b>975.1015</b>	186	
<b>975.1018</b>	186	409
<b>975.1027</b>	186	409
<b>975.1030</b>	186	409
<b>975.902</b>	183	404
<b>975.915</b>	186	409
<b>975.920</b>	186	409
<b>975.927</b>	186	409
<b>976.102</b>	183	
<b>976.108</b>	184	
<b>976.110</b>	184	
<b>976.111</b>	184	
<b>976.112</b>	184	
<b>976.114</b>	184	
<b>976.115</b>	184	
<b>993.201</b>	110-127 183	404
<b>993.202</b>	110-127 183	404
<b>993.215</b>	184	
<b>993.504</b>	127-183	404
<b>993.511</b>	185	408
<b>993.512</b>	127-185	408
<b>993.516</b>	185	408
<b>993.518</b>	127-185	408
<b>994.512</b>	185	406
<b>994.517</b>	185	406
<b>994.612</b>	185	406
<b>994.717</b>	185	406
<b>995.206</b>	183	404
<b>995.210</b>	184	
<b>995.211</b>	184	405
<b>995.212</b>	184	405
<b>995.217</b>	184	405
<b>995.218</b>	184	405
<b>995.312</b>	185	408
<b>995.313</b>	184	405

Article	219 Catalogue page N°	217 Catalogue page N°
<b>995.317</b>	185	408
<b>995.318</b>	184	405
<b>995.412</b>	184	405
<b>995.506</b>	183	404
<b>995.512</b>	185	406
<b>995.518</b>	185	406
<b>995.520</b>	185	406
<b>995.525</b>	185	406
<b>995.530</b>	185	406
<b>995.540</b>	185	406
<b>995.550</b>	185	406
<b>995.606</b>	183	404
<b>995.618</b>	185	406
<b>995.625</b>	185	406
<b>995.630</b>	185	406
<b>995.701</b>	127-183	404
<b>995.702</b>	127-183	404
<b>995.706</b>	183	404
<b>995.710</b>	127-185	408
<b>995.715</b>	127-185	408
<b>995.720</b>	185	408
<b>995.725</b>	185	408
<b>995.730</b>	185	408
<b>995.806</b>	183	404
<b>995.815</b>	185	406
<b>995.825</b>	185	406
<b>995.906</b>	183	404
<b>995.915</b>	185	406
<b>995.925</b>	185	406
<b>996.210</b>	184	405
<b>996.215</b>	184	405
<b>996.220</b>	184	405
<b>996.225</b>	184	405
<b>996.230</b>	184	405
<b>996.301</b>	110-183	404
<b>996.302</b>	110-183	404
<b>996.304</b>	110-183	404
<b>996.306</b>	183	404
<b>996.310</b>	185	408

Article	219 Catalogue page N°	217 Catalogue page N°
<b>996.311</b>	184	405
<b>996.315</b>	185	408
<b>996.316</b>	184	405
<b>996.320</b>	185	408
<b>996.321</b>	184	405
<b>996.325</b>	185	408
<b>996.330</b>	185	408
<b>996.406</b>	183	404
<b>996.415</b>	184	405
<b>996.425</b>	184	405
<b>997.215</b>	184	405
<b>997.220</b>	184	405
<b>997.230</b>	184	405
<b>997.240</b>	184	405
<b>997.320</b>	184	405
<b>997.420</b>	184	405
<b>997.505</b>	110-183	404
<b>997.3315</b>	185	
<b>997.3320</b>	185	
<b>997.812</b>	186	
<b>997.815</b>	186	409
<b>997.820</b>	186	409
<b>997.840</b>	186	409
<b>998.215</b>	184	405
<b>998.220</b>	184	405
<b>998.230</b>	184	405
<b>998.315</b>	184	405
<b>998.330</b>	184	405
<b>998.406</b>	183	404
<b>998.501</b>	110-183	404
<b>998.502</b>	110-183	404
<b>998.3306</b>	183	
<b>998.3315</b>	185	
<b>998.3330</b>	185	
<b>998.808</b>	186	
<b>998.815</b>	186	409
<b>998.820</b>	186	409
<b>998.830</b>	186	409

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