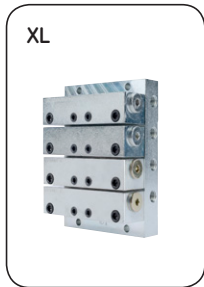
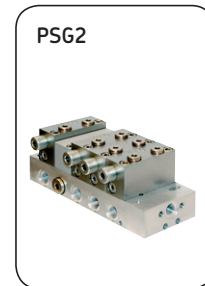
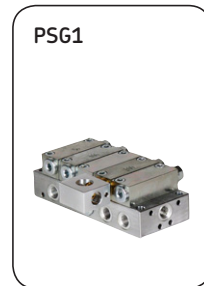
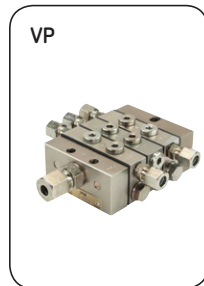
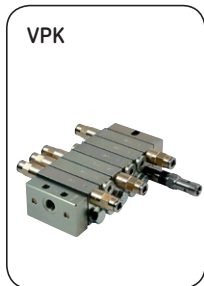
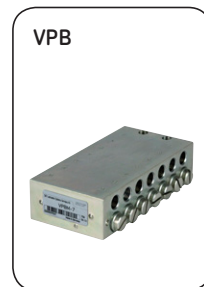
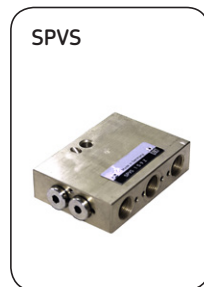


# Metering devices



# Overview of metering devices

## Block metering device

Product	Lubricant Oil/ fluid grease	Grease	Metering quantity		Outlets <sup>1)</sup>	Operating pressure max.		Page
			cm <sup>3</sup> /outlet	in <sup>3</sup> /outlet		bar	psi	
SSVM	•	•	0,07	0.004	6 to 12	200	2 900	76
SSVD	•	•	0,08–1,80	0.001–0.11	6 to 22	350	5 075	78
SSVDL	•	•	0,08–1,80	0.001–0.11	6 to 14	350	5 075	80
SPVS	•	•	0,16–0,32	0.010–0.02	2 to 4	100	1 450	82
VPB	•	•	0,2	0.01	6 to 20	300	4 350	84
SSV	•	•	0,2	0.01	6 to 22	350	5 075	86
SSVL	•	•	0,2	0.01	6 to 14	350	5 075	88

<sup>1)</sup> by crossporting or closing outlets possible to reduce outlet number below given minimum

## Sectional metering device

Product	Lubricant Oil/ fluid grease	Grease	Metering quantity		Outlets	Operation pressure max.		Page
			cm <sup>3</sup> /outlet	in <sup>3</sup> /outlet		bar	psi	
VPK	•	•	0,050–0,600	0.003–0.037	6 to 20	300	4 350	90
VP	•	•	0,100–1,200	0.006–0.073	6 to 20	300	4 350	92
MC <sup>2</sup> -HP	•	•	0,196–0,393	0.012–0.024	6 to 16	510	7 425	94

## Segment metering device

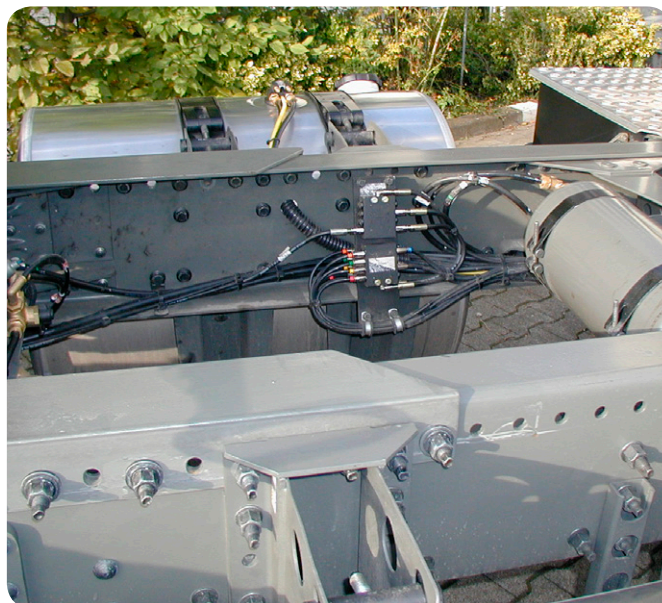
Product	Lubricant Oil/ fluid grease	Grease	Metering quantity		Outlets	Operation pressure max.		Page
			cm <sup>3</sup> /outlet	in <sup>3</sup> /outlet		bar	psi	
PSG1	•	•	0,050–0,250	0.003–0.015	6 to 20	200	2 900	96
PSG2	•	•	0,060–0,840	0.003–0.051	6 to 20	200	2 900	98
PSG3	•	•	0,800–3,200	0.049–0.195	6 to 20	200	2 900	100
UV	•	•	0,164–0,656	0.010–0.040	6 to 16	240	3 480	102
XL	•	•	0,983–2,460	0.060–0.150	6 to 12	170	2 495	104

## Metering devices

### SSVM

Oil and fluid grease

Grease



#### Product description

SSVM type metering device is a compact single block progressive piston-type metering device. For direct mount of fittings with no need of any sealing in-between. Specially designed for small output needs, small spaces due to its small dimensions and short distances. Available with pin indicator for visual system monitoring.

#### Features and benefits

- Small and compact size for applications where space is restricted
- Internal combining of outlets
- Exact lubricant metering
- Available with visual pin indicator

#### Applications

- Printing industry
- Wood processing machines
- Material handling machines

#### Technical data

Function principle	block metering device
Outlets <sup>1)</sup>	6 to 12
Lubricant	grease: up to NLGI 2 oil: at least 40 mm <sup>2</sup> /s
Metering quantity	per cycle and outlet 0,07 cm <sup>3</sup> ; 0,004 in <sup>3</sup>
Connection inlet	G 1/8 or 1/8 NPTF
Connection outlet <sup>2)</sup>	M 8 x 1
Operating temperature	-25 to +70 °C -13 to +158 °F
Operating pressure	max. 200 bar; 2 900 psi
Material	black chromated steel
Dimensions	min. 48,50 x 50 x 25 mm 1.91 x 1.97 x 0.98 in max. 83 x 50 x 25 mm 3.27 x 1.97 x 0.98 in
Mounting position	any

<sup>1)</sup> by crossporting or closing outlets possible to reduce outlet number below given minimum.  
Outlet #1 and #2 should never be closed

<sup>2)</sup> use special SSVM outlet fittings

## Metering devices

### SSVM

SSVM				
Order number Inlet connection thread BSP	Inlet connection thread NPTF	Outlets	Visual pin indicator K	Material black chromated steel
619-26761-1	619-26764-1	6	–	•
619-37044-1	619-26650-1	8	–	•
619-26846-1	619-26848-1	10	–	•
619-37049-1	619-26653-1	12	–	•
619-26762-3	619-26765-3	6	•	•
619-37045-3	619-26651-3	8	•	•
619-26847-2	619-26849-3	10	•	•
619-37050-3	619-26654-3	12	•	•

Oil and fluid grease

Grease

## Accessories

### Outlet fittings

Accessories	
Order number	Designation
303-16284-1	outlet closure screw with sealing edge
226-14091-5	outlet push-in fitting with clamping ring and check valve for pressure plastic tube $\varnothing$ 4 mm
519-31661-1	screw-in fitting with clamping ring and -check valve for steel tube $\varnothing$ 4 mm

## Metering devices

### SSVD

Oil and fluid grease

Grease



#### Product description

SSVD type metering device is a compact single block progressive metering device with adjustable output by means of different metering screw sizes. The screw meters the output for a pair of outlets (opposite outlets). For direct mount of fittings with no need of any sealing in-between. It is a versatile metering device available in many variants regarding type of monitoring or surface treatment.

#### Features and benefits

- Ten different metering screw sizes available
- Optionally visual or electrical monitoring
- Nickel plated surface treatment for corrosive environment available
- Ideal for use as primary metering device

#### Applications

- Construction and mining
- Agriculture machinery
- Industrial equipment



#### Technical data

Function principle	block metering device
Outlets <sup>1)</sup>	6 to 22
Lubricant	grease up to NLGI 2 or oil of at least 40 mm <sup>2</sup> /s
Metering quantity <sup>2)</sup>	per cycle and outlet min. 0,08 cm <sup>3</sup> ; 0.001 in <sup>3</sup> max. 1,80 cm <sup>3</sup> ; 0.110 in <sup>3</sup>
Operating temperature	-25 to +70 °C -13 to +158 °F
Operating pressure	max. 350 bar; 5 075 psi
Material	black chromated steel or nickel plated
Connection inlet	G 1/8 or 1/8 NPTF
Connection outlet <sup>3)</sup>	M 10 × 1
Dimensions	min. 70 × 60 × 40 mm min. 2.75 × 2.36 × 1.57 in max. 190 × 60 × 40 mm max. 7.48 × 2.36 × 1.57 in
Mounting position	any

<sup>1)</sup> by crossporting or closing outlets possible to reduce outlet number below given minimum. Outlet #1 and #2 should never be closed

<sup>2)</sup> depending on metering screw valid for a pair of opposite outlets

<sup>3)</sup> use special SSVD outlet fittings

#### NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication): **12401 EN**

## Metering devices

### SSVD

#### SSVD<sup>1)</sup>

Outlets	Order number Standard	Visual pin K	Emergency nipple E	Piston detector, cable (3 m, 9.8 ft) no plug N	Indicator pin, proximity switch, cable (2 m, 6.6 ft), no plug KN	Piston detector, with connection M 12, 3 wire NP
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#### SSVD BSPP, black chromated

6	649-29485-1	649-29505-1	649-77397-1	649-29495-1	649-29515-1	649-29525-1
8	649-29486-1	649-29506-1	649-77395-1	649-29496-1	649-29516-1	649-29526-1
10	649-29487-1	649-29507-1	649-77396-1	649-29497-1	649-29517-1	649-29527-1
12	649-29488-1	649-29508-1	649-77397-1	649-29498-1	649-29518-1	649-29528-1
14	649-29489-1	649-29509-1	649-77398-1	649-29499-1	649-29519-1	649-29529-1
16	649-29587-1	649-29595-1	649-77399-1	649-29611-1	649-29603-1	649-29619-1
18	649-29588-1	649-29596-1	649-77400-1	649-29612-1	649-29604-1	649-29620-1
20	649-29589-1	649-29597-1	649-77401-1	649-29613-1	649-29605-1	649-29621-1
22	649-29590-1	649-29598-1	649-77402-1	649-29614-1	649-29606-1	649-29622-1

#### SSVD NPTF, black chromated

6	649-29535-1	649-29545-1	-	649-29565-1	649-29555-1	649-29575-1
8	649-29536-1	649-29546-1	-	649-29566-1	649-29556-1	649-29576-1
10	649-29537-1	649-29547-1	-	649-29567-1	649-29557-1	649-29577-1
12	649-29538-1	649-29548-1	-	649-29568-1	649-29558-1	649-29578-1
14	649-29539-1	649-29549-1	-	649-29569-1	649-29559-1	649-29579-1
16	649-29627-1	649-29635-1	-	649-29651-1	649-29643-1	649-29659-1
18	649-29628-1	649-29636-1	-	649-29652-1	649-29644-1	649-29660-1
20	649-29629-1	649-29637-1	-	649-29653-1	649-29645-1	649-29661-1
22	649-29630-1	649-29638-1	-	649-29654-1	649-29646-1	649-29662-1

#### SSV BSPP, nickel plated

6	649-77180-1	649-77853-1	-	-	-	-
8	649-77181-1	649-77854-1	-	-	-	-
10	649-77182-1	649-77855-1	-	-	-	-
12	649-77183-1	649-77856-1	-	-	-	-
14	649-77184-1	649-77857-1	-	-	-	-
16	649-77185-1	649-77858-1	-	-	-	-
18	649-77186-1	649-77859-1	-	-	-	-
20	649-77187-1	649-77852-1	-	-	-	-
22	649-77188-1	649-77860-1	-	-	-	-

<sup>1)</sup> SSVD also with emergency lubrication nipple available

## Accessories

### Outlet fittings

#### Outlets and devices

Order number	Description
303-17499-3	Outlet closure plug, with sealing edge, steel
303-19346-2	Outlet closure plug, with sealing edge, stainless steel
226-10328-5	Outlet push-in fitting, with clamping ring and check valve for tube or plastic tube with stud for $\varnothing$ 6 mm
504-30344-4	Outlet screw-in fitting, with clamping ring and check valve for tube $\varnothing$ 6 mm
219-13798-3	O-ring for stainless steel closure plug if after tightening with 18 Nm not sealed
519-318 26-1	Device for external gathering of SSV outputs from outlet #1 and #2

#### Metering screws<sup>1)</sup>

Order number	Description
549-34254-1	metering screw 0,08 cm <sup>3</sup> , 12 pieces
549-34254-2	metering screw 0,14 cm <sup>3</sup> , 12 pieces
549-34254-3	metering screw 0,20 cm <sup>3</sup> , 12 pieces
549-34254-4	metering screw 0,30 cm <sup>3</sup> , 12 pieces
549-34254-5	metering screw 0,40 cm <sup>3</sup> , 12 pieces
549-34254-6	metering screw 0,60 cm <sup>3</sup> , 12 pieces
549-34254-7	metering screw 0,80 cm <sup>3</sup> , 12 pieces
549-34254-8	metering screw 1,00 cm <sup>3</sup> , 12 pieces
549-34254-9	metering screw 1,40 cm <sup>3</sup> , 12 pieces
549-34255-1	metering screw 1,80 cm <sup>3</sup> , 12 pieces
549-34255-2	metering screws from 0,08 to 1,80 cm <sup>3</sup> , 2 pieces

<sup>1)</sup> for black chromated SSVD; for nickel plated SSVD ask for metering screws in stainless steel

# SSVDL

Oil and fluid grease

Grease



### Product description

SSVDL type metering device is a single block progressive metering device with larger tube diameters especially for heavy industry applications. Available with pin indicator for visual system monitoring or with piston detector for electrical system monitoring. Outlet combining elements for 2, 3, 4 and 5 outlets available.

### Features and benefits

- Similar to SSVD but with larger distances between the outlets for larger tube diameters
- Sizes 6 to 14 outlets
- High operating pressure
- Exact lubricant metering
- Optionally equipped with visual monitoring pin or with electrically monitored piston detector

### Applications

- Heavy industry



### Technical data

Function principle	..... block metering device
Outlets <sup>1)</sup>	..... 6 to 14
Lubricant	..... grease up to NLGI 2, or oil of at least 40 mm <sup>2</sup> /s
Metering quantity	..... per cycle and outlet min. 0,08 cm <sup>3</sup> ; 0,001 in <sup>3</sup> max. 1,80 cm <sup>3</sup> ; 0,110 in <sup>3</sup>
Operating temperature	..... -25 to +75 °C -13 to 167 °F
Operating pressure	..... max. 350 bar max. 5 075 psi
Material	..... black-chromated steel
Connection inlet	..... R 1/4
Connection outlet	..... 8, 10 or 12 mm
Dimensions	..... min. 110×60×50 mm min. 4,33×2,36×1,97 in max. 230×60×50 mm max. 9,05×2,36×1,97 in
Mounting position	..... any

<sup>1)</sup> to ensure metering device operation outlet 1 and 2 should never be closed by a closure plug

### NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication): **12401 EN**

## Metering devices

### SSVDL

#### Order numbers

Outlets	Standard	with visual pin	with bypass bore
6	649-77167-1	649-77474-1	649-77464-1
8	649-77168-1	649-77475-1	649-77466-1
10	649-77169-1	649-77476-1	649-77468-1
12	649-77170-1	649-77477-1	649-77470-1
14	649-77171-1	649-77478-1	649-77472-1

Oil and fluid grease

Grease

## Accessories

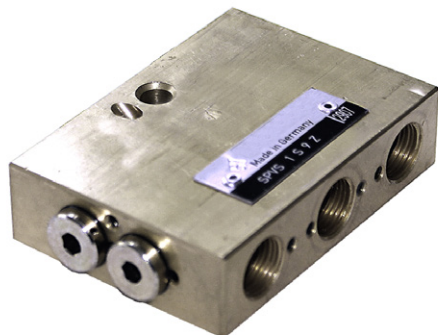
### Fittings

#### Outlet combinations

Order number	Designation
519-34643-1	double, assy. (incl. pos. 2x3, 1x5)
519-34643-2	triple, assy. (incl. pos. 3x3, 2x5)
519-34643-3	quadruple, assy. (incl. pos. 4x3, 3x5)
519-34643-4	quintuple, assy. (incl. po s. 5x3, 4x5)



# SPVS



Oil and fluid grease

Grease

### Product description

Block type metering devices of the SPVS series are used to either increase the number of outlets of a lubricating pump or to portion the volume flow and deliver it to the lube points, without any influence on the operating system pressure.

### Features and benefits

- Compact design
- Compact two piston version with mechanical interlock, prevents selfblockage
- Universally usable for oil and grease
- Central function monitoring with electrical stroke monitoring device possible
- Accurate lubricant distribution due to fitted pistons

### Applications

- Metal forming machines
- Small machinery
- Packaging machines



### Technical data

Function principle	block metering device
Outlets	2 or 4
Lubricant	grease up to NLGI 2 oil with minimum viscosity of 12 mm <sup>2</sup> /s
Metering quantity	per cycle and outlets: 4 outlets: 0,16 cm <sup>3</sup> ; 0,01 in <sup>3</sup> 2 outlets: 0,32 cm <sup>3</sup> ; 0,02 in <sup>3</sup>
Inlet volume flow	max. 45 cm <sup>3</sup> ; min; 2.75 in <sup>3</sup> /min
Operating temperature <sup>2)</sup>	-10 to +100 °C; -14 to +212 °F
Operating pressure <sup>1)</sup>	max. 100 bar; 1 450 psi
Material	with M 12 × 1: brass with G 3/8: steel with electrical monitoring: cast iron
Connection inlet/outlet	M 12 × 1 or G 3/8
Electrical monitoring	one electrical cycle/pulse corresponds to 0,64 cm <sup>3</sup> , 0,04 in <sup>3</sup>
Electrical connection	plug according DIN 43650
Voltage rated U <sub>i</sub>	30 V DC
Current load I <sub>i</sub>	0,02 A
Output function	normally open
Switching element	reed contact
Protection class <sup>3)</sup>	IP 65
Dimensions	max. 55 x 168,5 x 31 mm max. 2.16 x 6.63 x 1.22 in
Mounting position	any

<sup>1)</sup> max. Differential pressure with oil 20 bar (290 psi), with grease 30 bar (435 psi)  
<sup>2)</sup> for basic desing without electric monitoring  
<sup>3)</sup> available in ATEX design upon request

### NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication): **1-3029-EN**

## Metering devices

### SPVS

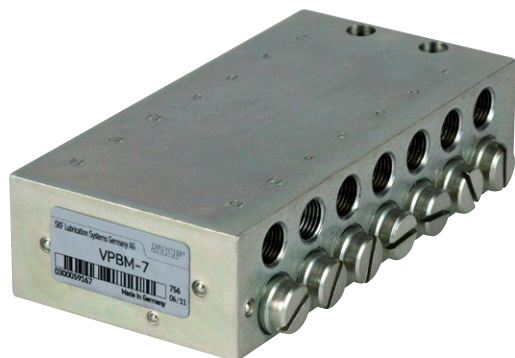
SPVS					
Order number	Outlets	Thread G 1/8	M 12 × 1	Monitoring electrical	Material
44-2578-6321	2	•	–	–	steel
44-2578-6323	4	•	–	–	steel
44-2578-6110	2	–	•	–	brass
44-2578-6201	4	–	•	–	brass
44-2578-6360	2	•	–	•	cast iron
44-2578-6350	4	•	–	•	cast iron

Oil and fluid grease

Grease

## Metering devices

### VPB



Oil and fluid grease

Grease

#### Product description

VPB type metering devices are compact single-block progressive metering. Available with pin indicator for visual system monitoring or with piston detector for electrical system monitoring.

#### Features and benefits

- Robust and cost-efficient
- Available in metric and inch design
- Optional visual or electric monitoring
- Internal crossporting possibility, use of standard tube fittings
- Variety of material as zinc coated or stainless steel available

#### Applications

- Metal forming machines
- Vehicles
- Production machines of automotive industry
- Packaging machines
- Printing industry
- Agriculture machinery
- Construction and mining

#### Technical data

Function principle	block metering device
Outlets	6 to 20
Lubricant	grease up to NLGI 2 oil with minimum viscosity of 12 mm <sup>2</sup> /s
Metering quantity	per stroke and outlet: 0,2 cm <sup>3</sup> ; 0.01 in <sup>3</sup>
Operating temperature	-25 to +110 °C -13 to +230 °F
Operating pressure	oil: max. 200 bar; 2 900 psi grease: max. 300 bar; 4 350 psi
Material	stainless steel, tinned/nitrile
Connection inlet	VPBM; M 10×1 VPBG; G 1/8
Connection outlet	VPBM; M 10×1 VPBG; G 1/8
Dimensions	min. 60×60×30 mm min. 2.36×2.36×1.18 in max. 165×60×30 mm max. 6.48×2.36×1.18 in
Mounting position:	
on machines without vibration	any
on machines with vibration	piston position should be 90° to machine movements direction

#### NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication):  
**1-3017-EN, 951-230-008-EN**

## Metering devices

### VPB

**Order number configurator**

VPB										A
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Progressive block metering device

Thread inlet and outlet screw connection  
**M** = M 10×1  
**G** = G 1/8

Metering device sections (a section consists of 2 opposing outlets)

<b>3</b> = for 3 sections (max. 6 outlets)	<b>7</b> = for 7 sections (max. 14 outlets)
<b>4</b> = for 4 sections (max. 8 outlets)	<b>8</b> = for 8 sections (max. 16 outlets)
<b>5</b> = for 5 sections (max. 10 outlets)	<b>9</b> = for 9 sections (max. 18 outlets)
<b>6</b> = for 6 sections (max. 12 outlets)	<b>10</b> = for 10 sections (max. 20 outlets)

Outlets  
**6** = 6 outlets open ... **20** = 20 outlets open

Monitoring type  
**00** = without  
**P2** = piston detector, 2-pin connection  
**P3** = piston detector, 3-pin connection  
**ZY** = cycle indicator (use with check valve only)

Installation position of the monitoring system  
**-1R** = right-hand side on the 1st section     ...  
**-1L** = left-hand side on the 1st section     **-0R** = right-hand side on the 10 th section  
**-2R** = right-hand side on the 2nd section     **-0L** = left-hand side on the 10 th section

Attachments  
**00** = without attachments  
**15** = with (grease) 2/2-directional solenoid valve. When de-energized, continuity to metering device closed

**Version**  
**A** = change version

**Material**  
**1** = basic design  
**3** = stainless steel design, monitoring on stainless steel version only with cycle switch (ZY) possible

Oil and fluid grease

Grease

## Accessories

### Fittings

#### Inlet fittings

Order number	Designation
406-423	M10×1 for tube ø 6 mm
441-008-511	M10×1 for tube ø 8 mm
410-443	M10×1 for tube ø 10 mm
406-403W	G <sup>1</sup> / <sub>8</sub> for tube ø 6 mm
408-423W	G <sup>1</sup> / <sub>8</sub> for tube ø 8 mm
410-443W	G <sup>1</sup> / <sub>8</sub> for tube ø 10 mm

#### Outlet fittings

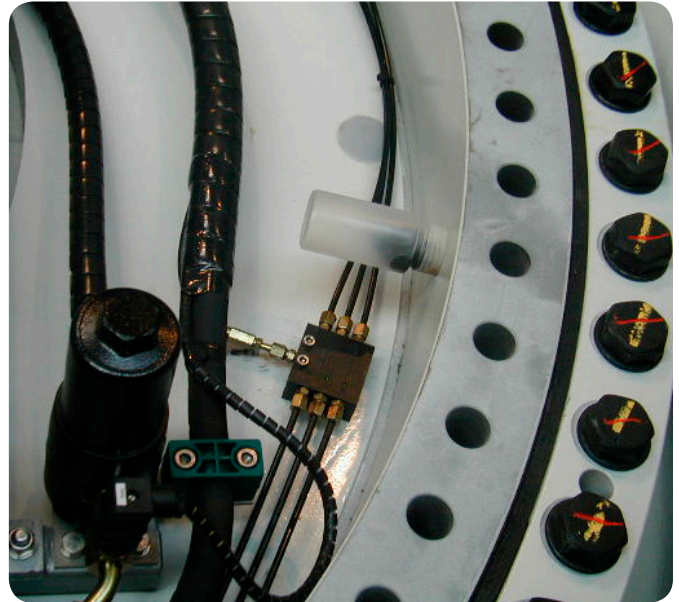
Order number	Designation
404-403	M10×1 for tube ø 4 mm
406-403	M10×1 for tube ø 6 mm
441-008-511	M10×1 for tube ø 8 mm
451-006-518-VS	M10×1 SKF Quick Connector tube ø 6 mm
404-403W	G <sup>1</sup> / <sub>8</sub> for tube ø 4 mm
406-403W	G <sup>1</sup> / <sub>8</sub> for tube ø 6 mm
408-403W	G <sup>1</sup> / <sub>8</sub> for tube ø 8 mm
451-006-518W VS	G <sup>1</sup> / <sub>8</sub> SKF Quick Connector tube ø 6 mm
466-431-001	M10×1 closure plug
466-419-001	G <sup>1</sup> / <sub>8</sub> closure plug

## Metering devices

### SSV

Oil and fluid grease

Grease



#### Product description

SSV type metering device is a compact single block progressive metering device. For direct mount of fittings with no need of any sealing inbetween. Available with pin indicator for visual system monitoring or with piston detector for electrical system monitoring. Metering device has to be ordered in single parts, see chart.

#### Features and benefits

- Sizes up to 22 outlets
- High operating pressure
- Available in different materials
- Exact lubricant metering
- Unique internal crossporting technology
- Optionally equipped with visual monitoring pin or with electrically monitored piston detector

#### Applications

- Construction and mining
- Agriculture machinery
- Industrial equipment
- Renewable energies

#### Technical data

Function principle	block metering device
Outlets <sup>1)</sup>	6 to 22
Lubricant	grease up to NLGI 2, oil at least 40 mm <sup>2</sup> /s
Metering quantity	per cycle and outlet: 0,2 cm <sup>3</sup> ; 0,01 in <sup>3</sup>
Operating temperature	-40 to +200 °C -40 to +390 °F
Operating pressure	max. 350 bar; max. 5 075 psi
Material	black chromated steel stainless steel
Connection inlet	G 1/8 or 1/8 NPTF
Connection outlet <sup>2)</sup>	M 10×1
Dimensions	min. 60×60×30 mm min. 2.37×2.37×1.18 in max. 180×60×30 mm max. 7.087×2.63×1.18 in
Mounting position	any

<sup>1)</sup> by crossporting or closing outlets possible to reduce outlet number below given minimum.  
Outlet #1 and #2 should never be closed

<sup>2)</sup> use special SSV outlet fittings

#### NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication):  
**12401-EN**

## Metering devices

### SSV

#### Order numbers

Outlets	Standard	Visual pin	Emergency nipple	Piston detector, cable (3 m, 9.8 ft) no plug	Indicator pin, proximity switch, cable (2 m, 6.6 ft), no plug	Piston detector, with connection
		K	E	N	KN	M 12, w3 wire NP

#### SSV BSPP black chromated

6	619-26473-1	619-26474-3	619-77345-1	619-28257-1	619-27613-1	619-29050-1
8	619-25730-2	619-25754-4	619-77346-1	619-28258-1	619-27614-1	619-29051-1
10	619-26841-1	619-26842-2	619-77347-1	619-28259-1	619-27615-1	619-29052-1
12	619-25731-2	619-25755-4	619-77348-1	619-28260-1	619-27616-1	619-29674-1
14	619-28862-1	619-28871-1	619-77349-1	619-28890-1	619-29028-1	619-29387-1
16	619-28863-1	619-28872-1	619-77350-1	619-28907-1	619-28905-1	619-29951-1
18	619-28864-1	619-28873-1	619-77351-1	619-28957-1	619-28959-1	619-29139-1
20	619-28865-1	619-28874-1	619-77352-1	619-28935-1	619-28934-1	619-77301-1
22	619-28866-1	619-28875-1	619-77353-1	619-29015-1	619-77461-1	619-29973-1

#### SSV BSPP, stainless steel 1.4305/303

6	619-27471-1	619-27472-1	619-77680-1	-	-	619-29929-1
8	619-27473-1	619-27474-1	619-77681-1	-	-	619-29322-1
10	619-27475-1	619-27476-1	619-77682-1	-	-	619-29970-1
12	619-27477-1	619-27478-1	619-77683-1	-	-	619-29971-1
14	619-29063-1	619-29067-1	619-77684-1	-	-	619-29993-1
16	619-29064-1	619-29068-1	619-77685-1	-	-	619-29994-1
18	619-29065-1	619-29069-1	619-77686-1	-	-	619-77178-1
20	619-29066-1	619-29074-1	619-77687-1	-	-	-
22	619-29775-1	619-77910-1	619-77688-1	-	-	619-77179-1

#### SSV BSPP, stainless steel 1.4571/316 Ti

6	619-27824-1	-	-	-	-	-
8	619-27825-1	-	-	-	-	-
10	619-27889-1	-	-	-	-	-
12	619-27900-1	-	-	-	-	-

#### SSV NPT, black chromated

6	619-27121-1	619-27122-1	-	-	-	-
8	619-26396-2	619-26646-2	-	-	-	-
10	619-26844-1	619-26845-2	-	-	-	-
12	619-26398-2	619-26648-2	-	-	-	-
14	619-29400-1	619-28899-1	-	-	-	-
16	619-29401-1	619-28900-1	-	-	-	-
18	619-77828-1	619-28901-1	-	-	-	-
20	619-77829-1	619-28902-1	-	-	-	-
22	-	619-77254-1	-	-	-	-

#### SSV NPT, stainless steel 1.4305/303

6	619-27792-1	619-27793-1	-	-	-	-
8	619-27796-1	619-27797-1	-	-	-	-
10	619-27800-1	619-27801-1	-	-	-	-
12	619-27804-1	619-27805-1	-	-	-	-
14	-	619-77101-1	-	-	-	-

#### Accessories

Order number	Designation
303-17499-3	Outlet closure plug with sealing edge, steel
303-19346-2	Outlet closure plug with sealing edge, stainless steel
219-13798-3	O-ring for stainless steel closure plug if after tightening with 18 Nm not sealed
226-10328-5	Outlet push-in fitting with clamping ring and check valve for tube or plastic tube with stud for $\varnothing$ 6 mm
504-30344-4	Outlet screw-in fitting with clamping ring and check valve for tube $\varnothing$ 6 m
519-318 26-1	Device for external gathering of SSV outputs from outlet #1 and #2

## Metering devices

### SSVL



Oil and fluid grease

Grease

#### Product description

SSVL type metering device is a single block progressive metering device with larger tube diameters especially for heavy industry applications. Available with pin indicator for visual system monitoring or with piston detector for electrical system monitoring. Outlet combining elements for 2, 3, 4 and 5 outlets available.

#### Features and benefits

- Similar to SSV but with larger distances between the outlets for larger tube diameters
- Sizes 6 to 14 outlets
- High operating pressure
- Exact lubricant metering
- Optionally equipped with visual monitoring pin or with electrically monitored piston detector

#### Applications

- Heavy industry



#### Technical data

Function principle	block metering device
Outlets <sup>1)</sup>	6 to 14
Lubricant	grease up to NLGI 2, or oil of at least 40 mm <sup>2</sup> /s
Metering quantity	per cycle and outlet 0,2 cm <sup>3</sup> ; 0,12 in <sup>3</sup>
Operating temperature	-25 to +75 °C -13 to 167 °F
Operating pressure	350 bar 5 075 psi
Material	black-chromated steel
Connection inlet	R 1/4
Connection outlet	8, 10 or 12 mm
Dimensions	min. 90×60×40 mm min. 3.54×2.36×1.57 in max. 210×60×40 mm max. 8.26×2.36×1.57 in
Mounting position	any

<sup>1)</sup> to ensure metering device operation outlet 1 and 2 should never be closed by a closure plug

## Metering devices

### SSVL

#### Order numbers

Outlets	Standard	with visual pin	with bypass bore
6	619-77162-1	619-77231-1	619-77311-1
8	619-77163-1	619-77232-1	619-77312-1
10	619-77164-1	619-77233-1	619-77313-1
12	619-77165-1	619-77234-1	619-77314-1
14	619-77166-1	619-77235-1	619-77315-1

Oil and fluid grease

Grease

## Accessories

### Fittings

#### Outlet combinations

Order number	Designation
519-34643-1	double, assy. (incl. pos. 2x3, 1x5)
519-34643-2	triple, assy. (incl. pos. 3x3, 2x5)
519-34643-3	quadruple, assy. (incl. pos. 4x3, 3x5)
519-34643-4	quintuple, assy. (incl. pos. 5x3, 4x5)

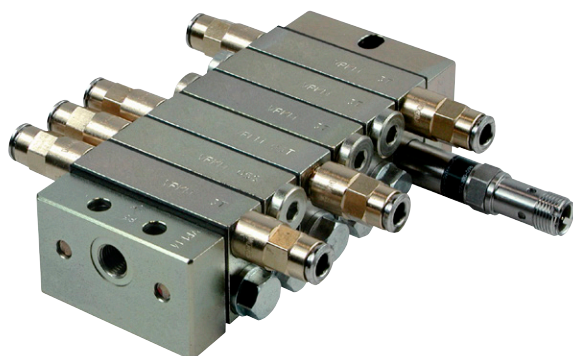


## Metering devices

### VPK

Oil and fluid grease

Grease



#### Product description

The VPK type metering device is a sectional metering device. Its metering sections cover a metering volume per outlet and cycle of 0,05 cm<sup>3</sup> (T-section = 2 outlets) to 0,6 cm<sup>3</sup> (S-section = 1 outlet). All sections (inlet, intermediate, end) are tightened via tie rods. The delivery ducts are sealed by porting plates in-between the segments. A minimum of three intermediate sections is necessary.

#### Features and benefits

- Volumetric flow of up to 0,05 cm<sup>3</sup>/min
- Universal use in continuous or intermittent operation
- Metering sections with variable metering amount
- Internal consolidation of outlets
- Visual or electrical monitoring optional
- Safe sealing concept with porting plates

#### Applications

- Metal forming machines
- Vehicles
- Production machines of automotive industry
- Packaging machines
- Printing industry
- Construction and mining
- Agriculture machinery

#### Technical data

Function principle	sectional metering device
Outlets	6 to 20
Lubricant	grease up to NLGI 2 oil with minimum viscosity of 12 mm <sup>2</sup> /s
Metering quantity	per cycle and outlet: 0,05–0,6 cm <sup>3</sup> ; 0,003–0,037 in <sup>3</sup>
Operating temperature	–25 to +90 °C –13 to +194 °F
Operating pressure	oil: 200 bar; 2 900 psi grease: 300 bar; 4 350 psi
Material	Inlet plate, intermediate plate and end plate: steel, galvanized/NBR Sections/piston plates: steel, galvanized
Connection inlet	VPKM: M 10×1 VPKG: G 1/8
Connection outlet	VPKM: M 10×1 VPKG: G 1/8
Dimensions	min. 81,9×65×34 mm min. 3.22×2.56×1.34 in max. 195,3×65×34 mm max. 7.69×2.56×1.34 in
Mounting position:	
on machines without vibration	any
on machines with vibration	piston position should be 90° to machine movements direction

#### NOTE

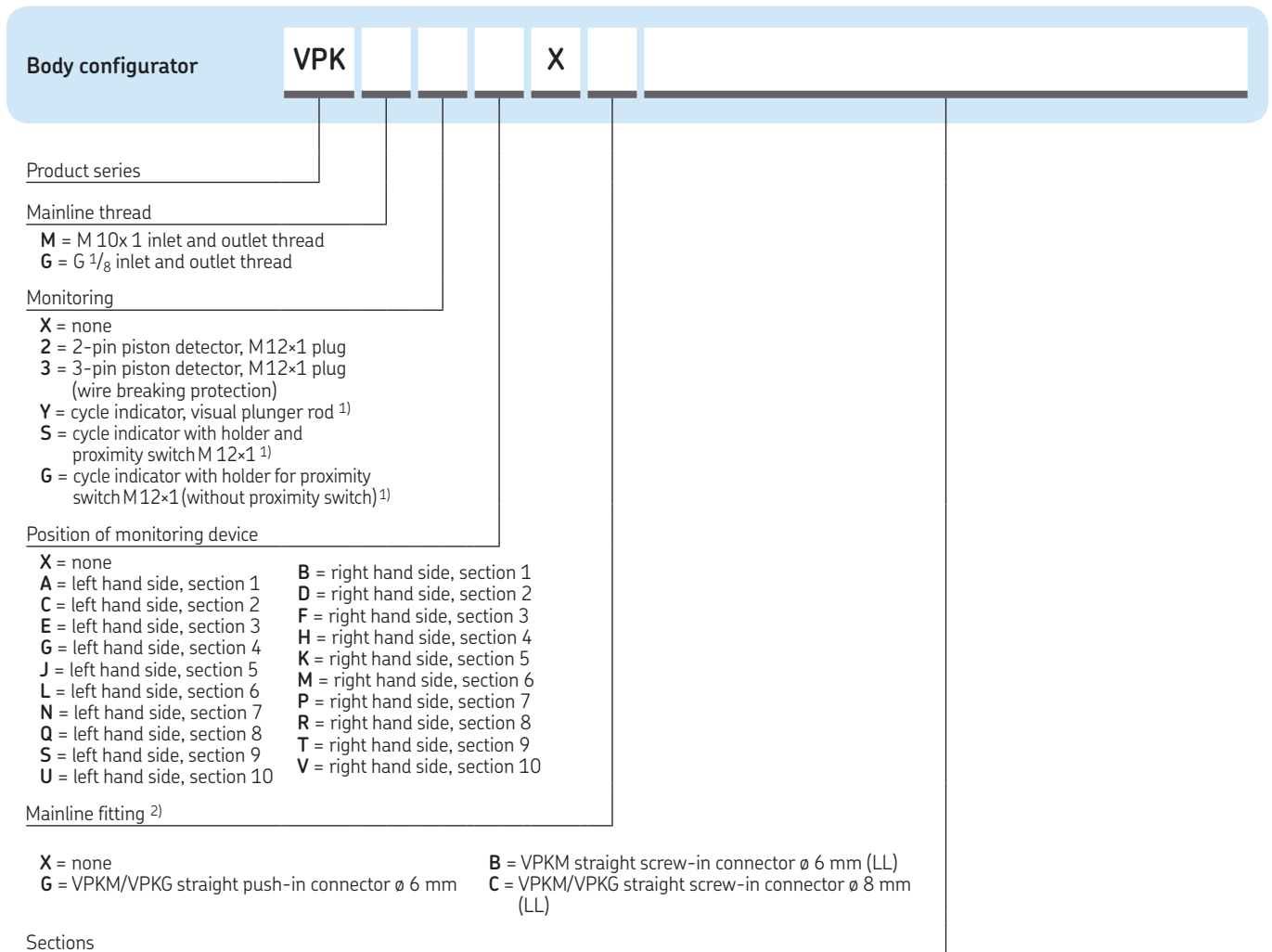
For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication):  
**1-3015-EN, 951-230-008-EN**

3D data and product configuration:  
[skf-lubrication.partcommunity.com/3d-cad-models/](http://skf-lubrication.partcommunity.com/3d-cad-models/)

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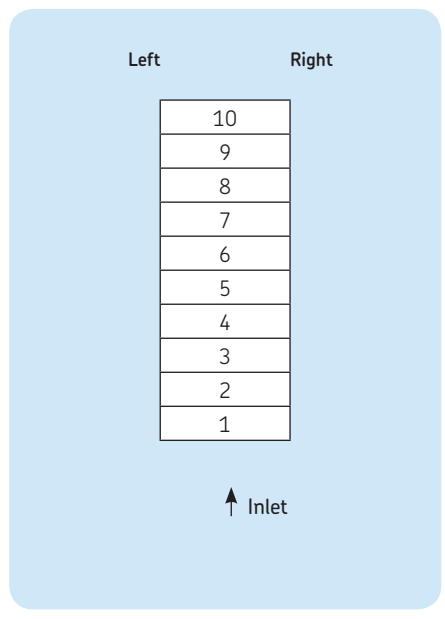
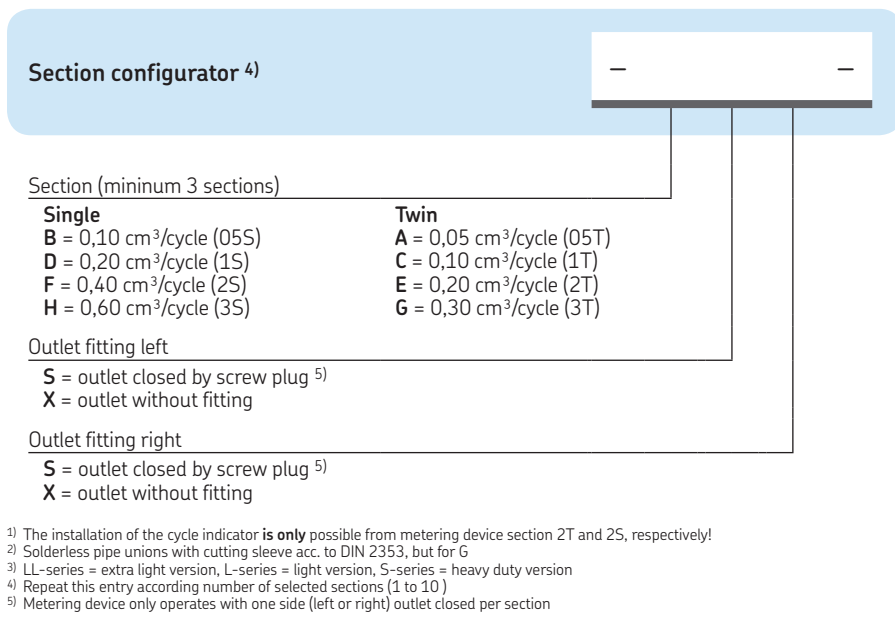
# Metering devices

## VPK



Oil and fluid grease

Grease



<sup>1)</sup> The installation of the cycle indicator is **only** possible from metering device section 2T and 2S, respectively!  
<sup>2)</sup> Solderless pipe unions with cutting sleeve acc. to DIN 2353, but for G  
<sup>3)</sup> LL-series = extra light version, L-series = light version, S-series = heavy duty version  
<sup>4)</sup> Repeat this entry according number of selected sections (1 to 10)  
<sup>5)</sup> Metering device only operates with one side (left or right) outlet closed per section

## Metering devices

### VP



Oil and fluid grease

Grease

#### Product description

The VP type metering device is a sectional metering device. Its metering sections cover a metering volume per outlet and cycle of 0,1 cm<sup>3</sup> (T-section = 2 outlets) to 1,2 cm<sup>3</sup> (S-section = 1 outlet). All sections (inlet, intermediate, end) are tightened via tie rods. The delivery ducts are sealed by porting plates inbetween the segments. A minimum of three intermediate sections is necessary.

#### Features and benefits

- Volumetric flow of up to 1 000 cm<sup>3</sup>/min (61 in<sup>3</sup>/min)
- Universal use in continuous or intermittent operation
- Metering sections with variable metering amount
- Internal and external consolidation of outlets
- Visual or electrical monitoring optional
- Ideal as main metering device
- All outlets with build-in non-return valves

#### Applications

- Preferred master metering device
- Metal forming machines
- Vehicles, trucks
- Construction and mining
- Packaging machines
- General industry
- Agriculture machinery

#### Technical data

Function principle	sectional metering device
Outlets	6 to 20
Lubricant	oil: with minimum viscosity of 12 mm <sup>2</sup> /s grease: up to NLGI 2
Metering quantity	per cycle and outlet 0,1 to 1,2 cm <sup>3</sup> ; 0.006 to 0.073 in <sup>3</sup>
Operating pressure	oil: 200 bar; 2 900 psi grease: 300 bar; 4 350 psi
Operating temperature	-25 to +90 °C -13 to +194 °F
Material	Inlet plate, separator plate and end plate: steel, galvanized/NBR sections/piston plates: steel, galvanized
Connection inlet	VPM: M 14 × 1,5 VPG: G 1/4
Connection outlet	VPM: M 10 × 1 VPG: G 1/8
Dimensions	min. 98 × 82,5 × 41 mm min. 3.86 × 3.25 × 1.61 in max. 238 × 82,5 × 41 mm max. 9.37 × 3.25 × 1.61 in
Mounting position:	
on machines without vibration	any
on machines with vibration	piston position should 90° to machine movements direction

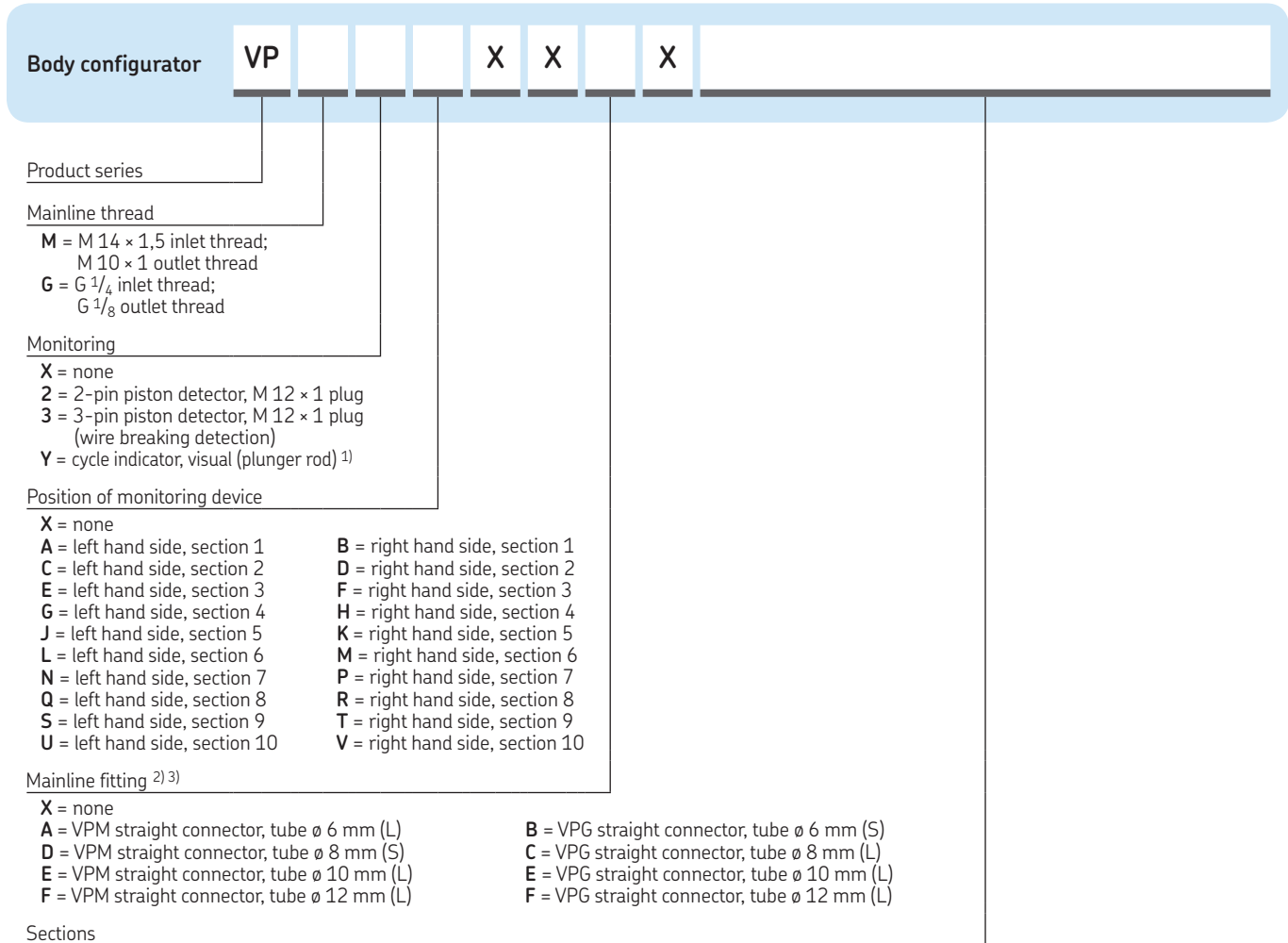
#### NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication):  
**15400 EN, 951-230-008 EN**

3D data and product configuration:  
[skf-lubrication.partcommunity.com/3d-cad-models/](http://skf-lubrication.partcommunity.com/3d-cad-models/)

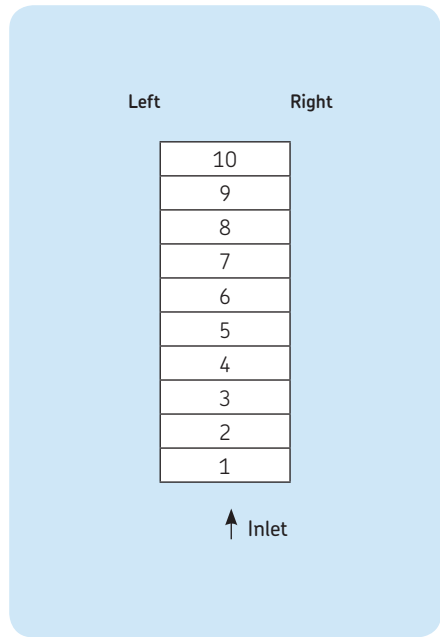
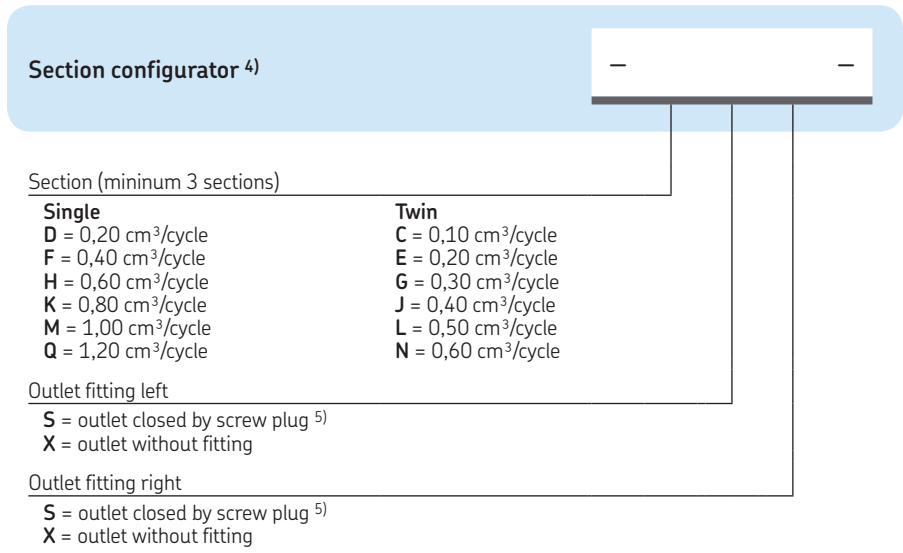
# Metering devices

## VP



Oil and fluid grease

Grease



<sup>1)</sup> The installation of the cycle indicator is only possible from metering device section 2T and 2S, respectively!  
<sup>2)</sup> Solderless pipe unions with cutting sleeve acc. to DIN 2353  
<sup>3)</sup> LL-series = extra light version, L-series = light version, S-series = heavy duty version  
<sup>4)</sup> Repeat this entry according number of selected sections (1 to 10)  
<sup>5)</sup> Metering device only operates with one side (left or right) outlet closed per section

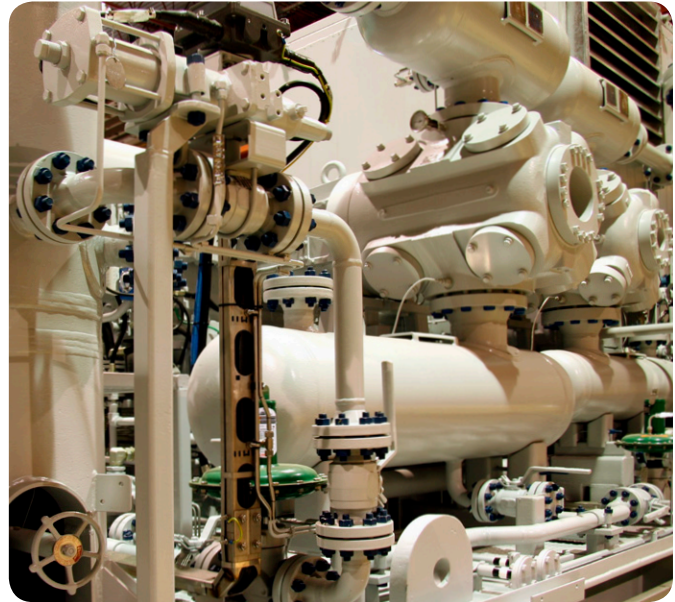
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## Metering devices

### MC<sup>2</sup>-HP

Oil and fluid grease

Grease



#### Product description

MC<sup>2</sup>-HP metering devices are modular type metering devices consisting of a baseplate part containing all inlet and outlet connections and a metering sections part containing alternate outlet ports for installation of performance indicators. The baseplate part has one inlet, three to eight intermediate and one end section hold via three tie rods. The metering sections part consists of three to eight metering sections (depending on number of outlets needed) which are fixed on the baseplate part. All parts have FKM O-ring seals in-between. There must be a minimum of three metering sections. The metering sections will have either single or twin outlets. Whenever a single metering segment or crossport plate is used, the unused outlet must be plugged. Metering device has to be ordered in single parts, see chart.

#### Features and benefits

- Alternate outlet ports for performance indicators
- For mineral oil based or synthetic lubricants
- Optional metering sections with visual cycle indicator
- Optional by-pass metering segment for addition or deletion of lubrication points

#### Applications

- Gas engines
- Compressors
- For applications with high system back pressure

#### Technical data

Function principle	sectional metering device
Outlets <sup>1)</sup>	6 to 16
Lubricant	mineral or synthetic oil or grease NLGI 0 to 2
Metering quantity	per cycle and outlet min. 0,098 cm <sup>3</sup> ; 0.006 in <sup>3</sup> max. 0,787 cm <sup>3</sup> ; 0.048 in <sup>3</sup>
Operating pressure	max. 510 bar; 7 500 psi
Connection inlet	1/4 NPSF (F)
Connection outlet	1/8 NPSF (F)
Material	housing: black chromate plated steel seals: FKM
Dimensions	min. 129×86×48 mm min. 5.09×3.38×1.87 in max. 245×86×48 mm max. 9.63×3.38×1.87 in
Mounting position	any

<sup>1)</sup> by crossporting or closing outlets possible to reduce outlet number below given minimum

## Metering devices

### MC<sup>2</sup>-HP

#### MC<sup>2</sup>-HP modular design

Outlets	Order number Inlet section	End section	Tie rod	Intermedia section	Intermedia section Intermedia section quantity required	Tie rod quantity required	Metering valves quantity required
6	<b>87955</b>	<b>87956</b>	<b>236640</b>	<b>87957</b>	3	3	3
8	<b>87955</b>	<b>87956</b>	<b>236641</b>	<b>87957</b>	4	3	4
10	<b>87955</b>	<b>87956</b>	<b>236642</b>	<b>87957</b>	5	3	5
12	<b>87955</b>	<b>87956</b>	<b>236644</b>	<b>87957</b>	6	3	6
14	<b>87955</b>	<b>87956</b>	<b>236645</b>	<b>87957</b>	7	3	7
16	<b>87955</b>	<b>87956</b>	<b>236646</b>	<b>87957</b>	8	3	8

Note: use 68645 closure plug (1/8 NPT) to plug non-working outlets. Each 87956 end section contains 3 tie rod nuts

#### MC<sup>2</sup>-HP Metering valves single outlet

Order number Standard	W/right side cycle indicator	Designation	Metering quantity	
			cm <sup>3</sup>	in
<b>876061</b>	•	06S	0,196	0.196
<b>876091</b>	•	09S	0,295	0.295
<b>876121</b>	<b>876123</b>	12S	0,393	0.393
<b>876181</b>	<b>876183</b>	18S	0,590	0.590
<b>876241</b>	<b>876243</b>	24S	0,787	0.787

#### MC<sup>2</sup>-HP Metering valves twin outlet

Order number Standard	W/right side cycle indicator	Designation	Metering quantity	
			cm <sup>3</sup>	in
<b>876062</b>	•	06T	0,98	0.098
<b>876092</b>	•	09T	0,147	0.147
<b>876122</b>	<b>876124</b>	12T	0,197	0.197
<b>876182</b>	<b>876184</b>	18T	0,295	0.295
<b>876242</b>	<b>876244</b>	24T	0,393	0.393

## Accessories

### Plugs and indicators

#### Plug and crossporting

Order number	Designation
<b>68645</b>	closure plug
<b>87905</b>	single and crossport kit

#### Performance indicators

Order number	Type	Disc colour	Pressure rating	
			bar	psi
<b>87895</b>	pin	yellow	110	1 450
<b>87896</b>	pin	red	120	1 750
<b>87897</b>	pin	orange	140	2 050
<b>87885</b>	reset	green	70	1 000
<b>87886</b>	reset	yellow	100	1 500
<b>87887</b>	reset	red	140	2 000
<b>87888</b>	reset	orange	170	2 500
<b>87889</b>	reset	blue	205	3 000

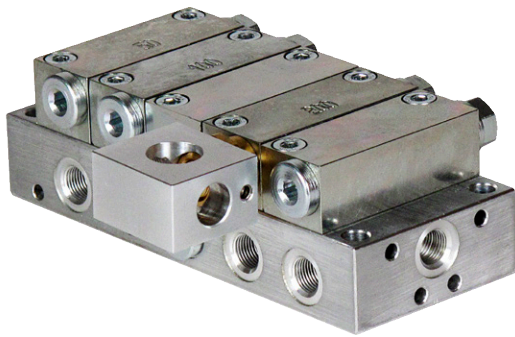
#### Product description

Closure plug to plug non-working outlets. External crossport kit connects alternate outlet ports to combine the volume of two metering segments through a single outlet.

#### Product description

Pin type performance indicators where high pressure ruptures internal disc and extends indicator. Reset-type indicator where high pressure extends indicator and resets after pressure is relieved. O-rings are FKM for both types.

## PSG1



Oil and fluid grease

Grease



### Product description

The PSG1 is a progressive metering device made of a baseplate and metering sections which can be removed without loosening the tubing as all inlets and outlets are positioned in the common baseplate. By unscrewing the internal setscrew two opposite outlets can be consolidated internally. Externally a maximum of three outlets can be consolidated via a crossporting bridge. A minimum of three metering section need to be used.

### Features and benefits

- Servicing made easy by outlets are located in baseplate
- Flexible due to exchangeable metering segments
- Visual or electrical monitoring possible
- Dummy segments with no output available
- Adjustable by consolidating outlets internally or externally
- Most compact modular metering device

### Applications

- Tunnel boring machines
- Paper machines
- Presses

### Technical data

Function principle	segment metering device
Outlets	6 to 20
Lubricant	grease up to NLGI 2 oil with minimum viscosity of 12 mm <sup>2</sup> /s
Metering quantity	per cycle and outlet min. 0,05 cm <sup>3</sup> , 0,003 in <sup>3</sup> max. 0,25 cm <sup>3</sup> , 0,015 in <sup>3</sup>
Operating temperature	-15 to +110 °C +5 to 230 °F
Operating pressure <sup>1)</sup>	max. 200 bar; 2 900 psi
Material	baseplate: aluminum alloy sections: steel, galvanized
Connection inlet	G 1/8
Connection outlet	G 1/8
Dimensions	min. 90 × 55 × 41 mm min. 3.54 × 2.17 × 1.61 in max. 244 × 55 × 41 mm max. 9.61 × 2.17 × 1.61 in
Mounting position	without vibration: any with vibration: piston position should 90° to machine movements direction

<sup>1)</sup> operating pressure may be lower depending on design with monitoring or attachments

### PSG1 Accessories

Order number	Designation
466-419-001	Closure plug for baseplate outlet incl. washer
24-2151-3760	Crossporting bridge, 2 outlets <sup>1)</sup>
24-2151-3762	Crossporting bridge, 2 outlets, with outlet port <sup>1)</sup>
24-2151-3764	Crossporting bridge, 2 outlets, with outlet port and check valve <sup>1)</sup>

<sup>1)</sup> bridges are approved for a maximum operating pressure of 100 bar; 1 450 psi  
crossporting bridge also available for 3 outlets, see brochure 1-3010-EN

**NOTE**  
For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication):  
**951-230-013, 1-3010-EN**

3D data and product configuration:  
[skf-lubrication.partcommunity.com/3d-cad-models/](http://skf-lubrication.partcommunity.com/3d-cad-models/)

# Metering devices

## PSG1

Oil and fluid grease

Grease

**Body configurator**

PSG1
—
X
X
X
—

Product series

Monitoring

- X = none
- 3 = 3-pin piston detector, M 12 × 1 plug
- Y = cycle indicator, visual (plunger rod) <sup>1) 2)</sup>
- S = cycle indicator with bracket and proximity switch <sup>1) 2)</sup>
- G = cycle indicator with bracket for proximity switch (without proximity switch) <sup>1) 2)</sup>

Position of monitoring device <sup>2)</sup>

- X = none
- A = left hand side, section 1      B = right hand side, section 1
- C = left hand side, section 2      D = right hand side, section 2
- E = left hand side, section 3      F = right hand side, section 3
- G = left hand side, section 4      H = right hand side, section 4
- J = left hand side, section 5      K = right hand side, section 5
- L = left hand side, section 6      M = right hand side, section 6
- N = left hand side, section 7      P = right hand side, section 7
- Q = left hand side, section 8      R = right hand side, section 8
- S = left hand side, section 9      T = right hand side, section 9
- U = left hand side, section 10      V = right hand side, section 10

Baseplate inlet screw union <sup>3)</sup>

- X = none      B = tube ø 8 mm
- A = tube ø 6 mm      C = tube ø 10 mm

Sections

... = to be configured in the section configurator

**Section configurator**

—
—

Section (minimum 3 sections) <sup>4)</sup>

- x = dummy section
- A = 0,05 cm<sup>3</sup>/cycle <sup>5)</sup>      B = 0,10 cm<sup>3</sup>/cycle
- C = 0,15 cm<sup>3</sup>/cycle      D = 0,20 cm<sup>3</sup>/cycle
- E = 0,25 cm<sup>3</sup>/cycle

Outlet fitting left

- S = outlet closed by screw plug <sup>6)</sup>
- X = outlet without fitting

Outlet fitting right

- S = outlet closed by screw plug <sup>6)</sup>
- X = outlet without fitting

Left
Right

10
9
8
7
6
5
4
3
2
1

↑ Inlet

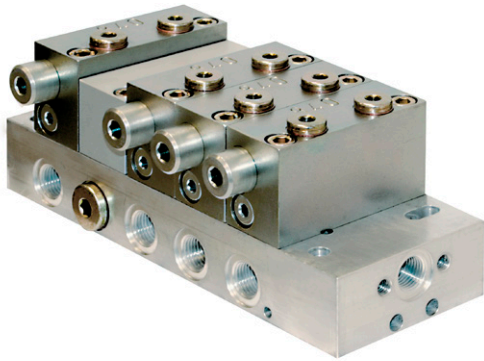
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<sup>1)</sup> Only on 200 and 250 mm<sup>3</sup> section sizes  
<sup>2)</sup> Installation on first or last section is not recommended  
<sup>3)</sup> Solderless pipe union with cutting sleeve per DIN 2353  
<sup>4)</sup> The volume per section is equal on both sides  
<sup>5)</sup> If possible, do not place in first position when designing metering device  
<sup>6)</sup> Metering device only operates with one side (left or right) outlet closed per section



# Metering devices

## PSG2



Oil and fluid grease

Grease

### Product description

The PSG2 is a progressive metering device made of a baseplate and metering sections which can be removed without loosening the tubing as all inlets and outlets are positioned in the common baseplate. By unscrewing the internal setscrew two opposite outlets can be consolidated internally. Externally a maximum of three outlets can be consolidated via a crossporting bridge. A minimum of three metering section need to be used.

### Features and benefits

- Easy to service as outlets located in the baseplate
- Flexible with exchangeable metering segments
- Visual or electrical monitoring available
- Increased corrosion resistance material available
- Dummy segments without output available
- Adjustable output by consolidating outlets internally or externally

### Applications

- Presses
- Tunnel boring machines
- Paper machines
- Automotive industry

### Technical data

Function principle	segment metering device
Outlets	3 to 20
Lubricant	oil: with min. viscosity of 12 mm <sup>2</sup> /s grease: up to NLGI 2
Metering quantity	per cycle and outlet, depends on metering section used min. 0,06 cm <sup>3</sup> ; 0.0037 in <sup>3</sup> max. 0,84 cm <sup>3</sup> ; 0.051 in <sup>3</sup>
Operating temperature	-15 to +110 °C +5 to 230 °F
Operating pressure	max. 200 bar; 2 900 psi
Connection inlet	G 1/4
Connection outlet	G 1/4
Material	baseplate: aluminum alloy or anodized sections: steel or nickel plated
Dimensions	min. 131 × 86 × 71 mm min. 5.16 × 3.39 × 2.80 in max. 327 × 86 × 71 mm max. 12.87 × 3.39 × 2.80 in
Mounting position	without vibration: any with vibration: piston position should be 90° to machine movements direction
Options	flow limiter

<sup>1)</sup> operating pressure may be lower depending on design with monitoring or attachments

### PSG2 Accessories

Order number	Designation
466-419-001	Closure plug for baseplate outlet incl. washer
24-2151-3760	Crossporting bridge, 2 outlets <sup>1)</sup>
24-2151-3762	Crossporting bridge, 2 outlets, with outlet port <sup>1)</sup>
24-2151-3764	Crossporting bridge, 2 outlets, with outlet port and check valve <sup>1)</sup>

<sup>1)</sup> bridges are approved for a maximum operating pressure of 100 bar; crossporting bridge also available for 3 outlets, see brochure

**NOTE**  
For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication):  
**951-230-013, 14389 EN**

3D data and product configuration:  
[skf-lubrication.partcommunity.com/3d-cad-models/](http://skf-lubrication.partcommunity.com/3d-cad-models/)

# Metering devices

## PSG2

**Body configurator**

PSG2


X
X

X

**Product series**

---

**Monitoring**

X = none  
 3 = 3-pin piston detector, M 12 × 1 plug  
 Y = cycle indicator, visual (plunger rod)<sup>1) 2)</sup>  
 S = cycle indicator with bracket and proximity switch<sup>1) 2)</sup>  
 G = cycle indicator with bracket for proximity switch (without proximity switch)<sup>1) 2)</sup>

**Position of monitoring device**<sup>2)</sup>

X = none  
 A = left hand side, section 1      B = right hand side, section 1  
 C = left hand side, section 2      D = right hand side, section 2  
 E = left hand side, section 3      F = right hand side, section 3  
 G = left hand side, section 4      H = right hand side, section 4  
 J = left hand side, section 5      K = right hand side, section 5  
 L = left hand side, section 6      M = right hand side, section 6  
 N = left hand side, section 7      P = right hand side, section 7  
 Q = left hand side, section 8      R = right hand side, section 8  
 S = left hand side, section 9      T = right hand side, section 9  
 U = left hand side, section 10     V = right hand side, section 10

**Baseplate inlet screw union**<sup>3)</sup>

X = none  
 A = tube ø 6 mm                              C = tube ø 10 mm  
 B = tube ø 8 mm                              D = tube ø 12 mm

**Sections**

... = to be configured in the section configurator

Oil and fluid grease

Grease

**Section configurator**

—
—

**Section (minimum 3 sections)**<sup>4)</sup>

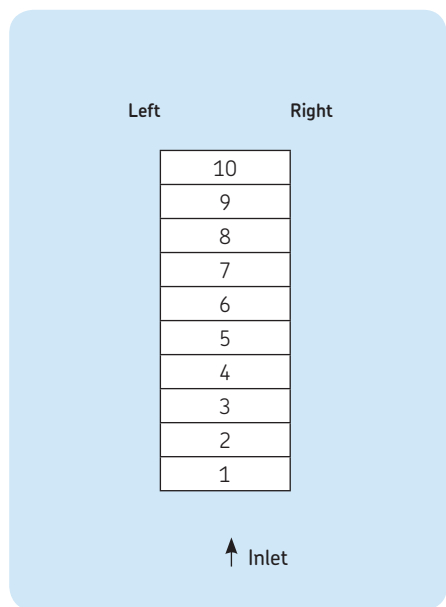
X = dummy section  
 F = 0,06 cm<sup>3</sup>/cycle<sup>5)</sup>                      K = 0,48 cm<sup>3</sup>/cycle  
 G = 0,12 cm<sup>3</sup>/cycle                          L = 0,60 cm<sup>3</sup>/cycle  
 H = 0,24 cm<sup>3</sup>/cycle                          M = 0,72 cm<sup>3</sup>/cycle  
 J = 0,36 cm<sup>3</sup>/cycle                          N = 0,84 cm<sup>3</sup>/cycle

**Outlet fitting left**

S = outlet closed by screw plug<sup>6)</sup>  
 X = outlet without fitting

**Outlet fitting right**

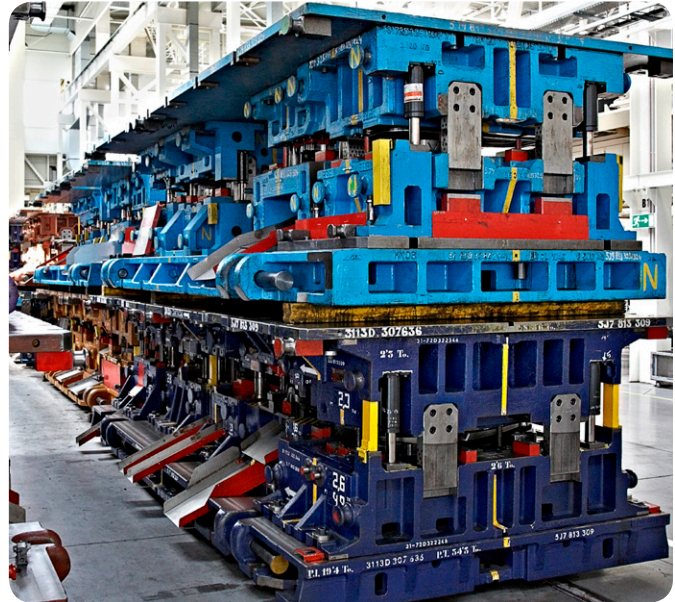
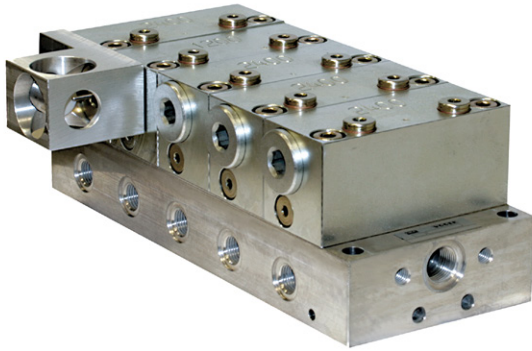
S = outlet closed by screw plug<sup>6)</sup>  
 X = outlet without fitting



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<sup>1)</sup> Not for 60 mm<sup>3</sup> section size  
<sup>2)</sup> Installation on first or last section is not recommended  
<sup>3)</sup> Solderless pipe union with cutting sleeve per DIN 2353  
<sup>4)</sup> The volume per section is equal on both sides  
<sup>5)</sup> If possible, do not place in first position when designing metering device  
<sup>6)</sup> Metering device only operates with one side (left or right) outlet closed per section

PSG3



Oil and fluid grease

Grease

Product description

The PSG3 is a progressive metering device made of a baseplate and metering sections which can be removed without loosening the tubing as all inlets and outlets are positioned in the common baseplate. By unscrewing the internal setscrew two opposite outlets can be consolidated internally. Externally a maximum of three outlets can be consolidated via a crossporting bridge. A minimum of three metering sections need to be used.

Features and benefits

- Easy to service as outlets are located in the baseplate
- Flexible with exchangeable metering segments
- Visual or electrical monitoring available
- Increased corrosion resistance material available
- Dummy segments without output available
- Adjustable output by consolidating outlets internally or externally
- Main metering device in oil circulation systems

Applications

- Presses
- Paper machines
- Automotive industry

Technical data

Function principle	segment metering device
Outlets	6 to 20
Lubricant	oil with min. viscosity of 12 mm <sup>2</sup> /s grease up to NLGI 2
Metering quantity	per cycle and outlet min. 0,80 cm <sup>3</sup> ; 0.049 in <sup>3</sup> max. 3,20 cm <sup>3</sup> ; 0.195 in <sup>3</sup>
Operating temperature	-15 to +110 °C +5 to 230 °F
Operating pressure	max. 200 bar; 2 900 psi
Connection inlet	G 3/8
Connection outlet	G 1/4
Material	baseplate: aluminium alloy sections: steel galvanized or nickel plated
Dimensions	min. 165 × 108 × 88 mm min. 6.50 × 4.25 × 3.46 in max. 466 × 108 × 88 mm max. 18.35 × 4.25 × 3.46 in
Mounting position	without vibration: any with vibration: piston position should be 90° to machine movements direction
Options	flow limiter

<sup>1)</sup> operating pressure may be lower depending on design with monitoring or attachments

PSG3 Accessories

Order number	Designation
DIN908-R1-4-5.8	Closure plug for baseplate outlet
508-108	Washer for closure plug
24-2151-3734	Crossporting bridge, 2 outlets <sup>1)</sup>
24-2151-3736	Crossporting bridge, 2 outlets with outlet ports <sup>1)</sup>

<sup>1)</sup> bridges are approved for a maximum operating pressure of 100 bar; crossporting bridge also available for 3 outlets, see brochure

**NOTE**  
For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available online at [SKF.com/lubrication](http://SKF.com/lubrication):  
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3D data and product configuration:  
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# Metering devices

## PSG3

**Body configurator**

PSG3    X    X    X

Product series

Monitoring

X = none  
 3 = 3-pin piston detector, M 12 × 1 plug  
 Y = cycle indicator, visual (plunger rod)<sup>1)</sup>  
 S = cycle indicator with bracket and proximity switch<sup>1)</sup>  
 G = cycle indicator with bracket for proximity switch (without proximity switch)<sup>1)</sup>

Position of monitoring device<sup>1)</sup>

X = none  
 A = left hand side, section 1    B = right hand side, section 1  
 C = left hand side, section 2    D = right hand side, section 2  
 E = left hand side, section 3    F = right hand side, section 3  
 G = left hand side, section 4    H = right hand side, section 4  
 J = left hand side, section 5    K = right hand side, section 5  
 L = left hand side, section 6    M = right hand side, section 6  
 N = left hand side, section 7    P = right hand side, section 7  
 Q = left hand side, section 8    R = right hand side, section 8  
 S = left hand side, section 9    T = right hand side, section 9  
 U = left hand side, section 10    V = right hand side, section 10

Baseplate inlet screw union<sup>2)</sup>

X = none  
 B = tube ø 8 mm  
 D = tube ø 12 mm  
 F = tube ø 16 mm  
 C = tube ø 10 mm  
 E = tube ø 15 mm

Sections

... = to be configured in the section configurator

Oil and fluid grease

Grease

**Section configurator**

— —

Section (minimum 3 sections)<sup>3)</sup>

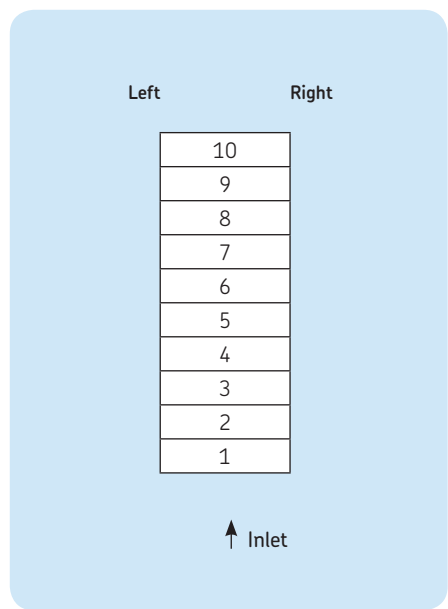
X = dummy section  
 P = 0,80 cm<sup>3</sup>/cycle<sup>4)</sup>    Q = 1,20 cm<sup>3</sup>/cycle  
 R = 1,60 cm<sup>3</sup>/cycle    S = 2,40 cm<sup>3</sup>/cycle  
 T = 3,20 cm<sup>3</sup>/cycle

Outlet fitting left

S = outlet closed by screw plug<sup>5)</sup>  
 X = outlet without fitting

Outlet fitting right

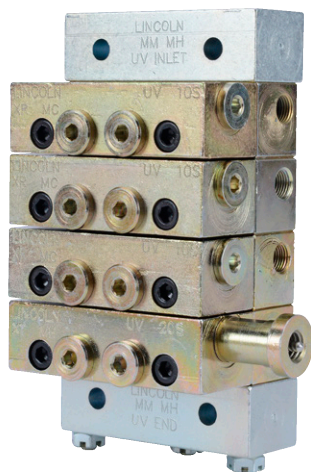
S = outlet closed by screw plug<sup>5)</sup>  
 X = outlet without fitting



<sup>1)</sup> Installation on first or last section is not recommended  
<sup>2)</sup> Solderless pipe union with cutting sleeve per DIN 2353  
<sup>3)</sup> The volume per section is equal on both sides  
<sup>4)</sup> If possible, do not place in first position when designing metering device  
<sup>5)</sup> Metering device only operates with one side (left or right) outlet closed per section

## Metering devices

### UV



Oil and fluid grease

Grease

#### Product description

UV metering devices are modular type metering devices. They consist of a baseplate part and a metering sections part. The baseplate has one inlet, three to eight intermediate, one end section held via three tie rods. The metering sections part consists of three to eight metering sections (depending on number of outlets needed) which are fixed on the baseplate part. All parts have FKM O-ring seals in-between. There must be a minimum of three metering sections. The metering sections will have either single or twin outlets. Whenever a single metering segment or crossport plate is used, the unused outlet must be plugged. Metering device has to be ordered in single parts, see chart.

#### Features and benefits

- Alternate outlet ports for performance indicators
- Optional metering sections with visual cycle indicator
- Optional by-pass metering segment for addition or deletion of lubrication points

#### Applications

- Industrial machinery
- Metal forming machines
- Material handling machines



#### Technical data

Function principle	segment metering device
Outlets <sup>1)</sup>	6 to 16
Lubricant	oil or grease NLGI 0 to 2
Metering quantity	per cycle and outlet min. 0,082 cm <sup>3</sup> ; 0.005 in <sup>3</sup> max. 1,311 cm <sup>3</sup> ; 0.08 in <sup>3</sup>
Operating pressure	max. 240 bar; 3 500 psi
Connection inlet	1/4 NPSF (F)
Connection outlet	1/8 NPSF (F)
Material	housing: zinc plated steel sealing: FKM
Dimensions	min. 115 × 76 × 57 mm min. 4.52 × 3 × 2.25 in max. 232 × 76 × 57 mm max. 9.13 × 3 × 2.25 in
Mounting position	any

<sup>1)</sup> by crossporting or closing outlets possible to reduce outlet number below given minimum

# Metering devices

## UV

Oil and fluid grease

Grease

### UV baseplate and tie rod specifications <sup>1)</sup>

Outlets max.	Order number Inlet section	End section	Tie rod <sup>1)</sup>	Intermediate section	Intermediate section quantity required	Metering valves
6	<b>87918</b>	<b>87920</b>	<b>250290</b>	<b>87919</b>	3	3
8	<b>87918</b>	<b>87920</b>	<b>250291</b>	<b>87919</b>	4	4
10	<b>87918</b>	<b>87920</b>	<b>250292</b>	<b>87919</b>	5	5
12	<b>87918</b>	<b>87920</b>	<b>250293</b>	<b>87919</b>	6	6
14	<b>87918</b>	<b>87920</b>	<b>250294</b>	<b>87919</b>	7	7
16	<b>87918</b>	<b>87920</b>	<b>250295</b>	<b>87919</b>	8	8

<sup>1)</sup> each tie rod model no. includes three tie rods and three fastening nuts

### UV metering valve specification- single outlet S

Order number Standard	Right side cycle indicator	Designation	Metering quantity per outlet	
			cm <sup>3</sup>	in <sup>3</sup>
<b>882051</b>	–	05S	0,164	0.010
<b>882101</b>	–	10S	0,328	0.020
<b>882151</b>	–	15S	0,492	0.030
<b>882201</b>	<b>882203</b>	20S	0,656	0.040
<b>882251</b>	<b>882253</b>	25S	0,820	0.050
<b>882301</b>	<b>882303</b>	30S	0,983	0.060
<b>882351</b>	<b>882353</b>	35S	1,147	0.070
<b>882401</b>	<b>882403</b>	40S	1,311	0.080

Model 882000 UV by pass block:  
optional by-pass block permits addition or deletion of lubrication points without disturbing existing installations. Includes mounting screws and NBR seals.

### UV metering valve specifications - twin outlet T

Order number Standard	Right side cycle indicator	Designation	Metering quantity per outlet	
			cm <sup>3</sup>	in <sup>3</sup>
<b>882052</b>	–	05T	0,082	0.05
<b>882102</b>	–	10T	0,164	0.10
<b>882152</b>	–	15T	0,246	0.15
<b>882202</b>	<b>882204</b>	20T	0,328	0.20
<b>882252</b>	<b>882254</b>	25T	0,410	0.25
<b>882302</b>	<b>882304</b>	30T	0,492	0.30
<b>882352</b>	<b>882354</b>	35T	0,574	0.35
<b>882402</b>	<b>882404</b>	40T	0,656	0.40

Model 882000 UV by pass block optional:  
by-pass block permits addition or deletion of lubrication points without disturbing existing installations. Includes mounting screws and NBR seals.

### Plug and crossporting

Order number	Designation
<b>68645</b>	closure plug
<b>87905</b>	single and crossport kit

### Product description

Closure plug To plug non-working outlets. External crossport kit connects alternate outlet ports to combine the volume of two metering segments through a single outlet.

### Relief and performance indicators

Order number	Type	Disc colour	Pressure rating	
			bar	psi
<b>87934</b>	atmospheric relief	yellow	100	1 450
<b>87935</b>	atmospheric relief	red	120	1 750
<b>87936</b>	atmospheric relief	purple	225	3 250
<b>87937</b>	atmospheric relief	yellow/natural	255	3 700
<b>87938</b>	reset-type	–	35	500
<b>87939</b>	reset-type	–	70	1 000
<b>87940</b>	reset-type	–	10	1 500
<b>87941</b>	reset-type	–	140	2 000
<b>87942</b>	reset-type	–	205	3 000

### Product description

Atmospheric safety relief indicators. High pressure rupture disc, pressure and lubricant vents to the atmosphere.

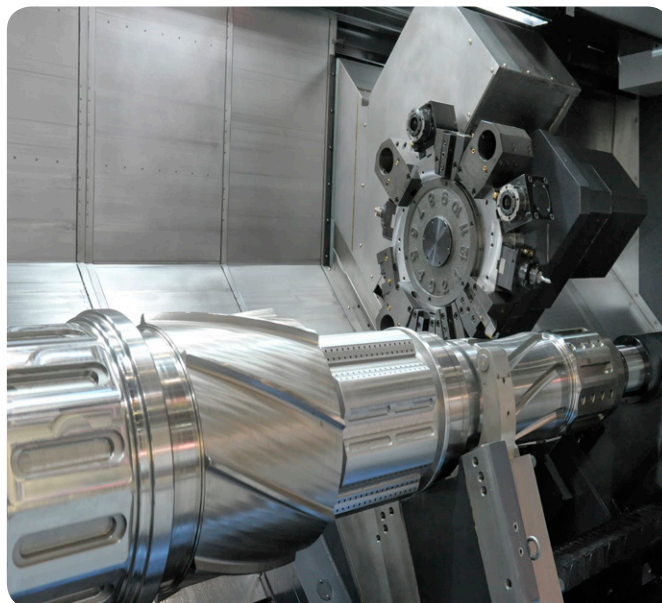
Reset-type Performance Indicators. High pressure extends indicator. Reset indicator after pressure is relieved. All with thread 1/8 NPTF (M).

## Metering devices

### XL

Oil and fluid grease

Grease



#### Product description

XL metering devices are modular type metering devices. They consist of a baseplate as one piece and a modular metering sections part. The baseplate contains all inlet and outlet connections.

The metering sections part consists of three to six metering sections (depending on number of outlets needed) which are fixed on the baseplate part. All parts have NBR-ring seals in-between. There must be a minimum of three metering sections. The metering sections will have either single or twin outlets. Whenever a single metering segment or a crossport or a singling plate is used, the unused outlet must be plugged. Metering device has to be ordered in single parts, see chart.

#### Features and benefits

- Several sizes and outputs
- Can be used as primary metering device in conjunction with UV type
- Baseplate as one single piece

#### Applications

- Metal cutting machines
- Metal forming machines
- Wood-working machines
- Material handling machinery

#### Technical data

Function principle	segment metering device
Outlets <sup>1)</sup>	6 to 12
Lubricant	oil or grease NLGI 0 to 2
Metering quantity	per cycle and outlet min. 0,492 cm <sup>3</sup> ; 0.03 in <sup>3</sup> max. 4,92 cm <sup>3</sup> ; 0.3 in <sup>3</sup>
Operating pressure	max. 170 bar; max. 2 500 psi
Connection inlet	<sup>3</sup> / <sub>8</sub> NPTF (F)
Connection outlet	<sup>1</sup> / <sub>4</sub> NPTF (F)
Material	housing: zinc plated steel sealing: NBR
Dimensions	min. 136 × 127 × 70 mm min. 5.34 × 5 × 2.75 in max. 238 × 127 × 70 mm max. 9.38 × 5 × 2.75 in
Mounting position	any

<sup>1)</sup> by crossporting or closing outlets possible to reduce outlet number below given minimum