

Metering devices

SSVM



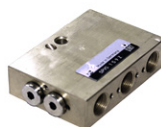
SSVD



SSVDL



SPVS



VPB



SSV



SSVL



VPK



VP



UV



PSG1



PSG2



PSG3



XL



MC²-HP



Overview of metering devices

Block metering device

Product	Lubricant Oil / fluid grease	Grease	Metering quantity		Outlets ¹⁾	Operating pressure max.		Page
			cm ³ /outlet	in ³ /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

¹⁾ 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 ³ /outlet	in ³ /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 ² -HP	•	•	0,196–0,393	0.012–0.024	6 to 16	510	7 425	94

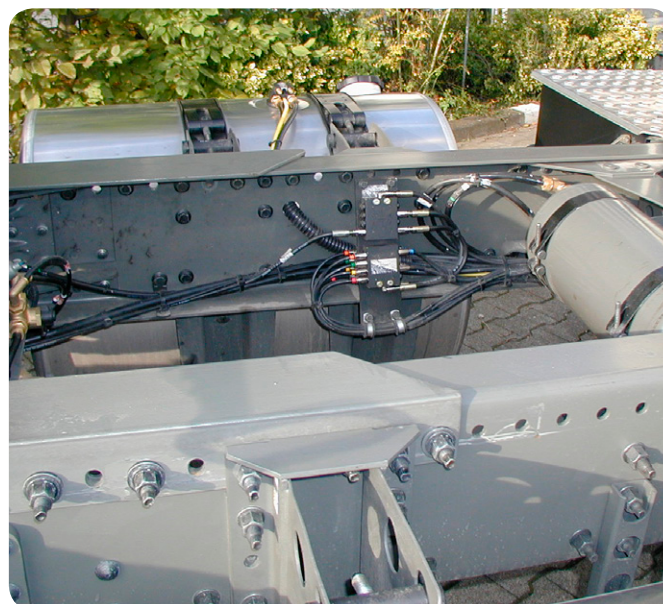
Segment metering device

Product	Lubricant Oil/ fluid grease	Grease	Metering quantity		Outlets	Operation pressure max.		Page
			cm ³ /outlet	in ³ /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

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 ¹⁾	6 to 12
Lubricant	grease: up to NLGI 2 oil: at least 40 mm ² /s
Metering quantity	per cycle and outlet 0,07 cm ³ ; 0,004 in ³
Connection inlet	G 1/8 or 1/8 NPTF
Connection outlet ²⁾	M 8 × 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 × 50 × 25 mm 1.91 × 1.97 × 0.98 in max. 83 × 50 × 25 mm 3.27 × 1.97 × 0.98 in
Mounting position	any

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

²⁾ use special SSVM outlet fittings

Metering devices

SSVM

SSVM

Order number Inlet connection thread BSPP	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

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 ¹⁾	6 to 22
Lubricant	grease up to NLGI 2 or oil of at least 40 mm ² /s
Metering quantity ²⁾	per cycle and outlet min. 0,08 cm ³ ; 0.001 in ³ max. 1,80 cm ³ ; 0.110 in ³
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 ³⁾	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

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

²⁾ depending on metering screw valid for a pair of opposite outlets

³⁾ 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:
12401 EN

PUB LS/P1 16964 EN

SSVD

SSVD ¹⁾

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
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	–	–	–	–

¹⁾ SSVD also with emergency lubrication nipple available

Oil and fluid grease

Grease

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 ø 6 mm
504-30344-4	Outlet screw-in fitting, with clamping ring and check valve for tube ø 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 ¹⁾

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

¹⁾ 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 ¹⁾	6 to 14
Lubricant	grease up to NLGI 2, or oil of at least 40 mm ² /s
Metering quantity	per cycle and outlet min. 0,08 cm ³ ; 0.001 in ³ max. 1,80 cm ³ ; 0.110 in ³
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

¹⁾ 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: **12401 EN**

PUB LS/P1 16964 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. pos. 5x3, 4x5)

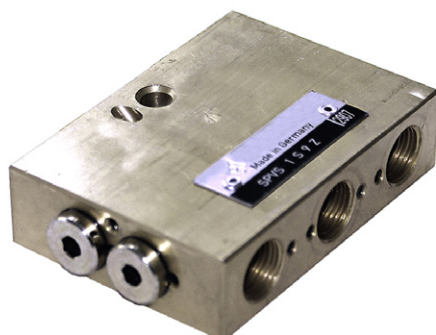
PUB LS/P1 16964 EN

SKF

81

LINCOLN

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 ² /s
Metering quantity	per cycle and outlets: 4 outlets: 0,16 cm ³ ; 0,01 in ³ 2 outlets: 0,32 cm ³ ; 0,02 in ³
Inlet volume flow	max. 45 cm ³ ; min; 2,75 in ³ /min
Operating temperature ²⁾	-10 to +100 °C; -14 to +212 °F
Operating pressure ¹⁾	max. 100 bar; 1 450 psi
Material	with M 12 x 1: brass with G 1/8: steel with electrical monitoring: cast iron
Connection inlet/outlet	M 12 x 1 or G 1/8
Electrical monitoring	one electrical cycle/pulse corresponds to 0,64 cm ³ , 0,04 in ³
Electrical connection	plug according DIN 43650
Voltage rated U _i	30 V DC
Current load I _i	0,02 A
Output function	normally open
Switching element	reed contact
Protection class ³⁾	IP 65
Dimensions	max. 55 x 168,5 x 31 mm max. 2.16 x 6.63 x 1.22 in
Mounting position	any

¹⁾ max. Differential pressure with oil 20 bar (290 psi), with grease 30 bar (435 psi)

²⁾ for basic desing without electric monitoring

³⁾ 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: **1-3029-EN**

PUB L5/P1 16964 EN

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

VPB



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 ² /s
Metering quantity	per stroke and outlet: 0,2 cm ³ ; 0,01 in ³
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:
1-3017-EN, 951-230-008-EN

Metering devices

VPB

Order number configurator	VPB								A	
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)										
3 = for 3 sections (max. 6 outlets)										
4 = for 4 sections (max. 8 outlets)										
5 = for 5 sections (max. 10 outlets)										
6 = for 6 sections (max. 12 outlets)										
7 = for 7 sections (max. 14 outlets)										
8 = for 8 sections (max. 16 outlets)										
9 = for 9 sections (max. 18 outlets)										
10 = 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										
-2R = right-hand side on the 2nd section										
... -0R = right-hand side on the 10 th 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	G1/8 for tube ø 6 mm
408-423W	G1/8 for tube ø 8 mm
410-443W	G1/8 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	G1/8 for tube ø 4 mm
406-403W	G1/8 for tube ø 6 mm
408-403W	G1/8 for tube ø 8 mm
451-006-518W VS	G1/8 SKF Quick Connector tube ø 6 mm
466-431-001	M10×1 closure plug
466-419-001	G1/8 closure plug

PUB LS/P1 16964 EN

SKF

85

LINCOLN

HENNICH
ŽÍJEME TECHNIKOU

o.z. HENNICH CEMA-TECH,
Dolní 183/30, 591 01 Žďár nad Sázavou

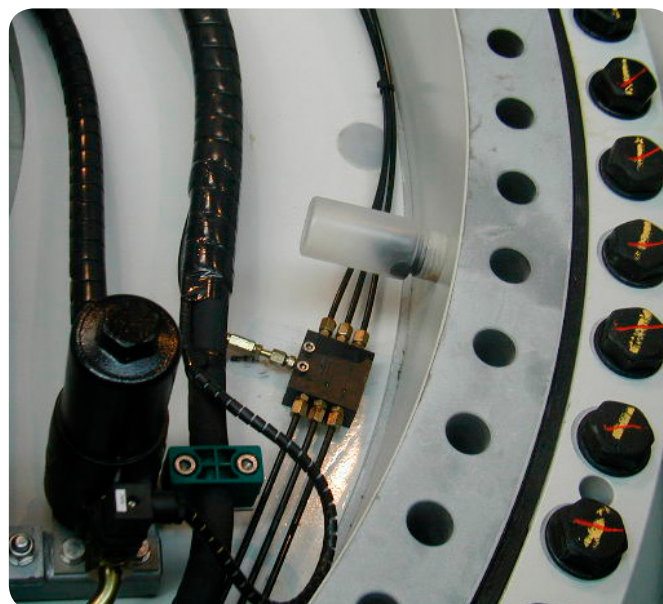
Telefon: +420 566 630 524
E-mail: cema-tech@hennlich.cz

www.hennlich.cz/cema-tech

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 ¹⁾	6 to 22
Lubricant	grease up to NLGI 2, oil at least 40 mm ² /s
Metering quantity	per cycle and outlet: 0,2 cm ³ ; 0,01 in ³
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 ²⁾	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

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

²⁾ 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:
12401-EN

PUB LS/P1 16964 EN

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 M 12, w3 wire
		K	E	N	KN	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 ø 6 mm
504-30344-4	Outlet screw-in fitting with clamping ring and check valve for tube ø 6 mm
519-318 26-1	Device for external gathering of SSV outputs from outlet #1 and #2

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 ¹⁾	6 to 14
Lubricant	grease up to NLGI 2, or oil of at least 40 mm ² /s
Metering quantity	per cycle and outlet 0,2 cm ³ ; 0.12 in ³
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

¹⁾ 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)

PUB LS/P1 16964 EN

SKF

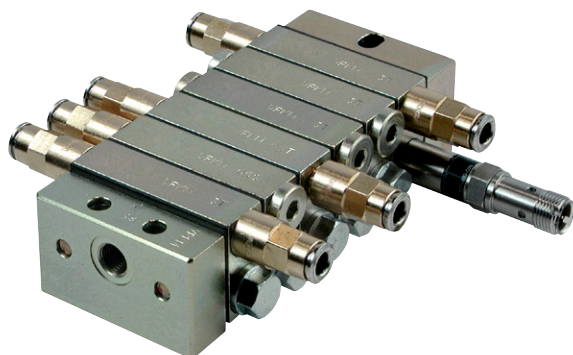
89

LINCOLN

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 cm³ (T-section = 2 outlets) to 0,6 cm³ (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 cm³/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 ² /s
Metering quantity	per cycle and outlet: 0,05-0,6 cm ³ ; 0.003-0.037 in ³
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: **1-3015-EN, 951-230-008-EN**

3D data and product configuration:
skf-lubrication.partcommunity.com/3d-cad-models/

VPK

Body configurator

VPK

X

Product series

Mainline thread

Monitoring

Position of monitoring device

Mainline fitting ²⁾

Sections

M = M 10x 1 inlet and outlet thread
G = G 1/8 inlet and outlet thread

X = none
2 = 2-pin piston detector, M12x1 plug
3 = 3-pin piston detector, M12x1 plug (wire breaking protection)
Y = cycle indicator, visual plunger rod ¹⁾
S = cycle indicator with holder and proximity switch M 12x1 ¹⁾
G = cycle indicator with holder for proximity switch M 12x1 (without proximity switch) ¹⁾

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

X = none
G = VPKM/VPKG straight push-in connector ø 6 mm
B = VPKM straight screw-in connector ø 6 mm (LL)
C = VPKM/VPKG straight screw-in connector ø 8 mm (LL)

... = to be configured in the section configurator

Section configurator ⁴⁾

Section (minimum 3 sections)

Outlet fitting left

Outlet fitting right

Single
B = 0,10 cm³/cycle (05S)
D = 0,20 cm³/cycle (1S)
F = 0,40 cm³/cycle (2S)
H = 0,60 cm³/cycle (3S)

Twin
A = 0,05 cm³/cycle (05T)
C = 0,10 cm³/cycle (1T)
E = 0,20 cm³/cycle (2T)
G = 0,30 cm³/cycle (3T)

S = outlet closed by screw plug ⁵⁾
X = outlet without fitting

S = outlet closed by screw plug ⁵⁾
X = outlet without fitting

Left

Right

10

9

8

7

6

5

4

3

2

1

↑ Inlet

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



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 cm³ (T-section = 2 outlets) to 1,2 cm³ (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 cm³/min (61 in³/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 ² /s grease: up to NLGI 2
Metering quantity	per cycle and outlet 0,1 to 1,2 cm ³ ; 0.006 to 0.073 in ³
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: **15400 EN, 951-230-008 EN**

3D data and product configuration:
skf-lubrication.partcommunity.com/3d-cad-models/

VP

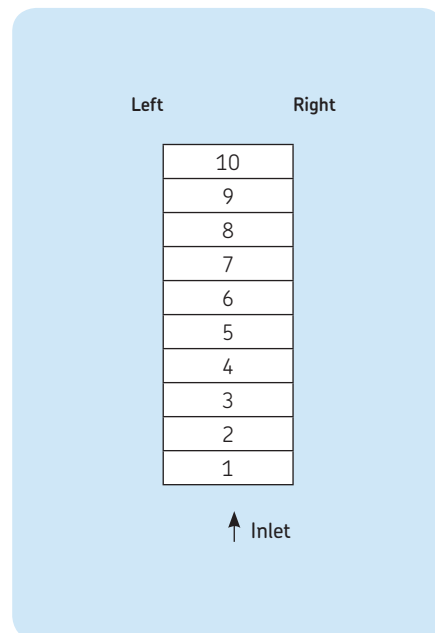
Body configurator	VP				X	X		X	
Product series									
Mainline thread									
M = M 14 × 1,5 inlet thread; M 10 × 1 outlet thread									
G = G 1/4 inlet thread; G 1/8 outlet thread									
Monitoring									
X = none									
2 = 2-pin piston detector, M 12 × 1 plug									
3 = 3-pin piston detector, M 12 × 1 plug (wire breaking detection)									
Y = cycle indicator, visual (plunger rod) ¹⁾									
Position of monitoring device									
X = none									
A = left hand side, section 1									
C = left hand side, section 2									
E = left hand side, section 3									
G = left hand side, section 4									
J = left hand side, section 5									
L = left hand side, section 6									
N = left hand side, section 7									
Q = left hand side, section 8									
S = left hand side, section 9									
U = left hand side, section 10									
B = right hand side, section 1									
D = right hand side, section 2									
F = right hand side, section 3									
H = right hand side, section 4									
K = right hand side, section 5									
M = right hand side, section 6									
P = right hand side, section 7									
R = right hand side, section 8									
T = right hand side, section 9									
V = right hand side, section 10									
Mainline fitting ^{2) 3)}									
X = none									
A = VPM straight connector, tube ø 6 mm (L)									
D = VPM straight connector, tube ø 8 mm (S)									
E = VPM straight connector, tube ø 10 mm (L)									
F = VPM straight connector, tube ø 12 mm (L)									
B = VPG straight connector, tube ø 6 mm (S)									
C = VPG straight connector, tube ø 8 mm (L)									
E = VPG straight connector, tube ø 10 mm (L)									
F = VPG straight connector, tube ø 12 mm (L)									
Sections									

Oil and fluid grease

Grease

... = to be configured in the section configurator

Section configurator ⁴⁾	
Section (minimum 3 sections)	
Single	Twin
D = 0,20 cm ³ /cycle	C = 0,10 cm ³ /cycle
F = 0,40 cm ³ /cycle	E = 0,20 cm ³ /cycle
H = 0,60 cm ³ /cycle	G = 0,30 cm ³ /cycle
K = 0,80 cm ³ /cycle	J = 0,40 cm ³ /cycle
M = 1,00 cm ³ /cycle	L = 0,50 cm ³ /cycle
Q = 1,20 cm ³ /cycle	N = 0,60 cm ³ /cycle
Outlet fitting left	
S = outlet closed by screw plug ⁵⁾	
X = outlet without fitting	
Outlet fitting right	
S = outlet closed by screw plug ⁵⁾	
X = outlet without fitting	

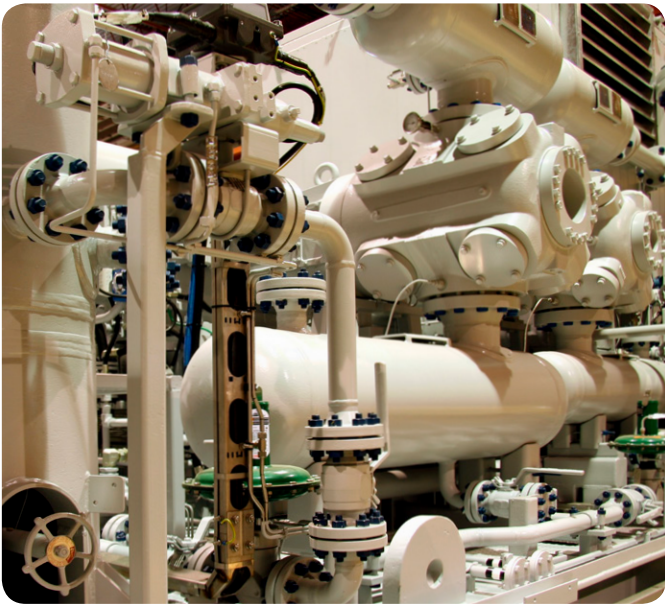


¹⁾ The installation of the cycle indicator is only possible from metering device section 2T and 2S, respectively!
²⁾ Solderless pipe unions with cutting sleeve acc. to DIN 2353
³⁾ LL-series = extra light version, L-series = light version, S-series = heavy duty version
⁴⁾ Repeat this entry according number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

MC²-HP

Oil and fluid grease

Grease



Product description

MC²-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 ¹⁾	6 to 16
Lubricant	mineral or synthetic oil or grease NLGI 0 to 2
Metering quantity	per cycle and outlet min. 0,098 cm ³ ; 0,006 in ³ max. 0,787 cm ³ ; 0,048 in ³
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

¹⁾ by crossporting or closing outlets possible to reduce outlet number below given minimum

Metering devices

MC²-HP

MC²-HP modular design

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

MC²-HP Metering valves single outlet

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

MC²-HP Metering valves twin outlet

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

Accessories

Plugs and indicators

Plug and crossporting

Order number	Designation
68645	closure plug
87905	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.

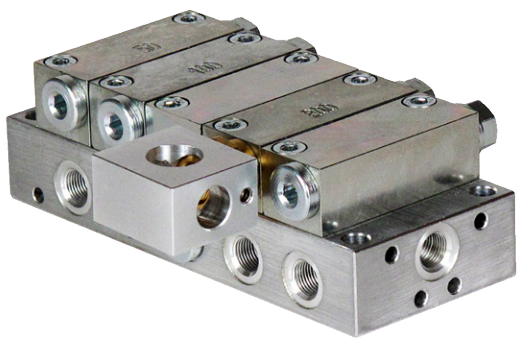
Performance indicators

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

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 ² /s
Metering quantity	per cycle and outlet min. 0,05 cm ³ , 0,003 in ³ max. 0,25 cm ³ , 0,015 in ³
Operating temperature	-15 to +110 °C +5 to 230 °F
Operating pressure ¹⁾	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

¹⁾ 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 ¹⁾
24-2151-3762	Crossporting bridge, 2 outlets, with outlet port ¹⁾
24-2151-3764	Crossporting bridge, 2 outlets, with outlet port and check valve ¹⁾

¹⁾ 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:
951-230-013, 1-3010-EN

3D data and product configuration:
skf-lubrication.partcommunity.com/3d-cad-models/



PSG1

Body configurator

PSG1

X

X

X

Product series

Monitoring

Position of monitoring device ²⁾

Baseplate inlet screw union ³⁾

Sections

X = none

3 = 3-pin piston detector, M 12 x 1 plug

Y = cycle indicator, visual (plunger rod) ^{1) 2)}

S = cycle indicator with bracket and proximity switch ^{1) 2)}

G = cycle indicator with bracket for proximity switch (without proximity switch) ^{1) 2)}

X = none

A = left hand side, section 1

C = left hand side, section 2

E = left hand side, section 3

G = left hand side, section 4

J = left hand side, section 5

L = left hand side, section 6

N = left hand side, section 7

Q = left hand side, section 8

S = left hand side, section 9

U = left hand side, section 10

B = right hand side, section 1

D = right hand side, section 2

F = right hand side, section 3

H = right hand side, section 4

K = right hand side, section 5

M = right hand side, section 6

P = right hand side, section 7

R = right hand side, section 8

T = right hand side, section 9

V = right hand side, section 10

X = none

A = tube Ø 6 mm

B = tube Ø 8 mm

C = tube Ø 10 mm

... = to be configured in the section configurator

Oil and fluid grease

Grease

Section configurator

Section (minimum 3 sections) ⁴⁾

Outlet fitting left

Outlet fitting right

x = dummy section

A = 0,05 cm³/cycle ⁵⁾

C = 0,15 cm³/cycle

E = 0,25 cm³/cycle

B = 0,10 cm³/cycle

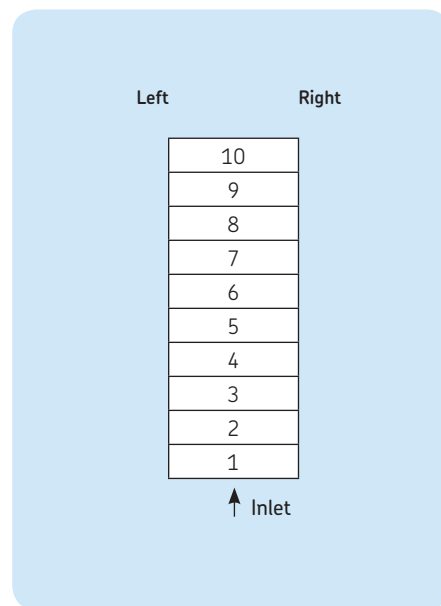
D = 0,20 cm³/cycle

S = outlet closed by screw plug ⁶⁾

X = outlet without fitting

S = outlet closed by screw plug ⁶⁾

X = outlet without fitting



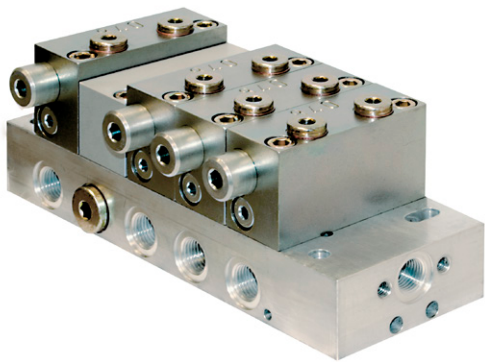
PUB LS/P1 16964 EN

¹⁾ Only on 200 and 250 mm³ section sizes
²⁾ Installation on first or last section is not recommended
³⁾ Solderless pipe union with cutting sleeve per DIN 2353
⁴⁾ The volume per section is equal on both sides
⁵⁾ If possible, do not place in first position when designing metering device
⁶⁾ Metering device only operates with one side (left or right) outlet closed per section

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 ² /s grease: up to NLGI 2
Metering quantity	per cycle and outlet, depends on metering section used min. 0,06 cm ³ ; 0.0037 in ³ max. 0,84 cm ³ ; 0.051 in ³
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

¹⁾ 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 ¹⁾
24-2151-3762	Crossporting bridge, 2 outlets, with outlet port ¹⁾
24-2151-3764	Crossporting bridge, 2 outlets, with outlet port and check valve ¹⁾

¹⁾ 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: **951-230-013, 14389 EN**

3D data and product configuration:
skf-lubrication.partcommunity.com/3d-cad-models/



PSG2

Body configurator

PSG2

X

X

X

Product series

Monitoring

Position of monitoring device ²⁾

Baseplate inlet screw union ³⁾

Sections

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

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

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

... = to be configured in the section configurator

Section configurator

Section (minimum 3 sections) ⁴⁾

Outlet fitting left

Outlet fitting right

X = dummy section
F = 0,06 cm³/cycle ⁵⁾
G = 0,12 cm³/cycle
H = 0,24 cm³/cycle
J = 0,36 cm³/cycle
K = 0,48 cm³/cycle
L = 0,60 cm³/cycle
M = 0,72 cm³/cycle
N = 0,84 cm³/cycle

S = outlet closed by screw plug ⁶⁾
X = outlet without fitting

S = outlet closed by screw plug ⁶⁾
X = outlet without fitting

Left

Right

10

9

8

7

6

5

4

3

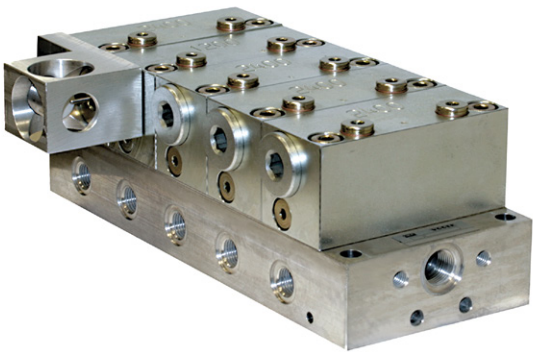
2

1

↑ Inlet

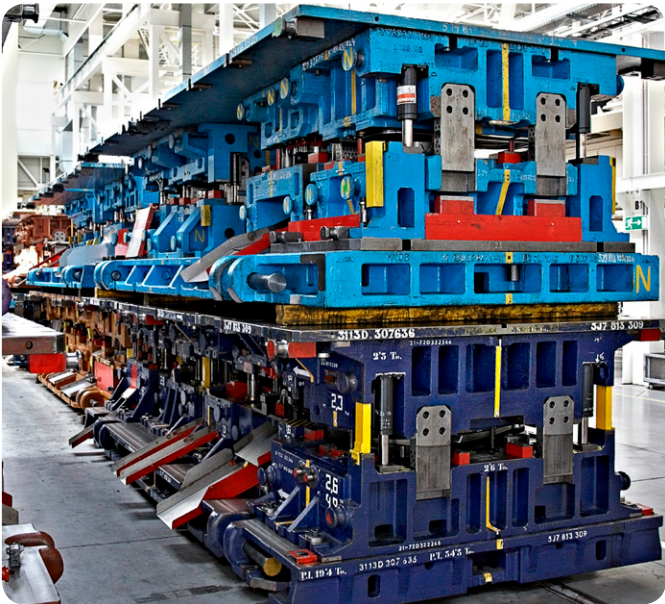
¹⁾ Not for 60 mm³ section size
²⁾ Installation on first or last section is not recommended
³⁾ Solderless pipe union with cutting sleeve per DIN 2353
⁴⁾ The volume per section is equal on both sides
⁵⁾ If possible, do not place in first position when designing metering device
⁶⁾ Metering device only operates 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 ² /s grease up to NLGI 2
Metering quantity	per cycle and outlet min. 0,80 cm ³ ; 0.049 in ³ max. 3,20 cm ³ ; 0.195 in ³
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

1) 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 ¹⁾
24-2151-3736	Crossporting bridge, 2 outlets with outlet ports ¹⁾

¹⁾ 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:
951-230-013, 14389 EN

3D data and product configuration:
skf-lubrication.partcommunity.com/3d-cad-models/



PSG3

Body configurator

PSG3

X

X

X

Product series

Monitoring

Position of monitoring device ¹⁾

Baseplate inlet screw union ²⁾

Sections

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

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

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

... = to be configured in the section configurator

Section configurator

Section (minimum 3 sections) ³⁾

Outlet fitting left

Outlet fitting right

X = dummy section
P = 0,80 cm³/cycle ⁴⁾
R = 1,60 cm³/cycle
T = 3,20 cm³/cycle
Q = 1,20 cm³/cycle
S = 2,40 cm³/cycle

S = outlet closed by screw plug ⁵⁾
X = outlet without fitting

S = outlet closed by screw plug ⁵⁾
X = outlet without fitting

Left

Right

10

9

8

7

6

5

4

3

2

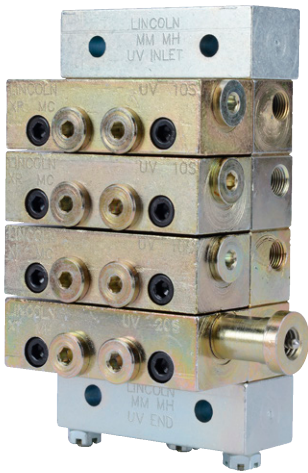
1

↑ Inlet

¹⁾ Installation on first or last section is not recommended
²⁾ Solderless pipe union with cutting sleeve per DIN 2353
³⁾ The volume per section is equal on both sides
⁴⁾ If possible, do not place in first position when designing metering device
⁵⁾ 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 ¹⁾	6 to 16
Lubricant	oil or grease NLGI 0 to 2
Metering quantity	per cycle and outlet min. 0,082 cm ³ ; 0.005 in ³ max. 1,311 cm ³ ; 0.08 in ³
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

¹⁾ by crossporting or closing outlets possible to reduce outlet number below given minimum



UV baseplate and tie rod specifications ¹⁾

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

¹⁾ 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 ³	in ³
882051	–	05S	0,164	0.010
882101	–	10S	0,328	0.020
882151	–	15S	0,492	0.030
882201	882203	20S	0,656	0.040
882251	882253	25S	0,820	0.050
882301	882303	30S	0,983	0.060
882351	882353	35S	1,147	0.070
882401	882403	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 ³	in ³
882052	–	05T	0,082	0.05
882102	–	10T	0,164	0.10
882152	–	15T	0,246	0.15
882202	882204	20T	0,328	0.20
882252	882254	25T	0,410	0.25
882302	882304	30T	0,492	0.30
882352	882354	35T	0,574	0.35
882402	882404	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
68645	closure plug
87905	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
87934	atmospheric relief	yellow	100	1 450
87935	atmospheric relief	red	120	1 750
87936	atmospheric relief	purple	225	3 250
87937	atmospheric relief	yellow/natural	255	3 700
87938	reset-type	–	35	500
87939	reset-type	–	70	1 000
87940	reset-type	–	10	1 500
87941	reset-type	–	140	2 000
87942	reset-type	–	205	3 000

Product description

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

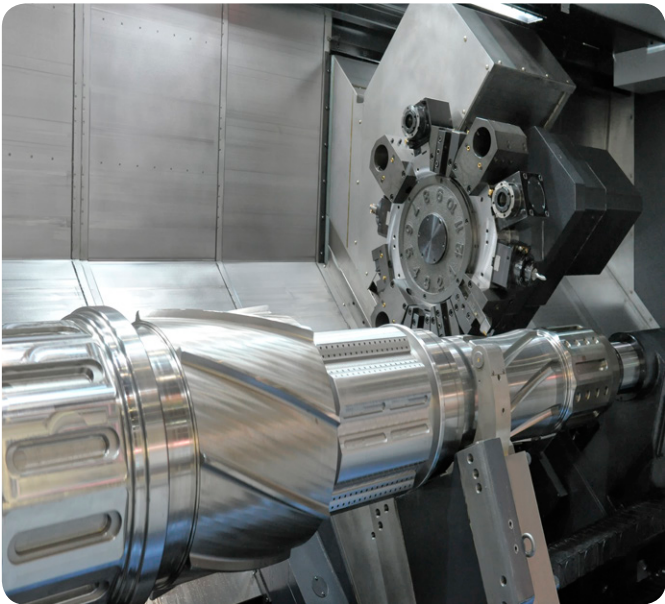
Reset-type Performance Indicators. High pressure extends indicator. Reset indicator after pressure is relieved. All with thread 1/8 NPTF (M).

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 ¹⁾	6 to 12
Lubricant	oil or grease NLGI 0 to 2
Metering quantity	per cycle and outlet min. 0,492 cm ³ ; 0.03 in ³ max. 4,92 cm ³ ; 0.3 in ³
Operating pressure	max. 170 bar; max. 2 500 psi
Connection inlet	3/8 NPTF (F)
Connection outlet	1/4 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

¹⁾ by crossporting or closing outlets possible to reduce outlet number below given minimum