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HENNLICH ŽIJEME TECHNIKOU

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Overview of oil and fluid grease metering devices

Single-line	e m	etering	dev	ices									
Product		Cate- gory ¹⁾	Lut	pricant	Metering quantity		Operati	ng pressure	Relief pressure max.		Adjustable metering quantity	Function type	Pag
			oil	fluid grease	cm ³ /stroke	in³/stroke	bar	psi	bar	psi			
341 340 LS22 LS21 361	2) 2) 2)	1 1 1 1	• • • •	- - - -	0,01-0,16 0,01-0,16 0,01-0,16 0,025-0,5 0,02-0,10	0.0006-0.0097 0.0006-0.0097 0.0006-0.0097 0.0015-0.0305 0.0010-0.0060	6-80 6-80 12-20 12-80 8-80	87-1160 87-1160 174-290 174-1160 116-1160	3 3 3 3 3 3 3	43.5 43.5 43.5 43.5 43.5	- - - -	prelubrication prelubrication prelubrication prelubrication dynamic pulse	90 92 94 95 96
351 350 370 391 390	2)	1 1 1 1	• • •	- - - -	0,05-0,60 0,05-0,60 0,05-1,50 0,20-1,50 0,20-1,50	0.0030-0.0366 0.0030-0.0366 0.0030-0.0915 0.0122-0.0915 0.0122-0.0915	6-80 6-80 20-80 8-45 8-80	87-1160 87-1160 290-1160 116-653 116-1160	3 3 1 7 7	43.5 43.5 14.5 101.5 101.5		prelubrication prelubrication relubrication prelubrication prelubrication	100 102 104 106 108
321 G, G4, T, W, Modul		2	•	•	0,01-0,10	0.0006-0.0060	12-45	174-653	3	43.5	-	special assembly arrangement	110
361 321 G7		2 2	•	•	0,01-0,20 0,01-0,30	0.0006-0.0122 0.0006-0.0183	8-80 12-45	116-1 160 174-653	3 3	43.5 43.5	-	dynamic pulse type special assembly arrangement	96 110
AB 341 340 310 VN 351 350	2)	2 2 2 2 2 2 2 2 2	• • • •	• • • •	0,01-0,60 0,03-0,10 0,03-0,10 0,03-0,16 0,05-1,00 0,10-0,60 0,10-0,30	0.0006-0.0366 0.0018-0.0061 0.0018-0.0061 0.0018-0.0097 0.0030-0.0610 0.0061-0.0366 0.0061-0.0183	18-50 6-80 12-38 20-80 6-80 6-80	261-725 87-1 160 87-1 160 174-551 290-1 160 87-1 160 87-1 160	3 3 3 3 1 3 3 3 1 3 3	43.5 43.5 43.5 43.5 14.5 43.5 43.5	- - - - -	prelubrication prelubrication prelubrication prelubrication prelubrication prelubrication	112 90 92 98 114 100 102
Oi-Al-SR		3	•	•	0,02-0,10	0.0012-0.0061	30-100	435-1 450	5	72.5	-	cartridge arrangement	116
391 390		3 3	•	:	0,10-0,30 0,10-0,30	0.0061-0.0183 0.0061-0.0183	8-45 8-80	116-653 116-1 160	7 7	101.5 101.5	-	prelubrication prelubrication	106 108
SL-42 SL-43 SL-41 SL-44		4 4 4 4	•	•	0,016-0,049 0,016-0,131 0,13-1,31 0,13-1,31	0.001-0.0029 0.001-0.0080 0.0079-0.0799 0.0079-0.0799	52-69 52-69 52-69 52-69	750-1 000 750-1 000 750-1 000 750-1 000	10 10 10 10	150 150 150 150	• • •	prelubrication prelubrication prelubrication prelubrication	118 120 122 124

The category allows a simple assignment of the metering device to a pump of the same category. The category results from the relief pressure, the operating principle and the lubricant suitable for the metering device.
 Stainless steel or C5M available

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Description

Developed for installation in manifolds, series 341 single-port, prelubrication metering devices are suitable for use with single-line, centralized lubrication systems for oil and fluid grease. The combination of these metering devices with one- to six-port manifolds provides flexible options for lubrication system design. Manifolds customized for product series 341 are available in aluminum and stainless steel.

Features and benefits

- Suitable with manifolds having one to six ports to match number of lubrication points
- Provides flexible options for systems with remote single lubrication points or multiple-port metering devices with up to six ports
- Select optional push-in or screw-in type metering nipples for feed line connections via order code
- Choose separately manifold models with different thread sizes for main line connection and materials
- Current metering nipples above 0,03 cm³ are exchangeable to yield different output quantities

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry



Technical data

Function principle Outlets Metering guantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

Mounting position

Metering device

oil: 0.01 to 0.16 cm ³ 0.0006 to 0.0097 in ³ fluid grease: 0,03 to 0,10 cm³ 0.0018 to 0.0061 in³ mineral and synthetic oil, 20 to 2 000 mm²/s, 0.031 to 3.100 in²/s fluid grease of NLGI 000, 00 0 to +80 °C; +32 to 176 °F min. 6 bar, 87 psi max. 80 bar, 1 160 psi max. 3 bar, 43.5 psi steel (galvanized, Cr6-free), stainless steel, nickel-plated brass, brass, copper, FKM (FPM)/ NBR pipe ø 6 to 10 mm, solderless pipe connection for threads G 1/8; G 1/4; M10 × 1 or M14 × 1,5 pipe ø 2,5 mm and ø 4 mm metering nipple (VS) with SKF Quick Connector, metering nipple (00) for solderless pipe connection min. 43,5 × 12 mm; 1.713 × 0.472 in max. 53 × 12 mm; 2.086 × 0.472 in anv



Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN

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341

Identification code			3	4	1	_	_		-		0	C) ()	0 -	0	0
Product series																
Design and metering quantity																
Design code	2	4		8		5		9		1		7		6	<	
Lubricant	Oil	Oil		Oil		Fluid	grease	Fluid gre	ase	Oil		Fluic	l grease	Oil		
ø Outlet [mm]	2,5	4		4		4		4		4		4		4		
Distributor body	Steel	Steel		Steel		Stee	l	Steel		Steel		Stee	l	Steel (1.4305)		
Metering nipple	Brass	Brass	5	Brass	5	Bras	s (n.p.)	Brass (n.	p.)	Brass		Bras	s (n.p.)	Steel (1.4305)		
Elastomer	NBR	NBR		KFM	(FPM)	NBR		FKM (FPI	м)	NBR		NBR		FKM (FPM)		
Threaded seal	FW ²⁾	FW 2)		FW 2))	FW ²)	Flat		0-ring	3)	0-rii	ng ³⁾	O-ring ³⁾		
Connection outlet	00	VS	00	VS	00	vs	00	00		VS	00	VS	00	00		
0,01 cm ^{3 1)} ep 0,02 cm ^{3 1)} 0,03 cm ³ 1,1,0 cm ³ 0,06 cm ³ 1,0 cm ³ 0,10 cm ³ 0,16 cm ³	1 - 2 3 4 5	1 - 2 3 4 5	1 6 2 3 4 5	1 - 2 3 4 5	1 6 2 3 4 5	- 2 3 4	- 2 3 4	- - 2 3 4 -		1 - 2 3 4 5	1 6 2 3 4 5	- 2 3 4	- 2 3 4	1 - 2 3 4 5	~	

Subsequent modification of the metering quantity is not technically possible.
 FW=Flat washer must be ordered separately. Order number: DIN7603-A8×11.5-CU
 O-ring is part of the shipment

Accessory

Manifold



Description

For 341 metering devices, VL-manifolds are utilized for one to six screw-in points with thread M8x1 mm for O-ring or flat (copper) washer sealing. Normal-profile manifolds are available in aluminum and stainless steel, while narrow-profile manifolds are offered in aluminum only.

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G1 = G1/8 per DIN 3852-2, Form X, small **G2** = G1/4 per DIN 3852-2, Form X, small M3 = M10x1 with counterbore for solderless pipe connection per DIN 3862 91

M4 = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (can only be selected for normal profile)



340





Description

Offered in two-, three- and five-port models, series 340 metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. These metering devices are designed for installation directly on the machine/system requiring lubrication. Series 340 metering devices can be ordered with fittings for the main line connection by selecting the appropriate order code.

Features and benefits

- Designed for installation directly on the machine/system requiring lubrication
- Select optional push-in or screw-in type metering nipples for feed line connections
- Choose optional push-in or screw-in type main line fittings
- Metering nipples above 0,03 cm³ are exchangeable to yield different output quantities

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry

Technical data

Function principle Outlets Metering guantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

Mounting position

metering device 2, 3 or 5 oil: 0.01 to 0.16 cm ³ 0.0006 to 0.0097 in ³ grease: 0,03 to 0,10 cm 3 0.0018 to 0.0061 in ³ mineral and synthetic oil, $20 \text{ to } 2\,000 \text{ mm}^{2}/\text{s}$ and fluid grease NLGI 000, 00 0 to +80 °C; +32 to +176 °F min. 6 bar, 87 psi max. 80 bar, 1 160 psi max. 3 bar, 43.5 psi zinc die-cast, brass (oil), nickel-plated brass (fluid grease), copper, steel, FKM (FPM)/NBR different fittings for pipe ø 6 to 10 mm or closure plugs for thread M10×1 pipe ø2,5 and ø 4 mm metering nipple (VS) with SKF quick connector, metering nipple (00) for solderless pipe connection min. 48 × 53 × 15 mm max. 99 × 58 × 15 mm min. 1.889 × 2.086 × 0.590 in max. 3.897 × 2.283 × 0.590 in anv



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Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN



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 $^{1)}$ Subsequent modification of the metering quantity is not technically possible. $^{2)}$ V = Metering quatity of 0,03 cm 3 , closed

Outlet ø

Accessory

Exchangeable metering nipples

Solderless pipe	Order	numbers	for solderle	ss pipe connect	on metering nipples					
connection	Outlet	ø	Elastomer	Lubricant	Order numbers sorted by metering quantity					
	mm	in			0,03 cm ³ 0.00183 in ³	0,06 cm ³ 0.00366 in ³	0,10 cm ³ 0.0061 in ³	0,16 cm ³ 0.0097 in ³		
J.	2,5	0.10	NBR	oil	995-994-003	995-994-006	995-994-010	995-994-016		
	4	0.16	NBR	oil	995-994-103	995-994-106	995-994-110	995-994-116		
	4	0.16	NBR	oil	341-453-K-58	341-456-K-58	341-460-K-58	341-466-K-58		
	4	0.16	NBR	fluid grease	341-853-K	341-856-K	341-860-K	-		





Order numbers for SKF Quick Connector metering nipples

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Elastomer Lubricant Order numbers sorted by metering quantity

in			0,03 cm ³ 0.00183 in ³	0,06 cm ³ 0.00366 in ³	0,10 cm ³ 0.0061 in ³	0,16 cm ³ 0.0097 in ³
0.16	NBR	oil	995-994-103-VS	995-994-106-VS	995-994-110-VS	995-994-116-VS
0.16 0.16	FKM NBR	oil fluid arease	341-453-58-VS 341-853-VS	341-456-58-VS 341-856-VS	341-460-58-VS 341-860-VS	341-466-58-VS -
	in 0.16 0.16 0.16	in 0.16 NBR 0.16 FKM 0.16 NBR	in 0.16 NBR oil 0.16 FKM oil 0.16 NBR fluid grease	in 0,03 cm ³ 0.00183 in ³ 0.16 NBR oil 995-994-103-VS 0.16 FKM oil 341-453-S8-VS 0.16 NBR fluid grease 341-853-VS	in 0,03 cm ³ 0,06 cm ³ 0.00183 in ³ 0.00366 in ³ 0.16 NBR oil 995-994-103-VS 995-994-106-VS 0.16 FKM oil 341-453-S8-VS 341-456-S8-VS 0.16 NBR fluid grease 341-853-VS 341-856-VS	in 0,03 cm ³ 0.00183 in ³ 0,06 cm ³ 0.00366 in ³ 0,10 cm ³ 0.0061 in ³ 0.16 NBR oil 995-994-103-VS 995-994-106-VS 995-994-110-VS 0.16 FKM oil 341-453-S8-VS 341-456-S8-VS 341-460-S8-VS 0.16 NBR fluid grease 341-853-VS 341-856-VS 341-860-VS

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<u>Metering devices for oil</u>

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LS22





Description

Developed for installation in manifolds, LS22 are single-port metering devices for oil and special lubricants. When used in combination with one- to five-port manifolds, these prelubrication metering devices provide flexible options for lubrication system design. Connections with or without (M8x1) a guick-release connector are offered for feed lines and connections with a quick-release connector are available for main line tubes.

Features and benefits

- For use with manifolds having one to five ports to match number of lubrication points
- Compatible with ø 4 mm for feed lines and ø 8 for main lines ٠
- Suitable for push-in or screw-in type fittings for dosers and push-in type fittings for manifolds
- Robust, reliable
- Suitable for up to 200 lubrication points •

Applications

- Conveyor chain surfaces and guides
- Food and beverage .
- Packaging

Order information

Order number	Outlet(s)
LS2210	1
LS2220	2
LS2230	3
LS2240	4
LS2250	5

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Function principle Outlets Metering guantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

Mounting position

metering device

0.010 to 0.160 cm³ 0.0006 to 0.0097 in ³ mineral and synthetic oil, 5 to 2 500 mm²/s; 0.007 to 3.875 in²/s or LDTS1 (dry film lubricant with synthetic oil and PTFE additions) 0 to +50 °C; +32 to +122 °F min. 12 bar; 174 psi max. 20 bar; 290 psi max. 3 bar; 43.5 psi stainless steel 303, FKM (FPM), high phosphorus FDA chem. nickel-plated brass push-in connectors for pipe ø 8 mm and thread G 1/4with or without push-in connectors for pipe ø 4 mm and thread M10x1 min. 89 × 68,5 × 20 mm max. 179 × 84 × 20 mm min. 3.5 × 2.67 × 0.8 in max. 7.0 × 3.3 × 0.8 in anv

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 15848 EN

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LS21





Developed for installation in manifolds, LS21 are single-port metering devices for oil and special lubricants. When used in combination with one- to five-port manifolds, these adjustable prelubrication metering devices provide flexible options for lubrication system design. Connections with or without (M8x1) a quick-release connector are offered for feed lines, and connections with a quick-release connector are available for main line tubes.

Features and benefits

- For use with manifolds having one to five ports to match number of lubrication points
- Compatible with ø 4 mm for feedlines and ø 8 for main lines
- Suitable for push-in type fittings for dosers and manifolds
- Robust, reliable
- Suitable for up to 200 lubrication points

Applications

- Conveyor chain surfaces and guides
- Food and beverage
- Packaging

Order information

Order number	Outlet(s)
LS2110	1
LS2120	2
LS2130	3
LS2140	4
LS2150	5

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Technical data

Function principle Outlets Metering quantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Working frequency Dimensions Adjustable metering device

adjustable 0.025 to 0.5 cm³ 0.0015 to 0.0305 in ³ mineral and synthetic oil, 5 to 2 500 mm²/s; 0.007 to 3.875 in²/s or LDTS1 (dry film lubricant with synthetic oil and PTFE additions) 0 to +50 °C; +32 to +122 °F min. 12 bar; 174 psi max. 20 bar; 290 psi max. 3 bar; 43.5 psi stainless steel 303, FKM (FPM), high phosphorus FDA chem. nickel-plated brass push-in connectors for pipe ø 8 mm and thread G 1/4 with or without push-in connectors for pipe ø 4 mm and thread M10x1 ≤1 stroke/2 s min. $89 \times 92 \times 20$ mm max. $179 \times 110 \times 20$ mm min. 3.5 × 3.622 × 0.8 in max. 7.0 × 4.330 × 0.8 in any

Mounting position

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: **15848 EN**

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Description

Designed for installation in manifolds, series 361 single-port, dynamic metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. When used in combination with one- to six-port manifolds, these metering devices provide flexible options for lubrication system design. Customized manifolds for series 361 metering devices are available in aluminum.

Features and benefits

- For use with manifolds having one to six ports to match number of lubrication points
- Designed for installation directly on the machine/ system requiring lubrication
- Select screw-in type distributor with feed line connections via order code
- Choose separately optional manifold models with . different thread sizes for main line connection

Applications

- Chain lubrication
- Transport and conveyor belts



Technical data

Function principle Outlets Metering guantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

Mounting position

metering device

oil and fluid grease: 0,01 to 0,20 cm³; 0.0006 to 0.012 in³ synthetic oil: 0,02 to 0,10 cm³; 0.001 to 0.006 in³ mineral and synthetic oil: 10 to 1 000 mm²/s, 0.015 to 1.55 in²/s fluid grease of NLGI 000, 00 0 to +80 °C; +32 to +176 °F min. 8 bar, 116 psi max. 80 bar, 1 160 psi max. 3 bar; 43.5 psi steel (galvanized, Cr6-free), (oil, grease), brass (oil), copper, flat washer (copper), NBR pipe ø 6 to 12 mm, 0.236 to 0.472 in; solderless pipe connection for threads $G \frac{1}{8}$; $G \frac{1}{4}$; $M 10 \times 1$ or $M 14 \times 1,5$ (DIN 3862) pipe ø 4 mm straight compression nut fitting min. 42 × 14 mm max. 46,5 × 14 mm min. 1.653 × 0.551 in max. 1.830 × 0.551 in anv



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361

Identification code	361-	00-	0000-00
Product series Number of metering points (1)			
Design and metering quantity			
Design code	1	2	<└
Lubricant	Oil, fluid grease	Oil	
ø Outlet [mm]	4	4	
Distributor body	Steel, galvanized	Brass	
Metering nipple	Steel, galvanized	Brass	
Elastomer	NBR	NBR	←
Connection outlet	00	00	<
0,01 cm ³ 4 drautid 4 drautid 4 drautid 9 0,02 cm ³ 0,05 cm ³ 0,20 cm ³ 0,20 cm ³	1 2 3 4 5 6	- 2 3 4 5 -	

Flat washer must be ordered separately. Order number: 504-019

Accessory

Manifold



Description

For 361 metering devices, VL-manifolds are utilized for one to six screw-in points with thread M10×1 mm for flat washer sealing. Various main line connections can be selected via order code.

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Identification code	-
T	
Product series	
Number of ports	
01 = 1 screw-in point 04 = 4 scre	w-in points
02 = 2 screw-in points 05 = 5 scre	w-in points
03 = 3 screw-in points 06 = 6 scre	w-in points
(other numbers of ports available on reques	t)
Design of metering device pipe thread	
$\mathbf{B} = \text{Normal profile} \text{M10} \times 1 \text{ with counterbore for}$	r flat washer or O-ring
Material	
A = Aluminum E = Stainless steel (1.4305) (can only be selected for normal profile)
Design of main line connection	
61 = $64/8$ per DIN 3852-2, Form X, small	M4 = M14x1,5 with counterbore for solde
bz = 64/4 per DIN 3852-2, Form X, small M2 = M10v1 with counterbare for colderlass nin	less pipe connection per DIN 3862 (can c
M^{3} – $M^{1}TOYT$ with confileration of a long of respectively.	



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connection per DIN 3862

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310

Description

various lubrication requirements.

Features and benefits



As the industry's first non-metallic metering device, SKF's Series 310

provides proven SKF reliability for a minimum of 400 000 lubrication

cycles. Developed for pre-lubrication applications using oil and fluid

grease, this metering device is simple to install utilizing plastic or

metallic lines and can be mounted in either an upright or inverted

position. It also features easily identiiable dosing elements to meet

• Suitable for use with plastic tubes or metal pipes

• Simple, lexible machine mounting in any position

• Provides precise metering of lubricant

2-, 3- or 5-port manifolds available Suitable for oil and fluid grease

Textile and wood industry

Printing machines

Color-coded dosing elements to identify lubricant volumes

has a unique appearance. However, its sleek, contemporary design



Technical data

Function principle Outlets Metering quantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials Connection main line Connection outlet Dimensions metering device 2, 3 or 5 0.03 to 0.16 cm³ 0.0018 to 0.0097 in ³ mineral and synthetic oil, 20 to 1 500 mm²/s fluid grease: NLGI 00 and 000 +5 to +50 °C; +41 to +122 °F min. 12 bar, *174 psi* max. 38 bar, 551 psi max. 3 bar; 43.5 psi high-performance PA66 resin fittings for ø 6 mm lines fittings for ø 4 mm lines min. 68 × 70 × 20,5 mm max. 119 × 70 × 20,5 mm min. 2.67 × 2.75 × 8.07 in max. 4.68 × 2.75 × 8.07 in anv

Mounting position

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: **17505 EN**

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ApplicationsMachine tools

Conveyors



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310

Identification code	31	- 8	0 0		_		_		- 0 0
Product series Number of metering points 2 = 2 outlets 3 = 3 outlets 5 = 5 outlets									
Elastomer 8 = Elastomer (FPM) Metering guantity				Outlet 1	Outlet 2	Outlet 3 1)	Outlet 4 2)	Outlet 5 ²⁾	
0 = no outlet 2 = blue; 0,03 cm ³ ; 0.0018 in ³ 3 = white; 0,06 cm ³ ; 0.0036 in ³ 4 = grey; 0,10 cm ³ ; 0.0061 in ³ 5 = black; 0,16 cm ³ ; 0.0097 in ³ Y = grey; closed; blind plug					I				
Connection main line									

 \mathbf{Y} = closed (with #898-210-001)

Not available for 2-outlet manifold 312 = 0
 Not available for 2- and 3-outlet manifold 312 = 0; 313 = 0

Accessory

End-of-line plug



End-of-line plug	
Order number	Description
898-210-001	End-of-main-line plug

Description

End-of-line plug suitable to plug main line outlet of 310 metering device to close the lubrication system. The red colour singalizes the end of the lubrication system.



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Description

Designed for installation in manifolds, series 351 single-port, prelubrication metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. When used in combination with one- to six-port manifolds, these metering devices provide flexible options for lubrication system design. Customized manifolds for series 351 metering devices are available in aluminum and stainless steel.

Features and benefits

- For use with manifolds having one to six ports to match number of lubrication points
- Provides flexible options for systems with remote single lubrication points or multiple-port metering devices with up to six ports
- Select optional push-in or screw-in type nipples for feed line connections
- Choose separately manifold models with different thread sizes for main line connection and materials
- Current metering nipples are exchangeable to yield different output quantities

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry



Technical data

 Function principle
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 Outlets
 1

 Metering quantity
 oil: 0,0

 Metering quantity
 oil: 0,0

 Lubricant
 minera

 Operating temperature
 0 to +8

 Operating pressure
 min. 6

 Materials
 alumir

Connection main line

Connection outlet

Dimensions

Mounting position

metering device oil: 0.05 to 0.60 cm³ 0.0030 to 0.0366 in ³ fluid grease: 0,10 to 0,60 cm³ 0.0061 to 0.0366 in³ mineral and synthetic oil, 20 to 2 000 mm²/s and fluid grease NLGI 000, 00 0 to +80 °C; +32 to +176 °F min. 6 bar, 87 psi max. 80 bar, 1 160 psi max. 3 bar, 43.5 psi aluminum, stainless steel, brass (oil), nickel-plated brass (grease), flat washer (copper, stainless steel), FKM (FPM)/NBR pipe ø 6 to 12 mm solderless pipe connection for threads G 1/8; G 1/4; M10×1 or M14×1,5 (DIN 3862) pipe ø 4 mm metering nipple (VS) with SKF Quick Connector - metering nipple (00) for solderless pipe connection min. 43,5 × 12 mm; 1.713 × 0.472 in max. 53 × 12 mm; 2.086 × 0.472 in



Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: **1-5001-EN**

any

1-5001-6

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HENNLICH ŽIJEME TECHNIKOU

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

100

351

Identification code		3	5 1 -			0	0 0	0 - 0	0 C	
Product series										
Design and meterir	ng quantity									
Design code	0	8	4	1	7	2	3	6	<	
Lubricant	Oil	Oil	Oil	Fluid grease	Fluid grease	Oil	Fluid grease	Oil		
ø Outlet [mm]	4	4	4	4	4	4	4	4		

Aluminum

Brass (n.p.)

00

4

5

6

7

NBR

FW 1)

٧S

4

5

6

Aluminum

Brass (n.p.)

FKM (FPM)

FW 1)

VS

4

5

6

_

_

Aluminum

Brass

NBR

٧S

6 7

00

4 4

5 5

6

_

0-rina 3)

00

4 4

5

6 7

Aluminum

Brass (n.p.)

NBR

٧S 00

5 5

6 6

_ _

_ _

0-rina 3)

4

Steel (1.4305)

Steel (1.4305)

FKM (FPM)

0-ring 3)

00

4

5

6 7

Metering Met 6 7 7 7 7 7

FW=Flat washer must be ordered separately. Order number: 504-019
 Stainless steel ring must be ordered separately. Order number: 99-1031-7603
 O-ring is part of the shipment

Aluminum

Brass

NBR

FW 1)

٧S

3

4

5

6

Aluminum

FKM (FPM) FKM (FPM)

00

4

5

6

00

3

4

5

6

Brass

FW 1)

٧S

4

00

3 3

4

5 5

6

Steel (1.4305)

Steel (1.4305)

Steel (1.4305)²⁾

Distributor body

Metering nipple

Threaded seal

Connection outlet

0,05 cm 3

0,10 cm³

0,20 cm³

Elastomer

code

Accessory

Manifold



Description

For 351 metering devices, VL-manifolds are utilized for one to six screw-in points with thread M10×1 mm for O-ring or flat (copper) washer sealing. Various main line connections can be selected via order code.



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350



Description

Designed for installation directly on the machine/system requiring lubrication, series 350 single-line, prelubrication metering devices are available in two-, three- and five-port models. These metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. Series 350 metering devices can be ordered with fittings for the main line connection by selecting the appropriate order code.

Features and benefits

- For use with distributor bodies having two, three and five ports to match number of lubrication points
- Designed for installation directly on the machine/system requiring lubrication
- Select push-in or screw-in type metering nipples for feed line connection with metering device bodies
- Choose push-in or screw-in type main line fittings with metering device bodies
- Current metering nipples above 0,03 cm³ are exchangeable to yield different output quantities

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry
- Agriculture



Technical data

Function principle Outlets Metering guantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

Mounting position

metering device 2, 3 or 5 oil: 0.05 to 0.60 cm³ 0.003 to 0.037 in 3 grease: 0.10 to 0.30 cm³ 0.0061 to 0.0183 in ³ mineral and synthetic oil, 20 to 2 000 mm²/s and fluid grease NLGI 000, 00 0 to +80 °C; +32 to +176 °F min. 6 bar, 87 psi max. 80 bar, 1 160 psi max. 3 bar, 43.5 psi zinc die-cast, brass (oil), nickel-plated brass (fluid grease), copper, steel, FKM (FPM)/NBR different fittings for pipe ø 6 to 10 mm; 0.236 to 0.393 in or closure plugs for thread M 12×1 pipe ø 4 mm metering nipple (VS) with SKF Quick Connector - metering nipple (00) for solderless pipe connection min. 46 × 83 × 18 mm max. 97 × 86 × 18 mm min. 1.811 × 3.267 × 0.708 in max. 3.818 × 3.385 × 0.708 in anv



Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN

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350



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Accessory

Exchangeable metering nipples

Order numbers for metering nipples for oil (replaceable) Outlet ø Material Metering Metering quantity elastomer nipple 0,05 cm³ 0,10 cm ³ 0,20 cm³ 0,40 cm³ in 0.003 in ³ 0.006 in ³ 0.012 in ³ 0.024 in ³ mm 4 0.16 NBR 00 352-005-K 352-010-K 352-020-K 352-040-K VS 352-005-VS 352-010-VS 352-020-VS 352-040-VS 4 0.16 NBR

352-005-K-S8

o.z. HENNLICH CEMA-TECH,

Dolní 183/30, 591 01 Žďár nad Sázavou

352-005-S8-VS

Order numbers for metering nipples for fluid grease (replaceable)

00

VS

FKM (FPM)

FKM (FPM)

Outlet	Ø	Material elastomer	Metering nipple	Metering quantity			
mm	in			0,10 cm ³ 0.006 in ³	0,20 cm ³ 0.012 in ³	0,30 cm ³ 0.018 in ³	0,60 cm ³ 0.036 in ³
4 4 4 4	0.16 0.16 0.16 0.16	NBR NBR FKM (FPM) FKM (FPM)	00 VS 00 VS	995-993-610 995-993-610-VS 352-010-K-S82 352-010-S82-VS	995-993-620 995-993-620-VS 352-020-K-S82 352-020-S82-VS	995-993-630 995-993-630-VS 352-030-K-S82 352-030-S82-VS	995-993-660 - - -

352-010-K-S8

352-010-S8-VS

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4

4

0.16

0.16



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352-020-K-S8

352-020-S8-VS

0,60 cm³

0.036 in ³

352-040-K-S8

352-040-S8-VS

352-060-K

352-060-VS

352-060-K-S8

352-060-S8-VS

370



Description

Series 370 relubrication metering devices were developed for use with single-line, centralized lubrication systems for oil. Designed for installation directly on the machine/system requiring lubrication, these metering devices are available in two-, three- and five-port models. Series 370 metering devices can be ordered with fittings for the main line connection by selecting the appropriate order code.

Features and benefits

- For use with distributor bodies having two, three and five ports to match number of lubrication points
- Designed for installation directly on the machine/ system requiring lubrication
- Choose optional metering nipples and push-in or screw-in type fittings for feed line connections
- Select SKF Quick Connector or screw-in type main line fittings
- Current metering nipples are easily exchangeable to yield different output quantities

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry



Technical data

Function principle Outlets Metering quantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials Connection main line

Connection outlet

Dimensions

metering device 2, 3 or 5 0.05 to 1.50 cm³ 0.003 to 0.091 in ³ mineral and synthetic oil 20 to 2 000 mm²/s 0.031 to 3.100 in 2/s -20 to +80 °C; -4 to +176 °F min. 20 bar; 290 psi max. 80 bar; 1 160 psi ≤1 bar, 14.5 psi zinc die-cast, brass, copper, steel, NBR different fittings for pipe ø 6 to 12 mm; 0.236 to 0.472 in or closure plugs for thread M12×1 pipe ø 4 mm; 0.16 in – metering nipple (VS) with SKF Quick Connector – metering nipple (00) for solderless pipe connection (DIN 3862) min. 37 × 75 × 50,5 mm max. 88 × 75 × 56,5 mm min. 1.456 × 2.952 × 1.988 in max. 3.464 × 2.952 × 2.224 in anv

Mounting position

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: **1-5001-EN**

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370

Identification code	3 7 – 2						_	-	0	0
Product series Number of metering points 2 = 2 outlets 3 = 3 outlets 5 = 5 outlets Lubrication line fitting 00 = Solderless pipe connection VS = SKF Quick Connector Metering quantity			Metering point 1	Metering point 2	Metering point 3 (0 = not present, on VN2)	Metering point 4 (0 = not present, on VN2)	Metering point 5 (0 = not present, on VN2)			
3 = 0,05 cm ³ , 0.0030 in ³ 4 = 0,10 cm ³ , 0.0061 in ³ 5 = 0,20 cm ³ , 0.0122 in ³ 6 = 0,40 cm ³ , 0.0244 in ³ Fittings for main line connection B = Solderless pipe connection Ø 6 m C = Solderless pipe connection Ø 8 m D = Solderless pipe connection Ø 10	7 = 0,60 cm ³ , 0.0366 in ³ 8 = 1,00 cm ³ , 0.0610 in ³ 9 = 1,50 cm ³ , 0.0915 in ³ mm, 0.23 in. mm, 0.31 in. mm, 0.39 in.	P = Strai R = Stra S = Stra	ght adapter wi ght adapter wi ght adapter wi	ith EO- ith EO- ith SKF	2 functi 2 functi Quick (ional nu ional nu	it ø 10 mi it ø 12 mi ior ø 6 mr	m, 0.39 i m, 0.47 i n, 0.23 i	n. 1. n.	

- \mathbf{F} = Banjo fitting DIN 3862 with flat washer, lockable ø 8 mm, 0.31 in.

Accessory

Exchangeable metering nipples



SKF Quick Connector



Order numbers for metering nipples* (replaceable)

Outlet ø Elastomer Metering quantity

mm	in		0,05 cm ³ 0.003 in ³	0,10 cm ³ 0.006 in ³	0,20 cm ³ 0.012 in ³	0,40 cm ³ 0.024 in ³	0,60 cm ³ 0.036 in ³	1,00 cm ³ 0.061 in ³	1,50 cm ³ 0.092 in ³
4	0.157	NBR	V72-005	V71-010	V71-020	V71-040	V71-060	V71-100	V71-150

* Metering nipples are made of brass.

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Dolní 183/30, 591 01 Žďár nad Sázavou



Description

Series 391 single-port prelubrication metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. Designed for installation in manifolds, these metering devices provide flexible system design when combined with oneto six-port manifolds. Customized manifolds for series 391 are available in aluminum.

Features and benefits

- For use with manifolds having one to six ports to match number of lubrication points
- Provides flexible options for systems with remote single lubrication points or multiple-port metering devices with up to six ports
- Select screw-in type metering nipples with ٠ feed line connections via order code
- Choose separately manifold models with different thread sizes for main line connection
- Current metering nipples are exchangeable to yield different output quantities

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry



Technical data

Function principle Outlets Metering guantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

Mounting position

metering device oil: 0,2 to 1,5 cm³; 0.01 to 0.09 in³ fluid grease: 0,1 to 0,3 cm³

0.006 to 0.02 in 3 mineral and synthetic oil, 20 to 2 000 mm²/s, fluid grease NLGI 000, 00 0 to +80 °C; +32 to +176 °F min. 8 bar, 116 psi max. 45 bar, 653 psi max. 7 bar; 1 01.5 psi aluminum, brass (oil), nickel-plated brass (fluid grease), copper, FKM (FPM)/NBR pipe ø 6 to 12 mm 0.236 to 0.472 in solderless pipe connection for threads G 1/8; G 1/4; M10×1 or M14×1,5 (DIN 3862) pipe ø 4 mm; 0.16 in - metering nipple (00) for solderless pipe connection min. 67,5 × 22 mm max. 78,5 × 22 mm min. 2.657 × 0.866 in max. 3.091 × 0.866 in anv



Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN

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391

Identification code	39	1	0 0 -	0 0	0 0	- 0 0
Product series Number of metering point						
Design and metering quar	ntity					
Design code	0	8	1	<		
Lubricant	Oil	Oil	Fluid grease			
ø Outlet [mm]	4	4	4			
Distributor body	Aluminum	Aluminum	Aluminum			
Metering nipple	Brass	Brass	Brass, nickel-plated			
Elastomer	NBR	FKM (FPM)	NBR	←		
Threaded seal	Flat washer*	Flat washer*	Flat washer*	←		
Connection outlet	00	00	00			
0,10 cm ³ 0,20 cm ³ 0,30 cm ³ 0,40 cm ³ 0,60 cm ³ 1,00 cm ³ 1,50 cm ³	- 5 - 6 7 8 9	- 5 - 6 7 8 9	4 5 6 - - - -			

* Flat washer must be ordered separately. Order number: DIN7603-A14x18-CU

Accessory

Manifold



Description

For 391 metering devices, VL-manifolds are utilized for one to six screw-in points with thread M14×1,5 mm for flat (copper) washer sealing. Various main line connections can be selected via order code.



61 = 61/8 per DIN 3852-2, Form X, small 62 = 61/4 per DIN 3852-2, Form X, small M3 = M10x1 with counterbore for solderless pipe connection per DIN 3862

M4 = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (can only be selected for normal profile)

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390



Description

Series 390 prelubrication metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. Designed for installation directly on the machine/system requiring lubrication, these metering devices can be ordered with fittings for the main line connection by selecting the appropriate order code.

Features and benefits

- For use with distributor bodies having two or three ports to match number of lubrication points
- Designed for installation directly on the machine/ system requiring lubrication
- Select screw-in type metering nipples for feed line connections
- Choose push-in or screw-in type main line fittings
- Current metering nipples are exchangeable to yield different output quantities

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry



Technical data

Function principle Outlets Metering quantity

Lubricant

Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

metering device 2 or 3 oil: 0,2 to 1,5 cm³ 0.01 to 0.915 in³ fluid grease: 0,1 to 0,3 cm³ 0.006 to 0.0183 in³

mineral and synthetic oil 20 to 2 000 mm²/s 0.031 to 3.100 in 2/s fluid grease of NLGI 000, 00 0 to +80 °C; +32 to +176 °F min. 8 bar, *116 psi* max. 45 bar, 653 psi max. 7 bar, 1 01.5 psi zinc die-cast, brass (oil), nickel-plated brass (fluid grease), copper, steel, FKM (FPM)/NBR different fittings for pipe ø 6 to 12 mm; 0.236 to 0.472 in or closure plugs for thread M12×1 pipe ø 4 mm; 0.16 in - metering nipple (00) for solderless pipe connection (DIN 3862) min. 50 × 89 × 23 mm max. 71 × 89 × 23 mm min. 1.968 × 3.503 × 0.905 in max. 5.393 × 3.503 × 0.905 in anv



Mounting position

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: **1-5001-EN**

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390



Accessory

Exchangeable metering nipples

Order	numbers	for metering	nipples for oil	(replaceable)				
Outlet	Ø	Material elastomer	Metering nipple	Metering quantity				
mm	in			0,2 cm ³ 0.012 in ³	0,4 cm ³ 0.024 in ³	0,6 cm ³ 0.036 in ³	1,0 cm ³ 0.061 in ³	1,5 cm ³ 0.092 in ³
4 4	0.16 0.16	NBR FKM (FPM)	brass brass	391-020-К 391-020-К-58	391-040-К 391-040-К-S8	391-060-К 391-060-К-S8	391-100-К 391-100-К-S8	391-150-K 391-150-K-S8

Order n	umbers fo	Order numbers for metering nipples for fluid grease (replaceable)										
Outlet ø		Material elastomer	Metering nipple	Metering quantity	Metering quantity							
mm	in			0,10 cm ³ 0.006 in ³	0,20 cm ³ 0.012 in ³	0,30 cm ³ 0.018 in ³						
4	0.16	NBR	brass, nickel-plated	391-010-K-S1	391-020-K-S1	391-030-K-S1						

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<u>Metering devices for oil</u>



321 G, T, W, G4, Module, G7





G









Description

Series 321 single-port prelubrication metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. These metering devices are designed for installation directly in a lubrication point, which eliminates feeding lubricant via a lubrication point line, as well as the lubrication line at the lubrication point. This can be beneficial where space is limited. Choose from six types to meet application requirements.

Features and benefits

- Specially designed, single-port metering device for prelubrication
- For direct connection to the main line
- No separate lubrication line and fittings are necessary
- Screw-in type can be monitored by a pressure switch in the main line; suitable for feed line ø 4 mm (oil) and ø 6 mm (fluid grease)

Applications

- Machine tools
- Printing machines .
- · Packaging industry
- Textile industry

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN

3D

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Technical data

Function principle	metering device
Metering quantity	Model G, G4, T, W, Modular: 0,01 to 0,10 cm ³ ; 0.0006 to 0.006 in ³ Model G7: 0,01 to 0,3 cm ³ 0.0006 to 0.01 to 0,3 cm ³
Lubricant	mineral and synthetic oil, 20 to 2 000 mm ² /s, 0.031 to 3.100 in ² / fluid grease of NI GL000, 00 0
Operating temperature Operating pressure	0 to +80 °C; +32 to +176 °F min. 12 bar, 174 psi max. 45 bar, 653 psi
Relief pressure Materials	max. 3 bar, <i>max.</i> 43.5 psi steel (galvanized, Cr6-free) or brass, NBR . G7 FKM (FPM)
Connection main line	different fittings for pipe \emptyset 6 to 10 mm; 0.236 to 0.393 in or closure plugs for thread M 10×1
Connection outlet	pipe Ø 4 and Ø 6 mm; 0.157 to 0.236 in - straight compression nut fitting - colderloss pipe upipe (DIN 3862)
Dimensions: 321 G	length: 50 mm; 1.968 in 0: 16,2 mm; 0.638 in wranch size 1/
Dimensions: 321 W	length: 46 mm; 1.811 in width: 26 mm; 1.023 in o: 11,5 mm; 0.453 in wranch cira 10 mm
Dimensions: 321 G4	length: 40,5 mm; <i>1.594 in</i> ø: 19,6 mm; <i>0.771 in</i> wronch size 17 mm
Dimensions: 321 T	length: 43 mm; 1.692 in width: 61 mm; 2.401 in ø: 16,2 mm; 0.638 in wrench size 14 mm
Dimensions: 321 Module	ø: 30 mm; <i>1.181 in</i> height or thickness: 11 mm: 0 433 in
Dimensions: 321 G7 small	length: 30 mm; <i>1.181 in</i> ø: 10.3 mm; <i>0.405 in</i>
Dimensions: 321 G7 large	length: 50 mm; <i>1.968 in</i> ø: 13.5 mm; <i>0.531 in</i>
Mounting position	any

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321 G, T, W, G4, Module, G7

Order informati	on								
Order number			Outlet	Ø	Lubrica	Lubricant		g quantity	Pipe thread of lubrication point line
321 G	321 T	321 W			Oil	Fluid grease			
			mm	in			cm ³	in ³	
321-40161 321-40162 321-40163	- 321-401T2 -	_ 321-401W2 _	4 4 4	0.157 0.157 0.157	• •	- - -	0,01 0,01 0,01	0.0006 0.0006 0.0006	M8×1 taper M10×1 taper R 1/8 taper
321-40361 321-40362 321-40363	321-403T1 321-403T2 321-403T3	321-403W1 321-403W2 321-403W3	4 4 4	0.157 0.157 0.157	• •	- - -	0,03 0,03 0,03	0.0018 0.0018 0.0018	M8×1 taper M10×1 taper R 1/8 taper
321-406G1 321-406G2 321-406G3	321-406T1 321-406T2 321-406T3	321-406W1 321-406W2 321-406W3	4 4 4	0.157 0.157 0.157	• •	- - -	0,06 0,06 0,06	0.0036 0.0036 0.0036	M8×1 taper M10×1 taper R 1/8 taper
321-410G1 321-410G2 321-410G3	321-410T1 321-410T2 321-410T3	321-410W1 321-410W2 321-410W3	4 4 4	0.157 0.157 0.157	• •	- - -	0,10 0,10 0,10	0.0061 0.0061 0.0061	M8×1 taper M10×1 taper R 1/8 taper
321-60161 321-60162 -	- 321-601T2 321-601T3	321-601W1 321-601W2 321-601W3	6 6 6	0.236 0.236 0.236	•	•	0,01 0,01 0,01	0.0006 0.0006 0.0006	M8×1 taper M10×1 taper R 1/8 taper
321-60361 321-60362 321-60363	321-603T1 321-603T2 321-603T3	321-603W1 321-603W2 321-603W3	6 6 6	0.236 0.236 0.236	• • •	• •	0,03 0,03 0,03	0.0018 0.0018 0.0018	M8×1 taper M10×1 taper R 1/8 taper
321-60661 321-60662 321-60663	- 321-606T2 321-606T3	321-606W1 321-606W2 321-606W3	6 6 6	0.236 0.236 0.236	• •	• •	0,06 0,06 0,06	0.0036 0.0036 0.0036	M8×1 taper M10×1 taper R 1/8 taper
321-61061 321-61062 321-61063	321-610T1 321-610T2 321-610T3	321-610W1 321-610W2 321-610W3	6 6 6	0.236 0.236 0.236	•	• •	0,10 0,10 0,10	0.0061 0.0061 0.0061	M8×1 taper M10×1 taper R 1/8 taper

* Designs G, T, W elastomer material NBR

Order numbers 3 Order number	321 G4, Module, G	57		Outlet ø		Lubricant		Metering quantity		
321 G4	321 Module	321 G7 small	321 G7 large			Oil	Fluid grease			
				mm	in			cm ³	in ³	
- 321-403G4 -	321-101 321-103 -	321-401G7 321-403G7 321-403G7-58		4 4 4	0.157 0.157 0.157	•	• •	0,01 0,03 0,03	0.0006 0.0018 0.0018	
321-406G4 -	321-106 -	321-406G7 321-406G7-S8	-	4 4	0.157 0.157	•	•	0,06 0,06	0.0036 0.0036	
321-410G4 -	-	321-410G7 321-410G7-58	321-610G7 -	4 4	0.157 0.157	•	•	0,10 0,10	0.0061 0.0061	
- -	- -	- -	321-616G7 321-620G7 321-630G7	6 6 6	0.236 0.236 0.236	• •	•	0,16 0,20 0,30	0.0098 0.0122 0.0180	





Designed for installation in manifolds, series AB single-port, prelubrication metering devices were developed for use with single-line, centralized lubrication systems for oil and fluid grease. When combined with one- to six-port manifolds, these metering devices provide flexibility in lubrication system design. The metering device body is available in steel and stainless steel versions with copper or stainless steel sealing rings.

Features and benefits

- For use with manifolds having one to six ports to match number of lubrication points
- Provides flexible options for systems with remote single lubrication points or multiple-port metering devices with up to six ports
- Virtually maintenance-free
- Select screw-in type metering device for feed line ٠ connection via order code
- Choose separately manifold models with different thread sizes for main line connection and materials

Applications

- Machine tools
- Printing machines
- Packaging industry
- Textile industry



Technical data

Function principle	metering device
Metering quantity	0,01 to 0,60 cm ³ , 0.0006 to 0.04 in ³
Lubricant	mineral and synthetic oil,
	20 to 2 000 mm ² /s, 0.031 to 3.100 in ² /s,
Operating temperature	11010 grease of NLG1000, 00 0 to + 80 °C + 32 to + 176 °F
Operating temperature	min 18 har 260 nsi
operating pressure	max 50 har 725 <i>nsi</i>
Relief pressure	max. 3 bar, 43.5 psi
Materials	steel (galvanized, Cr6-free), stainless
	steel, copper, steel, flat washer (copper,
	stainless steel), FKM (FPM)
Connection main line	pipe ø 6 to 10 mm; 0.236 or 0.393 in;
	solderless pipe connection for threads C_1/w C_1/w M_1/w A_2
	(DIN 3862)
Connection outlet	Connection outlet: pipe ø 4 mm: 0.16 in.
	straight compression nut fitting
Dimensions	min. 43 × 14 mm
	max. 82,5 × 14 mm
	min. 1.692 × 0.551 in
NA 11 11	max. 1.228 × 0.551 in
Mounting position	any



Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN

3D

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AB



Metering quantity

Lubricant

01 = 0,01 cm ³ , 0.0006 in ³
02 = 0,02 cm ³ , 0.0012 in ³
03 = 0,03 cm ³ , 0.0018 in ³
$05 = 0.05 \text{ cm}^3$, 0.0030 in ³
10 = 0,10 cm ³ , 0.0061 in ³
20 = 0,20 cm ³ , 0.0122 in ³
40 = 0,40 cm ³ , 0.0244 in ³
$60 = 0.60 \text{ cm}^3$. 0.0366 in ³

Accessory

Manifold



Description

For series AB metering devices, VL-manifolds are utilized for one to six screw-in points with thread M 10x1 mm for flat (copper) washer sealing. Normal-profile manifolds are available in aluminum or stainless steel, while narrow-profile manifolds are offered only in aluminum. Various main line connections can be selected via order code.



M3 = M10x1 with counterbore for solderless pipe connection per DIN 3862

- M4 = M14x1,5 with counterbore for solderless pipe connection per DIN 3862
 - (can only be selected for normal profile)

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VN





metering device

Description

Developed for use with single-line, centralized lubrication systems for fluid grease, series VN relubrication metering devices are offered with two, four or six ports. These metering devices were designed for installation directly on the vehicle or construction machine requiring lubrication. Series VN metering devices can be ordered with fittings for the main line connection via the appropriate order code.

Features and benefits

- Choose metering device with two, four or six points to match number of lubrication points
- Designed for installation directly on the vehicle/machine requiring lubrication
- Select metering nipples and push-in or screw-in type fittings for feed line or main line connections
- Easy metering adjustment by replacing metering nipples
- Black-coloured surface for optimized corrosion protection

Applications

- Commercial vehicles
- Construction machinery

Technical data

Function principle Outlets Metering guantity

Lubricant Operating temperature Operating pressure

Relief pressure Materials

Connection main line

Connection outlet

Dimensions

2,4 or 6 0.05 to 1.00 cm³ 0.003 to 0.061 in ³ fluid grease of NLGI 000, 00 -25 to +80 °C; -13 to +176 °F min. 20 bar; 290 psi max. 80 bar; 1 160 psi ≤1 bar, *≤*14.5 psi zinc die-cast, brass, steel, flat washer (copper), NBR different fittings for pipe ø 6 to 10 mm; 0.236 to 0.393 in or closure plugs for thread M8x1 pipe ø 4 mm metering nipple (VS) with SKF Quick Connector - metering nipple (00) for solderless pipe connection min. $62 \times 83,5 \times 52$ mm max. $130,5 \times 83,5 \times 58$ mm min. 2.440 × 3.287 × 2.047 in max. 5.118 × 3.287 × 2.283 in any

Mounting position

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN

3D

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VN

Identification code							-	
Product series Number of metering points 2 = 2 outlets 4 = 4 outlets 6 = 6 outlets Lubrication line fitting 00 = Solderless pipe connection VS = SKF Quick Connector Metering quantity	Metering point 1	Metering point 2	Metering point 3 (0 = not present, on VN2)	Metering point 4 (0 = not present, on VN2)	Metering point 5 (0 = not present, on VN2/4)	Metering point 6 (0 = not present, on VN2/4)		
$1 = 0.05 \text{ cm}^3, 0.003 \text{ in}^3$ $5 = 0.40 \text{ cm}^3, 0.024 \text{ in}^3$ $2 = 0.10 \text{ cm}^3, 0.006 \text{ in}^3$ $6 = 0.60 \text{ cm}^3, 0.036 \text{ in}^3$ $3 = 0.20 \text{ cm}^3, 0.012 \text{ in}^3$ $7 = 1.00 \text{ cm}^3, 0.061 \text{ in}^3$ $4 = 0.30 \text{ cm}^3, 0.018 \text{ in}^3$ $7 = 3.00 \text{ cm}^3, 0.061 \text{ in}^3$ Fittings for main line connection $A = \text{Solderless pipe connection } \emptyset \text{ mm}, 0.315 \text{ in}$								

H = Screw plug with flat washer S = SKF Quick Connector ø 10 mm, 0.01 in Z = Without fitting

Accessory

Exchangeable metering nipples







Outlet ø Elastomer Metering quantity

mm	in		0,05 cm ³ 0.003 in ³	0,10 cm ³ 0.006 in ³	0,20 cm ³ 0.012 in ³	0,30 cm ³ 0.018 in ³	0,40 cm ³ 0.024 in ³	0,60 cm ³ 0.036 in ³	1,00 cm ³ 0.061 in ³
4	0.16	NBR	VKU005-K	VKU010-K	VKU020-K	VKU030-K	VKU040-K	VKU060-K	VKU100-K

* Metering nipples are made of brass.

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OI-AL-SR



Description

Developed for use in single-line, centralized lubrication systems, series OI-AL-SR single-port, prelubrication metering devices (cartridges) feature an integrated control pin and are designed for installation in manifolds or in base plates with up to 40 lubrication points. Three cartridge models with different fixed metering guantities provide flexible lubrication system design. Reduced feeding of main lines and feed lines in machines/systems saves on materials and installation costs.

Features and benefits

- Screw-in type, single-port metering device with cartridges for prelubrication
- For use with manifolds having one to eight ports or with base plates with up to 40 ports to match number of lubrication points
- Suitable for many lubrication points in constricted rooms
- All main line and feed line connections are located • internally in the manifolds or base plates
- Simplifies installation, control function and replacement by use of one unit

Applications

Glass industry



Technical data

Function principle Outlets Metering guantity

Lubricant

Operating temperature Operating pressure

Relief pressure Material cartridge Material manifold Material base plate

Connection main line

Connection outlet

Dimensions

Mounting position

metering device

0.02: 0.05: 0.10 cm³: 0.001; 0.003; 0.006 in ³ mineral and synthetic oil, 22 to 1 000 mm²/s, 0.034 to 1.55 in²/s, fluid grease of NLGI 000, 00 +5 to 120 °C; +41 to 248 °F min. 30 bar; 435 psi max. 100 bar; 1 450 psi max. 5 bar; 72.5 psi aluminum AlCuMgPb F37 DIN 1796 AlMgSi1 F28-32 or AlCuMg1 F28 FKM (FPM) SKF Quick Connector or solderless pipe connection for thread G 1/8 (F) SKF Quick Connector or solderless pipe connection for thread G 1/8 (F) min. $120 \times 35 \times 105$ mm max. 300 × 35 × 105 mm min. 4.72 × 1.38 × 4.13 in max. 11.81 × 1.38 × 4.13 in anv



NOTE

3D

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 951-231-001

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OI-AL-SR

Order information

Order number	Number of outlets	Meter Outlet	ing quan t 1	tity Outlet	t 2	Outlet	t3	Outle	t 4	Outlet	t 5	Outle	t 6	Outle	t 7	Outle	et 8
		cm ³	in ³	cm ³	in ³	cm ³	in ³	cm ³	in ³	cm ³	in ³	cm ³	in ³	cm ³	in ³	cm ³	in ³
647-41151-2 647-41152-2 647-41152-4 647-41153-2 647-41153-2 647-41154-5 647-41154-5 647-41154-6 647-41155-2 647-41155-2	2 3 3 4 5 5 5 5 6 8	0,02 0,02 0,10 0,05 0,02 0,02 0,02 0,05 0,10 0,05	0.001 0.001 0.006 0.003 0.001 0.001 0.001 0.003 0.006 0.003	0,02 0,05 0,05 0,05 0,02 0,05 0,05 0,05	0.001 0.003 0.003 0.001 0.001 0.003 0.003 0.003 0.003	- 0,02 0,05 0,05 0,02 0,05 0,05 0,05 0,05	- 0.001 0.003 0.003 0.001 0.001 0.003 0.003 0.003 0.003	- - 0,02 0,02 0,05 0,05 0,05 0,05	- - 0.001 0.003 0.003 0.003 0.003 0.003	- - 0,02 - 0,05 - 0,05 0,02	- - 0.001 - 0.003 - 0.003 0.001	- - - - - 0,05 0,02	- - - - - - 0.003 0.001	- - - - - - - - - 0,02	- - - - - - - - - - 0.001	- - - - - - - - -	

Accessories

Cartridges, manifolds and base plates



Metering quantity

0,02 cm³/stroke

0,05 cm³/stroke 0,10 cm³/stroke

Manifold		

Number of ports

234568

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	Baseplates	
	Order number	Number of ports
	447-71899-1	40

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Cartridges

Order number

547-33924-1

547-33925-1 547-33926-1 Manifolds

Order number

447-71901-1

447-71902-1 447-71903-1

447-71904-1 447-71905-1 447-71906-1

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Description

Series SL-42 metering devices were developed for single-line, centralized lubrication systems dispensing oil or fluid grease. Lubricant output is externally adjustable, and the indicator stem permits a visual check of metering device operation. These carbon steel metering devices are available with nitrile or fluoroelastomer packings. Metering devices with fluoroelastomer packings (indicated by black adjustment caps) are used for applications requiring heat resistance or when a lubricant requires it for compatibility.

Features and benefits

- Screw-in type, single-port metering device for prelubrication affixed by adapter bolts
- Suitable for use with manifolds having one to 15 ports to match number of lubrication points
- Output is externally adjustable
- Indicator stem permits visual check of metering device operation
- May be combined in a circuit with SL-41, SL-43 and/or SL-44 metering devices
- Individual metering devices can be removed easily for inspection or replacement

Applications

- Paper converting
- Plastic processing
- Printing
- Packaging
- Metalworking
- Material handling equipment

metering device

adjustable from 0.016 to 0.049 cm³. 0.001 to 0.003 in 3 mineral and synthetic oil and fluid grease standard: -26 to +93 °C; -15 to +200 °F heat resistant: max. +176 °C; +350 °F min. 52 bar, 750 psi max. 70 bar, 1 000 psi < 10 bar, 150 psi carbon steel, stainless steel, brass, steel, Nitrile (NBR) or fluoroelastomer (FKM, FPM) packings (indicated by black adjustment caps) (heat resistance application) 1/8 NPTF (F) pipe 1/8 0.D connections 1) min. 41 × 62 × 43 mm max. 308 × 62 × 43 mm min. 1.6 × 2.4 × 1.7 in max. 12.1 × 2.4 × 1.7 in any

Mounting position

Connection main line

Connection outlet

Dimensions

Technical data

Outlets

Lubricant

Function principle

Metering guantity

Operating temperature

Operating pressure

Relief pressure

Materials

 Different adapters are possible → see accessories Note: When using feed line tubing of 1/8 0.D. the feed line must not exceed a length of 7,5 m; 295 in based on oil +18 °C; +65 °F

NOTE

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Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.

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SL-42

Identification code

Product series

- 83311 = SL-42 standard with nitrile packings
- 84428 = SL-42 heat resistant with fluoroelastomer packings
- 85352 = SL-42 standard with nitrile packings for metric tube connection
- 0.D. 4 and 6 mm, up to 6 outlets

Number of metering devices

- **1** = 1 metering device, mounted in a manifold
- **2** = 2 metering devices, mounted in a manifold **3** = 3 metering devices, mounted in a manifold
- 4 = 4 metering devices, mounted in a manifold
- **5** = 5 metering devices, mounted in a manifold 6 = 6 metering devices, mounted in a manifold
- 10 = 10 metering devices, mounted in a manifold **15** = 15 metering devices, mounted in a manifold

Replacement for manifold injectors

standard single metering device/no manifold, 1 outlet, 1/8 NPTF (M) inlet

metering device for standard manifold

metering device for heat-resistant manifold

metric replacement

injector

Order number Designation

Accessories

Metering devices, manifolds and adapters

Manifold Metering device Adapter This picture shows a manifold example. Please note, the real manifold differs in terms of size and design.

Manifolds

Order number ¹⁾	Number of ports
91863-1 91864-1 91865-1 91866-1 14361 91976-1 14312 14253	1 2 3 4 5 6 10 15
1) Injectors, except replace	cement injectors for manifold,

include compression nut and ferrule for tubing 1/8 in O.D. as standard. Injectors with manifolds include two mounting clips and screws.

G 1/8 to metric fitting adapters

Order number	Pipe ø mm	Material
249281	4	steel
249279	4	stainless steel
249282	6	steel
249280	6	stainless steel

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83535

83313

84048

249649



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Series SL-43 metering devices were developed for single-line, centralized lubrication systems dispensing oil or fluid grease. Lubricant output is externally adjustable, and the indicator stem permits a visual check of metering device operation. These carbon steel metering devices are available with nitrile or fluoroelastomer packings. Metering devices with fluoroelastomer packings (indicated by black adjustment caps) are used for applications requiring heat resistance or when a lubricant requires it for compatibility.

Features and benefits

- Screw-in type, single-port metering device for prelubrication affixed by adapter bolts
- Suitable for use with manifolds having one to four ports to match • number of lubrication points
- Output is externally adjustable •
- Indicator stem permits visual check of metering device operation
- May be combined in a circuit with SL-41, SL-42 and/or SL-44 .
- metering devices Individual metering devices can be removed easily
- for inspection or replacement

Applications

- Glass processing
- Paper converting
- Plastic processing .
- Printing and packaging
- Metalworking
- Material handling equipment



Technical data

Function principle metering device Outlets Metering guantity Lubricant Operating temperature Operating pressure

Relief pressure Materials

Connection main line Connection outlet Dimensions

adjustable from 0.016 to 0.131 cm³ 0.001 to 0.008 in ³ mineral and synthetic oil standard: -26 to +93 °C; -15 to +200 °F heat resistant: max. +176 °C; +350 °F min. 52 bar, 750 psi max. 70 bar; 1 000 psi < 10 bar, 150 psi carbon steel, stainless steel, brass, steel, Nitrile (NBR) or fluoroelastomer (FKM, FPM) packings (indicated by black adjustment caps) (heat resistance application) 1/4 NPTF (F) pipe 1/8 0.D connections 1) min. $44 \times 79 \times 52$ mm max. 102 × 79 × 52 mm min. 1.7 × 3.1 × 2.0 in max. 4.0 × 3.1 × 2.0 in anv

Mounting position

Different adapters are possible → see accessories

Note: When using feed line tubing of 1/8 0.D. the feed line must not exceed a length of 7,5 m; 295 in based on oil +18 °C; +65 °F

NOTE

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Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.

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SL-43

Identification code

Product series

83661 = SL-43 standard with nitrile packings 84429 = SL-43 heat resistant with fluoroelastomer packings

Number of metering devices

- **1** = 1 metering device, mounted in a manifold
- **2** = 2 metering devices, mounted in a manifold
- **3** = 3 metering devices, mounted in a manifold
- **4** = 4 metering devices, mounted in a manifold



Accessories

Replacement for manifold injectors

standard single metering device/no manifold, 1 outlet, 1/8 NPTF (M) inlet

metering device for standard manifold

metering device for heat-resistant manifold

Order number Designation

Metering devices, manifolds and adapters



Manifolds

Order number ¹⁾	Number of ports
91883-1	1
91884-1	2
91885-1	3
91886-1	4

 Injectors, except replacement injectors for manifold, include compression nut and ferrule for tubing 1/8 in O.D. as standard. Injectors with manifolds include two mounting clips and screws.

G 1/8 to metric fitting adapters Order Pipe Material

number	ø mm	
249281	4	steel
249279	4	stainless steel
249282	6	steel
249280	6	stainless steel

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83662

83660

84110

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Series SL-41 metering devices are designed for use in high-temperature applications, depending on the lubricant. These metering devices are available installed only in manifolds with 3/8-inch NPT female inlets and feature a tamper-resistant adjustment screw that does not incorporate a visual indicator.

Features and benefits

- Screw-in type, single-port metering device affixed by adapter bolts
- Suitable for use with manifolds having one to five ports to match number of lubrication points
- Output is externally adjustable.
- Individual injectors can be removed easily for inspection or replacement
- Carbon steel with fluoroelastomer packings

Applications

- Glass processing
- Metalworking



Technical data

Function principle Outlets Metering guantity

Lubricant Operating temperature

Operating pressure

Relief pressure Materials Connection main line Connection outlet Dimensions metering device 1 to 5 adjustable from 0,13 to 1,31 cm³ 0.008 to 0.0689 in³ mineral and synthetic oil standard: -26 to +93 °C; -15 to +200 °F heat resistant: max. +176 °C; +350 °F min. 52 bar, 750 psi max. 70 bar; 1 000 psi < 10 bar, 150 psi carbon steel, FKM (FPM) 3/8 NPTF (F) 1/8 NPTF (F) 1/8 NPTF (F)1 min. 63 × 163,5 × 52,4 mm min. 2.5 × 6.4 × 2.1 in max. 6.75 × 6.4 × 2.1 in any

Mounting position

 When using feed line tubing of 1/8 0.D., feed line must not exceed a length of 7,5 m; 295 in based on oil +18 °C; +64 °F 1/8 NPTF (F).

NOTE

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Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.

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SL-41

Identification code

Product series

82294 = SL-41 heat resistant with fluoroelastomer packings

Number of metering devices

- **1** = 1 metering device, mounted in a manifold
- **2** = 2 metering devices, mounted in a manifold
- **3** = 3 metering devices, mounted in a manifold **4** = 4 metering devices, mounted in a manifold
- **5** = 5 metering devices, mounted in a manifold



Accessories

Metering devices and manifolds



Replacement for manifold injectors				
Designation				
metering device for manifold NPTF (F)				
single metering device				



Manifolds

Order number ¹⁾	Number of ports
12658 11962 11963 11964 11965	1 2 3 4 5

1) Each injector has two outlets. One is closed by a closure plug, but can be used to increase outlet quantity combined with another injector.

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Description

Series SL-44 metering devices were developed for single-line, centralized lubrication systems dispensing fluid or semi-fluid lubricants. Lubricant output is externally adjustable, and the indicator stem permits a visual check of metering device operation. These carbon steel metering devices feature fluoroelastomer packings. Metering devices with fluoroelastomer packings (indicated by black adjustment caps) are used for applications requiring heat resistance or when a lubricant requires it for compatibility.

Features and benefits

- Screw-in type, single-port metering device for prelubrication affixed by adapter bolts
- Suitable for use with manifolds having one to five ports to match number of lubrication points
- Output is externally adjustable
- Indicator stem permits visual check of operation
- May be combined in a circuit with SL-41, SL-42 and/or SL-43 metering devices
- Individual metering devices can be removed easily for inspection or replacement

Applications

- Glass processing
- Paper converting
- Plastic processing
- Printing
- Packaging
- Metalworking
- Material handling equipment



Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure

Relief pressure Materials Connection main line Connection outlet ¹⁾ Dimensions

Mounting position

metering device

adjustable from 0,13 to 1,31 cm ³, 0.008 to 0.080 in ³ mineral and synthetic oil -26 to +93 °C; -15 to +200 °F min. 52 bar, 750 psi max. 70 bar, 1 000 psi <10 bar, 150 psi carbon steel, FKM (FPM) 3/8 NPTF (F) 1/8 NPTF (F) min. 63 × 179,4 × 52,4 mm max. 171 × 179,4 × 52,4 mm min. 2.5 × 7.1 × 2.1 in max. 6.75 × 7.1 × 2.1 in any

 When using feed line tubing of 1/8 0.D. the feed line must not exceed a length of 7,5 m; 295 in based on oil +18 °C; +65 °F

NOTE

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Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.

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SL-44

Identification code

Product series

83749 = SL-44 heat resistant with fluoroelastomer packings

Number of metering devices

- **1** = 1 metering device, mounted in a manifold
- **2** = 2 metering devices, mounted in a manifold
- **3** = 3 metering devices, mounted in a manifold
- **4** = 4 metering devices, mounted in a manifold **5** = 5 metering devices, mounted in a manifold



Accessories

Metering devices and manifolds







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Overview of grease metering devices

Single-line metering devices

Product		Cate- gory ¹⁾	Lubricant Metering quantity grease NLGI		antity	Operating pressure max.		Relief pressure max.		Adjustable metering quantity	Function type	Page		
			0	1	2	cm ³ /stroke	in³/stroke	bar	psi	bar	psi			
SL-33 B-doser LG-doser	2) 2) 2)	5 5 5	•	•	-	0,016–0,05 0,02–0,50 0,02–0,50	0.0009–0.0030 0.0012–0.0305 0.0012–0.0305	83-240 max. 150 max. 150	1 200-3 500 max. 2 180 max. 2 180	14 15 ³⁾ 10 ³⁾	200 218 ³⁾ 145 ³⁾	•	prelubrication prelubrication prelubrication	128 130 132
SL-32 HV SL-1	2) 2)	6 6	•	•	•	0,016–0,13 0,13–1,31	0.0009–0.0079 0.0079–0.0799	83–240 127–240	1 200–3 500 1 850–3 500	28 41	400 600	•	prelubrication prelubrication	134 135
QSL VR	2) 2)	7 7	•	•	•	0,05–0,40 0,10–1,30	0.0030–0.0244 0.0061–0.0793	140–300 100–315	2 030–4 350 1 450–4 570	60 30 ³⁾ 70 ³⁾	870 435 ³⁾ 1 000 ³⁾	•	prelubrication prelubrication prelubrication	136 138
SLC		7	•	•	•	0,10–1,40	0.0061–0.0840	150–315	2 175–4 570	68	990	•	prelubrication	140
SL-11 SL-V SL-V XL		7 7 7	•	•	•	0,82–8,20 0,25–1,31 0,25–5,00	0.0500–0.5002 0.0152–0.0799 0.0152–0.3050	70–240 128–413 128–413	1 000–3 500 1 850–6 000 1 850–6 000	55 70 70	800 1 000 1 000	•	prelubrication prelubrication prelubrication	142 143 144

The category allows a simple assignment of the metering device to a pump of the same category. The category results from the relief pressure, the operating principle and the lubricant suitable for the metering device.
 Stainless steel or C5M available
 Depending on design

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Description

The series SL-33 metering devices are for single-line, high-pressure centralized lubrication systems dispensing petroleum-based lubricants with a viscosity up to NLGI 2. Output is externally adjustable. Its indicator stem permits visual check of metering device operation. May be combined in a circuit of metering devices SL-32, SL-V, SL-V XL, SL-1 and/or SL-11. Individual metering devices can be removed easily for inspection or replacement. Available in stainless steel SAE 304 for applications where environmental conditions are hazardous to carbon steel or in industries preferring stainless steel.

Features and benefits

- For use with manifolds from 1 to 7 ports to match number of lube points
- Output is externally adjustable
- Can be removed easily for inspection or replacement

Applications

• Food and beverage

Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure

Relief pressure Materials Connection main line Connection outlet Lubricant point

Dimensions

Mounting position

metering device 1 to 4 0.016 to 0.049 cm³ 0.001 to 0.003 in ³ grease NLGI 0, 1 max. +93 °C; +200 °F 83 to 240 bar, 1 200 to 3 500 psi typical: 100 bar, 1 500 psi 14 bar, 200 psi carbon steel, stainless steel 304 1/8 NPTF (F), 1/8 NPTF (M) 1/8 in O.D. tube solderless pipe connection (DIN 3862) or plug connector min. 41×62×43 mm max. $156 \times 62 \times 43$ mm min. 1.6 × 2.4 × 1.7 in max. 6.1 × 2.4 × 1.7 in anv

Metering devices, except replacement metering devices for manifold, include compression nut and ferrule for tubing, 3,175 mm (0.125 in) 0.D. as standard. Other outlet connectors for feed line optional; metering devices with manifolds include two mounting clips and screws; metering devices have nitrile packings. Check packing compatibility with synthetic lubricants; output with indicator cap hand-tightened is 0,016 cm³(0.001 in³). Maximum output is achieved with two turns at 0,016 cm³/turn (0.001 in³/turn)



NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.

SKF.



SL-33

Ord	or	info	nm	ation
010	CI	mile		acion

Order number	Designation	Material	Number of outlets	Manifold inlet
83309-1	metering device including manifold	carbon steel	1	1/8 NPTF (F)
83309-2	metering device including manifold	carbon steel	2	1/8 NPTF (F)
83309-3	metering device including manifold	carbon steel	3	1/8 NPTF (F)
83309-4	metering device including manifold	carbon steel	4	1/8 NPTF (F)
83309-5	metering device including manifold	carbon steel	5	1/8 NPTF (M)
83309-6	metering device including manifold	carbon steel	6	1/8 NPTF (F)
83900 83314	single metering device, no manifold needed single metering device for replacement	carbon steel carbon steel	1	1/8 NPTF (M) -
83715-1	metering device including manifold	stainless steel 304	1	1/8 NPTF (F)
83715-2	metering device including manifold	stainless steel 304	2	1/8 NPTF (F)
83715-3	metering device including manifold	stainless steel 304	3	1/8 NPTF (F)
83715-4	metering device including manifold	stainless steel 304	4	1/8 NPTF (F)
83715-6	metering device including manifold	stainless steel 304	6	1/8 NPTF (F)
83715-7	metering device including manifold	stainless steel 304	7	1/8 NPTF (F)
83900-9	single metering device, no manifold needed	stainless steel 304	1	1/8 NPTF (M)
83314-9	single metering device for replacement	stainless steel 304	-	–

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Metering devices for grease



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B-doser

Description

ApplicationsHeavy vehicles

Features and benefits



B-dosers are used in single-line, heavy vehicle and industrial

dosage ranges of B-dosers are from 20 to 500 mm³.

• The output quantity of the used dosers is visible

6-ports to match amout of lube points (1-6)

Material of manifold : stainless steel AISI 303

• Suitable with optionally manifold sizes for 2-, 3- and

on amount of notches at the housing

• Suits for ø 4 and 6 mm of feedlines

Heavy industrial application

lubrication applications. The doser group consists of a mounting rail

with one or more dosers attached to it. Dosing modules and mount-

ing rails are made of zinc-coated and yellow-passivated steel. The



Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure Relief pressure

Materials

Connection main line (manifold) Connection outlet Lubricant point

Dimensions

metering device 1 to 6 0.02 to 0.50 cm³ 0.0012 to 0.0305 in ³ oil and grease NLGI 000 to 1 -25 to +80 °C; -13 to +176 °F max. 150 bar, *2 180 psi* B1, B2=15 bar; 218 psi B3, B4=10 bar; 145 psi B5, B6=5 bar; 72 psi zinc-coated and yellow-passivated steel $R \frac{1}{4}$ for ø 8 mm or pipe ø $\frac{1}{2}$ in 1/8 NPT(F) for ø 4 and 6 mm feedlines solderless pipe connection (DIN 3862) min. 15 × 90 × 15 mm max. 17 × 110 × 17 mm min. 0.6 × 3.5 × 0.6 in max. 0.7 × 4.3 × 0.7 in any

Mounting position

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: **11276 EN**

11276

3D

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B-doser



Lubricant outlet

- **4** = connector for ø 4 mm pipe
- **6** = connector for \emptyset 6 mm pipe **U** = female thread NPT $\frac{1}{8}$

Accessory

Manifold



Description

For B-doser metering devices, manifolds utilized are for 1 to 6 screw-in points with thread G 1/8 for O-ring sealing. Mainline fitting for $G \frac{1}{4}$ for ø 8 mm or pipe ø $\frac{1}{2}$ in. Normal profile and opposite-side profile design manifolds are available in zinc-coated and yellow-passivated steel. Various designs of main line and feed line connection can be selected by order code.





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Metering devices for grease

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LG-doser



Description

LG-dosers are used in single-line lubrication applications. The doser group consists of a mounting rail with one or more dosers attached to it. Dosing modules and mounting rails are made of stainless steel.

Features and benefits

- Two adjustable doser sizes are selectable by the used output quantity
- Manifold material: stainless steel AISI 303
- Compatible with screw-in type fittings for dosers and manifolds
- Suitable for feed line ø 4 and ø 6 mm
- Robust and reliable

Applications

• Food and beverage



Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure Relief pressure

Materials Connection main line (manifold) Connection outlet

Connection lubricant point

Materials Dimensions

Mounting position

metering device 1 to 6 0.02 to 0.50 cm³ 0.0012 to 0.0305 in ³ oil and grease NLGI 000 to 1 -25 to +80 °C; -13 to +176 °F max. 150 bar, 2 180 psiLG001 = 10 bar; 145 psiLG002 = 5 bar; 72 psi stainless steel AISI 304 R 1/4 in pipe connector ø 4 and 6 mm or pipe ø 1/4 in solderless pipe connection (DIN 3862) stainless steel AISI 303 min. 15 × 112 × 15 mm max. 17 × 110 × 17 mm min. 0.6 × 4.4 × 0.6 in max. 0.7 × 4.3 × 0.7 in any

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: **1276 EN**

1276

> 3D

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LG-doser



Accessory

Manifold

6 = pipe connector ø 6 mm **U** = lubrication pipe $\phi \frac{1}{4}$ in



Description

For LG-doser metering devices, manifolds utilized are for 1 to 6 screw-in points with thread G 1/8 for O-ring sealing. Normal profile and opposite-side profile design manifolds are available in stainless steel AISI 303. Various designs of main line and feed line connections can be selected by order code.

B P L D –	– S
rail rail rail	
	BPLD-

S = stainless steel AISI 303

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The series SL-32HV (high venting) metering devices are for single-line, high-pressure centralized lubrication systems dispensing petroleum-based lubricants with a viscosity up to NLGI 2 (refer to Design Guide). Output is externally adjustable. The indicator stem permits visual check of metering device operation. Individual metering devices can be removed easily for inspection or replacement.

Features and benefits

- Shipped with manifolds from 1 to 10 ports to match number of lube points
- Output is externally adjustable
- Indicator stem permits visual check of operation
- Can be removed easily for inspection or replacement
- Available in stainless steel SAE 304

Applications

- Food and beverage, industrial automation
- Machine tools, oil and gas
- Steel industry, pulp and paper
- Marine and forestry, construction
- Wind energy, mobile on-road

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.



Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure Relief pressure Material Connection main line Connection outlet Lubricant point Dimensions metering device 1 to 10 0,016 to 0,131 cm³ 0.001 to 0.008 in³ grease NLGI 0, 1, 2 max. +93 °C; +200 °F 83 to 240 bar, 1 200 to 3 500 psi 28 bar, 400 psi carbon steel, nitrile packings 1/4 NPTF (F), 1/4 NPTF (M) 1/8 in 0.D. tube solderless pipe connection (DIN 3862) min. 44,5 × 93 × 52 mm max. 215 × 93 × 52 mm min. 1.8 × 3.6 × 2.1 in max. 8.5 × 3.6 × 2.1 in any

Mounting position

Order information

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Order number	Designation	Outlet
83336HV-1 83336HV-2 83336HV-3 83336HV-4 83336HV-5 83336HV-5 83336HV-6 83336HV-7 83336HV-8 83336HV-9 83336HV-9 83336HV-10 83338HV	metering device metering device metering device metering device metering device metering device metering device metering device metering device metering device, single, no manifold metering device, single renlacement	1 2 3 4 5 6 7 8 9 10 1 1
	5,51	

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Metering devices for grease

Metering device

SL-1



Description

The series SL-1 metering devices are for single-line, high-pressure centralized lubrication systems dispensing lubricants compatible with flouroelastomer packings and viscosity up to NLGI 2. Output is externally adjustable. An indicator stem permits visual check of metering device operation. Individual metering devices can be eremoved easily for inspection or replacement. Available in stainless steel SAE 316, for applications where environmental conditions are hazardous to carbon steel or in industries preferring stainless steel.

Features and benefits

- Shipped with manifolds from 1 to 6 ports (lubrication points)
- Output is externally adjustable
- Each indicator stem permits visual check of injector operation
- Individual metering devices can be removed easily for inspection or replacement
- Includes fitting for feed lines via alternate outlet port
- Available in stainless steel SAE 316

Applications

- Mining and mineral processing
- Construction machinery, steel/heavy industry

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.



Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure Relief pressure Material Connection main line Connection outlet Lubricant point Dimensions

metering device 1 to 6 0.131 to 1.31 cm ³ 0.008 to 0.080 in ³ grease NLGI 0, 1, 2 -26 to +176 °C; -15 to +350 °F 127 to 240 bar, 1 850 to 3 500 psi 41 bar, 600 psi carbon steel, stainless steel 316 3/8 NPTF (F) 1/8 NPTF (F) solderless pipe connection min. 63 × 179,4 × 52,4 mm max. 203 × 179,4 × 52,4 mm min. 2.5 × 7.0 × 2.0 in max. 8.0 × 7.0 × 2.0 in anv

Mounting position

Order information

Order number	Designation	Outlet
81770-1	metering device	1
81770-2	metering device	2
81770-3	metering device	3
81770-4	metering device	4
81770-5	metering device	5
81770-6	metering device	6

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QSL



Description

QSL metering devices are designed for 300 bar pressure. As a result, NLGI 2 greases can be pumped at temperatures below zero without problems. All metering devices operate independently of each other. This means that in the event of a blockage or fault of one metering device, all other metering devices will continue to supply lubricant. A control pin on top shows proper function of each metring device.

Features and benefits

- Suitable for use with manifolds from 1 to 6 ports to match number of lube points; must be ordered separately
- Corrosion-resistant, black-cromated or nickel-plated surface
- Each indicator stem permits visual check of operation
- Can be removed easily for inspection or replacement
- Controlled via main line

Applications

- Renewable energy
- Construction machinery
- Mining and mineral processing
- Compact and medium-sized machines and industrial applications
- Commercial vehicles



Technical data

Function principle Outlets Metering quantity Lubricant Operating temperature Operating pressure Relief pressure Materials Connection main line Connection outlet

Lubricant point

Dimensions

Mounting position

metering device 1 to 6 0,05 to 0,4 cm³, 0.003 to 0.024 in³ grease NLGI 0, 1, 2 -40 to +70 °C; -40 to +158 °F 140 to 300 bar, 2 030 to 4 350 psi ≤ 60 bar, *≤* 870 psi steel, black cromated, polyurethane G 3/8 for steel pipe 16 × 2 mm; 0.63 × 0.08 in G 1/8 for tubes/hoses 4,1 × 2,3 mm; 0.16 × 0.09 in solderless pipe connection, DIN 3862 or SKF quick connector length: max. 160 mm, 6.3 in ø 28 mm; 1.1 in anv



NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 12735 EN

3D

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QSL

QSL order numbers				
Order	Designation	Metering qu	Ring color	
number ¹⁾	Injectors	per stroke		
		cm ³	in ³	
554-32810-1	QSL 0,05	0,05	0.00305	blue
554-32811-1	QSL 0,1	0,10	0.00610	white
554-32812-1	QSL 0,2	0,20	0.01220	yellow
554-32813-1	QSL 0,3	0,30	0.01830	red
554-32814-1	QSL 0,4	0,40	0.02440	green

 In the case of backpressures in lubrication point lines of ≥ 100 bar or if several injectors are combined to one lubrication point, use check valves, order number 223-12289-7.

Accessory

Manifold, check valves and closure kit



Description

For QLS metering devices, manifolds utilized are for 1 to 6 push-in points tightened by a hollow screw with thread G 3/8 for O-ring sealing. Normal profile design manifolds are available in steel. The main line connection G 3/8 is for steel pipe 16×2 mm (0.63×0.08 in). The lubrication connection is for plastic tube $4,1 \times 2,3$ mm (0.16×0.09 in).

Manifolds1)

Order number	Designation	Dimensio fixing hole	ens	length, to	otal
		mm	in	mm	in
454-71505-1 454-71506-1 454-71507-1 454-71508-1 454-71509-1	divider bar, 2-fold divider bar, 3-fold divider bar, 4-fold divider bar, 5-fold divider bar, 6-fold	74 42 84 126 841)	2.91 1.65 3.3 4.96 3.3	130 130 172 214 256	5.11 5.11 6.77 8.42 10.07

1) Instead of the planned injectors a divider bar can also be equipped with a closure kit 5, order number: 554-34387-1

Check valves and closure kit					
Order number	Designation				
223-12289-7	check valves for connection at lubrication point outlets				
554-34387-1	closure kit 5				

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Metering devices for grease



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Metering devices for grease



Description

Product series VR are 1- to 12-port prelubrication metering devices for single-line, centralized lubrication systems for fluid grease and grease up to NLGI 2. These metering devices are characterized by an innovative, compact and sturdy design with SKF Quick Connector systems.

Features and benefits

- Innovative, extremely compact design
- Optional metering devices for 1 to 12 ports to match number of lubrication points
- Metering nipples with indicator pin for visual monitoring of each lubrication point
- Optional push-in type or screw-in type fittings for feed line or main line connections are selectable
- Easy metering adjustment by replacing the metering nipples
- Black anodized surface for optimized corrosion protection ٠
- Suitable for corrosivity category C3 and C5 per DIN EN ISO 12944 and certified by Germanischer Loyd
- High functional reliability when using stiff greases at low working temperatures

Applications

- Onshore and offshore wind energy systems
- Construction machinery .
- Steel industry
- Heavy industry
- General mechanical engineering applications



Technical data

Function principle Outlets Metering guantity

Lubricant Operating temperature Operating pressure Relief pressure Materials

Connection main line

Connection outlet

Lubricant point Dimensions

block metering device 1 to 12 non-adjustable: 0.1 to 1.3 cm³/min 0.006 to 0.079 in ³/ min adjustable: 0,1 to 1,1 cm ³/min 0.006 to 0.067 in 3/ min fluid greases and grease NLGI 0, 1, 2 -25 to +80 °C; -13 to +176 °F 100 to 315 bar; 1 450 to 4 570 psi 30 or 70 bar; 435 or 1 015 psi anodized aluminum, stainless steel, FKM (FPM) G 1/4 for pipes 4 or 6 mm 0.16 or 0.24 in G 1/8 for pipes 4 or 6 mm, 0.16 or 0.24 in solderless pipe connection (DIN 3862) depending on model: min. 97 × 130 × 54 mm: max. 281 × 121 × 119 mm; min. 3.82 × 5.12 × 2.13 in max. 11.06 × 4.76 × 4.68 in any

Mounting position

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication: 1-5001-EN, 951-230-007

3D

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VR

Identification code	VF	2			-	_	_				_			_
Number of metering points 01 = 1 07 = 7 02 = 2 08 = 8 03 = 3 09 = 9 04 = 4 10 = 10 05 = 5 11 = 11 06 = 6 12 = 12				1	2	3	4 5	6	7	8 9	10	e letter	y letter s 7-12)	nection
Design for fluid grease and grease	!											Cod	quantit 19 point	ine con
Design code	Α	в	С	D	E	F	G	н	N	Ρ	<		ering eterir	nain l
Max. relief pressure [bar]	30	70	30	70	30	70	30	70	30	70			Met for m	s for r
Secondary line connection	G 1/8	G 1/8	VS	VS	VS	VS	G 1/8	G 1/8	SRV1)	SRV1)			ign 0	fitting
Secondary line ø [mm]	-	-	4	4	6	6	-	-	6	6)6 ass	e for f
Corrosivity category ²⁾	С3	C3	C3	C3	С3	C3	C5-M	C5-M	C5-M	C5-M			or VRC	Cod
 SRV = cutting-sleeve screw union, see page Corrosivity categories per DIN EN ISO 12944 	2 (certified by	Germanisch	er Lloyd)										ot present, e.g. fc	
Metering													(0 = nc	
Metering quantity letter	A1)	B 1)	D 1)	F 1)	H 1)	J 1)	M 1)	R 2)	х		<			
Metering [cm ³]	0,1	0,2	0,4	0,6	0,8	1	1,3	0,1–1,1	Close	ed				
 Fixed metering with indicator pin for visual fu Adjustable metering with indicator pin for vis 	nction moni ual function	oring monitoring												

Order example



- VR06FFFFFFF000000Z Single-line distributor, 6-port Relief pressure max. 70 bar Lubrication point line connection using SKF plug connector •
- .

- for pipe ø 6 mm Metering quantity 1-6 = 0,6 cm Without fitting for main line connection (G 1/4 thread) •

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Fittings for main line connection

Left	Right	ø Main	Code
fitting	fitting	line [mm]	
Cutting-sleeve	Cutting-sleeve	8	A
screw union *	screw union *	10	G
Cutting-sleeve	Closed	8	B
screw union *		10	H
Closed	Cutting-sleeve	8	J
	screw union	10	J
E0-2 screw union	E0-2 screw union	8 10	D K
EO-2 screw union	Closed	8 10	E L
Closed	E0-2 screw union	8 10	F M
G1/4	G1/4	-	Z

Metering devices for grease



Description

The SKF Lincoln SLC metering device is designed for use in high-pressure singleline lubrication systems and features a modular design. Also, delivery volume can be adjusted via metering screws to ensure each lubrication point receives the required amount of lubricant. Featuring a spring-reset control piston, the metering device has a high venting capability compatible with greases up to NLGI 2. The SLC offers easy configuration to meet your needs, including different output quantity, fitting and adjustment options. With the most compact construction in its class, the SLC is suitable for many applications in renewable energy, construction, mining as well as in heavy industry.

Features and benefits

- High venting capability
- Wide delivery volume range
- Compact construction
- Easy to monitor and maintain
- Simplified failure analysis
- Reduced risk of leaks
- Reliable operation in harsh conditions with a wide operating temperature range
- Patented design and functionality
- Easy to clean

Applications

- Renewable energy
- Construction and mining
- Heavy industry

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Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure Relief pressure Materials Corrosion protection class

Dimensions

SLC2: 1 to 6 optionally adjustable or fixed SLC1: 0,1–0,7 cm³/stroke; 0.006–0.042 in³/stroke SLC2: 0,2–1,4 3/stroke; 0.012-0.084 in³/stroke grease up to NLGI 2 -40 to +100 °C; -40 to +212 °F 150 to 315 bar; 2 175 to 4 570 psi 68 bar; 990 psi steel C3-High, C4-Medium (DIN EN ISO 12944) SLC1: min. $75 \times 50 \times 80$ mm max. 215 × 50 × 180 mm min. 2.95 × 1.97 × 3.15 in max. 8.46 × 1.97 × 7.08 in SLC2: min. $75 \times 40 \times 80$ mm max. 215 × 40 × 205 mm min. 2.95 × 1.57 × 3.15 in max. 8.46 × 1.57 × 8.07 in any, preferably vertical

block metering device

SLC1: 1 to 12

Mounting position



Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication:

17717EN

SD 3D

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SLC



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 $I = \emptyset 10 \text{ mm}$ tube plug in fitting





Description

Series SL-11 metering devices are for single-line, high-pressure centralized lubrication systems dispensing lubricants compatible with flouroelastomer packings and viscosity up to NLGI 2. Output is externally adjustable. An indicator stem permits visual check of metering device operation. Available only as single unit with 1/2 inch NPTF (F) inlet.

Features and benefits

- Output is externally adjustable
- Indicator stem permits visual check of injector operation
- May be combined in a circuit of metering devices SL-32, SL-33, SL-VXL, SL-V and/or SL-1
- Can be removed easily for inspection or replacement ٠
- Includes fitting for filling feed lines via alternate outlet port •
- Available in stainless steel SAE 316

Applications

- Construction machinery
- Mining and mineral processing
- Steel industry
- Heavy industry

Technical data

Order number

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure Relief pressure Materials Connection main line Connection outlet Lubricant point

Dimensions

Mounting position

85497

metering device

0,82 to 8,2 cm³ 0.050 to 0.500 in³ grease NLGI 0, 1, 2 -40 to +93 °C; -40 to +200 °F 70 to 240 bar, 1 000 to 3 500 psi 55 bar, 800 psi carbon steel, FKM, PTFE 1/2 NPTF (F) 1/4 NPTF (F) solderless pipe connection (DIN 3862) or plug connector 73 × 241 mm 2.87 × 9.48 in any

Metering devices have flouroelastomer packings. Check packing compatibility with synthetic lubricants; metering devices supplied with fitting for filling feed line via alternate outlet port Output with adjustment screw hand-tightened is 0,82 cm³ (0.05 in³); maximum output is achieved with 11¹/2 turns at 0,66 cm³/turn (0.04 in³/turn).



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NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.

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Metering devices for grease

Metering device

SL-V



Description

Series SL-V metering devices are for single-line, high-pressure centralized lubrication systems dispensing lubricants compatible with polyurethane seals up to NLGI 2. Output is externally adjustable. An indicator stem permits visual check of metering device operation. Individual metering devices can be removed easily for inspection or replacement. Each SL-V metering device includes a clear, polycarbonate protective cap.

Features and benefits

- Shipped with manifolds from 1 to 6 ports
- Output is externally adjustable
- Clear, polycarbonate protected cap over indicator stem permits ٠ visual check of operation
- Can be removed easily for inspection or replacement
- Available in carbon steel or stainless steel SAE 304
- Output setting system by a set of color-coded sleeves

Applications

- Construction machinery
- Mining and mineral processing
- Steel industry •

NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.



Technical data

Function principle Outlets Metering quantity

Lubricant Operating temperature Operating pressure

Relief pressure Materials Connection main line Connection outlet Dimensions

metering device 1 to 6 0.25 to 1.31 cm ³ 0.015 to 0.08 in ³ grease NLGI 0, 1, 2 max. +82 °C; +180 °F 128 to 413 bar, *1 850 to 6 000 psi* typical: 172 bar, *2 500 psi* 70 bar, 1 000 psi carbon steel 3/8 NPTF (F) 1/8 NPTF (F min. 63 × 222 × 35 mm max. 203 × 222 × 35 mm min. 2.5 × 8.7 × 1.4 in max. 6.1 × 8.7 × 1.4 in anv

Mounting position

Metering device manifolds have 10,3 mm (0.4 in) dia. mounting holes for 9,5 mm (0.375 in) bolt; metering devices have polyurethane seals; check compatibility with synthetic lubricants; metering devices include fitting for filling feedlines via alternate outlet port; output with adjustment screw hand-tightened is 0.246 cm ³(0.015 in ³); maximum output is achieved with five turns at 0,229 cm ³/turn (0.014 in ³/turn).

Order information

Order number	Outlets	Designation
85770-1 85770-2 85770-3 85770-4 85770-5 85770-6 85771 85772	1 2 3 4 5 6 1 1	Metering device incl. manifold Metering device incl. manifold Replacement metering device for manifold Single metering device, no manifold inlet 3/8 NPTF (M)

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HENNLICH **ŽIJEME TECHNIKOU**

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Description

Series SL-VXL high-output metering devices are for single-line, high-pressure centralized lubrication systems dispensing lubricants compatible with polyurethane seals up to NLGI 2. Output is externally adjustable. An indicator stem permits visual check of metering device operation. Individual metering devices can be removed easily for inspection or replacement. Two SL-VXL metering devices are required to replace one SL-11 metering device. Each SL-VXL metering device includes a clear, polycarbonate protective cap.

Features and benefits

- Suitable for use with manifolds from 1 to 6 ports to match number of lubrication points
- Output is externally adjustable
- Includes a clear, polycarbonate protective cap over indicator stem that permits visual check of operation
- Can be removed easily for inspection or replacement
- Includes fitting for filling feed lines via alternate outlet port
- Available in carbon steel or stainless steel SAE 304

Applications

- Construction machinery
- Mining and mineral processing
- Heavy industry



metering device

grease NLGI 0, 1, 2

1 to 6

Technical data

Function principle Outlets Metering quantity Lubricant Operating temperature Operating pressure Relief pressure Materials Connection main line Connection outlet Lubricant point

Dimensions

9-60 to +82 °C; -40 to +180 °F 128 to 413 bar; 1 850 to 6 000 psi 70 bar, 1 000 psi carbon steel 3/s NPTF (F) 1/s NPTF (F) solderless pipe connection (DIN 3862) or plug connector min. 63 × 284 × 35 mm max. 203 × 284 × 35 mm min. 2.5 × 11.2 × 1.4 in max. 6.1 × 11.2 × 1.4 in any

0.25 to 5.00 cm³. 0.015 to 0.305 in³

Mounting position

Metering device manifolds have 10,3 mm (0.4 in) dia. mounting holes for 9,5 mm (0.375 in) bolt; metering devices have polyurethane seals. Check compatibility with synthetic lubricants; metering devices include fitting for filling feed lines via alternate outlet port; output with adjustment screw hand-tightened is 0,246 cm³ (0.015 in³); maximum output is achieved with 20.5 turns at 0,229 cm³/turn (0.014 in³/turn).



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NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.

SKF.



HENNLICH ŽIJEME TECHNIKOU

SL-V XL

Identification code

Product series, carbon steel

85780 = metering device incl. manifold, 3/8 NPTF (M) inlet
85781 = replacement for manifold metering device (only one outlet possible)
85782 = single metering device, no manifold, 3/8 NPTF (M) inlet (only one outlet possible)



Outlets

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