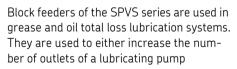
Block feeder SPVS

Used in oil or grease lubrication systems







or to portion the volume flow and deliver it to the lube points, without any influence on the operating system pressure.



Fields of application are, for example, metal-forming machines, diesel engines and packaging machines.

Advantages

- Very compact design
- · Robust and good value
- Universally usable for grease and oil
- Central function monitoring with electrical stroke monitoring device possible
- Defined volume portion per cycle and outlet of:
 - 0,32 cm³ with SPVS25
 - 0,16 cm³ with SPVS1
- Accurate lubricant distribution, even with back pressure at the lubrication points, due to fitted pistons.
- The feeders are available with either 2 or 4 outlets
- Available in metric or inch and steel or brass design



Block feeder SPVS, basic design

for oil or grease, without attachments



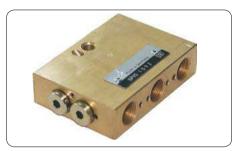


Fig. 6 Block feeder SPVS, basic design 69 Outlet 2 outlets Version 20 Inlet 4 outlets Version

Note!

Oil and grease of different viscosity or penetration can be used.

Their operating limits concerning volume flow and pipe diameter, have to be taken into consideration. Inlet and outlet couplings (see page 5) have to be ordered seperately.

Technical data

Style hydraulically controlled Mounting position discretionary Screw connection | 1/0: M12x1 or G1/8" Housing material | with M12x1 = CuZn, with G1/8" = St

Ambient temperature range -10 to +100 °C

Hydraulic

Operating pressure max.: 100 bar Lubricant temperature range-10 to +100 °C

Max. permissible pressure difference

of any two outlets oil 20 bar, grease 30 bar

Max volume flow inlet 45 cm³/min Volume per outlet and cycle 0,32 cm³ at SPVS25 0,16 cm³ at SPVS1

Lubricant Mineral oils, greases based on mineral oil, envi-

ronmentally friendly and synthetic oils and greases

Operating viscosity > 12 mm²/s

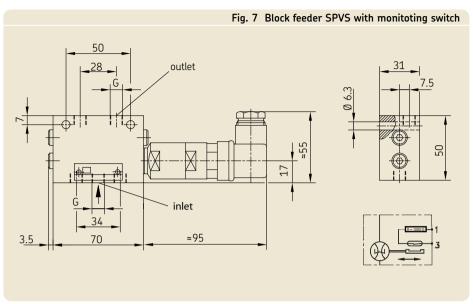
Worked penetration ≥ 265 × 0.1 mm (up to NLGI grade 2)

				9	SPVS Basic design
Outlets	Thread	monitoring switch	Wight [kg]	Order code	Order no.
2 4	G 1/8	without	0.45	SPVS25-2-ST-G1/8Z	44-2578-6321
	G 1/8	without	0.45	SPVS1-4-ST-G1/8Z	44-2578-6323
2	M 12x1	without	0.46	SPVS25S1Z-2-MS-M12x1	44-2578-6110
4	M 12x1	without	0.46	SPVS1S9Z-4-MS-M12x1	44-2578-6201

Block feeder SPVS with monitoring switch

for oil und grease





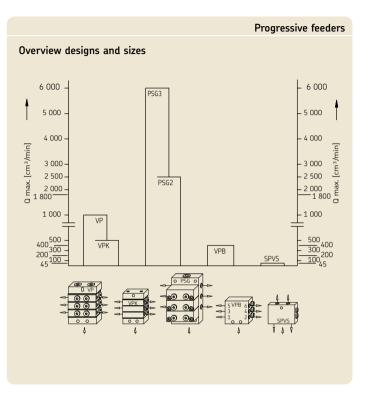
	Technical data
Block feeder SPVS For further technical data, see "SPVS Basic Design", page 3	
Thread connection Inlet/outlet: G1/8" Housing material GGC 25	
Electric	
Ambient and lubricant temperature range15 to +70 ℃	
one electrical impuls (Cyclus) to correspond to 0,64 cm ³	
Electrical connection	
Rated voltage U _i	
load current I _i 0,02 A	
Output function	
Switching element/contact type reed contact	
Type of protection	
1) Available in ATEX design, on demand.	

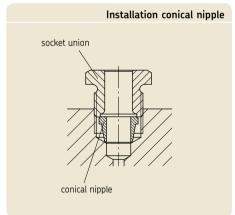
				SPVS wi	th monitoring switch
Outlets	Thread	Monitoring switch	Wight [kg]	Order code	Order no.
2 4	G 1/8 G 1/8	electrical electrical	0.60 0.65	SPVS25-2-A-G1/8Z SPVS1-4-A-G1/8Z	44-2578-6360 44-2578-6350

Accessories for Block feeder SPVS

Overview progressive feeders

		Accessoroies
Inlet coupling	gs	
for feeders w	rith connecting threads M12x1	Order no.
Pipe ø 4,	Conical nipple	44-0405-6532
	Socket union	44-0159-7101
Pipe ø 6,	Conical nipple	44-0405-6531
	Socket union	44-0159-7102
Pipe ø 8,	Inlet coupling	24-0159-6010
Pipe ø 10,	Screwed coupling	24-0159-6011
for feeder wi	th connecting threads R1/8"	
		Order no.
Pipe ø 4,	Conical nipple	44-0405-2003
	Socket union	44-0709-2040
	Straight coupling 4_LLR	404-403W
	Elbow coupling WE 4_LLR	404-405W
	Swivelling screw fitting SWVE 4-LLR	96-7004-0058
Pipe ø 6,	Conical nipple	406-001
	Socket union	44-0709-2041
	Straight coupling GE 6_LLR	406-423W
	Elbow coupling WE 6_LLR	96-6106-0058
	Swivelling screw fitting SWVE 6-LLR	96-7006-0058
Pipe ø 8,	Straight coupling GE 8_LLR	408-423W
	Elbow coupling WE 8_LLR	96-6108-0058
	Swivelling screw fitting SWVE 8-LLR	96-7008-0058





How they operate

The lubricant delivered by the pump passes through the inlet port into the feeder and flows through the light-colored ducts into the individual outlet chambers

The piston presses the lubricant out of the respective outlet chamber through the dark colored ducts to the individual outlet ports.

Fig. 1

Figure 1

The lubricant flows to the upper left outlet chamber and shoves the piston to the right. As a result, the lubricant is pressed out of the upper right outlet chamber to outlet port 4, and the balls are displaced in such a way that they block the lower piston.

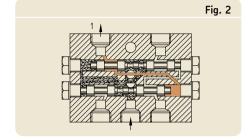


Figure 2

The lubricant flows to the lower left outlet chamber and shoves the piston to the right. As a result, the lubricant is pressed out of the lower right outlet chamber to outlet port 1, and the balls are displaced in such a way that they block the upper piston.

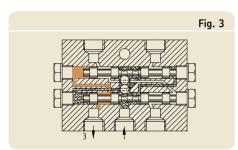


Figure 3

The lubricant flows to the upper right outlet chamber and shoves the piston to the left. As a result, the lubricant is pressed out of the upper left outlet chamber to outlet port 3, and the balls are displaced in such a way that they block the lower piston.

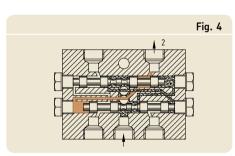


Figure 4

The lubricant flows to the lower right outlet chamber and shoves the piston to the left. As a result, the lubricant is pressed out of the lower left outlet chamber to outlet port 2, and the balls are displaced in such a way that they block the upper piston (cf.Fig.5).

This seguence is constantly repeated on a forced basis (progressive).

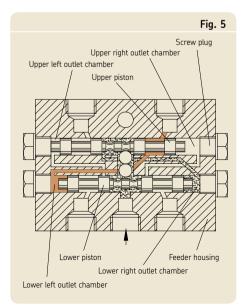
The advantage of sequential phase control is that if just one single outlet port is closed, the entire feeder is blocked.



The upper piston is held fast by the two balls until the lower piston has reach its end position on the left. As a result, a forced and uniform apportionment of the delivered lubricant is achieved.

Please note: In the case of feeders with two outlet ports, ports 1 and 3 as well as 2 and 4 are internally combined; only ports 1 and 2 are effective.

The mode of operation is identical for feeders with 2 or 4 outlet ports.



See important product usage information on the back cover.

Block feeder SPVS Notes

Block feeder SPVS Notes

Order No. 1-3029-EN

Subject to change without notice! (12/2014)

Important product usage information

All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed. Not all lubricants are suitable for use in centralized lubrication systems. SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1013 mbars) by more than 0.5 bar at their maximum permissible temperature.

Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

Brochure note

1-3010-EN Progressive modular feeder PSG 1-3015-EN Progressive sectional feeder VPK 1-3016-EN Progressive sectional feeder VP 1-3017-EN Progressive block feeder VPB 1-3029-EN Progressive block feeder SPVS

SKF Lubrication Systems Germany GmbH

2. Industriestrasse 4 · 68766 Hockenheim · Germany Tel. +49 (0)62 05 27-0 · Fax +49 (0)62 05 27-101 www.skf.com/lubrication

This brochure was presented by:			

® SKF is a registered trademark of the SKF Group.

© SKF Group 2014

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

