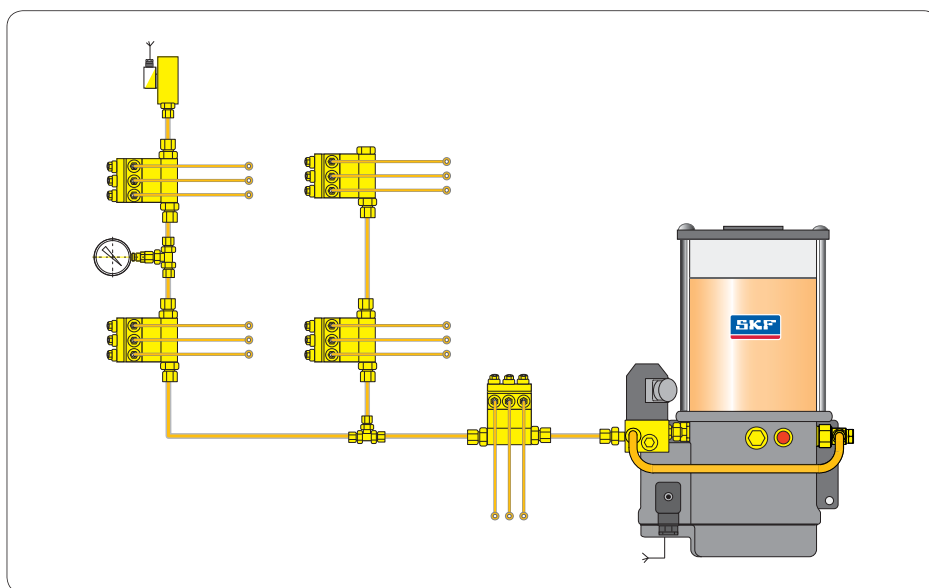


VR Piston Distributor

Single-line distributor for oil and grease up to NLGI Grade 2



The robust construction with fitted control pistons, high relief pressure and therefore large pressure reserves make single-line systems with VR piston distributors the cost-effective alternative to dual-line systems in mechanical engineering applications, wind energy conversion systems, large construction machinery and the steel industry and heavy industry.

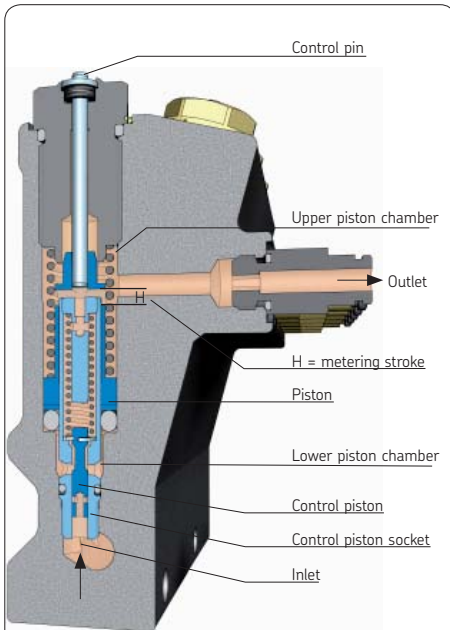
The parallel mode of operation allows for easy system planning and expansion. Replacing the metering screws is one way of adapting the system.

Innovative, extremely compact design with quick connector technology, high compressive strength (315 bar) and high relief pressure (30 or 70 bar) guarantee:

- High operational reliability when using stiff greases at low working temperatures
- Long service life, even when using complex lubricants
- Use of longer main lines with smaller dimensions
- Reduced assembly costs.

VR Piston Distributor

Innovative design allows metering to be precisely adjusted to the actual lubricant requirement.



Main line relieved:
Distributor in normal position

A very wide range of delivery volumes can be provided by selecting the appropriate metering screws. Larger metering quantities increase the service life of all system components and allow for exceptionally low-impact grease delivery.




The high absolute pressure level and high minimum required relief pressure allow the lubrication systems to be used even at especially low temperatures over long lines or with minimal cross sections.

Pins show the actual delivery of grease; their movement is directly coupled to the delivery stroke. This lets the operator immediately and reliably recognize how grease distribution is functioning for each individual lubrication point.

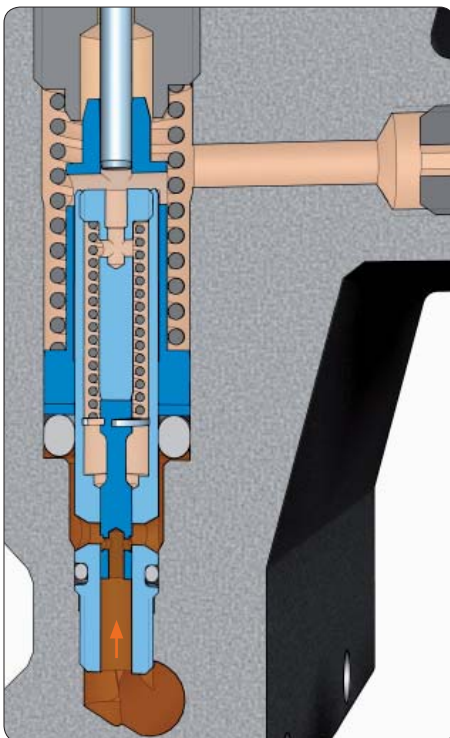
The distributor is extremely compact thanks to the V-shaped layout of metering units. This makes it suitable for installation even where space is limited.

The distributor can be expanded with the following options:

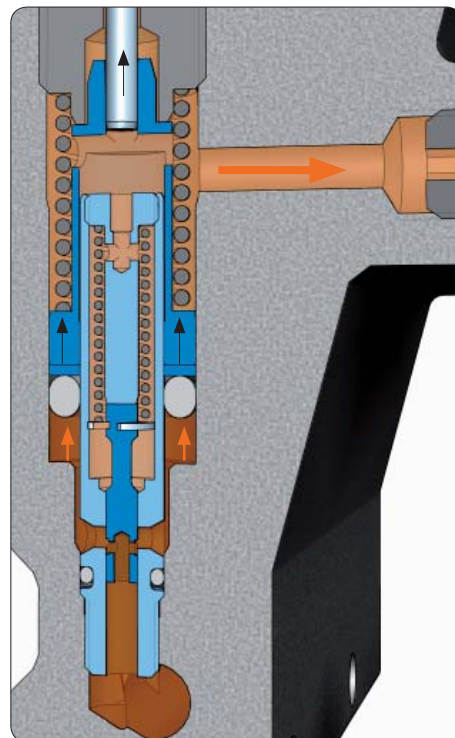
- Variable number of outlets
- Metering sizes from 0.1 to 1.3 cm³
- Optical monitoring
- Dispatch with plug-in connector or straight male connector

-  Operating pressure from the pump unit
-  Internal pressure
-  Relief pressure

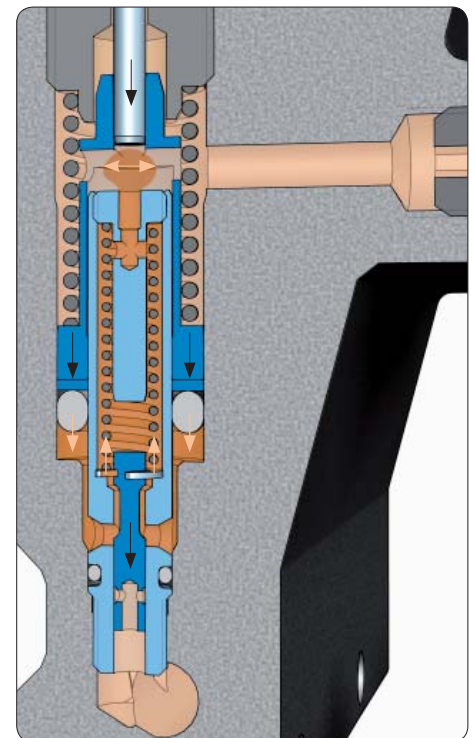
See important product usage information on the back cover.



Pressure builds up in the main line:
Control piston opens inlet to lower piston chamber.



Pressure builds up to max. pressure in the main line: The metering volume is expelled and the lower piston chamber is filled.



Pressure relief in the main line: Control piston returns to the normal position and connects the lower piston chamber with the upper piston chamber. The piston moves lubricant from the lower to the upper piston chamber.

VR Piston Distributor

Technical Data

Metering:
0.1; 0.2; 0.4; 0.6; 0.8; 1.0; 1.3 cm³

Operating pressure, min.:
110 bar at 30 bar relief pressure ¹⁾
150 bar at 70 bar relief pressure ¹⁾

Operating pressure, max.: 315 bar

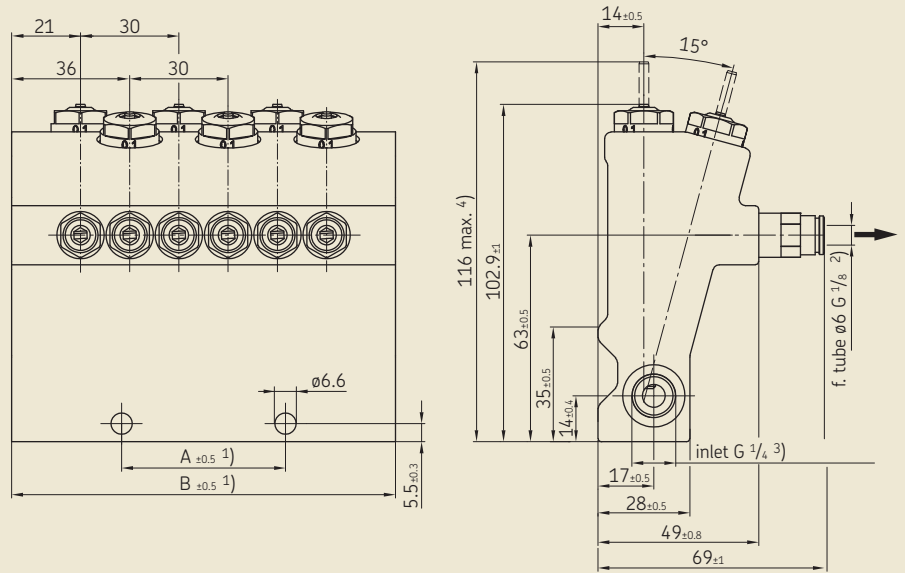
Operating temperature: -20 to +80 °C

Monitoring: Visual stroke monitoring

Lubricant: Oil or grease up to NLGI Grade 2

Materials:
Distributor body Aluminum anodized
Metering nipple Aluminum anodized
Display pin Stainless steel
Internal metering components Steel
Gaskets FPM

¹⁾ The relief pressure is defined by the spring pressure of the control piston:
Low lubricant flow pressure at low operating temperature, short main line or large internal diameter = 30 bar relief pressure
High lubricant flow pressure at low operating temperature, long main line or small internal diameter = 70 bar relief pressure



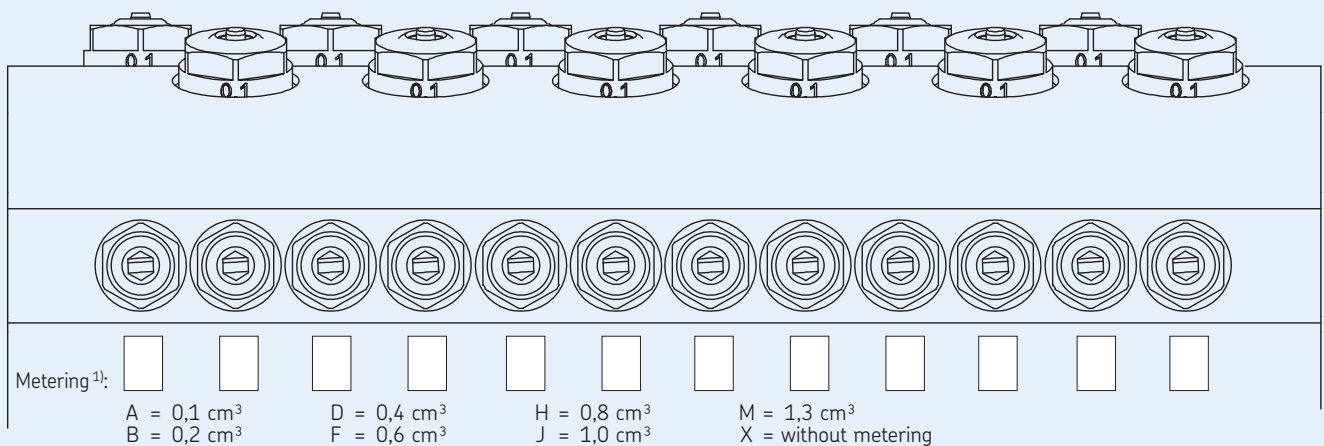
- 1) dimension A and B see table 1
- 2) quick connector for tube-ø 6 G 1/8 (standard)
- 3) form X according to DIN3852-2
- 4) total height at extended control pin
The stroke of the control pin correspond to the stroke of the mounted piston

Dimensions

Number of outlets	01	02	03	04	05	06	07	08	09	10	11	12
Dim. A [mm]	1 bore on center		32	50	50	50	50	50	50	50	50	50
Dim. B [mm]	42	57	72	87	102	117	132	147	162	177	192	207

Order key

Type	Number of outlets [max. 12]	Permitted relief pressure	Material	Grease filling	Main line connection	Lubrication point connection
VR	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	01 = 1 outlet 02 = 2 outlets ... 12 outlets	3 = 30 bar 7 = 70 bar	0 = Aluminum black anodized Stainless steel on request	0 = unfilled A = EP grease (NLGI-Kl. 2)	1 = G 1/4 2 = tubeø8 3 = tubeø10 4 = EO-2 f. tubeø8 5 = EO-2 f. tubeø10 s. leaflet. 1-0103-EN	1 = Plug-in connector f. tube ø6 2 = G 1/8 3 = M10x1



¹⁾ For technical reasons it is not possible for the customer to retrofit outlet ports without metering (X).

Order No. 1-0998-EN

Subject to change without notice! (07/2009)

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.

Further brochures

- 1-0103-EN Fittings and Accessories
- 1-2003-EN Centralized Lubrication Fears no Heights - Intelligent System Solutions for Wind Energy Systems
- 1-3030-EN KFG pump unit
- 1-3033-EN FK pump unit
- 1-9201-EN Transport of Lubricants in Centralized Lubrication Systems

SKF Lubrication Systems Germany AG

Motzener Strasse 35/37 · 12277 Berlin · Germany
PF 970444 · 12704 Berlin · Germany
Tel. +49 (0)30 72002-0 · Fax +49 (0)30 72002-111
www.skf.com/lubrication

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