



CHARACTERISTICS

Function:

- static dispensing valves

Dosing volume:

- from 10 to 750 mm³

Pipe connection:

- screw connection or plug connection Ø4mm

Sealings:

- NBR

IDEAL FOR

- Precise and failsafe dosage of oil or fluid grease
- Usable with all Bielomatik single line lubrication systems
- Usable with Bielomatik manifolds M10x1

APPLICATIONS

- Single point lubrication with oil or fluid grease
- Machine tools
- Wood processing machines
- Packaging machines
- Sheet metal machinery

DOSING ELEMENT

Dosing elements are reliable and efficient static dosing valves. Lubrication quantity between 10 mm³ and 750 mm³ per stroke can be metered out with these dosing elements. Dosing elements are reliable and efficient static dosing valves.

Structure and mode of action

Metering procedure:

If pressure is built-up at the entrance of the body, then the lubricant flows to the lower surface of the seal via return valve. The seal with the piston moves against the force of the spring up to the end stop on the dosing nozzle. Metering is done, whereby, the displaced lubricant flows through a transverse and longitudinal bore to the centre of the outlet.

Relieving procedure:

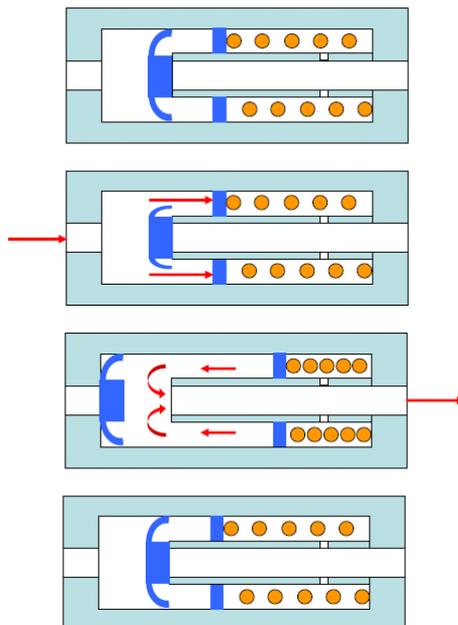
If pressure at the entrance falls below the relief pressure, the return valve lifts as a result of the tensioned spring and releases its longitudinal bore. The lubricant flows through the longitudinal and transverse bore at the centre from the lower to the upper side of the piston, which moves up to its lower end stop. The valve is then in the initial position and is ready for the next metering.

The dosing element can be used with all pumps of the single line system.

Plug-In connection



Screw-In connection



Position 1:

Initial position.
Main line is ventilated. Return valve in the initial position.

Position 2:

Dosing through pulse initiated.
Return valve in the restacking position.
Fill lubricant.

Position 3:

Dosing.
Return valve encircles the main line.
Spring force of the seal doses the lubricant.

Position 4:

Back to the initial position



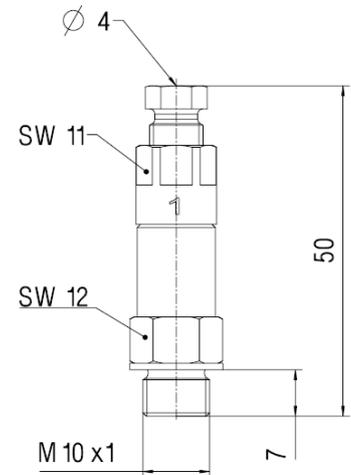
TECHNICAL INFORMATION

Function	Static dispensing Valve
Metering volume	10-750 mm ³
Minimum pressure	14 bar
Max. Pressure	100 (50) bar*
Max. Relief Pressure	3 bar
Temperature Range	0-70°C
Medium	Mineral Oil 50-1000mm ² /s Fluid Grease 000-0**
Sealings	NBR
Input Connection	M10x1
Output Connection	Screw-In Ø4 or Plug-In Ø4

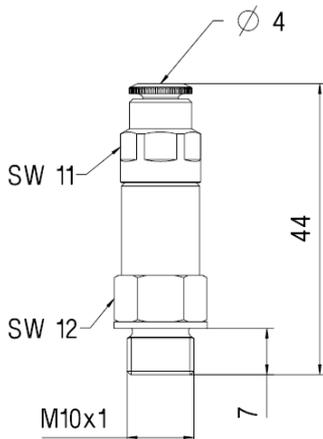
* see Ordering Information

** according To Fluid Grease release list

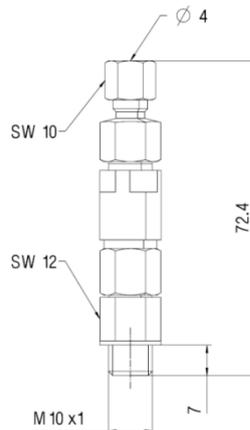
Type 1: Screw-In



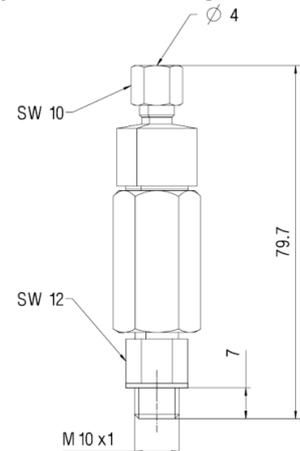
Type 2: Plug-In



Type 3: Screw-In high volume A



Type 4: Screw in High Volume B



ORDERING INFORMATION

TYPE	METERING VOLUME MM ³	MAX. PRESSURE BAR	ORDERING NUMBER
Screw-In	10	100	P30020800
Screw-In	20	100	P30020801
Screw-In	30	100	P30020802
Screw-In	50	100	P30020803
Screw-In	100	100	P30020804
Screw-In	160	100	P30020805
Plug-In	10	100	P30020820
Plug-In	20	100	P30020821
Plug-In	30	100	P30020822
Plug-In	50	100	P30020823
Plug-In	100	100	P30020824
Plug-In	160	100	P30020825
Screw-In HV A	200	50	P30020902
Screw-In HV A	300	50	P30020903
Screw-In HV A	500	50	P30020905
Screw-In HV B	750	50	P30020907