



CHARACTERISTICS

Dosing volume:

- from 5 to 1,000 mm³

Pipe connection:

- compression fitting
or push in fitting
Ø4mm

METERING VALVE TYPE ZV

ZV Metering valves are simple and inexpensive dynamic dosing valves. They can dispense lubrication quantities between 5 and 1000 mm³ per Stroke.

Structure and mode of action

A pressure pulse is required for actuation. As a result of this pulse, the dosing piston is moved dynamically towards the return valve (position 2). With this stroke movement, a specific lubricant volume (dosing volume) is dispensed through the return valve. After completion of the stroke, the dosing valve closes the connecting bore. The dosing process is finished (position 3) and the return valve closes. After completing the lubrication cycle and subsequent relieving of the main line, the dosing piston is returned to its starting position by spring tension. The lubricant is thus restacked via the clearance between the dosing piston and the body of the metering valve (position 4).

The metering valves need a sharp pressure increase to function properly. Suitable pumps are: **AB-H, AB-P** and **AM**

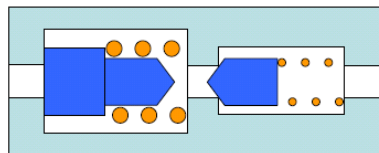


IDEAL FOR

- Dosage of oil or fluid grease with pneumatic pumps (AB-H, AB-P, AM,...) or dynamic electric pumps
- Automatic lubrication on a budget

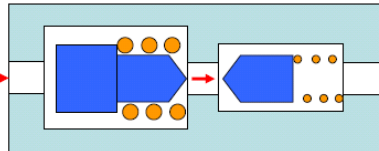
APPLICATIONS

- Single point lubrication with oil or fluid grease
- machine tools, wood cutting machines, laser cutting machines, packaging machines,...
- General industry



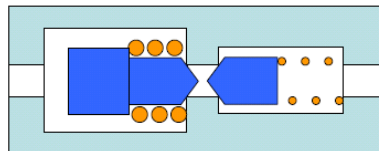
Position 1:

Initial position
The main line is relieved, dosing valve in the initial position, return valve closed.



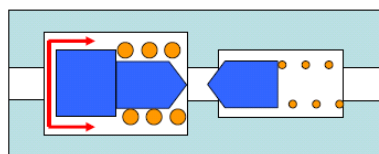
Position 2:

Dosing through pulse initiated.
Dosing valve in the pressure stroke position, return valve opened.



Position 3:

Dosing completed.
Dosing valve in the closed position, return valve closed.



Position 4:

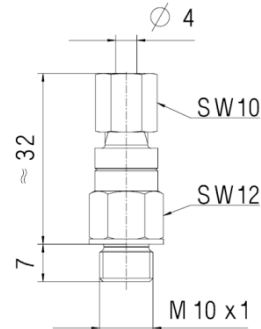
Relief of main line initiated.
Dosing valve in the restacking position, return valve closed.

ZV - METERING VALVES

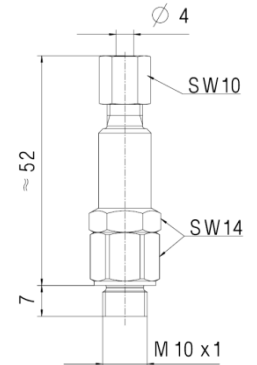


ORDERING INFORMATION

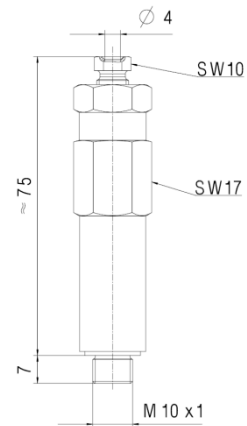
Type	Dosing Volume	Material No.	Picture
Compression Fitting	5 mm ³	30020030	1
	10 mm ³	30020000	1
	20 mm ³	30020001	1
	30 mm ³	30020002	1
	50 mm ³	30020003	1
	100 mm ³	30020004	1
	200 mm ³	30020005	2
	250 mm ³	30020017	3
	500 mm ³	30020018	3
	1000 mm ³	30020019	3
Push-In	10 mm ³	30020400	4
	20 mm ³	30020401	4
	30 mm ³	30020402	4
	50 mm ³	30020403	4
	100 mm ³	30020404	4
	200 mm ³	30020405	5



Picture 1



Picture 2



Picture 3

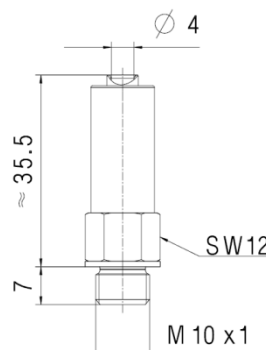
SPARE PARTS

Name	For Valves	Material No.
Nut Ø4mm f. compression Fitting	All Pic. 1	30256618
Union Screw Ø4mm f. compression fitting	All Pic. 3	30251014
Double taper ring Ø4mm	All Pic. 1,2,3	30215200
Sealing Ring M10x1	All Types	30049331

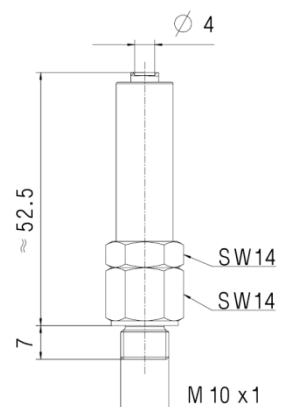
ACCESSORIES

Name	Material No.
Manifolds	30048XXX *
Polyamid Tube Ø4mm	30040302
Insert Sleeve f. Polyamid Tubes	30049401

* see Data Sheet 30848002



Picture 4



Picture 5