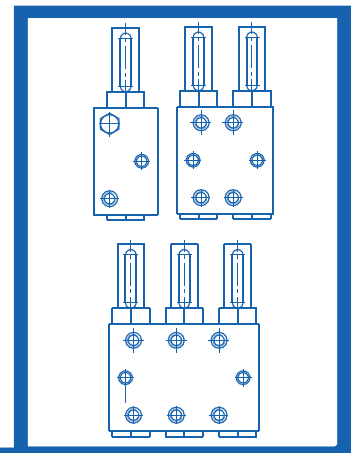


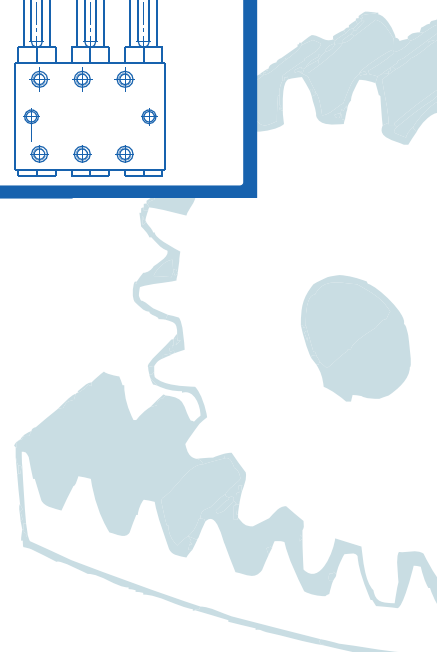
TWO-WAY FEEDERS (dosing distributors) DD Type



Two-way feeders DD



Two-way feeders DD



Application

Two-way feeders (dosing distributors) are designed to feed certain portions of lubricant to the lubrication points in machines and devices. They are component parts of two-way force feed oiling systems.

Construction

A feeder consists of the following parts and assemblies: body, pistons articulated with shanks, distributing slides and delivery controllers' bodies with seals. In the controllers' bodies, there are oblong holes for visual control of the feeder operation; in the feeder's body (Fig. 1), there are holes with M16 x 1.5 threaded seats to connect main lubrication conduit lines and M14 x 1.5 to connect lines through which grease is fed to the reception points.

Operation

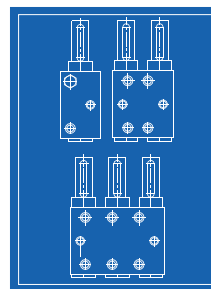
Lubricant forced by a pump to one of the lubrication main conduit lines reaches the feeder slide chamber which makes the slide move and open the hole connecting the slide chamber to the piston chamber. Under the pressure, the piston moves to the extreme position and the lubricant fills the space which occurs. During the piston movement, the lubricant from the previous operation cycle, present in the feeder, is pushed to the outlet (Fig. 4) and then through a line to the reception point.

In the next operation cycle of the lubrication system, the pump forces the lubricant to the other line of the lubrication main conduit. The operation phases described above are repeated, but the slide and piston move to the other extreme position and a new portion of grease is fed to the lubrication point. In feeders of one lubricant outlet, the grease of both operation cycles is directed to the one outlet, while in all others, to a different outlet after each cycle. Performance of each feeder outlet may be controlled by restricting the piston stroke with the control screw located in the controller body.

Feeder connectors

Types and sizes of connectors and crude lines which should be used to install the feeder in the lubrication system are indicated in Fig. 4.

Technical details



Number of lubricant outlets
 Max. delivery from one outlet
 Nominal pressure
 Min. activating pressure
 Types of lubricants fed

1, 2, 3, 4 or 6
 2, 4 or 8 cm³/cycle
 32 MPa

Working temperature

1 MPa
 plastic grease of the consistence class ≤ 2
 acc. to PN-72/C-04095 (NLGI) and
 oils of ≥ 30 cSt. /50°C viscosity
 -10 ... 60°C

Execution

Feeders are manufactured in varieties indicated in the drawings (Fig. 2) and the table (Table 2); they have a different number of lubricant outlets and delivery.

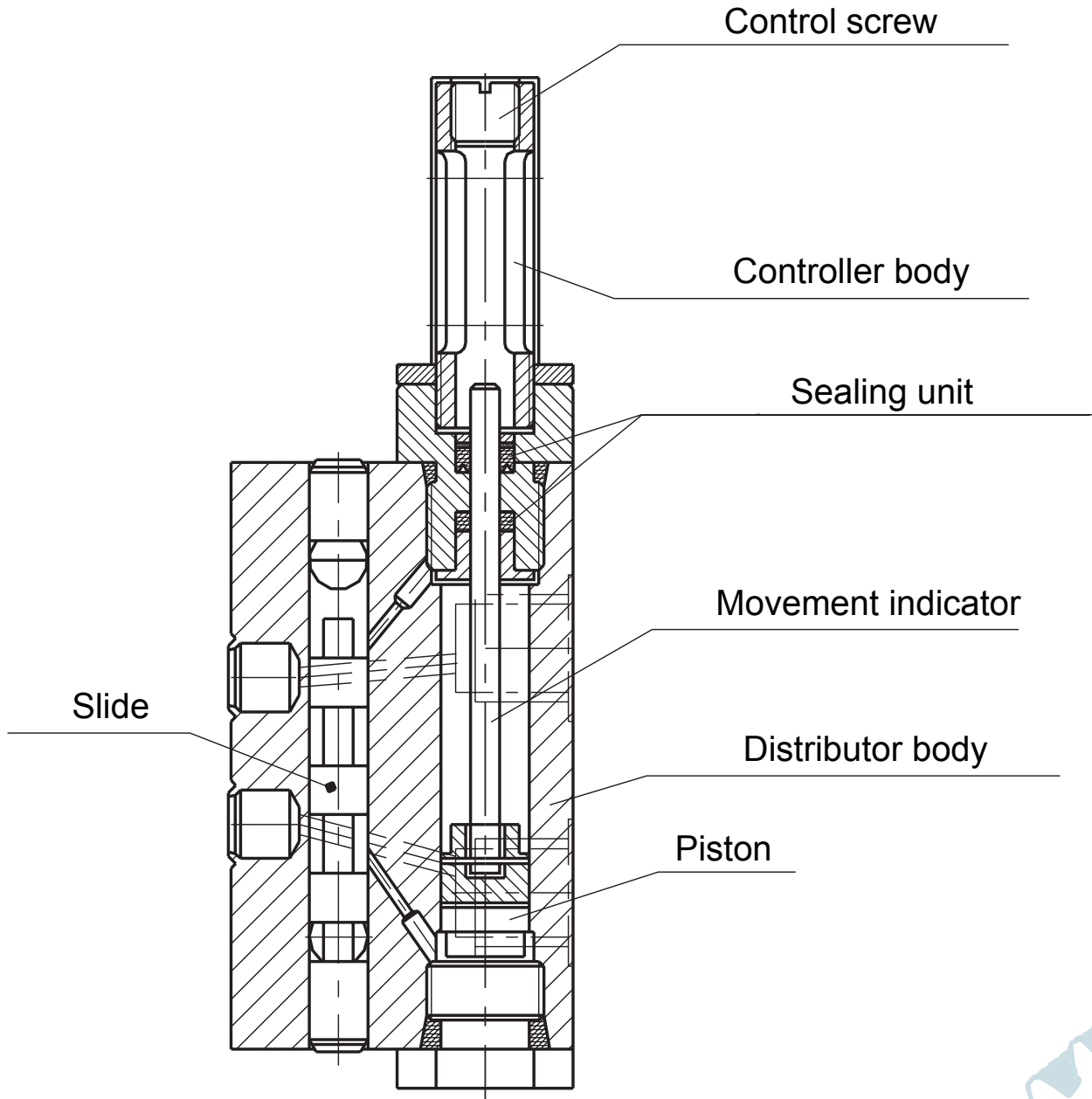


Fig. 1 Construction of a feeder

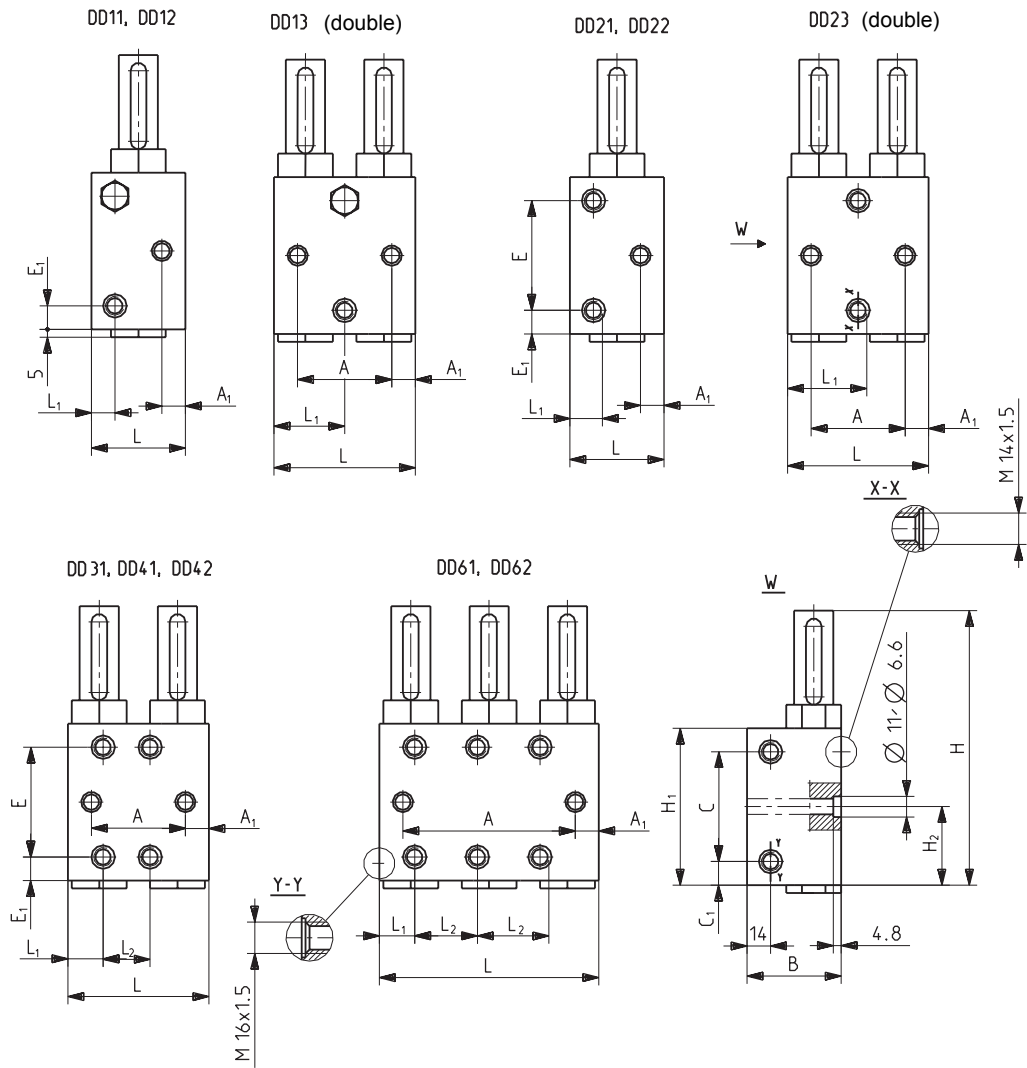


Fig. 2 Variations of distributors manufactured

Execution	Number of outlets	Delivery cm ³ /cycle		A	A ₁	B	C	C ₁	E	E ₁	H	H ₁	H ₂	I	I ₁	I ₂	Weight kg
		min.	max.	mm													
DD11	1			-										45		-	0,78
DD21	2			-										45		-	0,78
DD31	3	0,5	2	61	7	40	42	12	30	18	112	66	33	75	10,5	30	1,33
DD41	4			61										75		30	1,33
DD61	6			91										105		30	1,90
DD12	1			-										47		-	1,25
DD22	2			-										47		-	1,25
DD42	4	1,15	4	67	7	45	52	12	34	21	122	76	38	81	10,5	34	1,93
DD62	6			101										115		34	2,77
DD13	1	2,3	8	59	7	45	52	12	34	21	122	76	38	73	36,5	-	1,77
DD23	2			59										73		-	1,73

Table 1. Dimensions of manufactured feeders

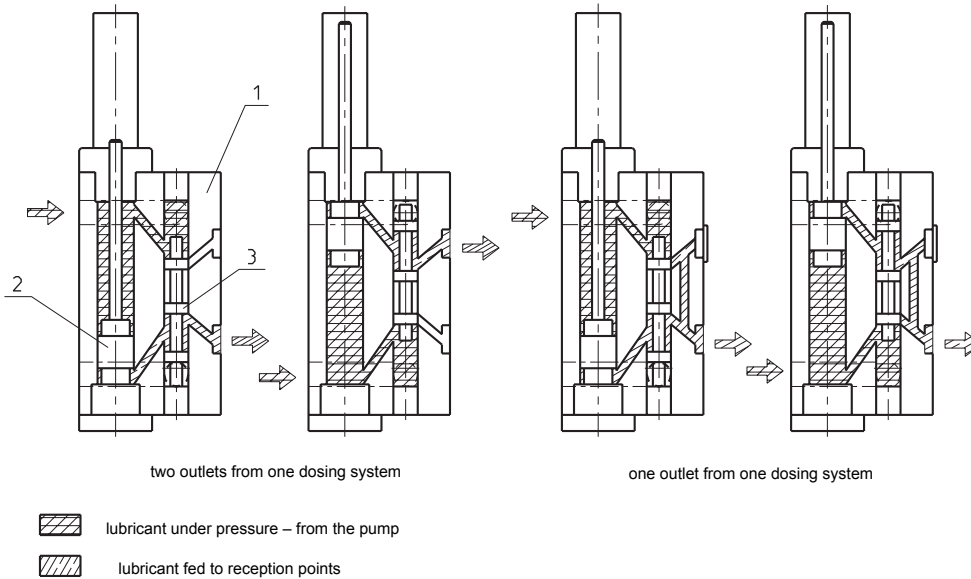
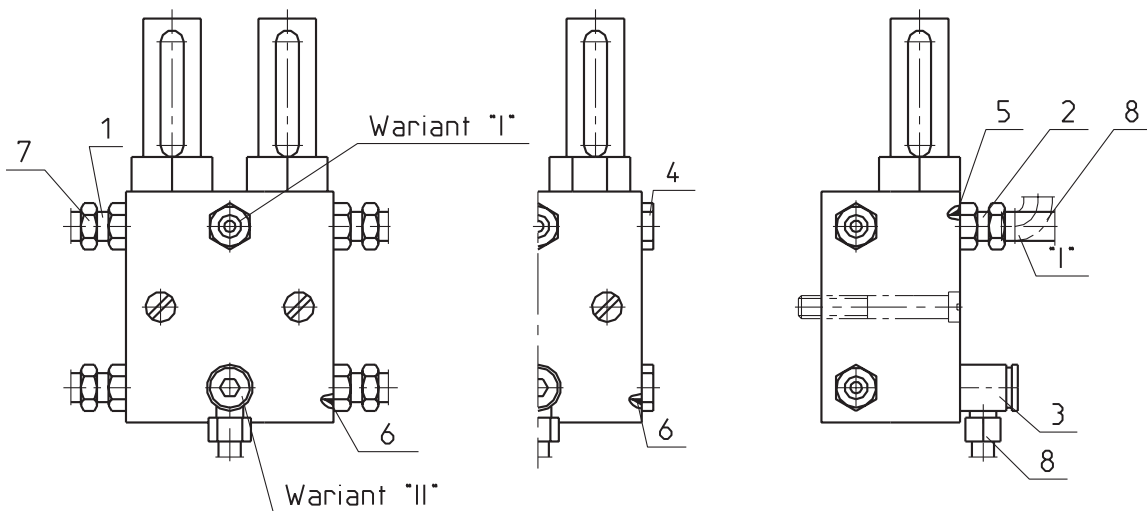


Fig. 3 Scheme of feeder operation



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Straight coupling
PP160-10 for pressure ≤ 16 MPa
PP320-8 for pressure < 16 MPa 2. Straight coupling PP160-8 3. Angle coupling PK160-8 4. Plug M16x1.5 | <ol style="list-style-type: none"> 5. Gasket ring U14 6. Gasket ring 13.2x2.4-PN-60/M-86961 7. Precise pipe PN-73/H-74240-BZ-R35
12x1 for pressure ≤ 16 MPa
12x2 for pressure > 16 MPa 8. Precise pipe PN-73/H-74240-BZ-R35-10x1 |
|---|--|

Fig. 4 Feeder connectors

