

Piston distributors for FLUID GREASE (NLGI 00-000)

General aspects

Suitable for use in single line central lubrication systems to inject lubricant from an intermittent drive system pump.

The pump builds pressure up on the main line and feeds the distributors that inject a given quantity of lubricant to the lubrication points.

The lubricant flow rates for the various points are determined through the doser nipple. The total demand for lubricant (cm³/hour) can also be regulated through the frequency of lubrication.

They operate reliably within a wide range of viscosities and independent of the rate of pressure rise from the pump.

Two assembly types are provided:

- Single dispensers for manifold assembly (fig.1)
- Distributor blocks with 2-3-5 outlets (fig.2)

Operation

Initial position (Fig.3)

The piston unit is in resting position.

The lubricant is on the side of the spring piston and the non-return unit blocks the way from the inlet hole inwards.

Dosage (Fig.4)

The pump builds pressure up and moves the piston expelling the lubricant through the outlet hole.

The non-return valve allows lubricant to flow to the lower piston chamber and blocks the way to the inner hole of the shaft guide.

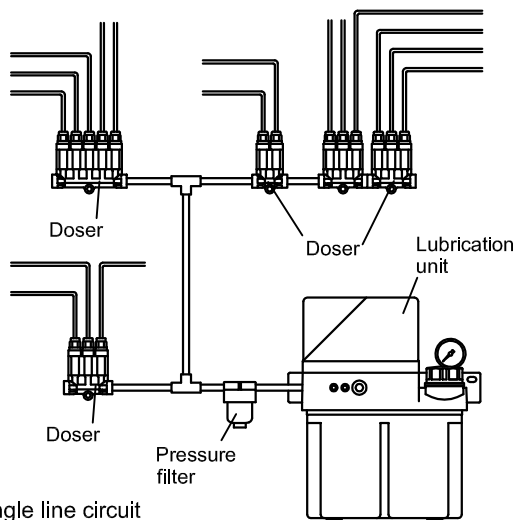
The amount of dosed lubricant depends on the length of the outlet nipple (it limits the stroke of the piston).

End of cycle (Fig.5)

The pump stops turning and the spring moves the piston back to its initial position.

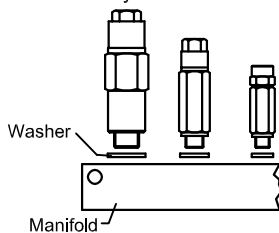
The pressure moves the non-return valve by:

- Opening the inner hole of the shaft guide and joining the piston's lower chamber with the upper chamber.
- Blocking the inward access from the inlet.

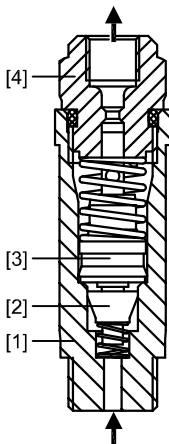
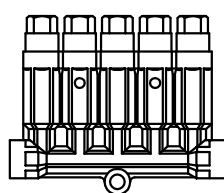


Single line circuit

(Fig.1)
 Dosers for manifold assembly

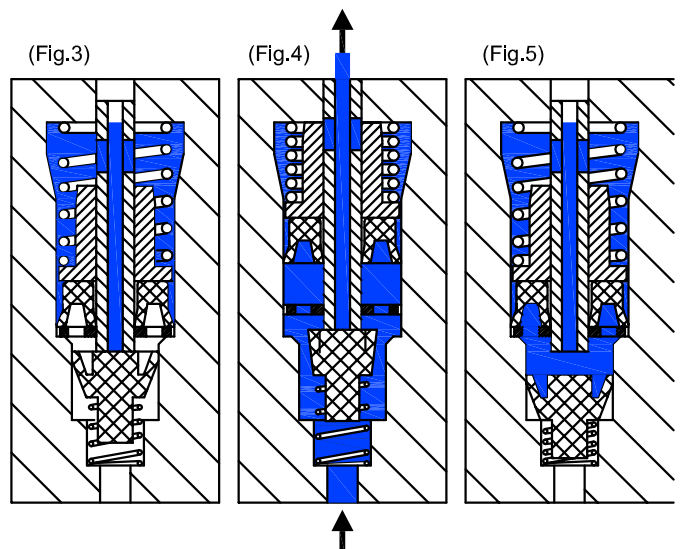


(Fig.2)
 Distributor block



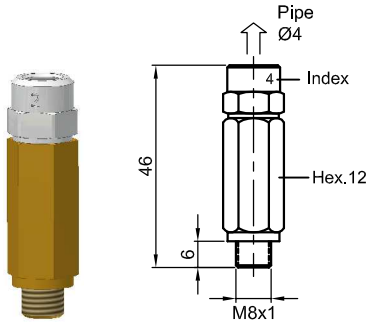
Construction

- [1] Body
- [2] Non-return valve
- [3] Piston
- [4] Doser nipple



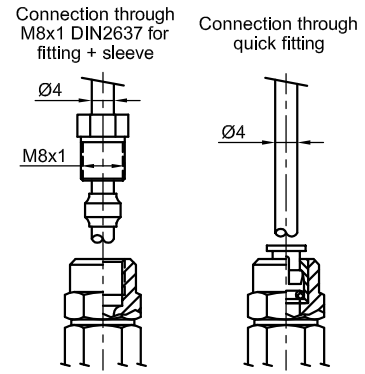
Piston distributors for FLUID GREASE (NLGI 00-000)

Mod. **DE02/B** 170.150.000
 Mod. **DE07/B** 171.150.000



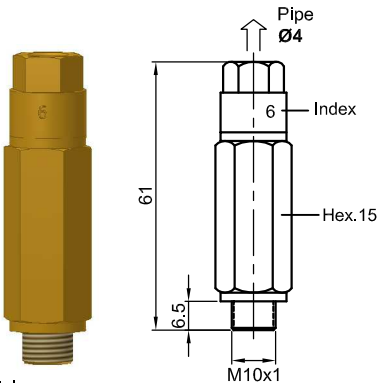
Material:
 -Brass body.
 -Steel doser fitting.

DE (X)/B-0/(X)	
Outlet pipe connection Ø4	Flow
(02) M8x1 DIN2637 for fitting + sleeve	(1) 0,01 cm3 (2) 0,03 cm3 (3) 0,06 cm3 (4) 0,10 cm3
(07) Quick fitting	



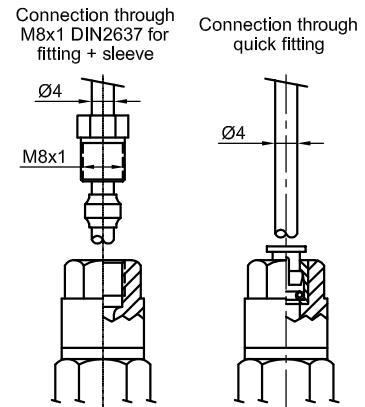
See connection details in page 06

Mod. **DE02/C** 170.160.000
 Mod. **DE07/C** 171.160.000



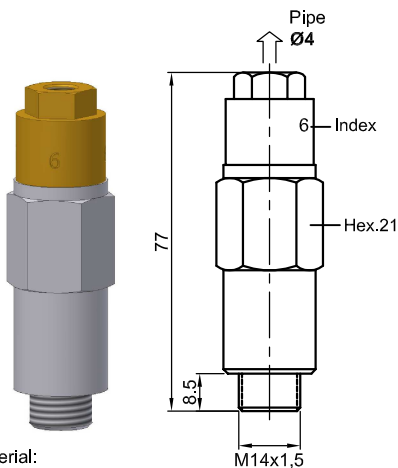
Material:
 -Brass body.
 -Brass doser fitting.

DE (X)/C-0/(X)	
Outlet pipe connection Ø4	Flow
(02) M8x1 DIN2637 for fitting + sleeve	(4) 0,1 cm3 (5) 0,2 cm3 (6) 0,3 cm3
(07) Quick fitting	



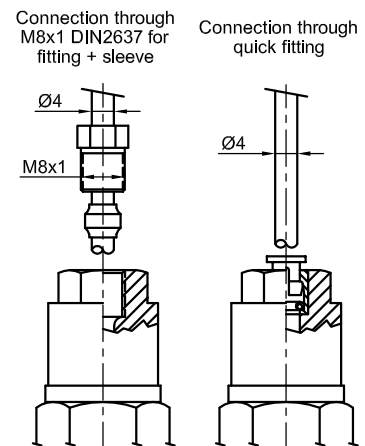
See connection details in page 06

Mod. **DE02/D** 170.170.000
 Mod. **DE07/D** 171.170.000



Material:
 -Zamak body.
 -Brass doser fitting.

DE (X)/D-0/(X)	
Outlet pipe connection Ø4	Flow
(02) M8x1 DIN2637 for sleeve + fitting	(4) 0,1 cm3 (5) 0,2 cm3 (6) 0,3 cm3
(07) Quick fitting	



See connection details in page 06

Manifolds for dosers

RF01/B
502.200.000
DIN 2367

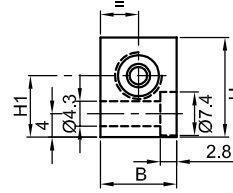
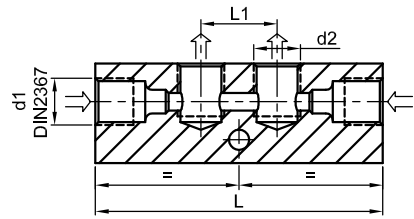


Fig. 1

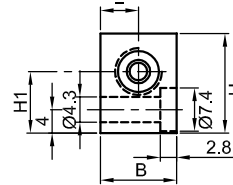
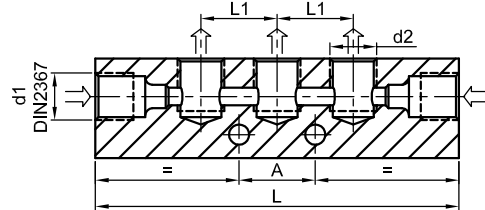


Fig. 2

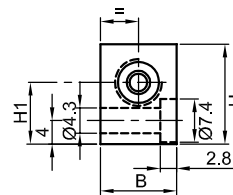
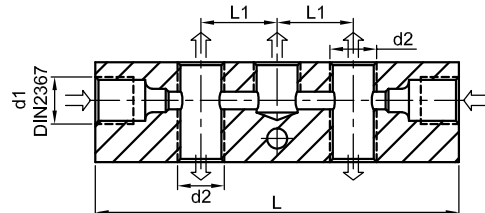


Fig. 3

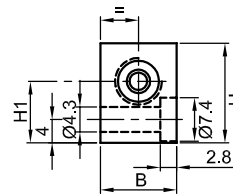
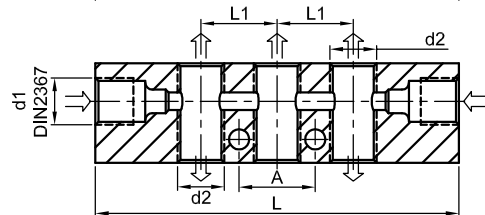
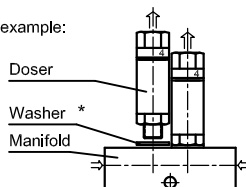


Fig. 4

Fig.	d1 DIN2367	d2	N° of outlets	Reference	L	A	H	B	H1	L1	Material
1	M8x1 pipe Ø4	M8x1	2	RF01/B-1-402	49	—	17	13	10.5	13	Aluminium
			3	RF01/B-1-403	62	—					
	M10x1 pipe Ø6	M8x1	2	RF01/B-1-602	52	—	17	13	10.5	13	Aluminium
			3	RF01/B-2-602	56	—					
			2	RF01/B-1-603	65	—	20	16	11	17	Steel
			3	RF01/B-2-603	73	—					
			4	RF01/B-1-604	78	—	17	13	10.5	13	Aluminium
	5	RF01/B-1-605	91	—							
	M14x1,5 pipe Ø8	M8x1	2	RF01/B-1-802	61	—	20	18	11	13	Aluminium
			3	RF01/B-1-803	74	—					
4			RF01/B-1-804	87	—						
M10x1 pipe Ø6	M10x1	2	RF01/B-1-662	58	—	20	18	11	17	Aluminium	
		3	RF01/B-1-663	75	—						
		5	RF01/B-1-665	109	—						
2	M10x1 pipe Ø6	M8x1	8	RF01/B-1-608	130	52	17	13	10.5	13	Aluminium
			10	RF01/B-1-610	156	78					
	M14x1,5 pipe Ø8	M8x1	6	RF01/B-1-806	113	39	20	18	11	13	Aluminium
			8	RF01/B-1-808	139	65					
3	M10x1 pipe Ø6	M10x1	6	RF01/B-1-666	126	68	20	18	11	17	Aluminium
	M8x1 pipe Ø4	M8x1	5	RF02/B-1-405	62	—	17	13	10.5	13	Aluminium
			5	RF02/B-1-605	65	—					
4	M10x1 pipe Ø6	M8x1	5	RF02/B-2-605	73	—	20	16	11	17	Steel
			5	RF02/B-1-805	74	—					
	M14x1,5 pipe Ø8	M8x1	5	RF02/B-1-805	74	—	20	18	11	13	Aluminium
4	M10x1 pipe Ø6	M10x1	6	RF02/B-1-666	75	17	20	18	11	17	Aluminium

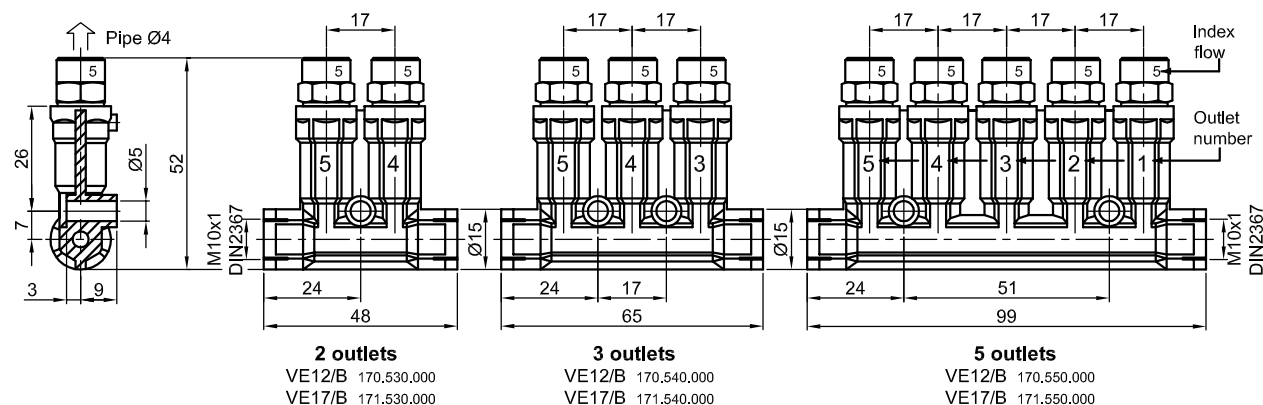
Application example:



* Aluminium washer Ø8 Ref. 956.600.002
Ø10 Ref. 956.600.003
* Copper washer Ø8 Ref. 956.601.002
Ø10 Ref. 956.601.003

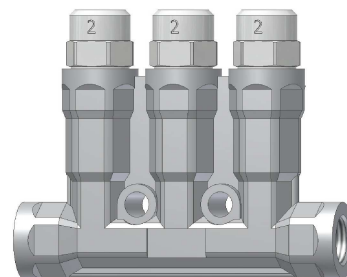
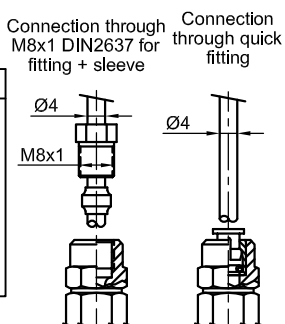


Piston distributor for FLUID GREASE (NLGI 00-000)



VE (X) / B - 0 / (X) - (X) (X) (X) (X) (X)						
Outlet pipe connection Ø4	No. Outlets	Outl. 5	Outl. 4	Outl. 3	Outl. 2	Outl. 1
12 M8x1 DIN2637 for fitting + sleeve	2	(X)	(X)			
	3	(X)	(X)	(X)		
17 Quick fitting	5	(X)	(X)	(X)	(X)	(X)

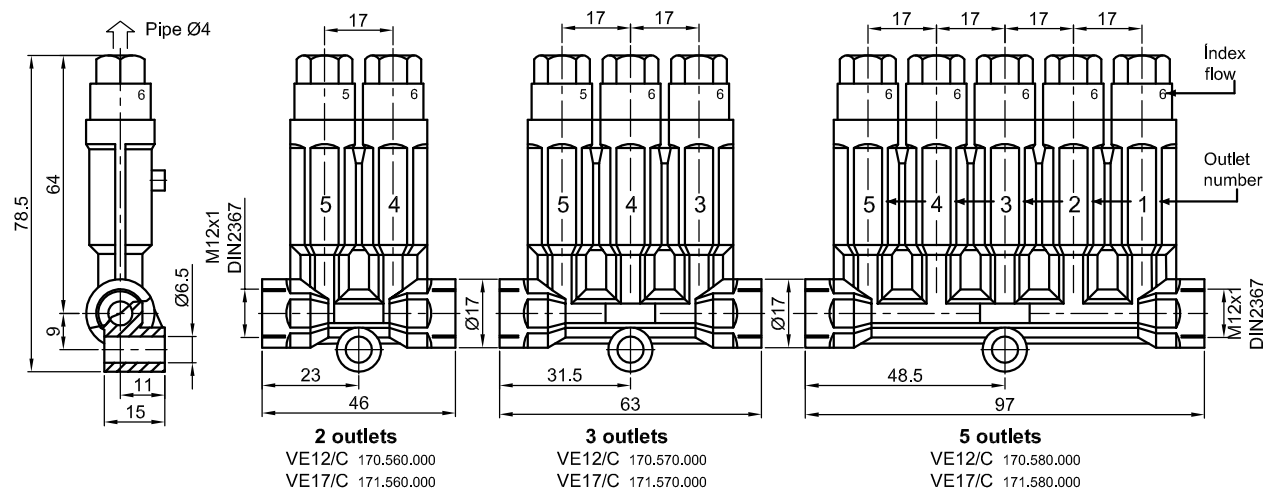
Index / Flow
0 0
1 0,01 cm3
2 0,03 cm3
3 0,06 cm3
4 0,10 cm3



Material:
-Zamak body.
-Steel doser fitting.

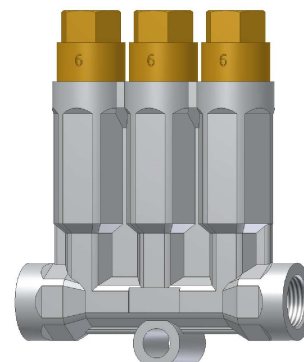
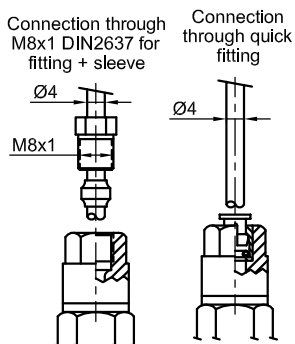
Order example:
3 outlets distributor with the following flows left to right: 0,10-0,06-0,10cm3
Reference: VE12/B-0/3-434
To modify the flow change the corresponding outlet fitting.
See codes in page 06. Index 1 (0,01cm3) cannot be modified.

See connection details in page 06



VE (X) / C - 0 / (X) - (X) (X) (X) (X) (X)						
Outlet pipe connection Ø4	No. Outlets	Outl. 5	Outl. 4	Outl. 3	Outl. 2	Outl. 1
12 M8x1 DIN2637 for fitting + sleeve	2	(X)	(X)			
	3	(X)	(X)	(X)		
17 Quick fitting	5	(X)	(X)	(X)	(X)	(X)

Index / Flow
0 0
4 0,1 cm3
5 0,2 cm3
6 0,3 cm3

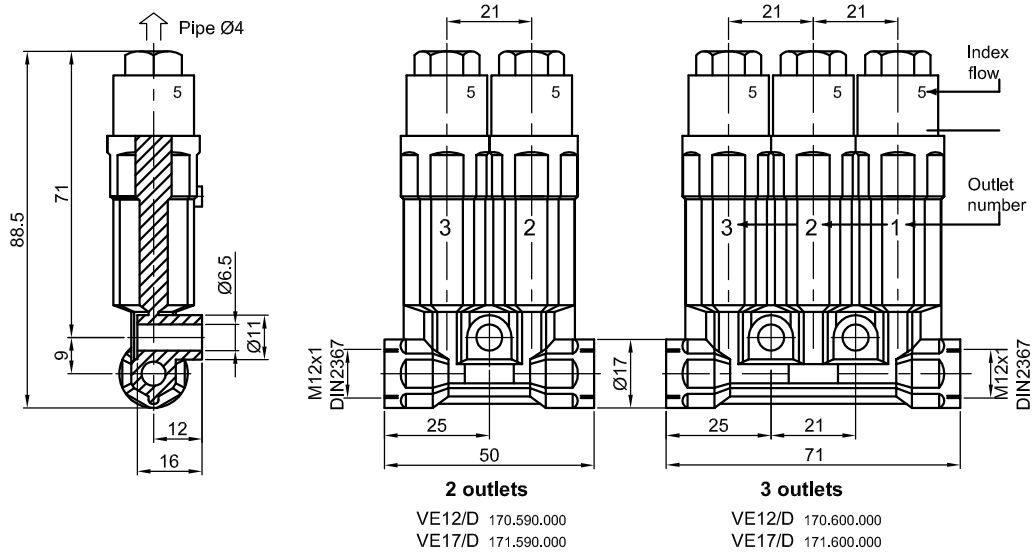


Material:
-Zamak body.
-Brass fitting doser.

Order example:
3 no outlet doser with the following flows left to right: 0,3-0,2-0,3cm3
Reference: VE12/C-0/3-656
To modify the flow change the corresponding outlet fitting.
See codes in page 06.

See connection details in page 06

Piston distributors for FLUID GREASE (NLGI 00-000)



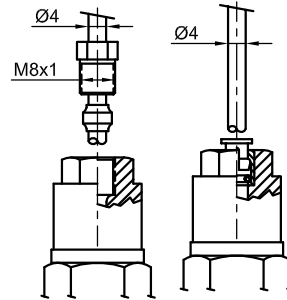
2 outlets
 VE12/D 170.590.000
 VE17/D 171.590.000

3 outlets
 VE12/D 170.600.000
 VE17/D 171.600.000

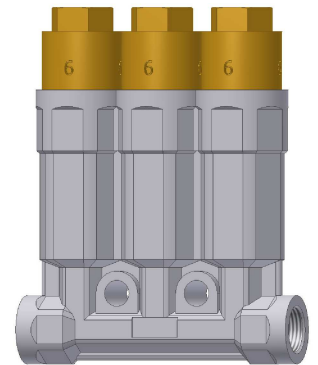
VE (X) / D - 0 / (X) - (X) (X) (X)					
Outlet pipe connection Ø4	No. Outlets	Outl. 3	Outl. 2	Outl. 1	Index / Flow
12 M8x1 DIN2637 for fitting + sleeve	2	X	X		
17 Quick fitting	3	X	X	X	

Order example:
 3 no outlet doser with the following flows left to right: 0,3-0,2-0,3cm3
 Reference: VE12/D-0/3-656
 To modify the flow change the corresponding outlet fitting.
 See codes in page 06.

Connection through M8x1 DIN2637 for sleeve + fitting
 Connection through quick fitting



See connection details in page 08



Material:
 -Zamak body.
 -Brass doser fitting.

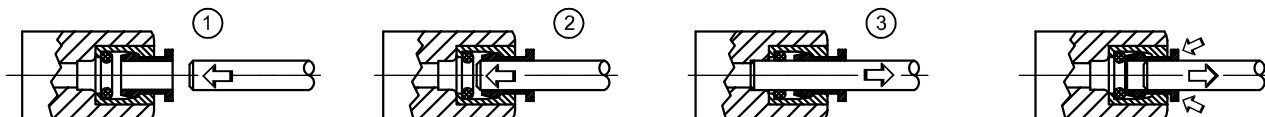
-Indications on the connection with quick fittings-

Cut the Ø4 pipe and insert it into the fitting.
For rigid or metal pipes chamfer the outer diameter of the pipe to avoid possible damage to the O-ring inside the fitting.

Fully insert the pipe until it reaches the stop at the bottom of the housing.

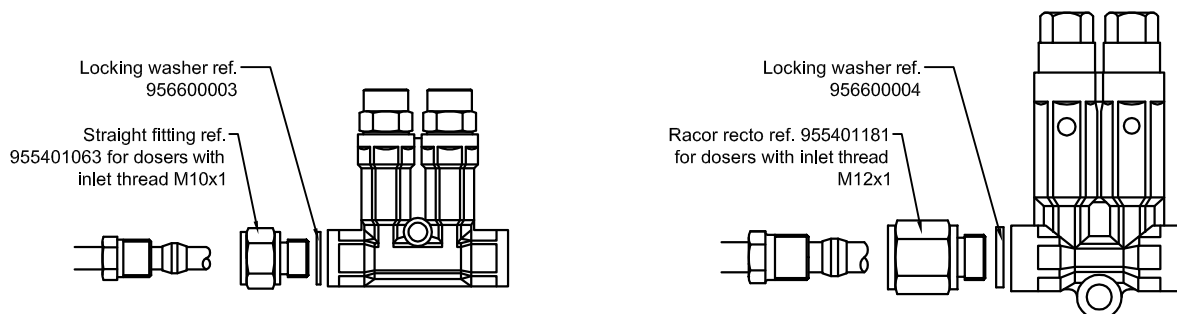
To ensure the connection is correctly fitted pull the pipe outwards: it must stay tied up and without moving.

To disconnect press down the plastic tab towards the fitting pulling the pipe at the same time.



-Indications on the main line connection-

To achieve the correct fitting of the nipples with the doser inlet of the main line connections it is recommended to tie in an inlet fitting to avoid direct assembly of the nipple on the aluminium body of the doser.



Technical characteristics

Lubricant Synthetic and mineral oils
Fluid Grease NLGI 00-000
Working pressure sizes B-C: 13 ÷ 45 bar
size D: 20 ÷ 45 bar
Pressure relief sizes B-C: <3 bar
size D: <10 bar
Working temperature +10°C ÷ +70°C
Gasket material..... FPM

Spare parts doser nipples

Index	Flow	DE02/B VE12/B	DE07/B VE17/B	DE02/C VE12/C	DE07/C VE17/C	DE02/D VE12/D	DE07/D VE17/D
0	0 cm3	171.065.000	171.065.000	172.000.000	172.000.000	173.000.000	173.000.000
2	0,03 cm3	171.075.003	171.475.003				
3	0,06 cm3	171.080.006	171.480.006				
4	0,10 cm3	171.085.010	171.485.010	172.085.010	172.485.010	173.085.010	173.485.010
5	0,20 cm3			172.090.020	172.490.020	173.090.020	173.490.020
6	0,30 cm3			172.095.030	172.495.030	173.095.030	173.495.030