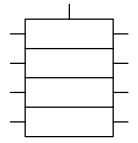
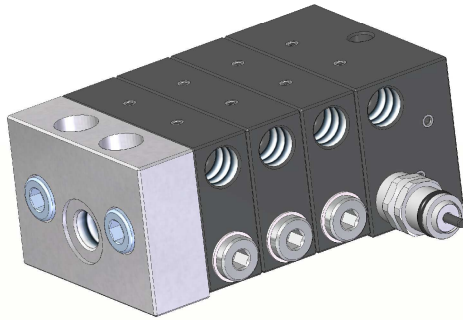


**VP20/A**

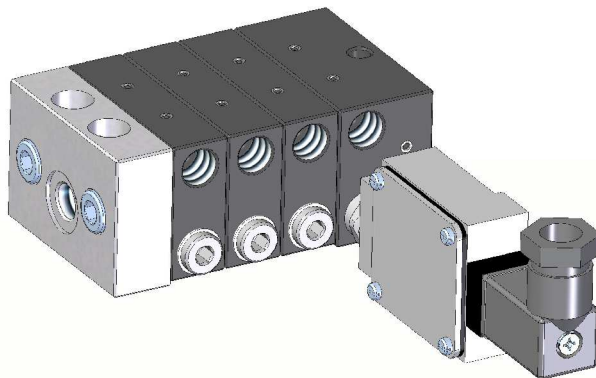


**Plate assembly progressive distributor**

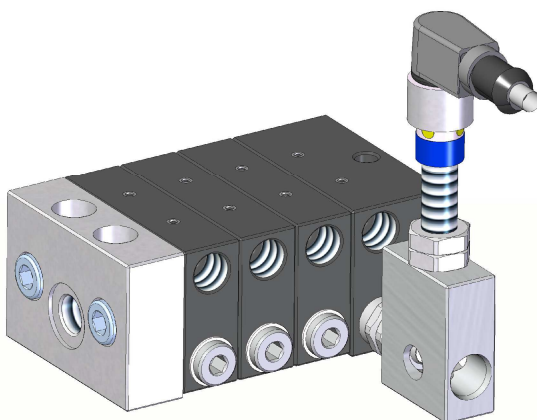
M10x1 - 308.000.000



Visual monitoring



Electrical monitoring with microswitch



Electrical monitoring with inductive sensor

**General aspects**

Distributors from series VP20/A have been designed to be built on stacked plates and they are suitable for use in central lubrication systems with grease or oil.

They operate according to the progressive system dividing the lubricant delivered from the inlet to the outlets in relationship to the flow rate of each plate, which is directly proportional to the diameter of the internal piston: the greater the diameter the bigger the flow.

This ration can be increased by combining outlets (plugging, bridging, etc.)

At its simplest level the distributor consists of:

- 1 Initial plate with lubricant inlet hole.
- 2 Intermediate dosing plates.
- 1 Final dosing plate.

The initial plate is common to all combinations. The final and intermediate plates vary according to flow.

All plates are attached to each other through two screw tie rods and the combinations are sealed with high resistance o-ring joints.

Different options for monitoring can be incorporated:

- visual check
- electrical check with microswitch
- electrical check with inductive sensor

**Technical data**

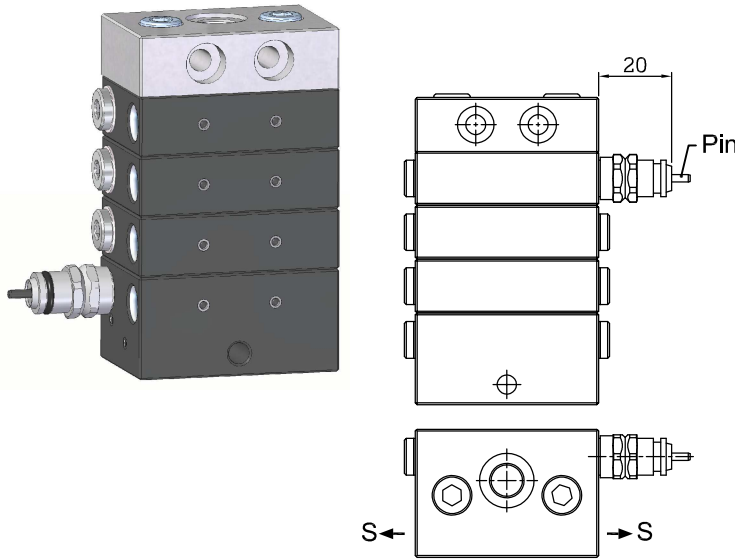
Output flow.....24 - 45 - 75 - 110 mm<sup>3</sup>/stroke  
 Material..... steel with treated surface  
 .....AISI 316

Lubricants:

- Oil..... from 30 cSt
- Grease..... up to NLGI 2
- Working pressure..... 15÷300 bar
- Working temperature..... -15°C÷ + 120°C
- Maximum input flow:
- Oil..... 500 cm<sup>3</sup>/minute
- Grease..... 10 cm<sup>3</sup>/minute
- Maximum number of outlets..... 24

## Monitoring Systems

The monitoring system can be mounted on all dosing plates that you require

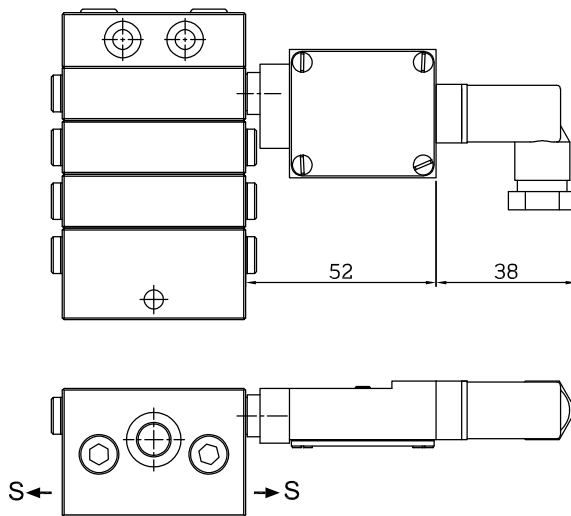


### Visual monitoring

The movement of a pin connected to the internal piston, externalises the movements and enables to visually control the correct operation of the whole installation.

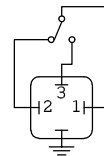
**Important: the visual control is not an after-sales supply element, it must be incorporated in-house at source.**

Working temperature..... -15°C ÷ +120°C

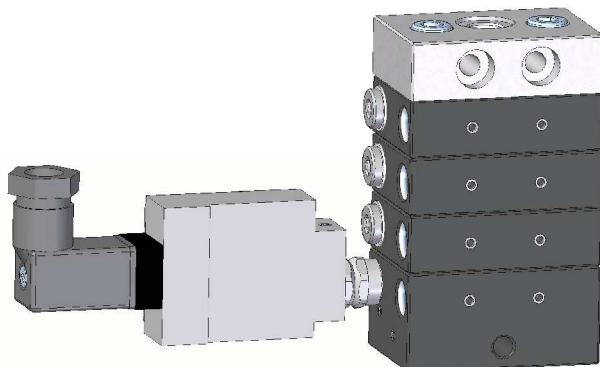


### Electrical monitoring with micro (IP65)

It consists of an aluminium box with a cover, with a microswitch inside which is driven by the movement of a pin connected to the internal piston.

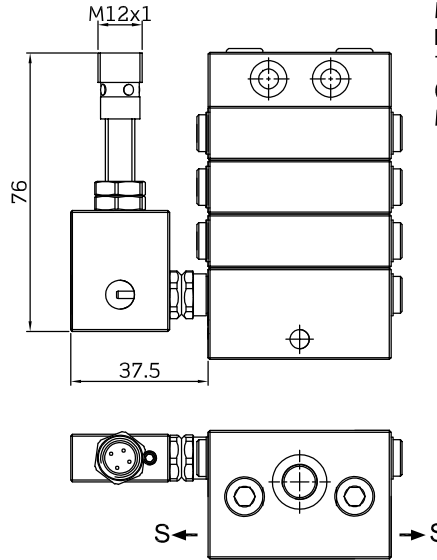
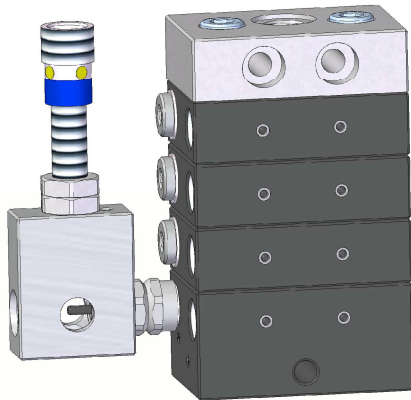


Micro..... 250V 5A (EN61058 / UL1054)  
 Temperature..... -15°C ÷ +120°C  
 Protection degree..... IP65  
 Connection..... DIN43650 3 polos PG7  
 Max. number of cycles.....100/minute

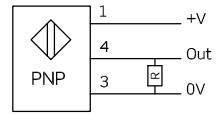


### Electrical monitoring with inductive sensor

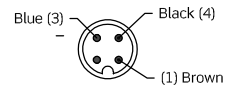
It consists of an anodized aluminium body that incorporates an inductive sensor and detects the motion of a pin connected to the internal piston opening and closing the contact.



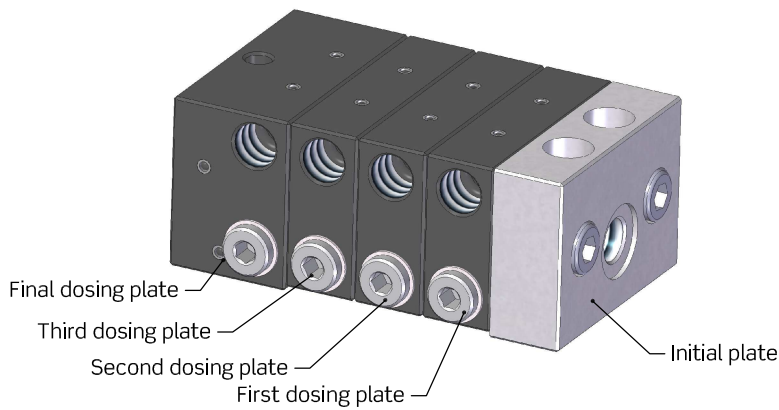
Function.....NO  
 Voltage.....10 ÷ 30V  
 Max. load admitted..... 200 mA  
 Protection.....IP65  
 Temperature..... -10°C ÷ +70°C  
 Connection..... M12 4 poles connector  
 Max. number of cycles..... 500/minute



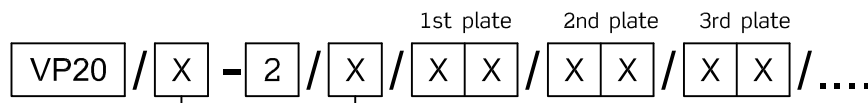
The inductive sensor is supplied without a connector: it needs to be ordered separately



**VP20/A**  
Progressive distributor on plates  
fully assembled



The distributor must contain at least 3 dosing plates



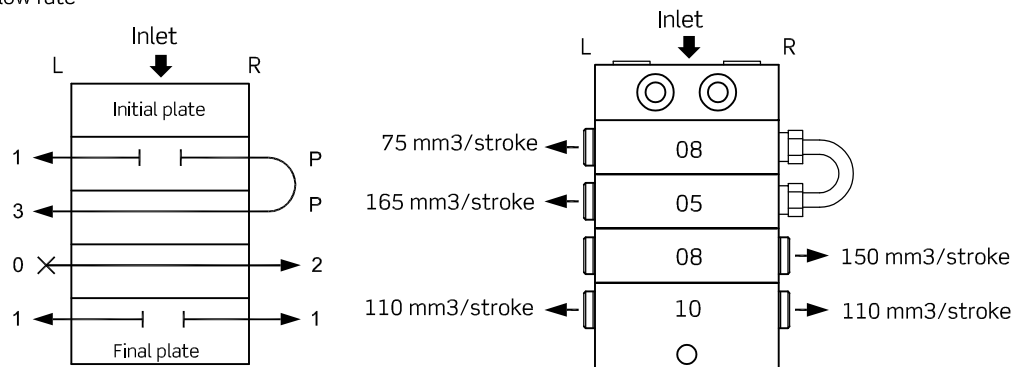
Material	X	N° of outlets	Flow mm3/stroke	X	Monitoring system	X
Steel with treated surface	A	6 ... 24	25	03	Without	-
			45	05	Only with flow 05-08-10:	
			75	08	Visual left side	1
			110	10	Visual right side	2
					Microswitch left side	3
					Microswitch right side	4
AISI 316	A6	6 ... 24	25	03	Without	-
			45	05	Only with flow 05-08-10 :	
			75	08	Visual left side	1
			110	10	Visual right side	2
					Inductive sensor left side	5
					Inductive sensor right side	6

Distributors that are requested with in-house factory assembled bridges and plugged outlets they need to be ordered adding the outlets combination at the end of the reference:

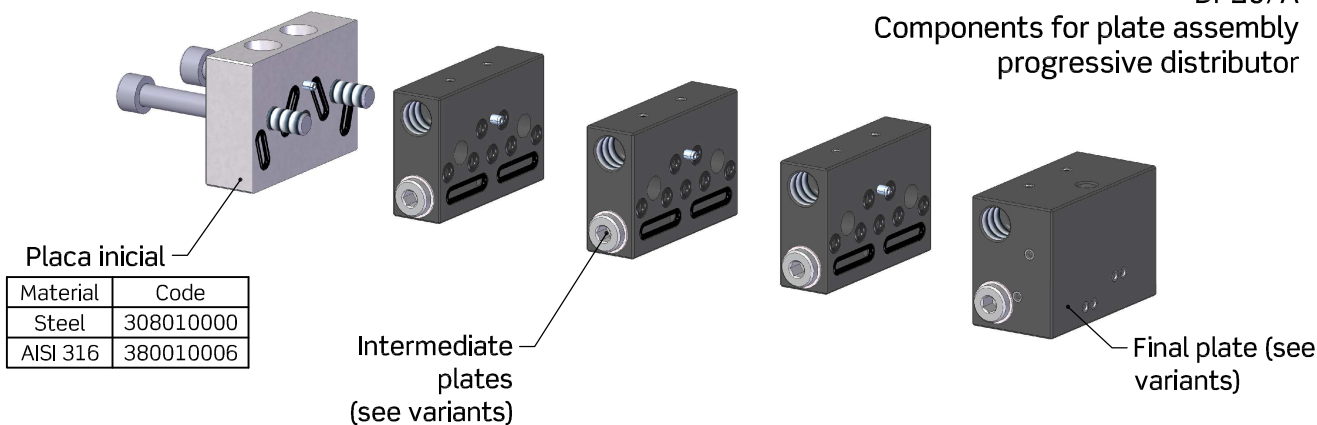
- 0 = Plugged outlet
- P = Outlet with bridge
- 1 = Simple outlet
- 2 = Outlet with double flow rate
- 3 = Outlet with triple flow rate
- 4 = Outlet with quadruple flow rate

We identify right side outlets as "R" and left side outlets as "L" (see diagram).

Order example:  
VP20/A-1/8-08/05/08/10  
L=1/3/0/1  
R=P/P/2/1



DP20/A  
Components for plate assembly  
progressive distributor

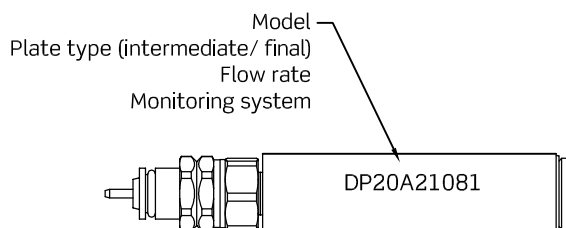


Intermediate and final plates:

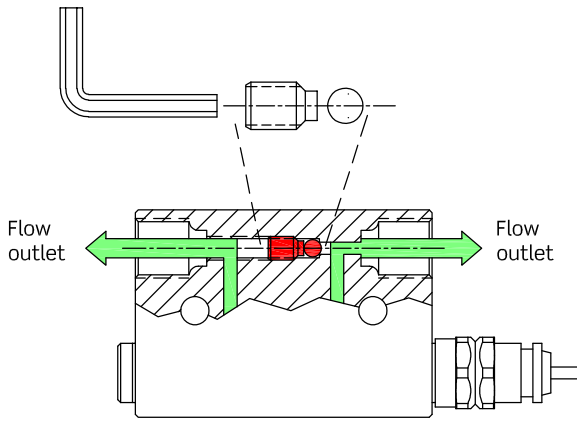
DP20 / X - 2 / X / X X

Material	X	Plate type	X	Flow mm <sup>3</sup> /stroke	X	Monitoring system	X
Steel with treated surface	A	Intermediate plate	1	25	03	Without	-
				45	05	Only with flow 05-08-10:	
		Final plate	2	75	08	Visual left side	1
				110	10	Visual right side	2
						Microswitch left side	3
						Microswitch right side	4
		Inductive sensor left side	5				
		Inductive sensor right side	6				
AISI 316	A6	Intermediate plate	1	25	03	Without	-
				45	05	Only with flow 05-08-10:	
		Final plate	2	75	08	Visual left side	1
				110	10	Visual right side	2
						Inductive sensor left side	5
						Inductive sensor right side	6

Component identification:

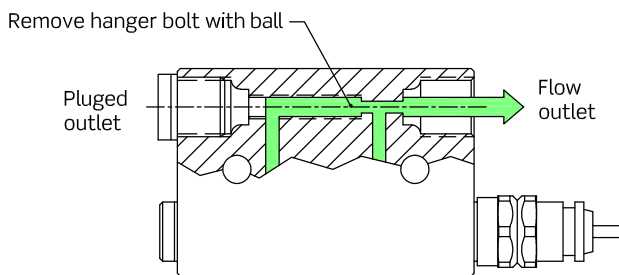


VP20/A



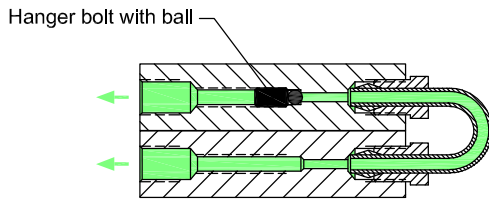
**Outlet combination**

Before plugging any outlet the hanger bolt and its ball accommodated inside the conduit that matches the outlet have to be released and removed.



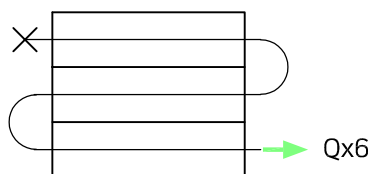
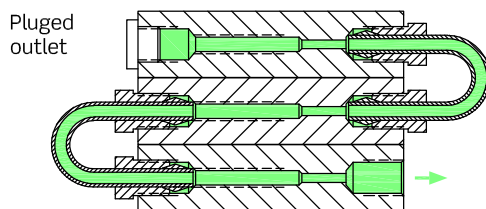
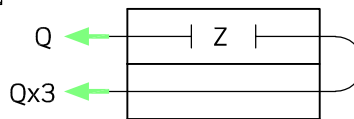
**Important:**

Do not plug any outlet without having removed the hanger bolt with its ball, otherwise the distributor will be blocked and will stop working.

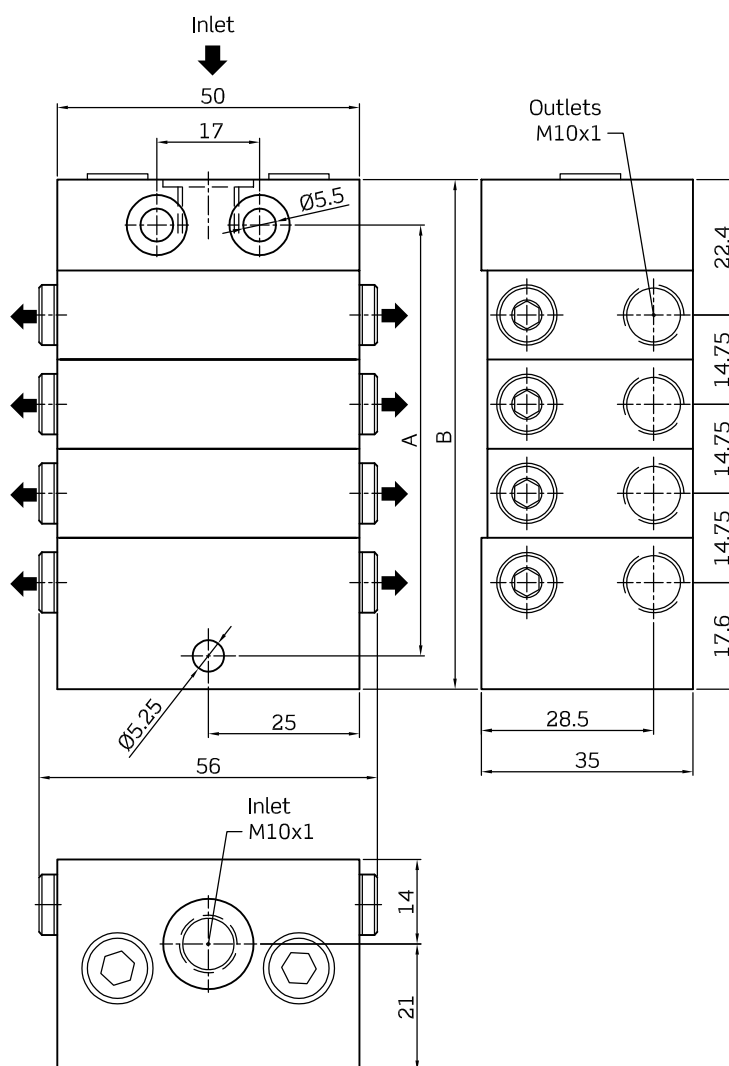


**Bridges**

Flows can be combined and added up using external bridges threaded on the outlets of the plates.



## VP20/A Dimensions



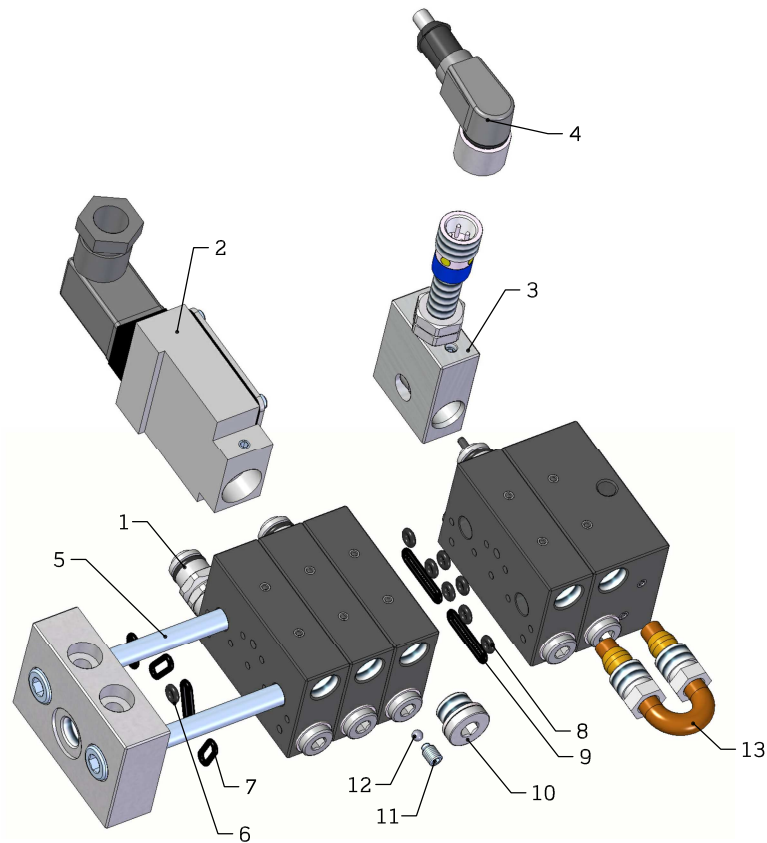
### Dimensions

N° of outlets	A	B
6	56,50	69,50
8	71,25	84,25
10	86,00	99,00
12	100,75	113,75
14	115,00	128,50
16	129,75	143,25
18	144,50	158,00
20	159,25	172,75
22	174,00	185,50
24	188,75	202,25

### Threads

Model	Inlet	Outlets
VP20/A-2	M10x1 DIN 2367	M10x1 DIN 2367

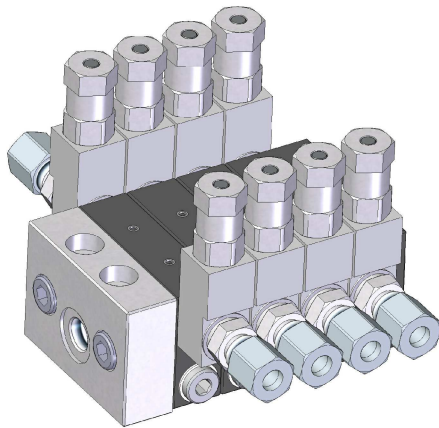
**VP20/A  
Spares**



Pos.	Descripción	For VP20/A	For VP20/A6
1	Bracket for visual control	341 020 000	341 020 006
2	Bracket with microswitch and connector	341 120 000	
2.1	Spare microswitch	943 401 001	
3.1	Bracket without inductive sensor	341 210 000	341 210 006
3.2	Bracket with inductive sensor	341 225 000	341 225 006
3.3	Inductive sensor	913 901 040	913 901 040
4	M12x1 elbow connector with cable	913 806 607	913 806 607
5	Screw tie rod for distributor with 6 outlets	800 912 262	800 912 662
	Screw tie rod for distributor with 8 outlets	800 912 265	800 912 665
	Screw tie rod for distributor with 10 outlets	800 912 267	800 912 667
	Screw tie rod for distributor with 12 outlets	800 912 269	800 912 669
	Screw tie rod for distributor with 14 outlets	800 912 271	800 912 671
	Screw tie rod for distributor with 16 outlets	800 912 272	800 912 672
	Screw tie rod for distributor with 18 outlets	800 912 274	800 912 674
	Screw tie rod for distributor with 20 outlets	800 912 275	800 912 675
	Screw tie rod for distributor with 22 outlets	800 912 276	800 912 676
	Screw tie rod for distributor with 24 outlets	800 912 277	800 912 677
6	O-ring for initial plate (1 unit x plate)	915 200 004	915 200 004
7	O-ring for initial plate (4 units x plate)	915 200 076	915 200 076
8	O-ring for intermediate plate (7 units x plate)	915 200 004	915 200 004
9	O-ring for intermediate plate (2 units x plate)	915 200 141	915 200 141
10	Outlet sealing plug unit	955 702 222	955 706 222
11	Hanger bolt	800 914 023	800 914 023
12	Ball	805 401 005	805 401 005
13	Bridge	956 400 020	956 406 020



**VP20/A  
 Accesories**



**Blocking indicators**

**Indicator without memory KD02/A (fig.2)**

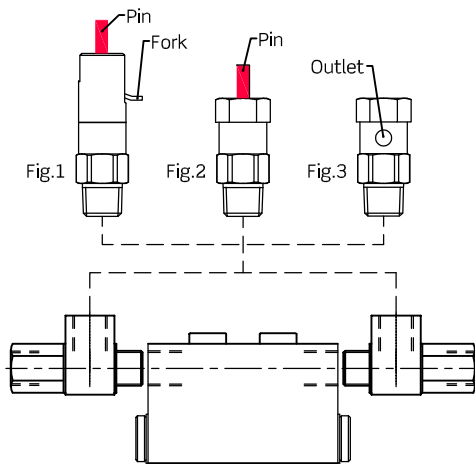
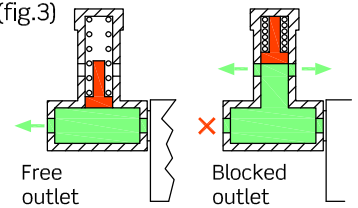
In the event of an outlet being blocked the resulting overpressure moves a pin outwards indicating visually the blockage. The pin returns to its original position after the distributor is unblocked.

**Indicator with memory KD02/B (fig.1)**

In this indicator a fork holds the pin outside so that the pin keeps indicating the outlet that has been blocked even if the distributor has been unblocked.

**Indicator with outlet KD02/C (fig.3)**

In the event of an outlet being blocked the overpressure is discharged outside not allowing the system to stop and at the same time the remaining lube points can continue lubricating.



In those installations where in the event of a blockage the lubrication system needs to stop, hermetic indicators should be used (fig.1 y 2). If the system needs to keep running despite the blockage indicators with outlets need to be used. They can be assembled on both master and secondary distributors.

See our catalogue of indicators with threads and characteristics