

VP20/D

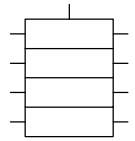
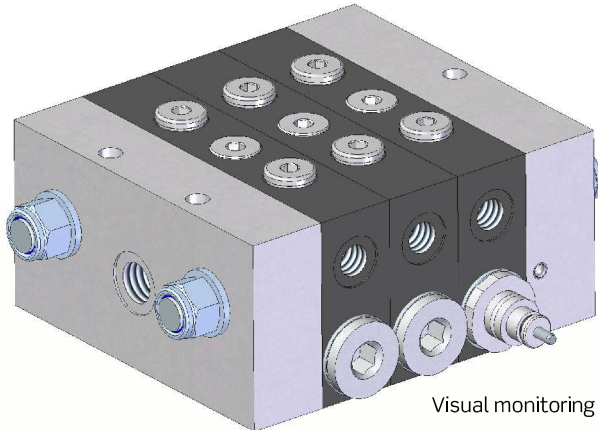
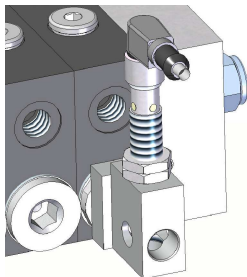


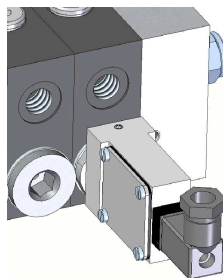
Plate progressive distributor



Visual monitoring



Electrical monitoring with inductive sensor



Electrical monitoring with microswitch

General aspects

Distributors from series VP20/D 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.
- 3 Intermediate dosing plates.
- 1 Final plate.

The initial and final plates are common to all combinations. Intermediate plates vary according to flow and outlet combination.

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

Options for monitoring:

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

Technical data

Output flow..... cm³/stroke

0,6	1	1,5	2	2,5	3	3,5	4	4,5	6
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Material..... steel with treated surface

Lubricants:

-Oil..... from 30 cSt

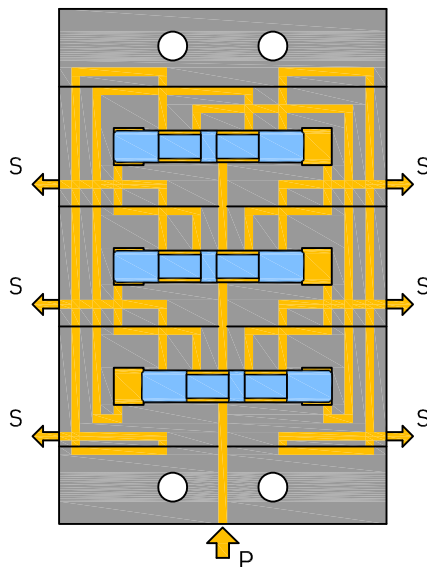
-Grease..... up to NLGI 2

Working pressure..... 25÷200 bar

Working temperature..... -15°C ÷ + 100°C

Maximum N° plates..... 10

Maximum inlet flow..... 4 litres/minute



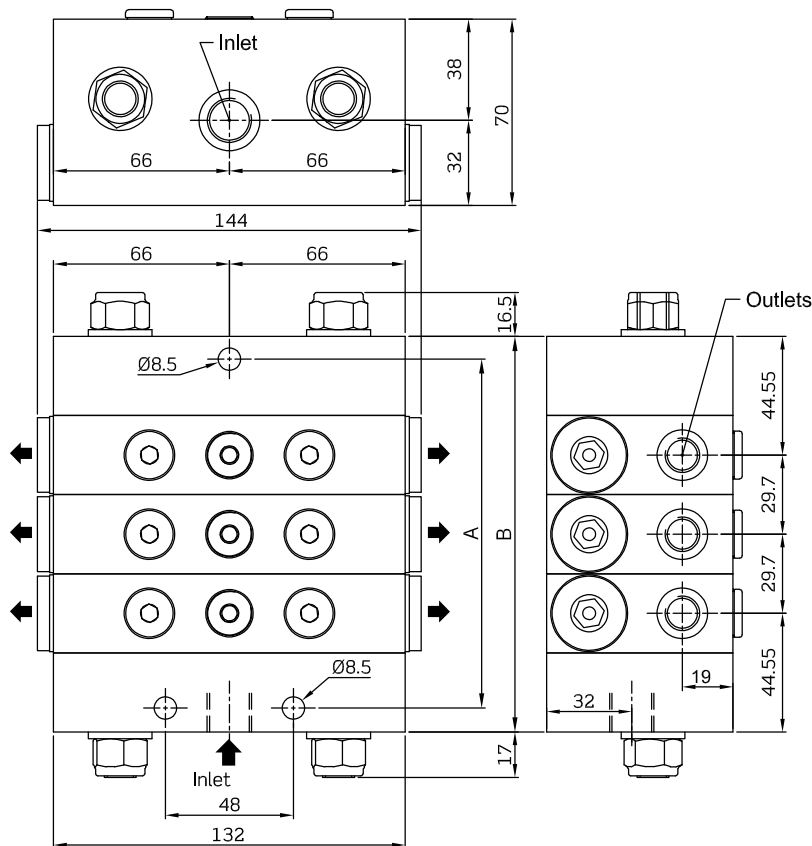
Working cycle

The cycle starts with the pressure delivery to P

Each outlet gives the volume corresponding to the piston of its own dosing plate.

A cycle is complete when all the pistons have made their way to both sides and returning to the initial position, being ready for a next cycle.

VP20/D



Dimensions

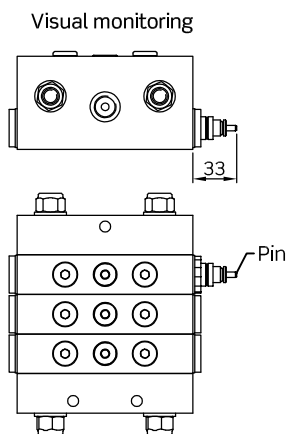
Plates N°	A	B
3	131	148,5
4	160,7	178,2
5	190,4	207,9
6	220,1	237,6
7	249,8	267,3
8	279,5	297
9	309,2	326,7
10	338,9	356,4

Connections

Inlet	Outlets
G3/8	G1/4

Monitoring Systems

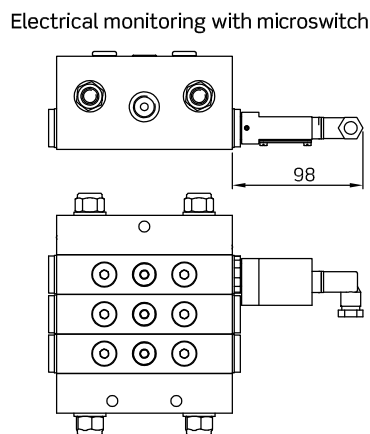
The monitoring system can be mounted on all dosing plates that you require



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.

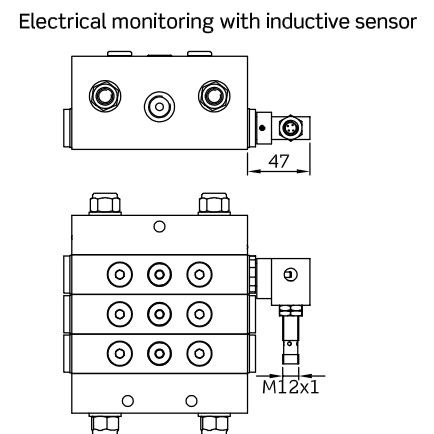
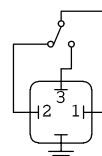
Important: the visual control is not an after-sales supply element, it must be incorporated in-house at source.

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



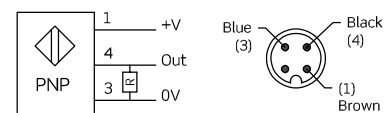
It consists of an aluminium box with a cover, with a microswitch inside which is driven by the movement of a pin connected to the internal piston.

Micro.....250V 5A (EN61058 / UL1054)
Temperature.....-15°C ÷ +120°C
Protection degree..... IP65
Connection.....DIN43650 3 poles PG7



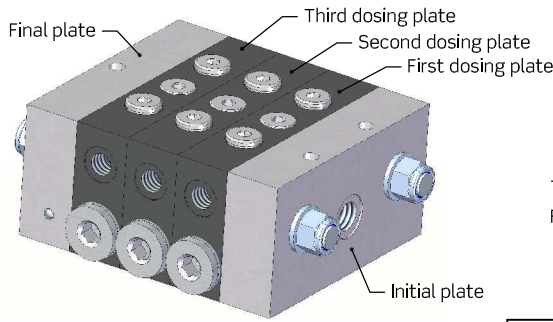
It consists of an anodized aluminium body that incorporates an inductive sensor and detects the motion of a pin connected to the internal piston opening and closing the contact.

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



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

VP20/D
Plate Progressive Distributor



The distributor must contain at least 3 dosing plates
First dosing plate is the one next to the pressure inlet

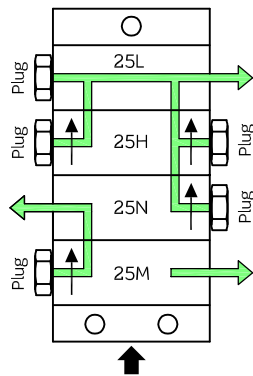
Outlets combination by internal bridges

Elements M - N - H - P - Q

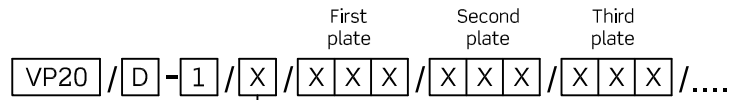
Depending on the required outlet combination this distributor can be supplied at source with in-house internal bridges (internal connection holes).

This combination system is not modifiable.

The last dosing plate cannot be bridged.

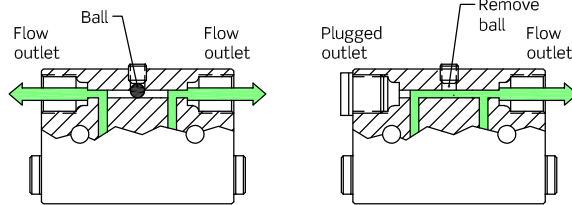
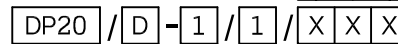


Ordering example for the distributor of the upper figure:
VP20/D-1/4-25M/25N/25H/25L



N° of plates	Flow cm3/str.	X	Outlet combination	X	Monitoring system	X
3 ... 10	0,6	06	2 outlets	T	Without	-
	1	10	Right side outlet	S	Visual left side	1
	1,5	15	Left side outlet	L	Visual right side	2
	2	20	Left side outlet Bridge on right side	M	Micro left side	3
	2,5	25	Right side outlet Bridge on left side	N	Micro right side	4
	3	30	Bridges on both sides	H	Inductive sensor left side	5
3,5	35	Bridge on right side	P	Inductive sensor right side	6	
4	40	Bridge on left side	Q			
4,5	45					
5	50					

Intermediate dosing plates

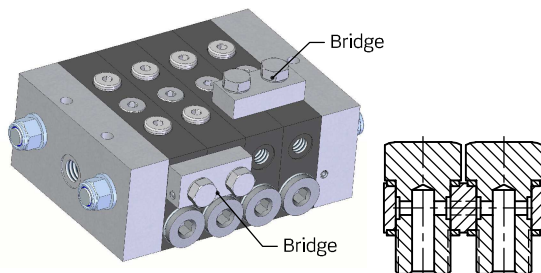


Combination of outlets in the same dosing plate

To cancel an outlet by doubling the flow through the other outlet, proceed as follows:

- Plug the unwanted outlet
- Remove the plug
- Remove the ball
- Mount the plug

Important: Do not plug any outlet without having removed the ball, otherwise the distributor will be blocked and will stop working.



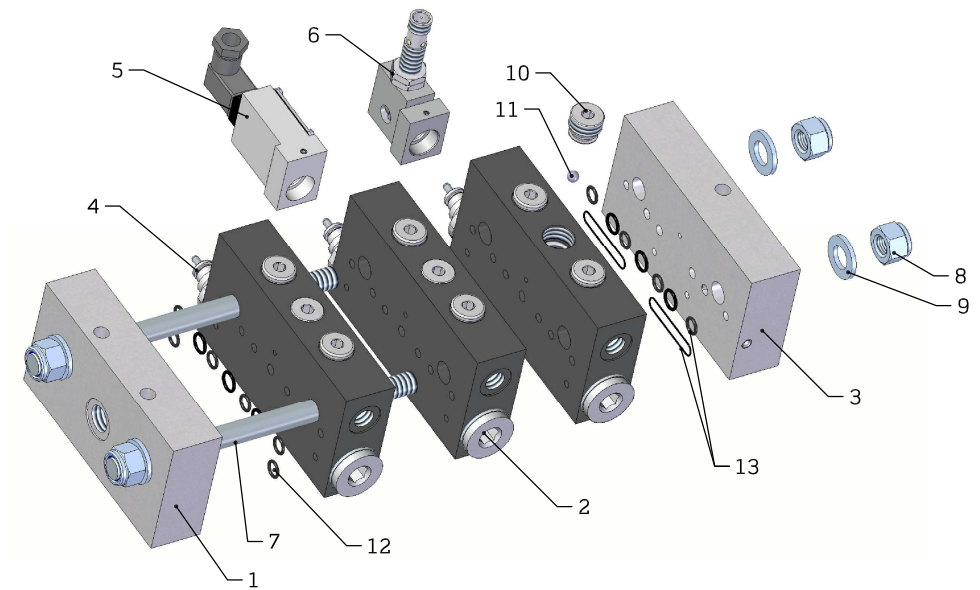
Combination by external bridges

Combination of dosing plates by external bridges

Also you can request distributors without combined outputs and after you can use external bridges for communication and combination of outputs

See codes on page 4

VP20/D
Spare parts



Components

Pos.	Descripción	Referencia
1	Initial plate	
2	Intermediate dosing plates	
3	Final plate	
4	Spare bracket for visual control	
5	Spare bracket with microswitch and connector	
5.1	Spare microswitch	
6.1	Bracket box without inductive sensor	
6.2	Bracket box with inductive sensor	
6.3	Inductive sensor	
7	Tie rod for distributor of 3 intermediate dosing plates	
	Tie rod for distributor of 4 intermediate dosing plates	
	Tie rod for distributor of 5 intermediate dosing plates	
	Tie rod for distributor of 6 intermediate dosing plates	
	Tie rod for distributor of 7 intermediate dosing plates	
	Tie rod for distributor of 8 intermediate dosing plates	
	Tie rod for distributor of 9 intermediate dosing plates	
	Tie rod for distributor of 10 intermediate dosing plates	
8	Self-locking nut	
9	Washer	
10	Plug (outlets combination)	
11	Ball (outlets combination)	
12	Seals kit for initial plate (9 seals each plate)	
13	Seals kit for dosing plate (9 seals each plate)	

Bridges

Dual bridge without outlet ref. 956400254	Triple bridge without outlet ref. 956400354	Dual bridge with outlet G1/4 ref. 956400275	Triple bridge with outlet G1/4 ref. 956400275