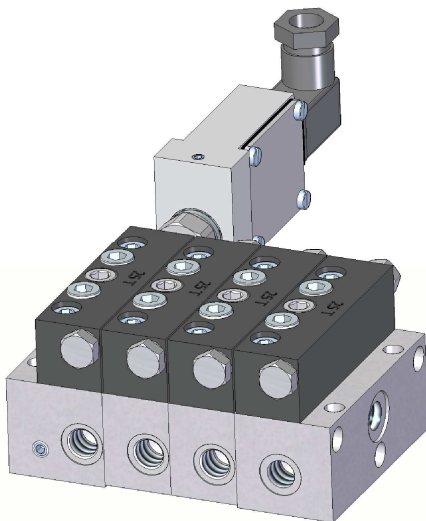
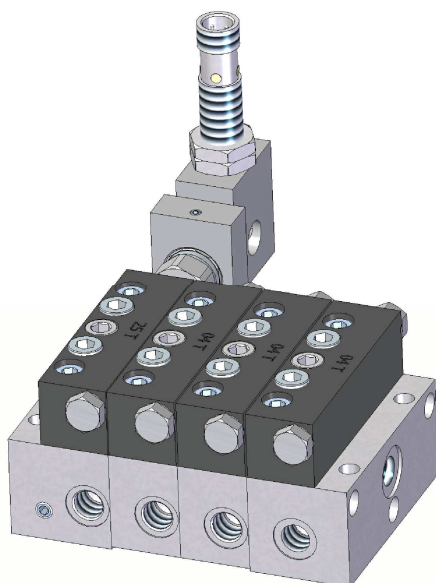




Visual monitoring

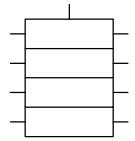


Electrical monitoring with microswitch



Electrical monitoring with inductive sensor

**VP10/B**  
**VP10/C**



## Modular progressive distributor from 6 to 40 outlets

VP10/B - 0,04...0,25 cm<sup>3</sup>/stroke - 300.000.000  
VP10/C - 0,04...0,65 cm<sup>3</sup>/stroke - 301.000.000

### General aspects

Distributors from VP10 series have been designed for modular construction and they are suitable for use in central lubrication systems with grease or oil.

They operate according to 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 ratio can be increased by combining outlets (through plugging, bridging, etc).

The distributor in its simplest construction consists of:

- 1 initial base plate module + doser
- 1 intermediate base plate module + doser
- 1 final base plate module + doser

Options for monitoring:

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

### Technical data

Output flow rate:

VP10/B ..... 0,04-0,08-0,16-0,25 cm<sup>3</sup>/stroke  
VP10/C ..... 0,04-0,08-0,16-0,25-0,35-0,40-  
0,50-0,60-0,65 cm<sup>3</sup>/stroke

Material..... steel with treated surface

Lubricants:

- oil..... from 30 cSt
- grease..... up to NLGI 2

Working pressure..... 15 ÷ 200 bar

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

Maximum inlet flow:

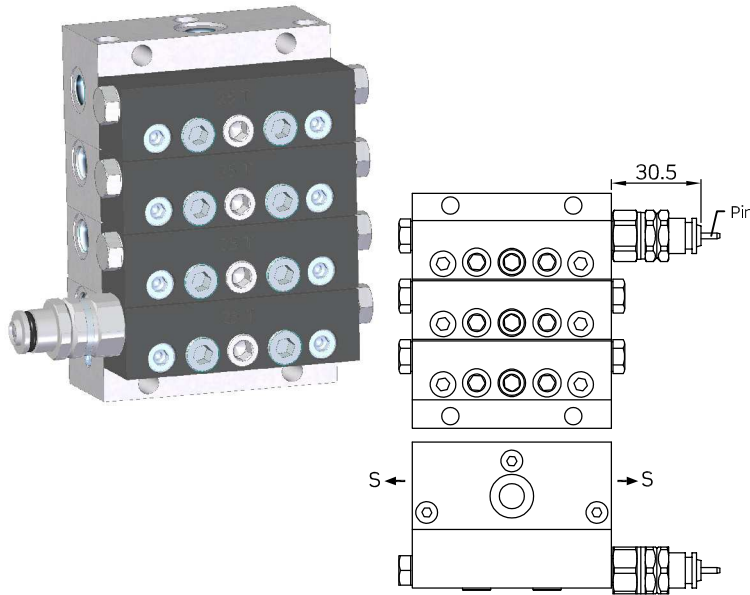
- oil..... 500 cm<sup>3</sup>/minute
- grease..... 10 cm<sup>3</sup>/minute

Threaded connections:

VP10/B .....inlet G 1/8 DIN 3852  
.....outlets G 1/8 DIN 3852  
VP10/C .....inlet G 1/4 DIN 3852  
.....outlets G 1/8 DIN 3852

## Monitoring Systems

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

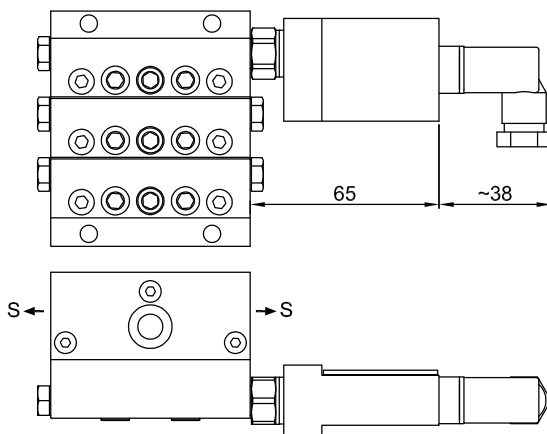


### Visual monitoring

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.

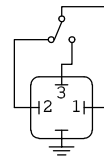
**Important: the visual control is not an after-sales supply element, it must be incorporated in-house at source.**

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

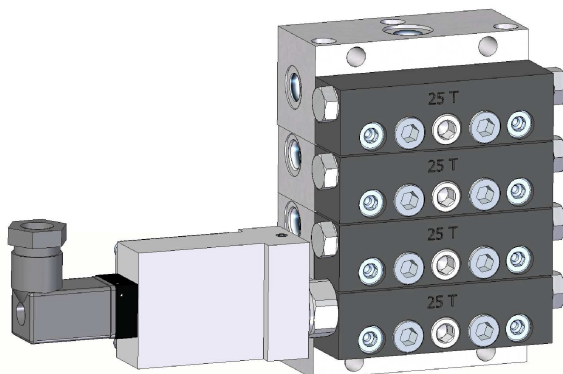


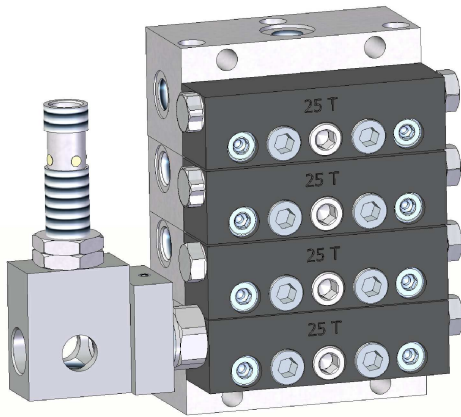
### Electrical monitoring with micro (IP65)

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

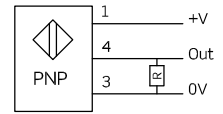
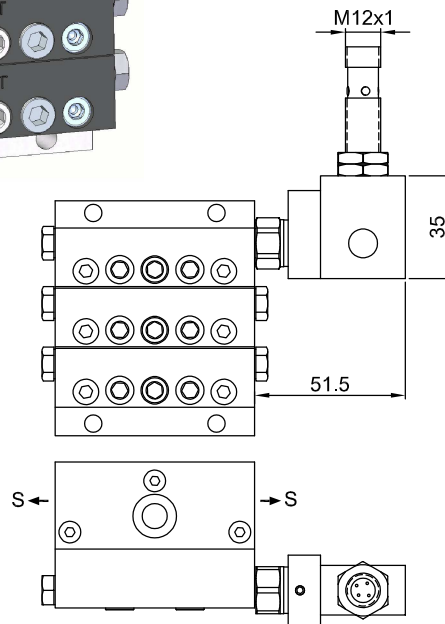




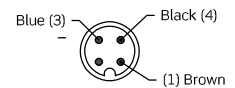
### Electrical monitoring with inductive sensor

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



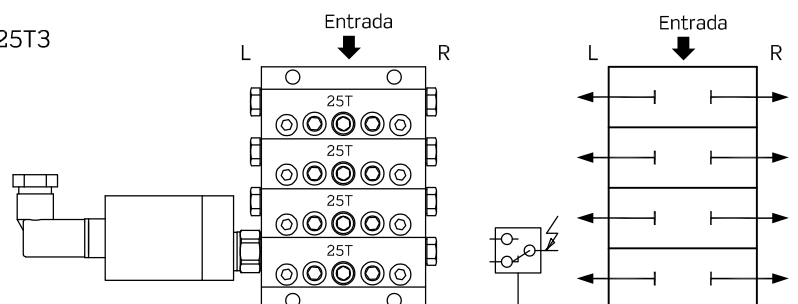
Model	X	Nº of modules	Flow cm3/stroke	X	Outlets combination	X	Monitoring system	X
0,04 ÷ 0,25 cm3/stroke	B	3 ... 20	By-pass	00	2 outlets	T	Whithout  If monitoring system is required, the flow rate must be at least 0,16 cm3	-
			0,04	04	Right side outlet	S		
			0,08	08	Left side outlet	L		
			0,16	16	Left side outlet - Bridge on right side	CR		
			0,25	25	Right side outlet - Bridge on left side	CL		
0,04 ÷ 0,65 cm3/stroke	C	3 ... 20	By-pass	00	Bridges on both sides	CB	Visual left side	1
			0,04	04	Bridge on right side	SCR	Visual right side	2
			0,08	08	Bridge on left side	SCL	Micro left side	3
			0,16	16	00 flow (By-pass)	BP	Micro right side	4
			0,25	25			Inductive sensor left side	5
			0,35	35			Inductive sensor right side	6
			0,40	40				
			0,50	50				
			0,60	60				
			0,65	65				

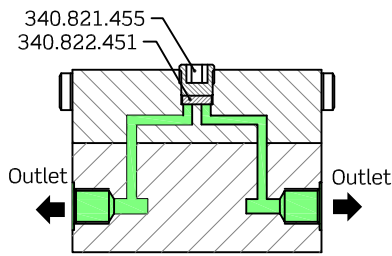
First module      Second module      Third module  
 VP10 / X - 1 / X / X X X / X X X / X X X / ...

DP10 / X - 1 / X X X      Doser module for progressive distributor

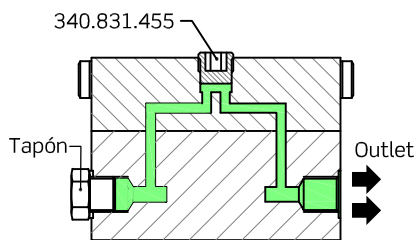
Order example: VP10/B-1/4-25T/25T/25T/25T3

The first doser module is the one located next to the pressure inlet. Identification of sides (distributor assembled as per order example diagrams):  
L = left side    R = right side

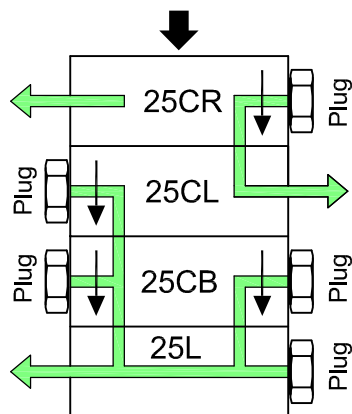




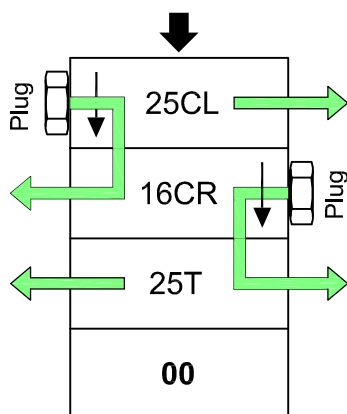
**2 outlets with same flow**  
 A washer blocks the communication between both outlets.



**One open outlet and one plugged outlet**  
 The communication between both outlets is open.



Examples of application



## Outlet combinations

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

- Plug the unwanted outlet
- Remove the plug 340.821.455
- Remove washer ref. 340.822.451
- Mount the plug 340.831.455

Do the opposite to turn a double outlet into 2 simple outlets.

Important:

Do not plug any outlet without having removed the washer and changed the plug, otherwise the distributor **will be blocked** and will stop working.

## Internal bridges

CR-CL-CB-SCR-SCL elements

They are used to increase the volumetric flow up to a certain point or to adjust an odd number of lubrication points. The bridged outlet is plugged, diverting the flow to the next outlet.

The last element (the furthest one from the inlet) cannot have a bridge.

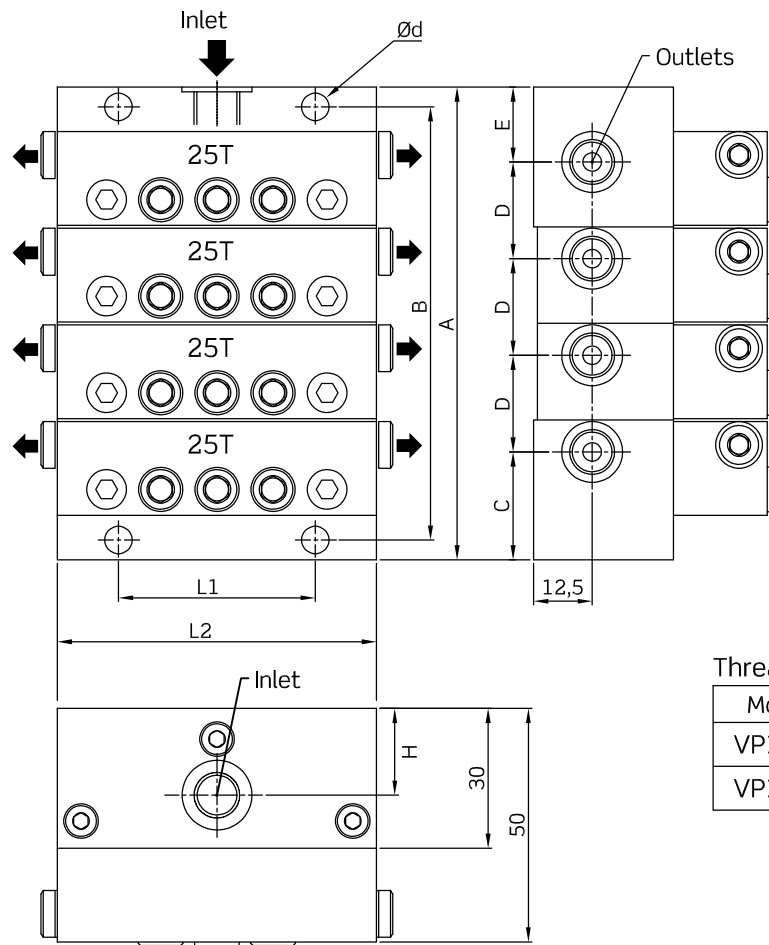
## "00" element

It is not an operating valve and it does not provide flow.

It is a BYPASS element that is used to remove or add lubrication points according to needs.

It is identified with **00** at the top of the element.

**It needs a minimum of at least 3 dosers to work.**

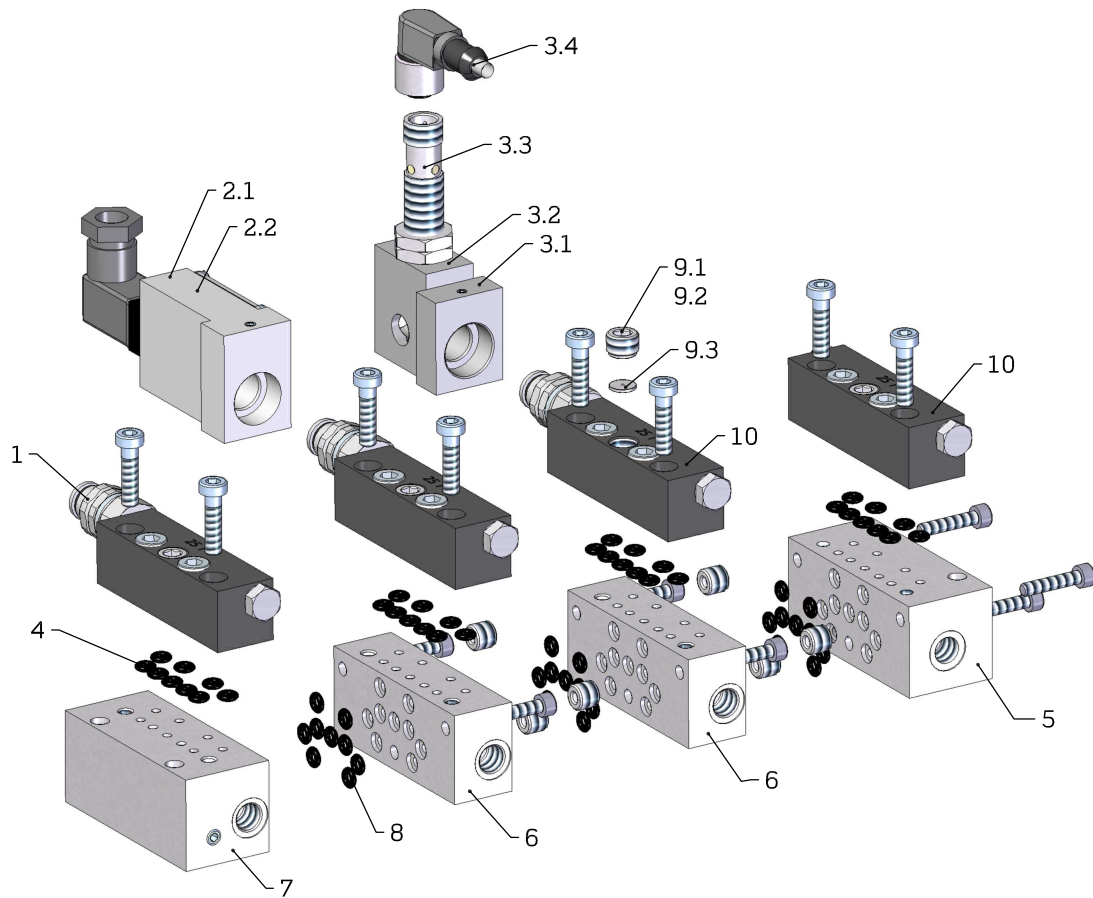


Threads

Model	Inlet	Outlets
VP10/B	G1/8	G1/8
VP10/C	G1/4	G1/8

Dimensiones

N° of modules	VP10/B									VP10/C								
	A	B	C	D	E	L1	L2	H	Ød	A	B	C	D	E	L1	L2	H	Ød
3	80,2	71,8	23	20,6	16	42	68	18,5	6	93,02	83,02	26	23,42	20,2	44	76	20	7,2
4	100,8	92,4	23	20,6	16	42	68	18,5	6	116,44	106,44	26	23,42	20,2	44	76	20	7,2
5	121,4	113	23	20,6	16	42	68	18,5	6	139,86	129,86	26	23,42	20,2	44	76	20	7,2
6	142	133,6	23	20,6	16	42	68	18,5	6	163,28	153,28	26	23,42	20,2	44	76	20	7,2
7	162,6	154,2	23	20,6	16	42	68	18,5	6	186,70	176,70	26	23,42	20,2	44	76	20	7,2
8	183,2	174,8	23	20,6	16	42	68	18,5	6	210,12	200,12	26	23,42	20,2	44	76	20	7,2
9	203,8	195,4	23	20,6	16	42	68	18,5	6	233,54	223,54	26	23,42	20,2	44	76	20	7,2
10	224,4	216	23	20,6	16	42	68	18,5	6	256,96	246,96	26	23,42	20,2	44	76	20	7,2
11	245	236,6	23	20,6	16	42	68	18,5	6	280,38	270,38	26	23,42	20,2	44	76	20	7,2
12	256,6	257,2	23	20,6	16	42	68	18,5	6	303,8	293,8	26	23,42	20,2	44	76	20	7,2
13	286,2	277,8	23	20,6	16	42	68	18,5	6	327,22	317,22	26	23,42	20,2	44	76	20	7,2
14	306,8	298,4	23	20,6	16	42	68	18,5	6	350,64	340,64	26	23,42	20,2	44	76	20	7,2
15	327,4	319	23	20,6	16	42	68	18,5	6	374,06	364,06	26	23,42	20,2	44	76	20	7,2
16	348	339,6	23	20,6	16	42	68	18,5	6	397,48	387,48	26	23,42	20,2	44	76	20	7,2
17	368,6	360,2	23	20,6	16	42	68	18,5	6	420,90	410,90	26	23,42	20,2	44	76	20	7,2
18	389,2	380,8	23	20,6	16	42	68	18,5	6	444,32	434,32	26	23,42	20,2	44	76	20	7,2
19	409,8	401,4	23	20,6	16	42	68	18,5	6	467,74	457,74	26	23,42	20,2	44	76	20	7,2
20	430,4	422	23	20,6	16	42	68	18,5	6	491,16	481,16	26	23,42	20,2	44	76	20	7,2



## VP10 Spare parts

Pos.	Description	VP10/B	VP10/C
1	Bracket for visual control	341 050 000	341 060 000
2.1	Bracket with micro and connector	341 130 000	341 130 000
2.2	Microswitch	943 401 001	943 401 001
3.1	Bracket without inductive sensor	341 270 000	341 270 000
3.2	Bracket with inductive sensor	371 280 000	341 280 000
3.3	M12 inductive sensor	913 901 243	913 901 243
3.4	Connector M12 3 poles with cable	913 806 130	913 806 130
4	O-ring for doser element (9 units x element)	915 200 011V	915 200 011V
5	Initial base plate (o-rings and clamping screws included)	AP10/B-1/I	AP10/C-1/I
6	Intermediate base plate (o-rings, screws and fixing studs included)	AP10/B-1/M	AP10/C-1/M
7	Final base plate	AP10/B-1/F	AP10/C-1/F
8	O-ring for base plate (9 units x base plate)	915 200 011V	915 200 011V
9.1	Plug (modification from S-L to T)	340 821 455	340 821 455
9.2	Plug (modification from T to S-L)	340 831 455	340 831 455
9.3	Whaser	340 822 451	340 822 451
10	Doser elements	See page 4	