

PROGRESSIVE DIVIDER VALVES

BVP and BVP-RVS

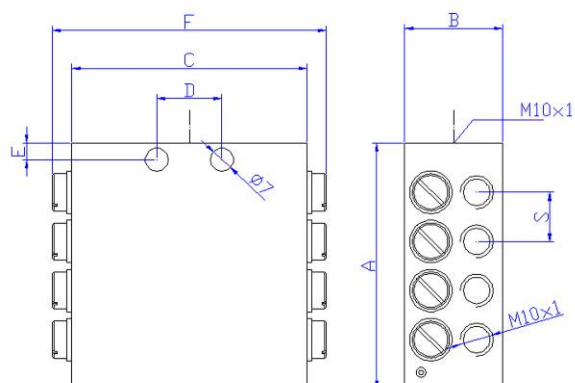
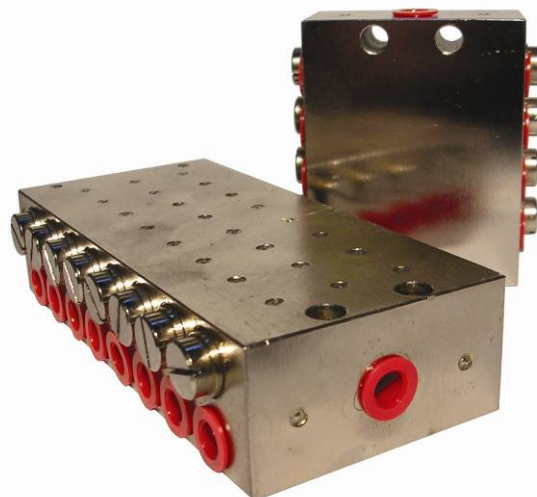
BVP / BVP-RVS (Stainless)

Compact, economic progressive divider blocks. Available in nickel plated or stainless steel. These robust and reliable monoblock dividers can be used with oils and greases (max. NLGI 2)

The precision the pistons are made with, cancels the need for an extra seal or spring. This ensures exact dosing of the lubricant and trouble free operation

The flow can be monitored by the BVP cycle switch.

Possibility to change outlet flow through internal or external porting



Specifications :

- material: nickel plated or stainless
- lubricant: oil or grease (max. NLGI 2)
- max. pressure: 200 bar
- max. cy/min: 200
- flow / outlet /cycle: 0.13 cc
- max. operating temp.: 160°C

Ordering information

Part N° (nickel plated)	# pistons	Max. #outlets	kg	A mm	B mm	C mm	D mm	E mm	F mm	S mm
BVP3/6	3	6	0.6	60	30	60	20	5	72	15
BVP4/8	4	8	0.8	75						
BVP5/10	5	10	1.0	90						
BVP6/12	6	12	1.2	105						
BVP7/14	7	14	1.4	120						
BVP8/16	8	16	1.6	135						
BVP9/18	9	18	1.8	150						
BVP10/20	10	20	2.0	165						

Stainless steel: add "-RVS" behind the part n°

service — systems — fluids — parts



Operation of the BVP divider valve

Inside the BVP divider the flow of the pump is proportionally divided to each outlet. The outlet flow depends on the configuration of the divider (S, T, Crossport)

The flow and duty cycle of the pump determines the amount of lubricant which is distributed throughout the lubrication system.

In a progressive lubrication system, each outlet receives its amount of lubricant after the previous outlet has been served. This principle is the key to exact monitoring and fault-finding.

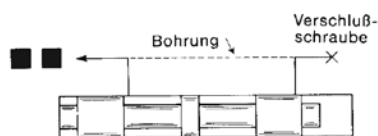
As long as lubricant is fed from the pump and no faults occur (e.g. hardened lubricant, blocked bearing), the progressive system will keep distributing lubricant sequentially to the lube points in precise engineered amounts.

When the pump stops, the lubricant flow stops and the pistons stop moving back and forth. When the pump starts again, the pistons will start from the point where they stopped at the end of the previous cycle.

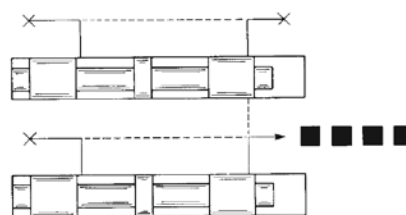
Each piston has 2 outlets (left & right) marked as T (= twin: double outlet). The flow of the outlets can be combined by removing the plug in the outlet drilling. This changes the section to an S-type (= single outlet).

The flow of 2 consecutive outlets can be combined with the BVP crossport. (C)

T (Twin) = double outlets



S (Single) = one outlet



C (Crossport) = connecting 2,3 or 4 outlets

ATTENTION !!

In progressive systems with primary and secondary levels, the primary divider must be equipped with external check valves.

Crossport (part n° BVPCROSS)

A crossport connects 2 consecutive outlets and combines the flow of both outlets to one outlet.

Attention:

each section can easily be converted from a T-outlet (2 outlets) to an S-outlet (single outlet) by removing the plug in the outlet drilling. Do not remove the piston or piston plugs !!!

Proximity switch (part n° BVPPROX)

The prox. switch detects the movement of the pistons. A cycle is completed when the piston has moved back and forth 1 time.

Power	10- 36VDC
Type	DC PNP
Current	Ctu – 100mA
Ingress protection	IP67
Max. temperature	-25°C - +80°C
Max. oper. pressure	200 bar
Connection	Connector M12

