CHECK VALVE VP-NOV

- NG 6, 10
- Up to 350 bar *[5 076 PSI]*
- Up to 100 L/min *[26,4 GPM]*

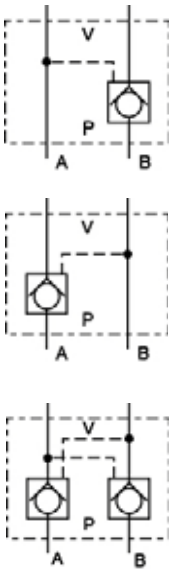
- Connecting dimensions to ISO 4401.
- Flow shut-off in both or one service line.
- For vertical stacking - sandwich plate design.
- Height and width of the valves to ISO 7790 norms.

VP-NOV-10-.., VP-NOV-6-..

Operation

Pilot operated check valves type VP-NOV enable the hydraulic fluid flow in the service lines to be automatically shut off and made free, respectively.
Free flow direction is always from the valve side "V" to the subplate side "P". In the opposite direction is the valve blocked for the hydraulic fluid flow. Free flow in port A in direction P to V is achieved by means of pressure in port B, and vice versa.
To assure zero leakage there is necessary to discharge ports A and B towards T in the zero position of the directional valve.

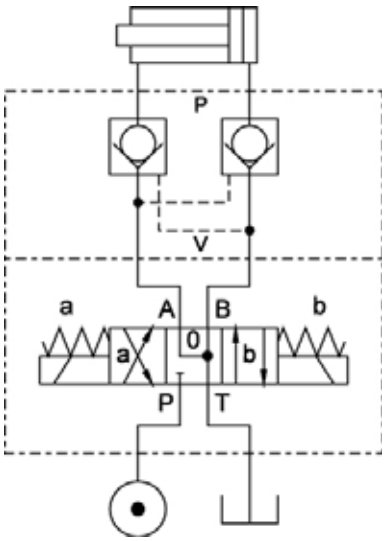
Hydraulic symbols



Features

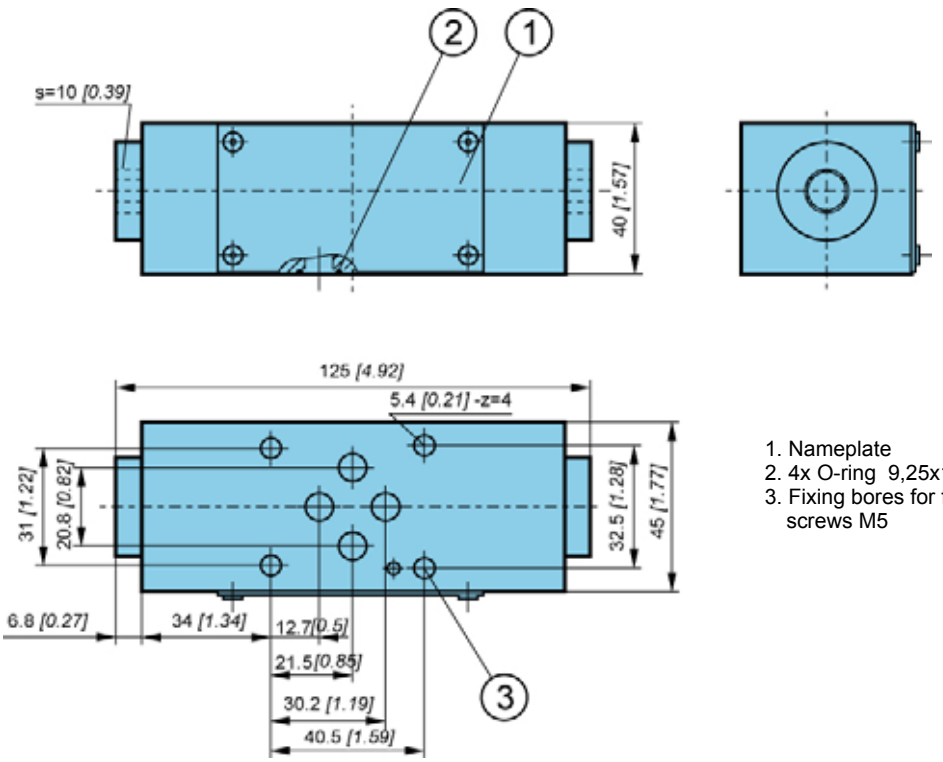
Size		6	10
Flow rate	L/min *[GPM]*	60 *[15.8]*	100 *[26.4]*
Operating pressure	bar *[PSI]*	350 *[5 076]*	
Cracking pressure	bar *[PSI]*	1 *[14.5]*	0,5 *[7.2]*
Area ratio		1:3,9	1:3,6
Oil temperature range	°C *[°F]*	-20 to +70 *[-4 to +158]*	
Viscosity range	mm^2/s *[SUS]*	15 to 380 *[69,5 to 1.760]*	
Filtration	NAS 1638	8	
Mass	kg *[lb]*	1,8 *[3.9]*	3,5 *[7.7]*

Mounting example



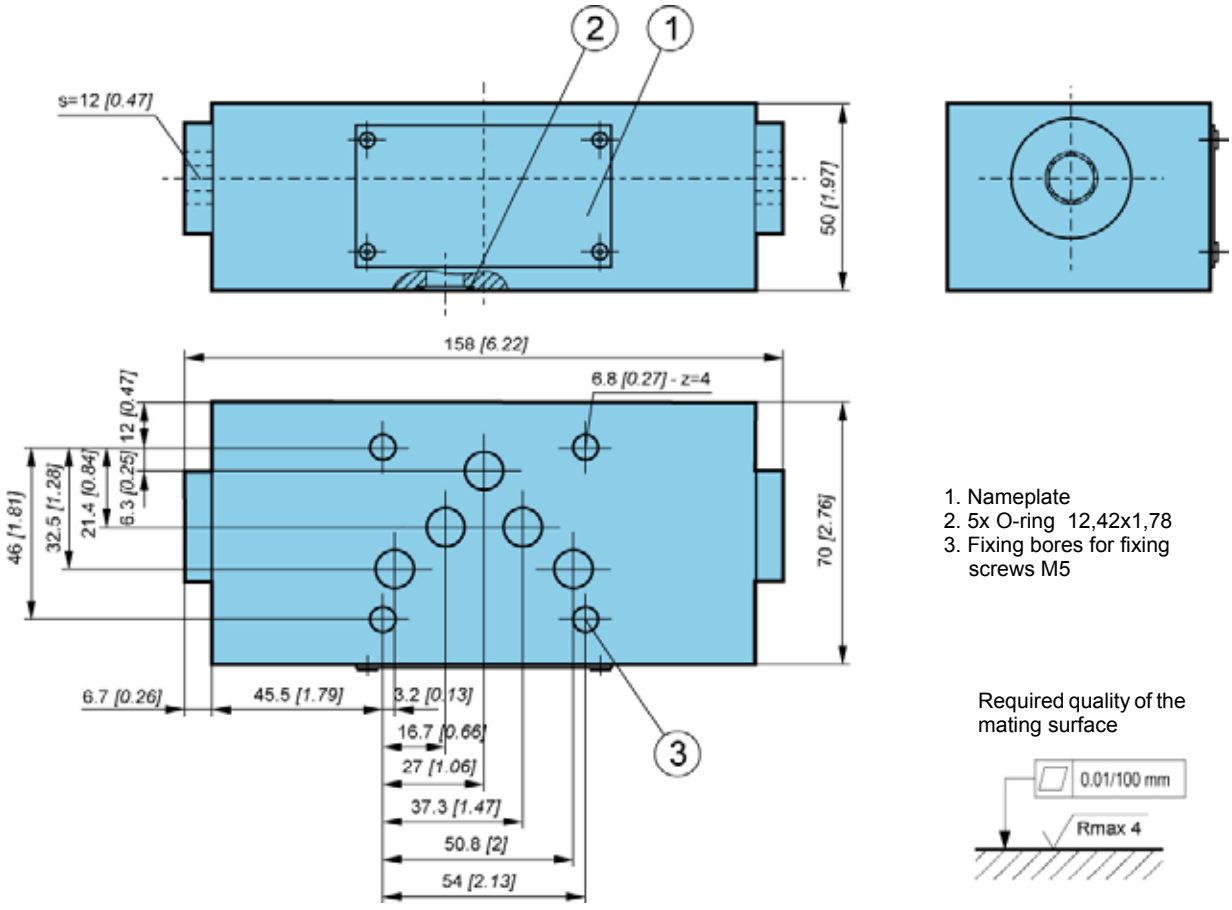
Dimensions

Size 6



1. Nameplate
2. 4x O-ring 9,25x1,78
3. Fixing bores for fixing screws M5

Size 10



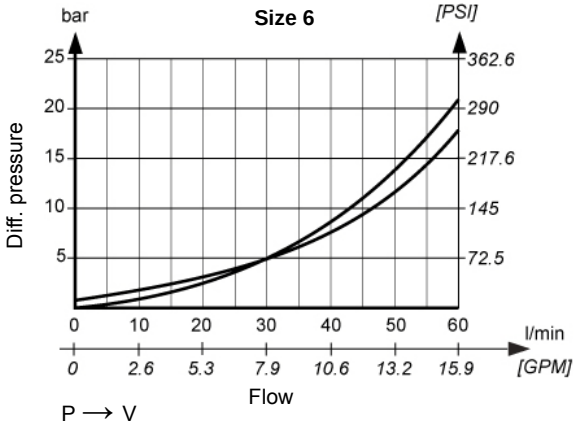
1. Nameplate
2. 5x O-ring 12,42x1,78
3. Fixing bores for fixing screws M5

Required quality of the mating surface

ΔP-Q Performance curves

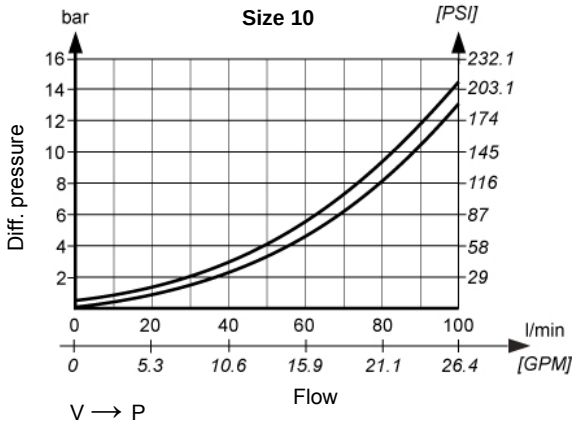
Δp - Q Performance curves of the flow in direction V to P (through check valve) and in direction P to V (check valve pilot opened with p_x =80 bar).

Measured at 50°C *[122°F]*
and viscosity of 32 mm^2/s *[148 SUS]*.



P ⟶ V
pilot opened

V ⟶ P
against spring force



V ⟶ P
against spring force

P ⟶ V
pilot opened

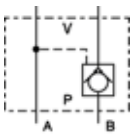
Model code

V P - N O V - ☐ - ☐ - ☐ - ✱

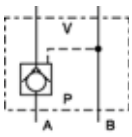
Size

Size 6	**6**
Size 10	**10**

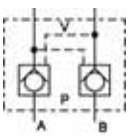
Symbol



EB



EA



D

Special requirements to be briefly specified

Seal type

No designation	NBR seals for mineral oil HL,HLP to DIN 51524
E	FPM seals for HETG, HEES, HEPG to VDMA 24568 and ISO 15380