Part number:

HYDROMA HYDRAULICKÉ SYSTÉMY | HIDROMA SISTEMS UKŁADY HYDRAULICZNE | HYDROMA ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

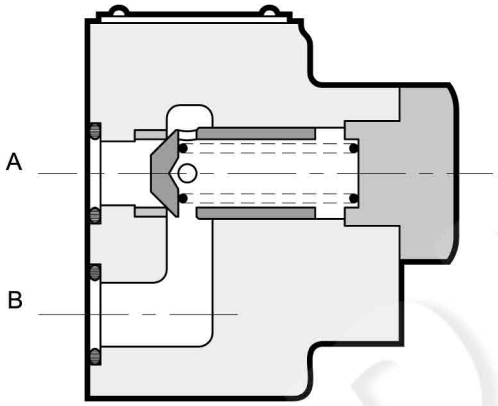


VR*-P
CHECK VALVES

SUBPLATE MOUNTING

p max (see table of performances)
Q max (see table of performances)

OPERATING PRINCIPLE



— VR*-P valves are one-way check valves constructed in the subplate mounting version.

— In rest conditions, the valve poppet, which is a cone on edge seal type, is kept closed by a spring with fixed setting.

— The shutter opens when the pressure in the intake line “A” exceeds the set value of the spring, added to any pressure in the outlet line “B”.

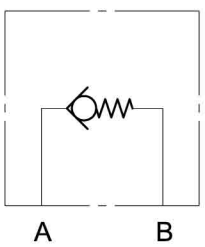
— Available in three sizes for flow rates up to 400 l/min and with three different cracking pressures.

TECHNICAL SPECIFICATIONS

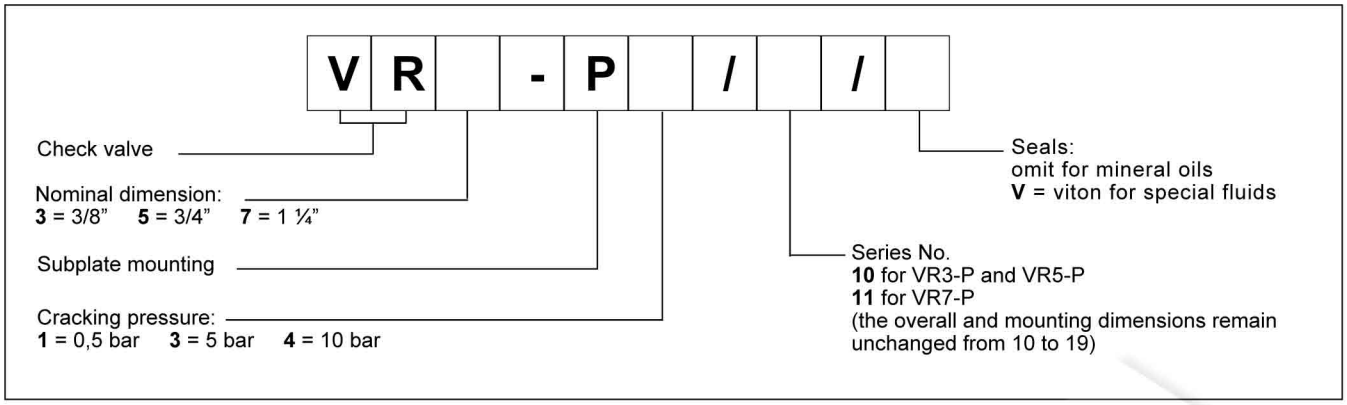
Valve code	Nominal dimension	Maximum flow rate [l/min]	Mass [kg]	Max. operating pressure [bar]
VR3 - P	3/8”	100	2,3	350
VR5 - P	3/4”	200	4,8	350
VR7 - P	1¼”	400	9	250

Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25

HYDRAULIC SYMBOL

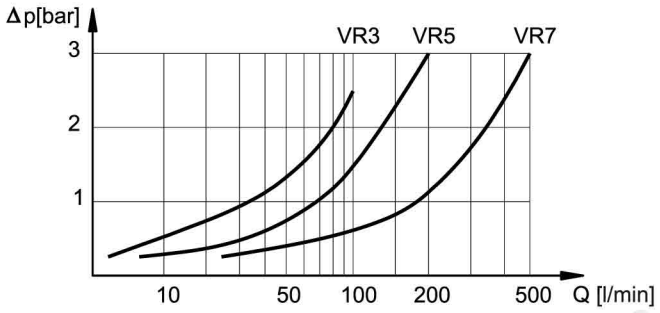


1 - IDENTIFICATION CODE



2 - CHARACTERISTIC CURVES (values obtained with viscosity 36 cSt at 50°C)

PRESSURE DROPS Δp - Q



NOTE: Add the cracking pressure to the values shown in the diagram.

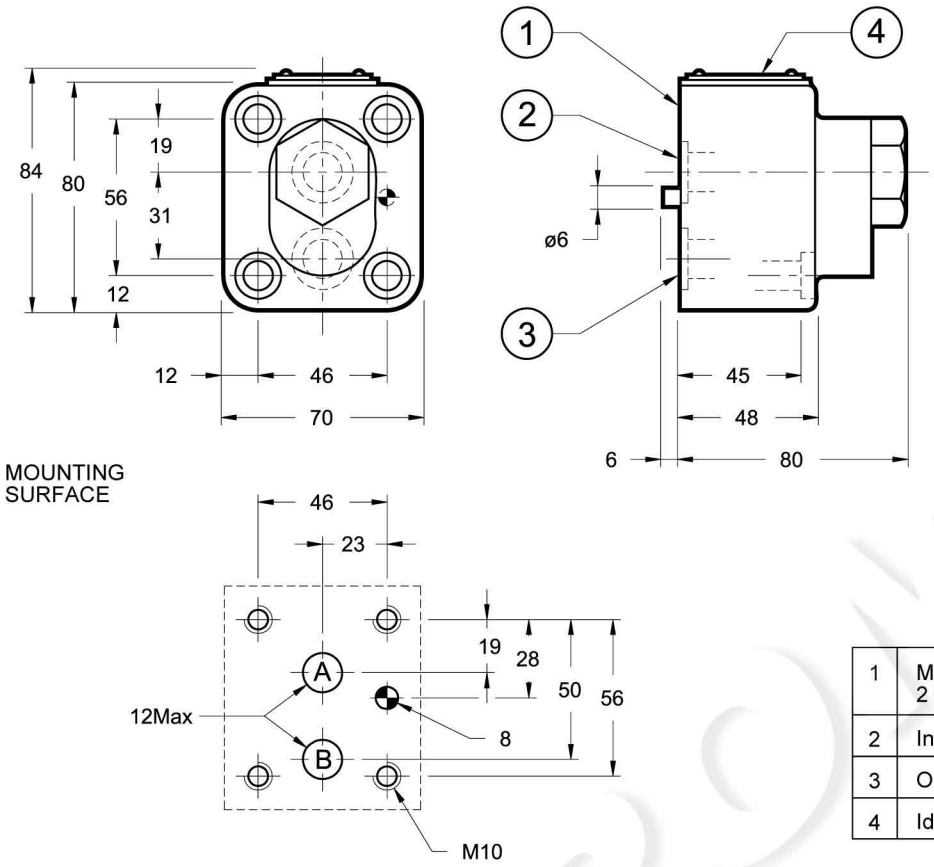
3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.

The fluid must be preserved in its physical and chemical characteristics.

4 - VR3-P OVERALL AND MOUNTING DIMENSIONS

dimensions in mm

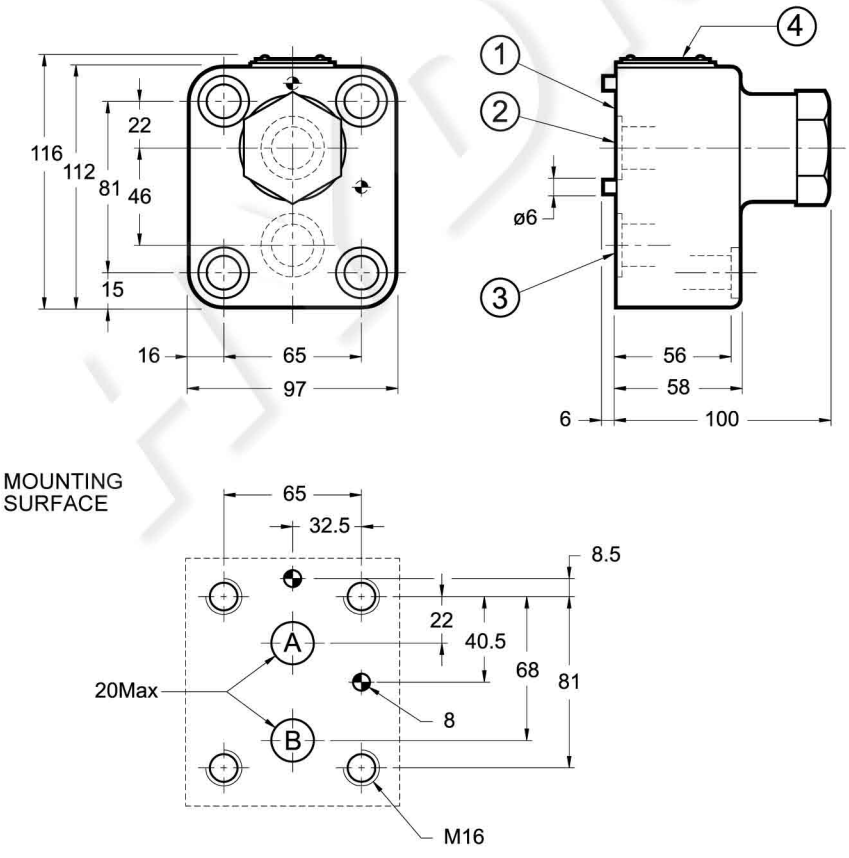


FASTENING BOLTS
4bolts M10x60
Torque: 40 Nm

1	Mounting surface with sealing rings: 2 OR type 3068 (17.13x2.62)
2	Intake port A
3	Outlet port B
4	Identification label

5 - VR5-P OVERALL AND MOUNTING DIMENSIONS

dimensions in mm

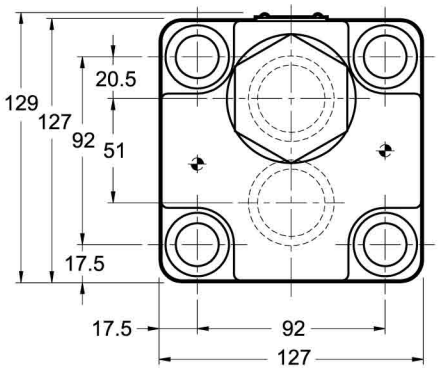


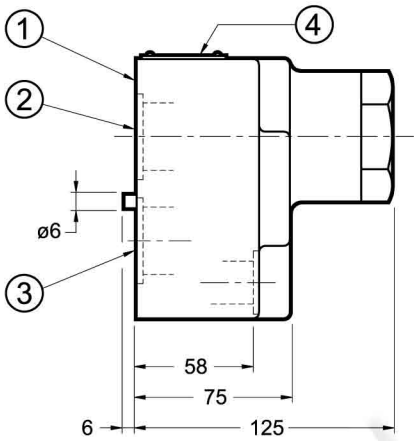
FASTENING BOLTS
4 bolts M16x80
Torque: 170 Nm

1	Mounting surface with sealing rings: 2 OR type 3100 (25.07x2.62)
2	Intake port A
3	Outlet port B
4	Identification label

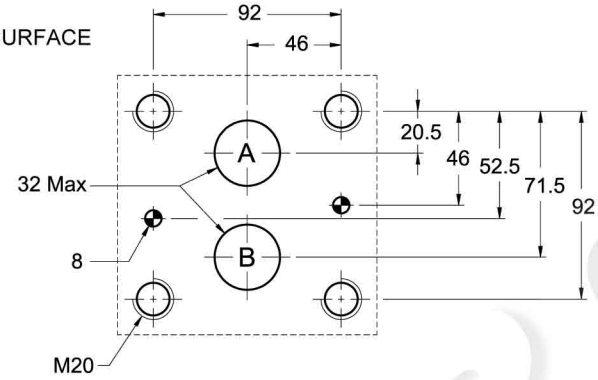
6 - VR7-P OVERALL AND MOUNTING DIMENSIONS

dimensions in mm





MOUNTING SURFACE



FASTENING BOLTS
4 bolts M20x90
Torque: 285 Nm

1	Mounting surface with sealing rings: N. 2 OR type 4137 (34.52x3.53) Shore 90
2	Intake port A
3	Outlet port B
4	Identification label