

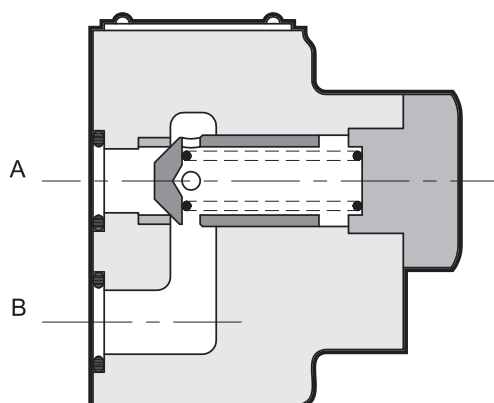


VR*-P CHECK VALVES

SUBPLATE MOUNTING

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

OPERATING PRINCIPLE



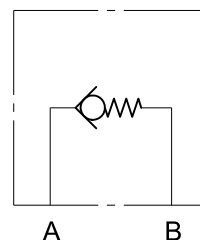
- VR*-P valves are one-way check valves constructed in the subplate mounting version.
- In rest conditions, the valve poppet, which is a cone on edge seal type, is kept closed by a spring with fixed setting.
- The shutter opens when the pressure in the intake line "A" exceeds the set value of the spring, 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	1 1/4"	400	9	250

Ambient temperature range	°C	-20 / +50
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

V	R		-	P		/		/	
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Check valve _____

Nominal dimension: _____
3 = 3/8" **5** = 3/4" **7** = 1 1/4"

Subplate mounting _____

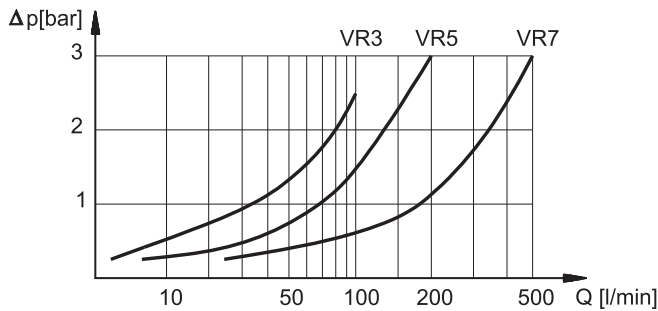
Cracking pressure: _____
1 = 0,5 bar **3** = 5 bar **4** = 10 bar

Seals:
omit for mineral oils
V = viton for special fluids

Series No.
10 for VR3-P and VR5-P
11 for VR7-P
(the overall and mounting dimensions remain unchanged from 10 to 19)

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

PRESSURE DROPS Δp - Q



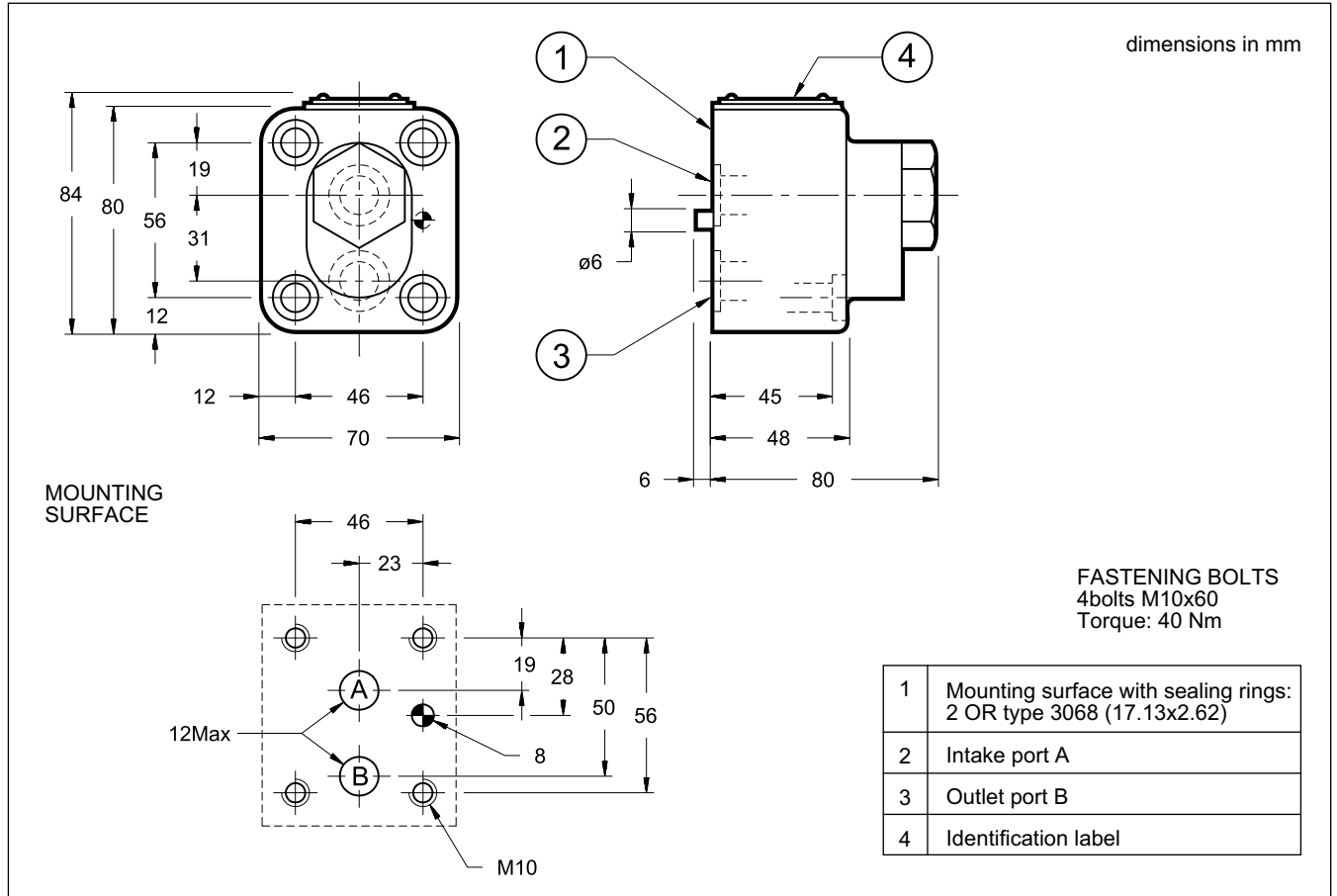
NOTE: Add the cracking pressure to the values shown in the diagram.

3 - HYDRAULIC FLUIDS

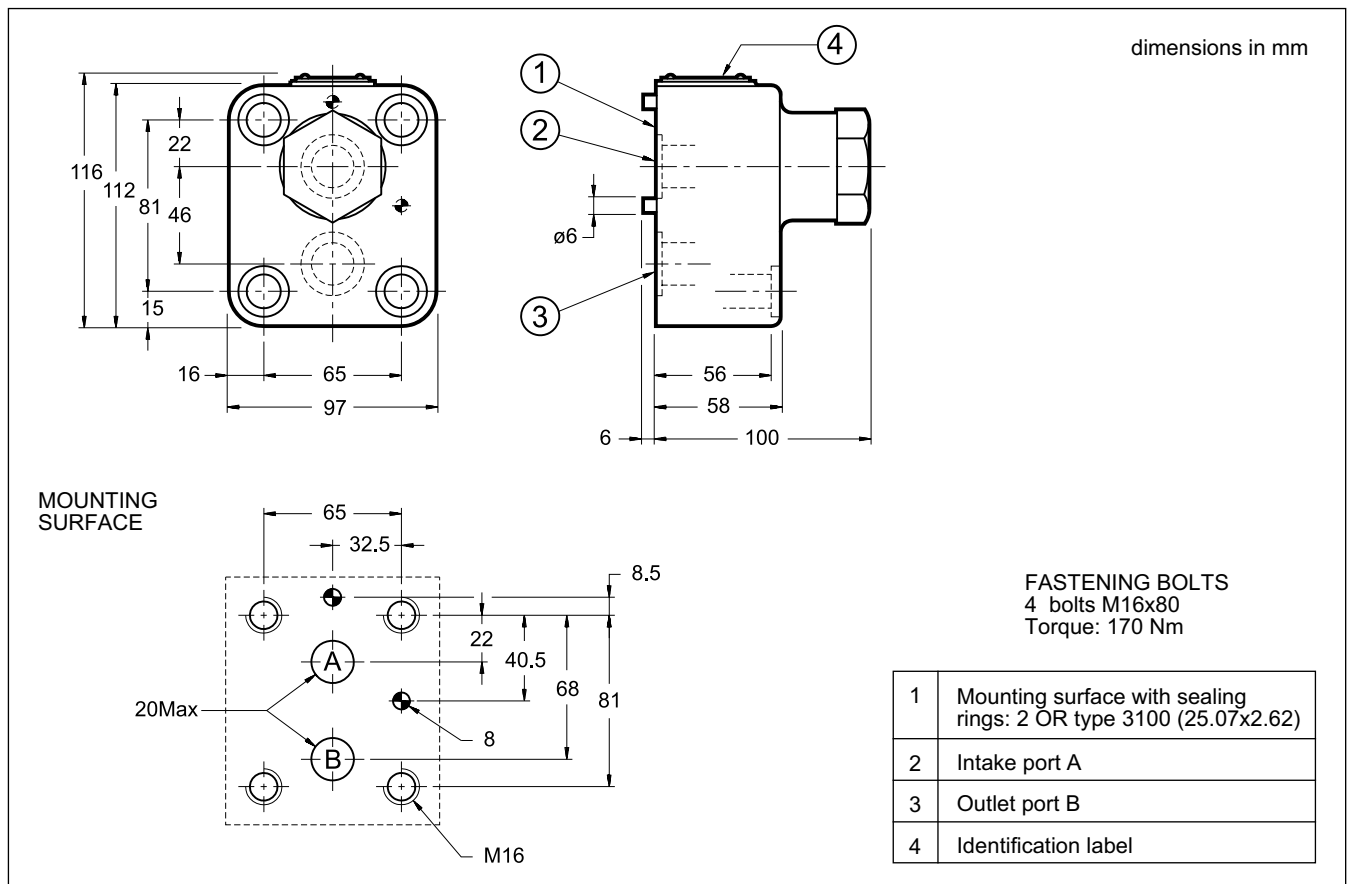
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures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



5 - VR5-P OVERALL AND MOUNTING DIMENSIONS



6 - VR7-P OVERALL AND MOUNTING DIMENSIONS

