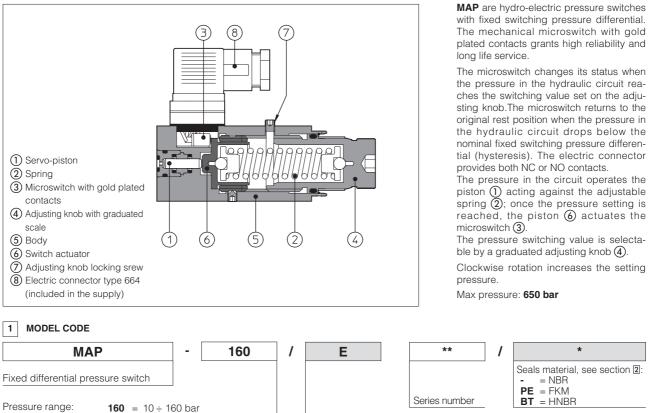


Pressure switches type MAP

with fixed switching pressure differential and microswitch with gold plated contacts



80 = 7 ÷ 80 bar **630** = 50 ÷ 630 bar

320 = 30 ÷ 320 bar

 $40 = 5 \div 40$ bar

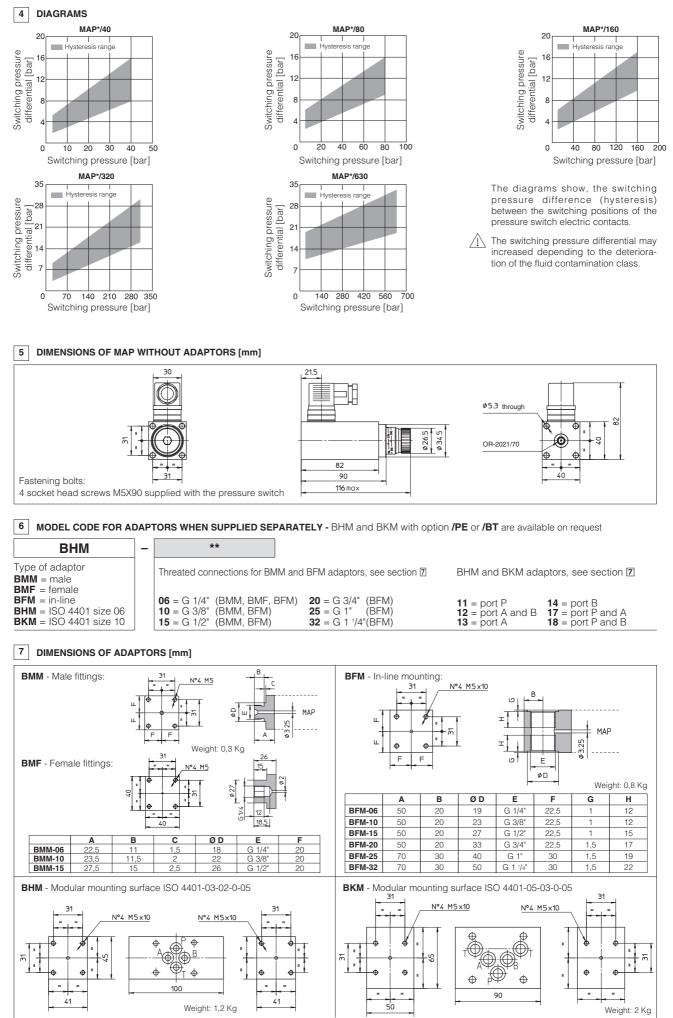
Options: E = Common electric contact connected to pin 1, see section 3

2 MAIN CHARACTERISTICS, SEALS AND HYDRAULIC FLUID - for other fluids not included in below table, consult our technical office

| Assembly position / location | Any position | | | | | | | |
|--------------------------------------|--|----------------------------|---------------|--|--|--|--|--|
| Subplate surface finishing | Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101) | | | | | | | |
| Ambient temperature | Standard execution = -30°C ÷ +70°C /PE option = -20°C ÷ +70°C /BT option = -40°C ÷ +70°C | | | | | | | |
| Seals, recommended fluid temperature | NBR seals (standard) = $-20^{\circ}C \div +60^{\circ}C$, with HFC hydraulic fluids = $-20^{\circ}C \div +50^{\circ}C$ FKM seals (/PE option)= $-20^{\circ}C \div +80^{\circ}C$ HNBR seals (/BT option)= $-40^{\circ}C \div +60^{\circ}C$, with HFC hydraulic fluids = $-40^{\circ}C \div +50^{\circ}C$ | | | | | | | |
| Recommended viscosity | 15÷100 mm²/s - max allowed range 2.8 ÷ 500 mm²/s | | | | | | | |
| Fluid contamination class | ISO 4406 class 21/19/16 NAS 1638 class 10, in line filters of 25 μm (β10 ≥75 recommended) | | | | | | | |
| Hydraulic fluid | Suitable seals type | Classification | Ref. Standard | | | | | |
| Mineral oils | NBR, FKM, HNBR | HL, HLP, HLPD, HVLP, HVLPD | DIN 51524 | | | | | |
| Flame resistant without water | FKM | HFDU, HFDR | 10.0 10000 | | | | | |
| Flame resistant with water | NBR, HNBR | HFC | ISO 12922 | | | | | |

3 CHARACTERISTICS AND WIRING OF INTERNAL MICROSWITCH

| | | Supply voltage [V] | | | | | Rest position | Pressure operated position |
|--|-----|----------------------|--------|-------|--------|------|---------------|----------------------------|
| | | 125 AC | 250 AC | 30 DC | 250 DC | | 2 | 2 |
| Max current resistive load | [A] | 7 | 5 | 5 | 0,2 | STD | | |
| Max current inductive load (Cos $\varphi = 0,4$) | [A] | 4 | 2 | 3 | 0,02 | | | |
| Insulating resistance | | 100 ΜΩ | | | | - /E | 2 | |
| Contact resistance | | 15 mΩ | | | | | | |
| Electrical life-expectancy | | 1.000.000 switchings | | | | | | |
| Mechanical life-expectancy | | 10.000.000switchings | | | | | ĭ | 1ĭ |



For versions 11 and 13 the pressure switch is mounted on side of port A. For version 14 the pressure switch is mounted on side of port B. For versions 12, 17, 18 the pressure switch is mounted on both sides.