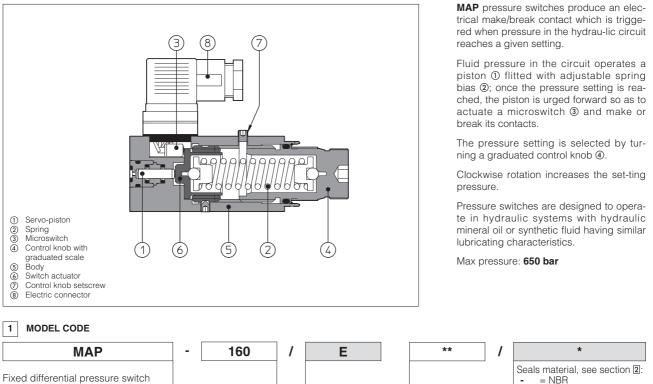
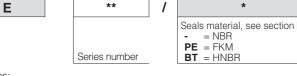


Pressure switches type MAP

with fixed differential



Pressure range:	160 = 10 ÷ 160 bar	
40 = 5 ÷ 40 bar	$320 = 30 \div 320$ bar	Options:
80 = 7 ÷ 80 bar	630 = 50 ÷ 630 bar	E = Common ele



Common electric contact connected to pin 1 (see section 3)

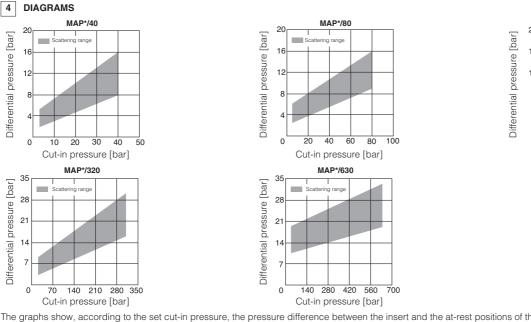
Note: special version with gold-plated microswitch contact available on request

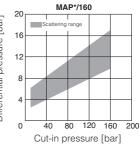
2 MAIN CHARACTERISTICS, SEALS AND HYDRAULIC FLUID - for other fluids not included in below table, consult our technical office

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	ISO 12922			
Flame resistant with water	NBR, HNBR	HFC				

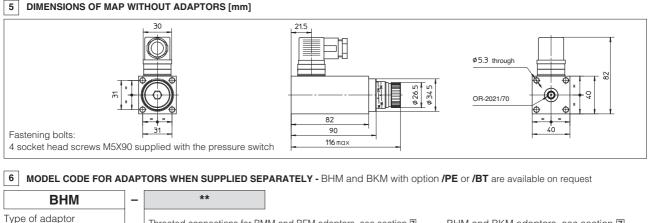
3 CHARACTERISTICS AND WIRING OF INTERNAL MICROSWITCH

	Supply voltage [V]				Resting position	Pressure operated position	
	125 AC	250 AC	30 DC	250 DC		2	2
Max current [A] - resistive load -	7	5	5	0,2	STD		
$ \begin{array}{ll} \mbox{Max current} & [A] \\ \mbox{- inductive load (Cos ϕ = 0,4) -} \end{array} $	4	2	3	0,02			
Insulating resistance	≥100MΩ 15 mΩ				/E		
Contact resistance							
Electrical life-expectancy	≥1.000.000 switchings						
Mechanical life-expectancy	≥10.000.000	switchings				1 <u> </u>	1 <u> </u>

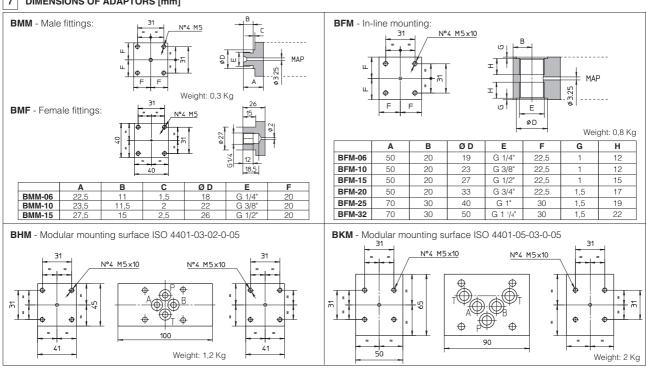




The graphs show, according to the set cut-in pressure, the pressure difference between the insert and the at-rest positions of the pressure switch electric contacts



Threated connections for BMM and BFM adaptors, see section 2 BHM and BKM adaptors, see section 7 BMM = male BMF = female **BFM** = in-line 06 = G 1/4" (BMM, BMF, BFM) 20 = G 3/4" (BFM) **11** = port P **12** = port A and B **13** = port A **14** = port B **17** = port P and A **18** = port P and B **10** = G 3/8" (BMM, BFM) **15** = G 1/2" (BMM, BFM) BHM = ISO 4401 size 06 (BMM, BFM) **25** = G 1" (BFM) BKM = ISO 4401 size 10 32 = G 1 1/4"(BFM)



7 DIMENSIONS OF ADAPTORS [mm]

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.