atos 🛆

80 = 7 ÷ 80 bar

Pressure switches type MAP

with fixed switching pressure differential and microswitch with gold plated contacts



 \mathbf{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)					
Compliance	CE to Low Voltage Directive 2014/35/EU RoHS Directive 2011/65/EU as last update by 2015/65/EU REACH Regulation (EC) n°1907/2006					
Ambient temperature	Standard = $-30^{\circ}C \div +70^{\circ}C$ //	PE option = -20°C ÷ +70°C /B1	option = $-40^{\circ}C \div +70^{\circ}C$			
Seals, recommended fluid temperature	NBR seals (standard) = -20° C ÷ $+60^{\circ}$ C, with HFC hydraulic fluids = -20° C ÷ $+50^{\circ}$ C FKM seals (/PE option)= -20° C ÷ $+80^{\circ}$ C HNBR seals (/BT option)= -40° C ÷ $+60^{\circ}$ C, with HFC hydraulic fluids = -40° C ÷ $+50^{\circ}$ 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 (β25 ≥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					
Flame resistant with water	NBR, HNBR	HFC	ISO 12922			

3 CHARACTERISTICS AND WIRING OF INTERNAL MICROSWITCH

630 = 50 ÷ 630 bar

		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 [A inductive load ($\cos \phi = 0,4$)	A]	4	2	3	0,02			
Insulating resistance	2	≥100MΩ					2	2
Contact resistance	1	15 mΩ				<i>(</i> –		
Electrical life-expectancy	2	≥1.000.000 switchings				/E		
Mechanical life-expectancy	2	≥10.000.000	switchings			1		1



BHM	-	**		
Type of adaptor BMM = male BMF = female		Threated connections for BMM	and BFM adaptors, see section 🛛	BHM and BKM adaptors, see section $\overline{\mathbf{Z}}$
BFM = in-line BHM = ISO 4401 size 06 BKM = ISO 4401 size 10		06 = G 1/4" (BMM, BMF, BFN 10 = G 3/8" (BMM, BFM) 15 = G 1/2" (BMM, BFM)	 20 = G 3/4" (BFM) 25 = G 1" (BFM) 32 = G 1 '/4"(BFM) 	11 = port P 14 = port B 12 = port A and B 17 = port P and A 13 = port A 18 = port P and B



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.

7 DIMENSIONS OF ADAPTORS [mm]