

Table **D250-3/E**

Pressure switches type MAP

with fixed switching pressure differential and microswitch with gold plated contacts



Pressure range:	160 = 10 ÷ 160 bar
40 = 5 ÷ 40 bar	320 = 30 ÷ 320 bar
80 = 7 ÷ 80 bar	630 = 50 ÷ 630 bar

E		/	
	Series number		Seals material, see section - = NBR PE = FKM BT = HNBR
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 (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	HFDU, HFDR	100, 100,00			
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			•
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		≥100MΩ						_2
Contact resistance		15 mΩ				- /E		
Electrical life-expectancy		≥1.000.000 switchings						
Mechanical life-expectancy		≥10.000.000	switchings			1		1



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.