

FOR FINE PRESSURE AND FLOW MEASUREMENT

Relative and differential pressure switch type 630

Pressure range 6 ... 5500 mbar

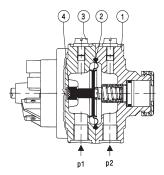


Differential pressure, vacuum and overpressure switches of type series 630 are suitable for monitoring neutral and slightly aggressive liquids and gases. Switching element isolated from medium.

Ideal for use as flow monitor in sanitary piping/ heating installations or for level monitoring in general in process technology applications. Extremely rugged construction with high functionality due to 10/20 bar safety margin in both pressure chambres.

- High overpressure safety margin at both connections (P1 + P2) up to 10/20 bar
- Functionally simple, rugged mechanics with high operating reliability
- Also for slightly aggressive liquids and gases
- Specially economical version with switching points adjusted in the factory
- Repeatability up to < ± 0.4 mbar

ressure range						
ressure range elative und differential		6 5500 mbar				
cidive and amerenial		0 3300 Mbai				
perating conditions						
1edium		Liquids and neutral gases				
	NBR-based	0 +80 °C				
	FPM	-10 +80 °C				
emperature	EPDM O (Silicone)	-10 +80 °C -40 +80 °C				
·	Q (Silicone) Ambient	-40 +80 °C +65 °C				
	Storage	-40 +80 °C				
	≤ 200 mbar	10 bar				
olerable overload and max. tolerable system pressure (P1 > P2)	> 200 mbar	20 bar				
lupture pressure		30 bar				
owest turn-on pressure		≥ 6 mbar				
mallest switching difference		≥ 3 mbar				
<u>.</u>						
laterials in contact with the medium						
		NBR based				
Diaphragm		EPDM				
nuprii ugiii		FPM Silicone				
		Anodized aluminium				
		Brass				
ase		Brass chemically nickel plated				
		X14CrMoS17 1.4104				
		X5CrNi18-10 1.4301				
		X10CrNi18-8 1.4310				
Other components		Steel category A2 for screws				
		Polyacetate-C, Polyamide				
		, , , ,				
Contact material / Loading						
Nominal voltage, type of current		250 VAC				
lominal current for resistive loading		1 A				
Nominal current for motor loading		0.5 A				
Contact system		Changeover contact				
ervice life	Mechanically	10 ⁶ switching cycles ¹⁾				
to a conference of the first						
Protection standard		ID OO				
Vithout cover Vith cover (PG11) 2)		IP 00 IP 54				
With cover (PG9) 3)		IP 65				
VIIII COVEI (FG9)		IF 03				
Repeatability						
5% of the switching point	with diaphragm NBR-based / silicone	minimum ±0.4 mbar				
10% of the switching point	with diaphragm FPM / EPDM	minimum ±0.8 mbar				
Electrical connections						
crew terminals (Option)						
ab connectors (AMP) 6.3 mm						
Cable gland PG9 / PG11		with cover				
ressure connections						
hread	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	G 1/6 G 1/6				
traight screwed connection						
crewed Socket	CuZn nickel plated for tube (Ø 6 mm)	G 1/8				
Acusting instructions						
Mounting instructions or switching points calibrated in the factory		Indicate installation arrangement				
or switching points calibrated in the factory n case of liquid media		Connections down				
	points also change. The adjustment ranges are in relation with					
by changing the mounting position the switching	points also change. The adjustment ranges are in felation with	те точнину розноп.				
Veight						
Vith aluminium base		~ 380 g				
		4000				



Legend to cross-section drawing

- Pressure case
 - Diaphragm Vent
- 2 3 4 P1

~ 1000 g

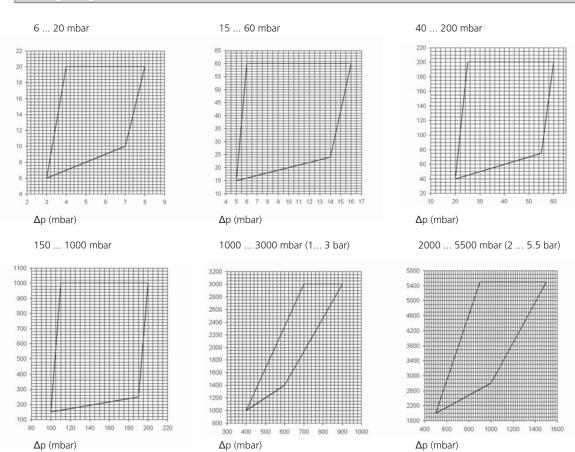
- Permanent magnet
- Higher pressure / lower vacuum Lower pressure / higher vacuum

With base brass / nickel-plated brass

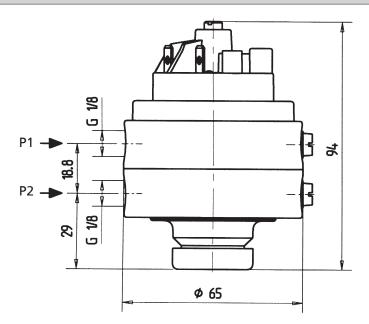
Packaging Single packaging in cardboard boxes

				1	2	3	4	5	6	7
Order code selection table			630.	Χ	Χ	Χ	Χ	Χ	Χ	X
Presssure range ¹⁾	6 20 mbar			9	1					
	15 60 mbar			9	2					
	40 200 mbar			9	3					
	150 1000 mbar			9	4					
	1 3 bar			9	5					
	2 5.5 bar			9	6					
Contact material	AgCdO					0				
Pressure case	Anodized aluminium, black						0			
	Brass						1			
	Nickelplated brass						2			
	Anodized aluminium, black	with straight screwed connection G1/8 for pipe ø 6 mm					3			
	Brass	with straight screwed connection G1/8 for pipe ø 6 mm					4			
	Nickel plated brass	with straight screwed connection G1/8 for pipe ø 6 mm					5			
	Anodized aluminium, black	with screwed socket G1/8 for tube ø 6 mm					6			
	Brass	with screwed socket G1% for tube ø 6 mm					7			
	Nickel-plated brass	with screwed socket G1/8 for tube ø 6 mm					8			
Diaphragm material	NBR							0		
	FPM							1		
	EPDM							2		
	Q (silicone)							3		
Cover PG9 on side / Bracket	Without cover	without bracket							0	
		with bracket type A							1	
		with bracket type B							2	
	With cover (plastic) (Fig.1) (PG11)	without bracket							3	
		with bracket type A							4	
		with bracket type B							5	
	With spec. cover (Fig.2) (PG9)	without bracket							6	
		with bracket type A							7	
		with bracket type B							8	
Switching points (optional)	Two factory set switching points	(please specify on order e.g.: W10/8mbar)								W
	One factory set switching point high	(please specify on order e.g.: R25mbar)								R
	One factory set switching point low	(please specify on order e.g.: U100mbar)								U

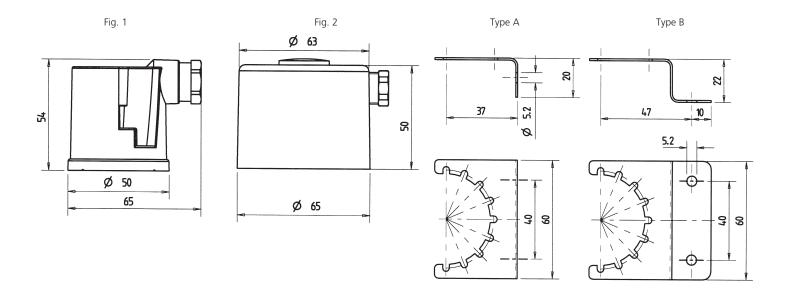
Setting ranges



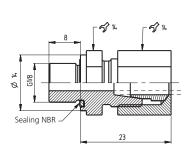
¹⁾ Other pressure range on request







Straight screwed connector $\, \, {\rm G} \, \, 1\!\!/_{\! 8} \,$



9,5 (5) 14,5 21

(25)

Screwed Socket G 1/8



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Huba Control AG Headquarters

Industriestrasse 17
5436 Würenlos
Telefon +41 (0) 56 436 82 00
Telefax +41 (0) 56 436 82 82
info.ch@hubacontrol.com

Huba Control AG Niederlassung Deutschland

Schlattgrabenstrasse 24
72141 Walddorfhäslach
Telefon +49 (0) 7127 23 93 00
Telefax +49 (0) 7127 23 93 20
info.de@hubacontrol.com

Huba Control SA Succursale France

Rue Lavoisier
Technopôle Forbach-Sud
57602 Forbach Cedex
Téléphone +33 (0) 387 847 300
Télécopieur +33 (0) 387 847 301
info.fr@hubacontrol.com

Huba Control AG Vestiging Nederland

Hamseweg 20A 3828 AD Hoogland Telefoon +31 (0) 33 433 03 66 Telefax +31 (0) 33 433 03 77 info.nl@hubacontrol.com

Huba Control AG Branch Office United Kingdom

Unit 13 Berkshire House County Park Business Centre Shrivenham Road Swindon Wiltshire SN1 2NR Phone +44 (0) 1993 776667 Fax +44 (0) 1993 776671 info.uk@hubacontrol.com

www.hubacontrol.com