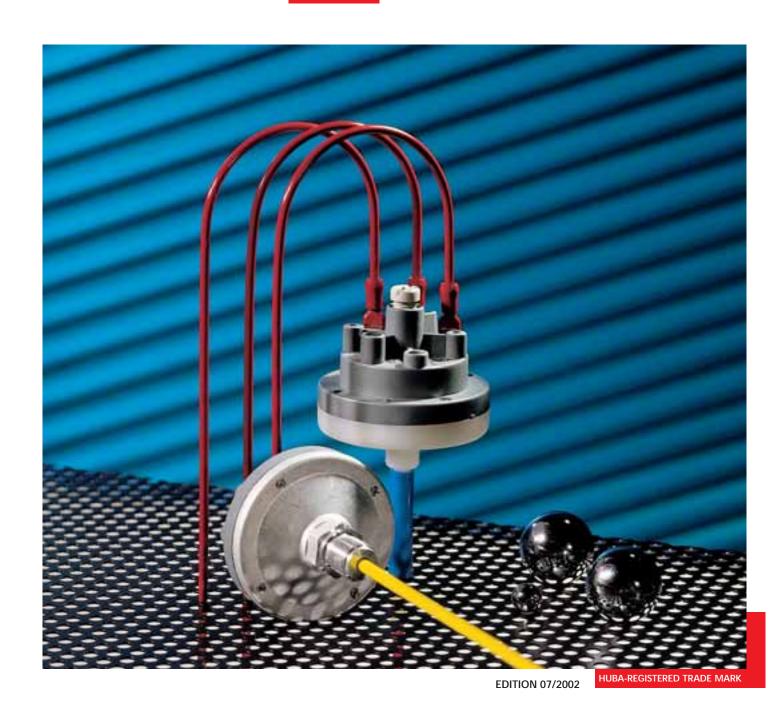
Overpressure and vacuum switch –900 mbar ... 6 bar



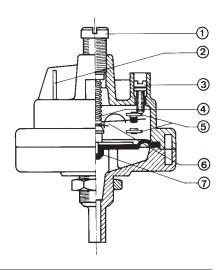




EDITION 07/2002

Technical overview

With their finely tuned range increments and long-term switching point stability, overpressure and vacuum switches of type series 620/25 are suitable for monitoring liquids and gases in industrial equipment manufacturing applications in general, in process technology or in food automation. The rugged mechanics are the assurance of high operating reliability, even in the presence of percussions or vibrations. A range of switches with many standard versions and ideal price/performance ratio, even in the case of small quantities.



The distinct advantages

- High accuracy by 13 ideally designed pressure range increments
- Switching differences adjustable
- High long-term stability with reproducibility of switching points up to < ± 0.3 mbar
- Customer-specific switching points adjustable in factory
- Rugged industrial switch with excellent price/performance ratio

Legend to cross-section drawing

- 1 Switching point setting
- 2 AMP tab connectors
- 3 Switching difference setting
- 4 Compression spring
- 5 Changeover contact
- 6 Contact element
- 7 Diaphragm

Pressure ranges

See order code selection table.

Maximum overpressure

Maximum overpressure and test pressure see setting ranges.

Setting ranges

See graphic on adjacent page/rear cover.

Lowest turn-on pressure

2 mbar

Switching point and switching difference adjustable.
Lowest switching difference 1 mbar.

Reproducibility

± 5% of the switching point of type A and F diaphragm material, but as a minimum ± 0.3 mbar.

± 10% of the switching point of type C and E diaphragm material, but as a minimum ± 0.6 mbar.

Temperature range

Medium and ambient temperature with diaphragm type 625:

 NBR-based
 0 ... 80 °C

 FPM
 -10 ... 80 °C

 EPDM
 -10 ... 80 °C

 Q (Silicon)
 -40 ... 80 °C

Type 620 see order code selection table.

Case construction

Type series 620/625: Switch case fiberglass-reinforced plastic. Type series 620: Base ABS or PA
Type series 625: Base aluminium
or brass.

Other specifications or surface treatment on request.

Weight

 Type 620:
 70 grams

 Type 625 alu:
 100 grams

 Type 625 brass:
 200 grams

Installation arrangement

Unrestricted.

For switching points calibrated in the factory indicate installation arrangement.

Pressure connections

Type series 620:

Connection pipe Ø 6 mm, inside thread M5, thread M12x1 with counternut.

Type series 625:

Thread G 1/8, G 1/4, M12x1 with counternut.

See order code selection table. Other threads on request.

Diaphragm

A – NBR-based E – EPDM
C – FPM F – Silicon
Parts that come into contact with
the medium, to base and
diaphragm: Polyacetal and Inox
1.4301 with vacuum switch version.

Electrical connections

Screw terminals (option)
AMP tab connectors 6,3 mm
Cable gland PG 11 with cover

Contact system

Changeover contact

Contact material / Loading

Nominal voltage Type of current:	VAC	250	250
Nominal current for resistive loading:		1 A	6 A
Nominal current for motorloading:		0.5 A	3 A
Contact material:		AgCdO	AgCdO

Protection class

IP 00 without cover

IP 54 with cover (for installation arrangement electrical connections upward)

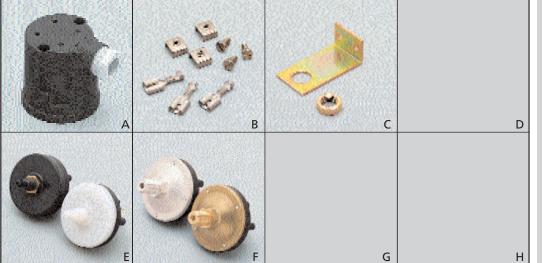
Service life

Mechanical and electrical service life:

10⁶ switching cycles, if the permitted switching difference is respected according to the diagram on the back.

Accessories

- Plastic cover
- Mounting bracket
- AMP connector set
- Screw terminals

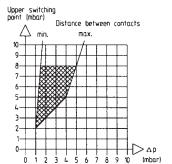


- A Plastic cover with PG 11 on side, Fig. 1
- B Screw terminals AMP connector set
- C Mounting bracket
- E Type 620 with pressure case ABS/PA
- F Type 625 with pressure case alu/brass

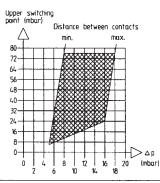
															1 _
					Swit	ching									
			p max	pt ²	capacity 250										
Pressure ranges ¹	2	. 8	30	50		1 A		1							
(mbar)	6	. 75	300	500		1 A		2							
	12.5		300	500		6 A		3							
	12.5	. 200	300	500		1 A		4							
	25		300	500		6 A		5							
Pressure connections/	Hose Ø		(M12x1)		up to 70 °C				0						
pressure case	Hose Ø		(M12x1)		up to 80 °C				1						
		read M5	(M12x1)		up to 70 °C				2						
	Inside th	rread M5	(M12x1)	PA 66	up to 80 °C				3						
Diaphragm material	Type A	NBR based								0					
Diapinagin material	Type C	FPM								2					
	Type E	EPDM								4					
		Q (Silicon)								6					
	Type F	Q (Silicon)				625				0					
Pressure							9								
Vacuum							6								
vacuum							0								
					Swi	tching									
			p max	pt ²	capacity 250										
Pressure ranges ¹ (mbar)	2	8	30	50	capacity 250	1 A		0							
ressure runges (mbar)	_	75	300	500		1 A		1							
		80	300	500		6 A		2							
	12.5		300	500		1 A		3							
		220	300	500		6 A		4							
		2000	6000	10 000		1 A		5							
		2200	6000	10 000		6 A		6							
		6000	6000	10 000		6 A		7							
Vacuum ranges ¹		30	- 50	- 100		1 A		1							
		80	- 300	- 500		1 A		2							
		150	- 300	- 500		6 A		3							<u> </u>
			- 1000	- 1000		6 A		4							
	-100	900	- 1000	- 1000		6 A		5							
Pressure connections /	G 1/8	aluminium							1						
Pressure case	M12x1	aluminium							2						
riessule case	G 1/4	brass							3						
	G 1/4	aluminium							4						
	G 1/4	brass							B						
	G 1/6	DI 922							Ь						
Diaphragm material	Type A	NBR based								0					
Diapinagin material	Type C	FPM								2					
	Type E	EPDM								4					
	Type F	Q (Silicon)								6					
Accessories 620/625	Plastic co														
	with PG	11 on side fi	ig. 1							1	0	5	8	3	6
		ng bracket wit								1	0	4	2	5	9
		ng bracket wit	th hole Ø1	14 mm for G	1/4					1	0	2	8	7	2
		nnector set								1	0	3	4	7	9
	Screw te	erminal set								1	0	3	4	9	1

¹ Other ranges on request ² pt = test pressure

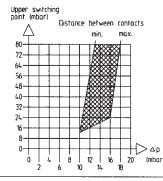




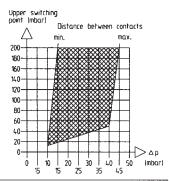
Setting range: 6...75 mbar



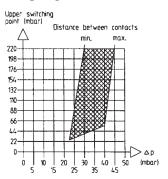
Setting range: 12.5...80 mbar



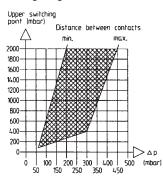
Setting range: 12.5...200 mbar



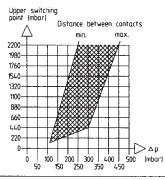
Setting range: 25...220 mbar



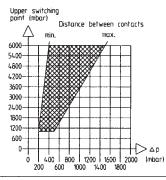
Setting range: 80...2000 mbar



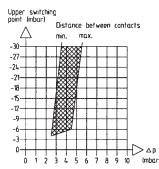
Setting range: 120...2200 mbar



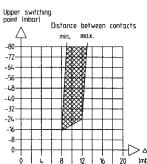
Setting range: 1000...6000 mbar



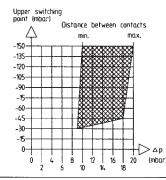
Setting range: -4...-30 mbar



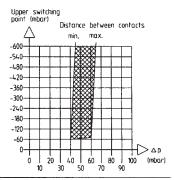
Setting range: -15...-80 mbar



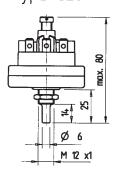
Setting range: -30...-150 mbar



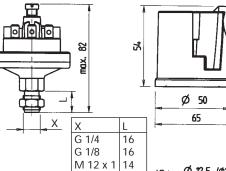
Setting range: -50...-600 mbar



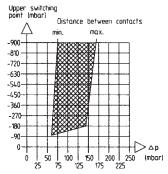
Type 620



Type 625



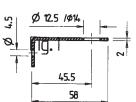
Setting range: -100...-900 mbar











Internet: www.hubacontrol.com

1 Common 2 NC contact 3 NO contact







Agent for:

Huba Control Switzerland

Headquarters						
Industriestrasse 17						
CH-5436 Würenlos						

Phone ++41 (0) 56 436 82 00 ++41 (0) 56 436 82 82

e-mail: info.ch@hubacontrol.com

Huba Control United Kingdom

Tiuba Control	Offica Kingaom				
Unit 3 Networ	k Point				
Range Road					
GB-Witney Ox	fordshire OX29 0YD				
Phone	01 993 776 667				
Fax	01 993 776 671				
e-mail: info.uk@hubacontrol.com					

Huba Control France

e-mail: info.fr@hubacontrol.com

Huba Control Germany

e-mail: info.de@hubacontrol.com

Huba Control Netherlands

e-mail: info.nl@hubacontrol.com