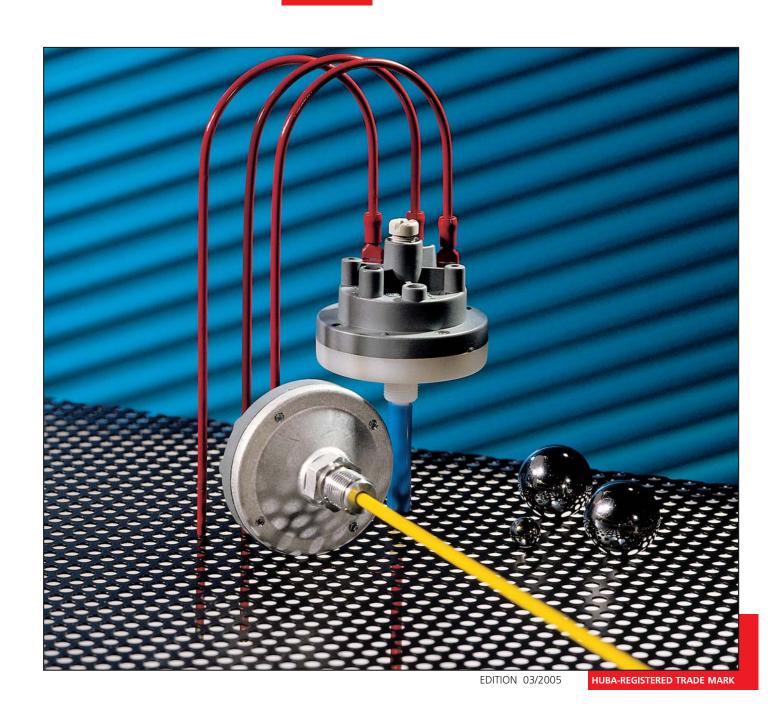
Overpressure and vacuum switch

– 900 mbar ... 6 bar

625



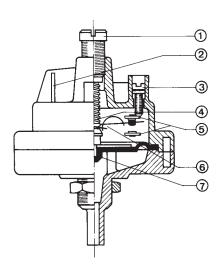




Technical overview

With their finely tuned range increments and long-term switching point stability, overpressure and vacuum switches of type 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.



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

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

Pressure ranges

See order code selection table

Maximum overpressure

Maximum overpressure and test pressure see setting ranges

Setting ranges

See graphic on the back

Lowest turn-on pressure

2 mba

Switching point and switching difference adjustable

Smallest switching difference: 1 mbar

Repeatability

 \pm 5% of the switching point of type A, F diaphragm material, but as a minimum \pm 0.3 mbar

 \pm 10% of the switching point of type C, E diaphragm material, but as a minimum \pm 0.6 mbar

Temperature range

Medium temperature with diaphragm type 625:

NBR-based 0 ... + 80 °C

FPM - 10 ... + 80 °C

EPDM - 10 ... + 80 °C

Q (Silicon) - 40 ... + 80 °C

Ambient temperature T 65

Type 620 see order code selection table

Case construction

Type series 620/25: Switch case fiberglass-reinforced

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 g

 Type 625 with aluminium base
 100 g

 Type 625 with base brass
 200 g

Installation arrangement

Unrestricted. For switching points calibrated in the factory indicate installation arrangement.

Pressure connections

Type 620

Connection pipe \varnothing 6 mm, inside thread M5, thread M12x1 with counternut

Type 625

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

See order code selection table. Other threads on request

Diaphragm

A NBR-based C FPM E EPDM F Silicon

Parts coming into contact with the medium, to base and diaphragm. Polyacetal and stainless steel 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 250 VAC 250 VAC

Nominal current for resistive loading 1 A 6 A

Nominal voltage for motor loading 0.5 A 3 A

Contact material AgCdO AgCdO

Type of protection

Without cover IP 00 With cover (for installation arrangement electrical connections upward) IP 54

Service life

Mechanical and electrical service life: 10° switching cycles, if the permitted switching difference is respected according to the diagram on the back.

Accessories

See order code selection table

Versions



Plastic cover with Pg 11 on side



Screw terminals AMP connector set



Mounting bracket



Type 620 with pressure case ABS / PA



Type 625 with pressure case <u>alu/brass</u>

Order code selection table					620.	9	Χ	Χ	Χ	
Pressure ranges¹ (mbar)	2 8 6 75 12.5 80 12.5 200 25 220	p max 30 300 300 300 300	pt ² 50 500 500 500 500		Switching capacity 250 V 1 A 1 A 6 A 1 A 6 A			1 2 3 4 5		
Pressure connections/ Pressure case	Hose Hose Inside thread Inside thread	Ø 6 mm Ø 6 mm M5	(M12x1) ABS (M12x1) PA 66 (M12x1) ABS (M12x1) PA 66	70 °C 80 °C 70 °C 80 °C	6 A			5	0 1 2 3	
Diaphragm material	Type A – NBR-bas Type C – FPM Type E – EPDM Type F – Q (Silicor									0 2 4 6

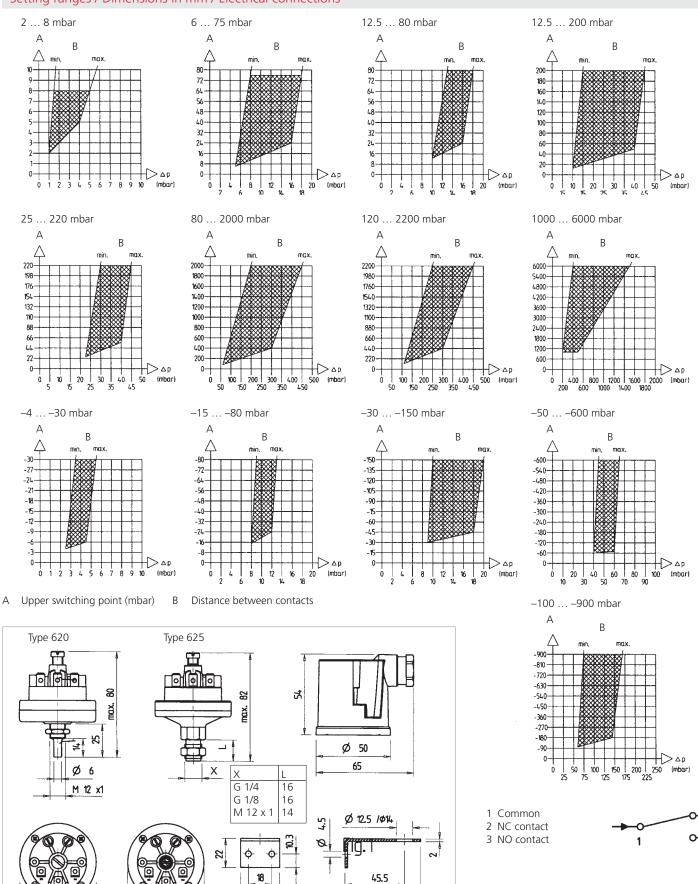
Order code selection	on table			625	. X	X	X	X
Pressure					9			
Vacuum					6			
		p max	pt ²	Switching capacity 250 V				
Pressure ranges ¹ (mbar)	2 8	30	50	1 A		0		
	6 75	300	500	1 A		1		
	12.5 80	300	500	6 A		2		
	12.5 200	300	500	1 A		3		
	25 220	300	500	6 A		4		
	80 2000	6000	10 000	1 A		5		
	120 2200	6000	10 000	6 A		6		
	1000 6000	6000	10 000	6 A		7		
Vacuum ranges ¹	-430	-50	-100	1 A		1		
	−15 −80	-300	-500	1 A		2		
	−30 −150	-300	-500	6 A	_	3		
	-50600	-1000	-1000	6 A		4		
	-100 - 900	-1000	-1000	6 A		5		
Pressure connections/	G 1/8 Alumini						1	
Pressure connections/ G 1/8 Aluminium Pressure case M12x1 Aluminium					_	+-	2	
Pressure Case	G 1/4 Brass	um			_	+	3	
	G 1/4 Alumini	LIM			_	+-	4	
		um plated brass 5 μι	m		_		A	
	G 1/8 Brass	nated blass 5 m	11		_	-	В	
	G 170 D1833				+	-		
Diaphragm material	Type A – NBR-based							0
	Type C – FPM							2
	Type E – EPDM							4
	Type F – Q (Silicon)							6

Accessories

Plastic cover with Pg 11 lateral	IP 54		1	0	5	8	3	6
Mounting bracket with hole	Ø 12.5 mm	for M12	1	0	4	2	5	9
Mounting bracket with hole	Ø 14 mm	for G 1/4	1	0	2	8	7	2
AMP Stecker-Set			1	0	3	4	7	9
Schraubklemmen-Set			1	0	3	4	9	1

¹ Other pressure ranges on request 2 pt = test pressure

Setting ranges / Dimensions in mm / Electrical connections



58

For vacuum:

terminal 3 break contact

30

Ø 58.5

Ø 58.5