Compact pressure switches for gas and air GW...A6 GW...A6/1

Double pressure switch GW... / ... A6

5.01





Technical description

The pressure switch GW...A6 and the double pressure switch GW.../....A6 are adjustable compact pressure switches as per EN for firing systems. They are suited for switching a circuit on, off or over if the actual pressure value changes compared to the setpoint.

The setpoint (switching point) is set on an adjusting wheel with scale. A test nipple is integrated in the metal housing as standard.

Application

Pressure monitoring in combustion, ventilation and air-conditioning technologies.

Suitable for gases of families 1,2,3 and other neutral gaseous media.

Approvals

EC type test approval as per EC Gas Appliance Directive:

GW...A6 CE-0085 AO 3220

EC type test approval as per EC Pressure Appliance Directive:

GW...A6 CE0036

Approvals in other important gasconsuming countries.

TÜV (German Technical Inspectorate) test as pressure switch; special construction type as per TRD 604 and VdTÜV leaflet, Edition 100/1, as well as Class "S" as per EN 1854.

Functional description

Single-acting pressure switch in overpressure range.

The pressure switches operate without any power supply.

Switching response

GW...A6

Short response time during pressure fluctuations.

GW...A6/1

Slow response time during short-term pressure fluctuations by additional damping nozzle.

GW...A6 pressure switch

The control unit responds to pressure. If the setpoint is exceeded or undershot, the circuit is switched on, off or over.

GW... / ...A6 double pressure switch

Combination of two flanged GW... A6 single pressure switches. The two setpoints are set separately and independently. A combination of different setpoint ranges is therefore possible. The two control units are fed from the same medium at the medium's pressure.

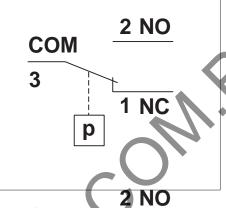
Switching function

If pressure increases:

1 NC opens, 2 NO closes.

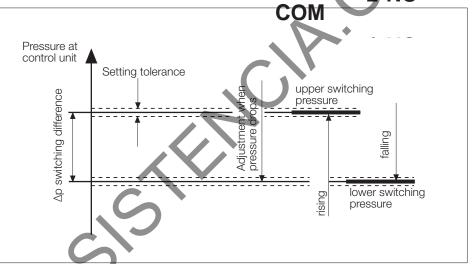
If pressure drops:

1 NC closes, 2 NO opens.



Definition of $\Delta \textbf{p}$ switching difference

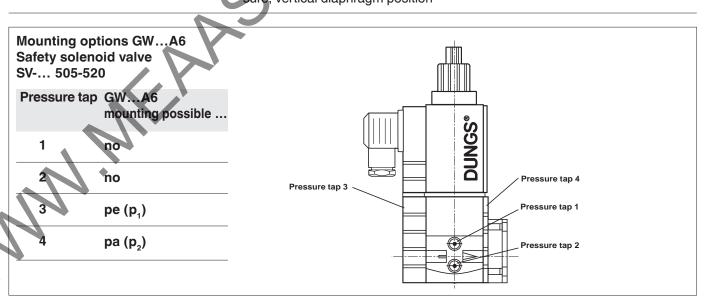
The Δp switching difference is the pressure difference between the upper and lower switching pressure.

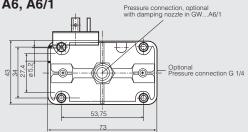


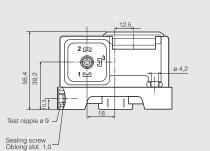
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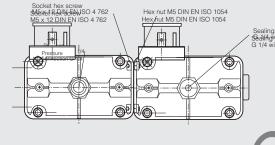
Specifications

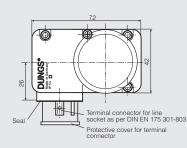
opcomodions.				
Max. operating pressure	GW 3 A6 - GW 150 A6 GW 500 A6	5 500 mbar 600 mbar	(50 kPa) (60 kPa)	
Pressure connection	Standard:	centrally on housing bottom, G 1/4 inner thread as per ISO 228		
	Special design:	additionally G 1/4 inner thread (side right)		
Measuring connection	Test nipple integrated in	metal housing ø9		
Temperature range	Ambient temperature	-15 °C to +70 °C		
	Medium temperatue	-15 °C to +70 °C		
	Storage temperature	-30 °C to +80 °C		
Materials	Housing:	Aluminium die cast	~//,	
	Switch part:	Polyamide		
	Diaphragms:	NBR		
	Switching contact:	Ag		
Switching voltage	AC eff. min. 24 V	max. 250 V	()	
	DC min. 24 V	max. 48 V		
Nominal current	GW 10500 A6	GW	7 3 A6	
	AC eff. max.10 A	AC	eff. max. 6 A	
Switching current	AC eff. max.6 A at cos	φ 1 AC	eff. max. 4 A at cos φ 1	
o manage our one	AC eff. max.3 A at cos		eff. max. 2 A at cos φ 0,6	
	AC eff. min, 20		eff. min. 20 mA	
	DC min. 2		min. 20 mA	
	DC max.1		max. 1 A	
Electrical connection	Terminal connection for I	ine sockets as per DI	IN EN 175 301-803, 3-pin,	
	protection-insulated with			
Degree of protection	IP 54 as per IEC 529 (EN	N 60529)		
Setting tolerance	± 15% switch point devia sure, vertical diaphragm		oint, adjusted for dropping pr	

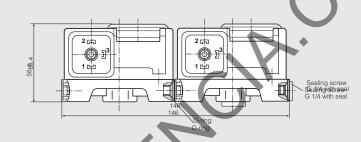












Installation position



Standard installation position; if a different installation position is used, pay attention to the changed operating points:

GW 3...50 A6 approx. ± 0,6 mbar GW 150 A6 approx. ± 1 mbar **GW 500 A6** approx. ± 3 mbar



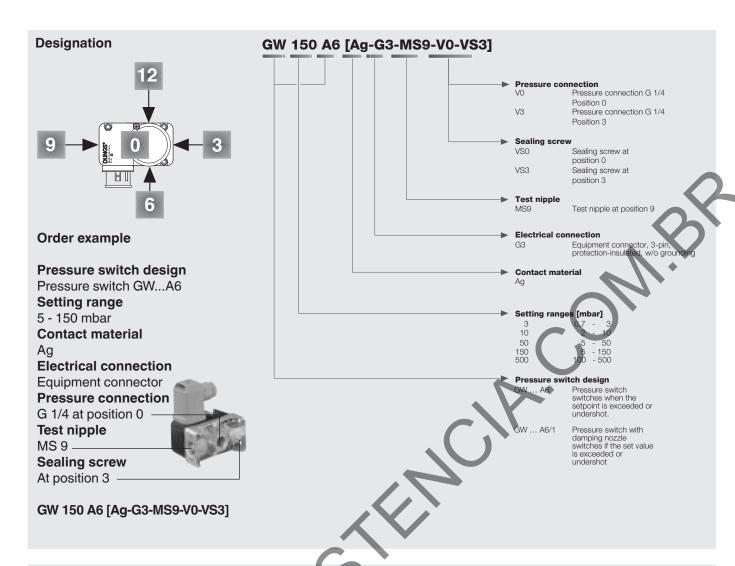
When installed horizontally, the pressure switch switches at a pressure higher.



When installed horizontally overhead, the pressure switch switches at a pressure lower.



When installed in an intermediate installation position, the pressure switch switches at pressure deviating from the set reference value.



Accessories for GW A6 pressure switch		
Line sockets, 3-pin + grounding, grey GDMW		210 318
Test nipple G 1/4 with sealing ring (5 x)	and the state of t	230 398
Sealing screw G 1/4 with sealing ring (5 x)		230 396
Mounting kit for double pressure switch		213 910
Mounting bracket, metal		230 288
Mounting kit GWA6 (for fitting to SV)		242 771

Compact pressure switches for gas and air GW...A6 GW...A6/1

Double pressure switch GW... / ... A6



Type Design [Ag-G3-MS9-V0] GWA6 GW 3 A6 pressure GW 10 A6 switch GW 50 A6	Order number	Setting range [mbar]	Switching difference
pressure GW 10 A6			Δp [mbar]
GW 150 A6 GW 500 A6 Supplied in collective packaging	228 723 228 724 228 725 228 726 228 727	0,7 - 3 2 - 10 5 - 50 5 - 150 100 - 500	≤ 0,7 ≤ 1 ≤ 2,5 ≤ 5 ≤ 15

Type	Design [Ag-G3-MS9-V0-VS3]	Order number	Setting range [mbar]	Switching difference Δp [mbar]
GWA6 pressure switch Supplied in s	GW 3 A6 GW 10 A6 GW 50 A6 GW 150 A6 GW 500 A6 separate packaging, includi	231 111 231 112 231 113 231 114 231 115 ng line socket	0,7 - 3 2 - 10 5 - 50 5 - 150 100 - 500	 ≤ 0,7 ≤ 1 ≤ 2,5 ≤ 5 ≤ 15

Туре	Design [Ag-G3-MS9-V0-VS3]	Order number	Setting range [mbar]		Switching difference Δp [mbar]
GW A6 min. / GW A6 max. double pres- sure switch	GW 3 / 10 A6 - GW 10 / 10 A6	229 235 229 236 229 237 229 238 229 239 229 240 229 241 229 242 229 243	0,7 - 3 0,7 - 3 2 - 10 2 - 10 2 - 10 5 - 50 5 - 50 5 - 150 100 - 500	2 - 10 5 - 50 5 - 150 5 - 150	$ \leq 0.7 \leq 0.7 $ $ \leq 0.7 \leq 1 $ $ \leq 1 \leq 1 $ $ \leq 1 \leq 2.5 $ $ \leq 1 \leq 5 $ $ \leq 2.5 \leq 2.5 $ $ \leq 2.5 \leq 5 $ $ \leq 5 \leq 5 $ $ \leq 15 \leq 15 $

We reserve the right to make any changes in the interest of technical progress.

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