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## **HBC 975**

Slam Shut Valves

### HBC 975

HBC 975 is a compact safety device (SAV) which quickly intercepts gas flow whenever the pressure under monitoring reaches pre-set limits, or whenever manually required by operator on site or through a remote command (optional device).

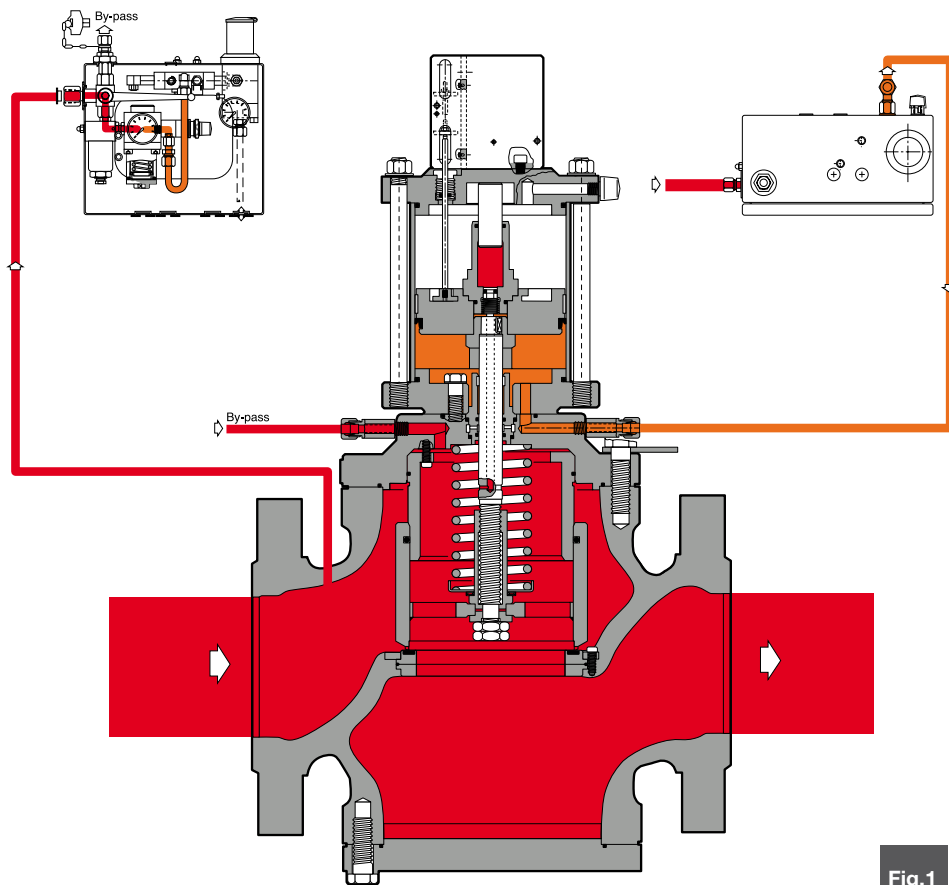


Fig.1

## General Information

HBC 975 is a slam-shut valve with self operated actuation and manual resetting. It is an ideal product for transmission networks, large industrial and any high profile application. HBC 975 is suitable for natural gas and all non-corrosive gaseous media.

Its "top entry" design allows an easy maintenance without removing the body from the pipeline.

Main features:

- Intervention for overpressure and/or underpressure;
- Manual push-button control at installation point;
- 3 way solenoid valve for remote control (available on request);
- Manual re-setting;
- Internal by-pass for pressure equalization before resetting
- Possibility of application of devices for remote signal information (contact switches or proximity switches);



Fig. 2

**DESIGNED  
WITH YOUR  
NEEDS IN MIND**

- **COMPACT DESIGN**
- **EASY MAINTENANCE**
- **TOP ENTRY**
- **FAST RESPONSE TIME**

- **HIGH ACCURACY**
- **INSENSITIVE TO VIBRATIONS**
- **THIRD PARTY CERTIFIED SAFETY DEVICE**
- **INTEGRAL BY-PASS**

## Slam shut valves

### MAIN FEATURES

#### HBC 975

- > Design pressure PS: 51,7 bar (749,6 psi) for class 300  
102 bar (1479 psi) for class 600
- > Design temperature: -20 °C to +60 °C (-4 °F to + 140 °F)
- > Ambient temperature: -20 °C to +60 °C (-4 °F to + 140 °F)
- > Range of intervention for overpressure Who: 1,0 to 85 bar ( 145 to 1232 psi )
- > Range of intervention for underpressure Whu: 0,4 to 75 bar( 58 to 1087 psi )
- > Accuracy class AG: up to 1 (depending on setting pressure)
- > Available size: DN 4" - 6" - 8" - 10"
- > Flanging: class ANSI 300 - ANSI 600 RF or RTJ according to ANSI16.5

### MATERIALS

#### HBC 975

Body	Cast steel ASTM A352 LCC for class 300 and 600
Valve Seat	Steel + vulcanized rubber
Plug	Steel + vulcanized rubber
Seals	Nitril rubber
Compression fitting	According to DIN 2353 in zinc-plated carbon steel

The characteristics listed above are referred to standard products. Special characteristics and materials for specific applications may be supplied upon request.

**KG valve coefficient**
**HBC 975**

Nominal diameter (mm)	100	150	200	250
Size (inches)	4"	6"	8"	10"
KG flow coefficient	8416	17471	27282	38425

For sizing formula refer to [www.fiorentini.com/sizing](http://www.fiorentini.com/sizing)

**Slam-shuth pressure switches**
**HBC 975**

Pressure Switch	Set point range for Overpressure (OPSO)	Set point range for Uderpressure (UPSO)
SH 1190-103	1,3 to 11	0,4 to 6,8
SH 1190-104	10 to 31,5	1 to 20,6
SH 1190-105	25 to 76	2,5 to 50
SH 1190-105/B	58 to 85	45 to 75

values in bar(g)

## Installation

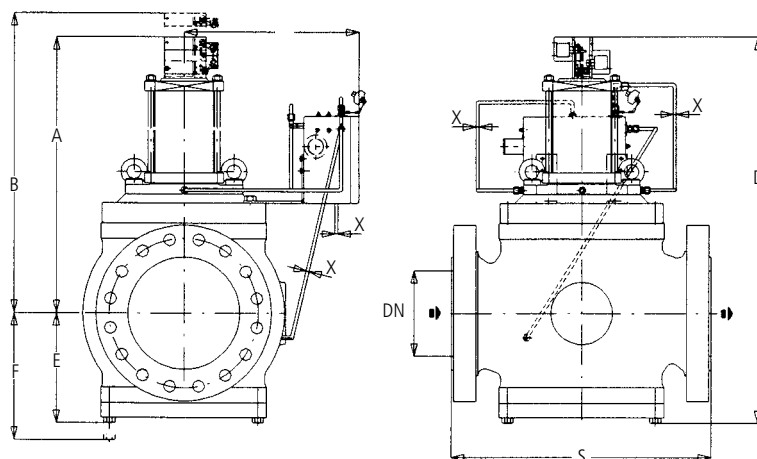
## HBC 975

To ensure proper operation and declared performance, the followings should be observed when installing the HBC 975 slam shut valves:

- a) filtering: the gas flowing in the piping must be adequately filtered. It is also recommended that the piping upstream from the regulator is clean and avoids impurities;
- b) sensing line: for correct operation, the sensing line nipple must be appropriately positioned. Between the valve and the downstream take-off there must be a length of straight pipe  $\geq$  four times the diameter of the outlet pipe; beyond the take-off, there must be a further length of pipe  $\geq$  twice the same diameter.

### HBC 975 Slam shut valves




**Overall dimensions in mm**

Size (mm)	100	150	200	250
Inches	4"	6"	8"	10"
<b>S - Ansi 300</b>	368	473	568	708
<b>S - Ansi 600</b>	394	508	609	752
<b>A</b>	518	645	687	796
<b>B</b>	650	835	900	1060
<b>C</b>	358	410	445	510
<b>D</b>	700	870	952	1136
<b>E</b>	180	225	265	340
<b>F</b>	205	275	320	440
<b>X</b>				

Face to face dimensions S according to IEC 534-3 and EN 334

**Weights in Kgf**

<b>S - Ansi 300</b>	120	239	349	650
<b>S - Ansi 600</b>	131	256	375	700



Reducing Stations



Gas metering



Pressure regulators



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The data are not binding. We reserve the right to make eventual changes without prior notice.

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