

HBC 975

The **HBC 975** is a safety device, also called slam shut valve, suitable to quickly interrupt the gas flow when the pressure reaches a calibration set value. This device is mainly used in high-pressure transmission systems and in medium pressure gas distribution networks.



- | | | | | | |
|---|------------------------------------|---|---------------------------|---|-------------------|
|  | Gas compression / booster stations |  | Gas reverse-flow |  | Power generation |
|  | Gas liquefaction |  | LNG marine transportation |  | Heavy industry |
|  | Gas storage |  | Regasification |  | District stations |
|  | City gates | | | | |

Features	Values	
Design pressure*	up to 10.3 MPa up to 1500 psig	
Ambient temperature*	Standard version from -20 °C to +70 °C from -4 °F to +158 °F	Artic version from -46 °C to +65 °C from -50 °F to +150 °F
Inlet gas temperature range*	Standard version from -10 °C to +70 °C from 14 °F to +158 °F	Artic version from -20 °C to +60 °C from -4 °F to +140 °F
Available Accessories	Limit switch, remote tripping	
Maximum inlet pressure	10.2 MPa (for CE marked product it is limited to 10.0 MPa) 1480 psig (for CE marked product it is limited to 1450 psig)	
Accuracy class	up to 2.5% gauge for OPSO (depending on working conditions) up to 2.5% gauge for UPSO (depending on working conditions)	
Over pressure setting range (OPSO)	from 0.02 MPa to 10.2 MPa from 2.9 psig to 1480 psig	
Under pressure setting range (UPSO)	from 0.02 MPa to 10.2 MPa from 2.9 psig to 1480 psig	
Nominal dimensions DN	DN 100 / 4"; DN 150 / 6"; DN 200 / 8"; DN 250 / 10"; DN 300 / 12"	
Connections*	ANSI 150, 300 and 600 according to ASME B16.5 and PN 16 according to EN 1092	
End to end dimensions	according to EN 334, EN 14382, ASME B16.10	

(*) **REMARK: Different functional features and/or extended temperature ranges available on request. Stated temperature ranges are the maximum for which the equipment's full performance, including accuracy, are fulfilled. Standard product may have a narrower range.**

Table 1 Features

Materials and Approvals

Part	Material
Body	Cast steel ASTM A 352 LCC for classes ANSI 300 and 600; Cast steel ASTM A 216 WCB for classes ANSI 150 and PN 16
Stem	AISI 416 stainless steel
Plug	ASTM A 350 LF2 Nikel coated
Valve seat	Carbon steel + vulcanized rubber
Sealing ring	Nitrile rubber
Compression fittings	Zinc-plated carbon steel according to DIN 2353; Stainless steel on request

NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

Table 2 Materials

The **HBC 975** slam shut valve is designed according to the European standard EN 14382. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 14382



PED-CE

HBC 975 competitive advantages

 OPSO	Over Pressure Shut-Off		Compact dimensions
 UPSO	Under Pressure Shut-Off		Easy maintenance
	Internal by-pass		Remote tripping option
	Push button for tripping test		Limit switch option
	Top Entry		Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request