

# SBC 782 H

**SBC 782 H** 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 suitable for **100% hydrogen applications**. It is mainly used in high-pressure transmission systems and in medium pressure gas distribution networks.



Gas compression /  
booster stations



H<sub>2</sub> liquefaction plants



H<sub>2</sub> storage



City gates



Gas reverse-flow



Heavy industry



Regasification plants



Power generation



District stations



Medium/small  
industry



Commercial users

Features	Values
Design pressure* (PS <sup>1</sup> )	up to 10.2 MPa up to 102 barg
Ambient temperature* (TS <sup>1</sup> )	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Available accessories	Limit switch, remote tripping
Accuracy class (AG <sup>1</sup> )	up to 2.5 for OPSO (depending on working conditions) up to 2.5 for UPSO (depending on working conditions)
Over pressure setting range (OPSO)	from 2 KPa to 9 MPa from 20 mbarg to 90 barg
Under pressure setting range (UPSO)	from 1 KPa to 9 MPa from 10 mbarg to 90 barg
Nominal size (DN <sup>1</sup> )	DN 25   1"; DN 50   2"; DN 80   3"; DN 100   4"; DN 150   6"; DN 200   8"; DN 250   10"
Connections	Class 150/300/600 RF / RTJ according to ASME B 16.5 or PN 16/25/40 according to EN 1092-1
End to end dimensions	according to EN 334, EN 14382

(<sup>1</sup>) according to EN14382 standard

(\*) NOTE: Different functional features and/or extended temperature ranges may be available on request. Stated inlet gas temperature range is the maximum for which the equipment's full performance, including accuracy is guaranteed. Product may have a different pressure or temperature ranges according to the version and/or installed accessories.

**Table 1** Features

## Materials and Approvals

Part	Material
Body	Cast steel ASTM A 352 LCC for class ANSI 600 and 300 (with specific chemical composition requirements) Cast steel ASTM A 216 WCB for class ANSI 150 and PN 16 (with specific chemical composition requirements)
Stem	Austenitic stainless steel
Plug	Stainless steel
Valve seat	Stainless steel
Sealing ring	Nitrile rubber
Compression fittings	Austenitic stainless steel

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

**Table 2** Materials

**SBC 782 H** 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

## SBC 782 H competitive advantages



Over Pressure Shut-Off



Under Pressure Shut-Off



Internal by-pass



Push button for tripping test



Top Entry



Compact dimensions



Easy maintenance



Remote tripping option



Limit switch option



Suitable for 100% Hydrogen