

SBC 187 H

SBC 187 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** and it is mainly used in high-pressure transmission systems and in medium pressure gas distribution networks.



Compression /
booster stations



H₂ storage



City gates



H₂ liquefaction plants



Gas reverse-flow



Power generation



Heavy industry



Regasification plants



District stations



Medium/small
industry



Commercial users

Features	Values
Design pressure* (PS ¹)	up to 25 MPa up to 250 barg
Ambient temperature* (TS ¹)	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 ¹)	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 0.2 MPa to 9 MPa from 2 barg to 90 barg
Under pressure setting range (UPSO)	from 0.02 MPa to 9 MPa from 0.2 barg to 90 barg
Nominal size (DN ¹)	DN 25 1";
Connections	ANSI 1500 according to ASME B16.5
End to end dimensions	according to EN 334, EN 14382

(¹) 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 (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

The **SBC 187 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 187 H competitive advantages



OPSO Over Pressure Shut-Off



UPSO 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