Pietro Fiorentini

SCN

The **SCN** 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 medium and low pressure gas distribution networks.



- LNG marine transportation
- Gas reverse-flow
- Regasification
- Power generation
- Heavy industry
- Gas engines
- District stations
- Medium/small industry
- Commercial users

Features	Values
Design pressure*	up to 1.6 MPa up to 232 psig
Ambient temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature range*	from -20 °C to +60 °C from -4 °F to +140 °F
Available Accessories	Limit switch, remote tripping
Accuracy class AG	up to 2.5 for OPSO (depending on working conditions) up to 5 for UPSO (depending on working conditions)
Over pressure setting range (OPSO)	from 2.5 kPa to 0.5 MPa from 10”w.c. to 72 psig
Under pressure setting range (UPSO)	from 1 KPa to 0.3 MPa from 4”w.c. to 44 psig
Nominal dimensions DN	DN 25 | 1”; DN 40 | 1-1/2”; DN 50 | 2”; DN 65 | 2-1/2”; DN 80 | 3”; DN 100 | 4”; DN 150 | 6”; DN 200 | 8”;
Connections*	Class 150 RF according to ASME B16.5 and PN16 according to ISO 7005
End to end dimensions	EN 14382

(*) Note: 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

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Materials and Approvals

Part	Material
Body	Cast steel ASTM A 216 WCB (all DN). Spheroidal ductile iron GS 400 – 18 ISO 1083 DN 150 (6") included.
Stem guide	AISI 416
Plug	AISI 416 + TN028
Valve seat	AISI 420
Sealing ring	Nitrile rubber
Compression fittings	According to DIN 2353 in zinc-plated carbon steel. 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 **SCN** 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

SCN competitive advantages

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

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