Pietro Fiorentini

Dilock

The **Dilock** 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. The Dilock is **Hydrogen Ready** for NG-H2 blending.

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

Features	Values
Design pressure* (PS[1])	up to 2.0 MPa up to 20 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 5 for OPSO (depending on working conditions) up to 10 for UPSO (depending on working conditions)
Over pressure setting range (OPSO)	from 3 kPa to 0.55 MPa from 30 mbarg to 5.5 barg
Under pressure setting range (UPSO)	from 0.6 kPa to 0.35 MPa from 6 mbarg to 3.5 barg
Nominal size (DN[1])	• **Dilock 108:** DN 25 | 1”; DN 40 | 1”1/2; DN 50 | 2” • **Dilock 507-512:** DN 25x40 | 1”x1”1/2; DN 25x25 | 1”x1”
Connections	• **Dilock 108:** Class 150 RF according to ASME B16.5; PN16 according to ISO 7005; Threated Rp according to EN10226 or NPT according to ASME B1.20.1 (only for DN 50 | 2”) • **Dilock 507-512:** Threated Rp according to EN10226 or NPT according to ASME B1.20.1
End to end dimensions	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

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Materials and Approvals

Part	Material
Body	• **Model 108:** Steel casting ASTM A 216 gr WCB or Cast iron GS - 400 - 18 ISO 1083 • **Model 507-512:** Cast iron GS400-18 UNI EN 1083 Aluminium EN AC 43300 UNI EN 1706
Stem	AISI 303 stainless steel
Seals	Nitrile rubber
NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.	

Table 2 Materials

The **Dilock** 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 class VI according to ANSI/FCI 70-2 and equivalent to class VIII according to ANSI/FCI 70-3.

EN 14382 PED-CE

Dilock competitive advantages

- Overpressure Shut-Off
- Underpressure Shut-Off
- Internal by-pass
- Push button for tripping test (if available)
- 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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