

# 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 engines



Medium / small industry



Gas reverse-flow



Regasification



Commercial users



Power generation



District stations



Residential users



Heavy industry

Features	Values
Design pressure* (PS <sup>1</sup> )	up to 2.0 MPa up to 290 psig
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 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 12" w.c. to 79.7 psig
Under pressure setting range (UPSO)	from 0.6 kPa to 0.35 MPa from 0.09" w.c. to 50.7 psig
Nominal size (DN <sup>1</sup> )	<ul style="list-style-type: none"> <li>• <b>Dilock 108:</b> DN 25   1"; DN 40   1-1/2"; DN 50   2"</li> <li>• <b>Dilock 507-512:</b> DN 25x40   1"x1"1/2; DN 25x25   1"x1"</li> </ul>
Connections	<ul style="list-style-type: none"> <li>• <b>Dilock 108:</b> 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")</li> <li>• <b>Dilock 507-512:</b> Threated Rp according to EN10226 or NPT according to ASME B1.20.1</li> </ul>
End to end dimensions	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	<ul style="list-style-type: none"> <li>• <b>Model 108:</b> Steel casting ASTM A 216 gr WCB or Cast iron GS - 400 - 18 ISO 1083</li> <li>• <b>Model 507-512:</b> Cast iron GS400-18 UNI EN 1083 Aluminum EN AC 43300 UNI EN 1706</li> </ul>
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