

# Norflux

The **Norflux** is a **direct-operated** regulator controlled by a diaphragm and setting spring which controls the valve. It is mainly used for high-pressure transmission systems and for medium pressure natural gas distribution networks with previously filtered non-corrosive gases. According to the European Standard, it is classified as **Fail Open**. The Norflux is **Hydrogen Ready** for NG-H<sub>2</sub> blending.



City gates



District stations



Features	Values
Design pressure* (PS <sup>1</sup> / DP <sup>2</sup> )	up to 10.0 MPa up to 1450 psig
Ambient temperature* (TS <sup>1</sup> )	from -40 °C to +60 °C from -40 °F to +140 °F
Inlet gas temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure (MAOP / p <sub>umax</sub> <sup>1</sup> )	from 0.14 to 10 MPa from 20 to 1450 psig
Range of downstream pressure (Wd <sup>1</sup> )	from 0.07 to 0.45 MPa from 10 to 65 psig
Available accessories	incorporated slam-shut
Minimum operating differential pressure (Δp <sub>min</sub> <sup>1</sup> )	48 kPa 7 psig
Accuracy class (AC <sup>1</sup> )	up to 10 (depending on working conditions)
Lock-up pressure class (SG <sup>1</sup> )	up to 10 (depending on working conditions)
Nominal size (DN <sup>1,2</sup> )	DN 50   2"
Orifice Sizes	2"
Connections	Class 300/600 RF / RTJ according to ASME B 16.5

(<sup>1</sup>) according to EN334 standard  
 (<sup>2</sup>) according to ISO 23555-1 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 A352 LCC
Cover	ASTM A 350 LF2 steel
Seat	Stainless steel
Diaphragm	Vulcanized rubber
Sealing ring	Nitrile rubber
Compression fittings	Zinc-plated carbon steel

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

**Table 2** Materials

The **Norflux** regulator is designed according to European standard EN 334.  
 The regulator reacts in opening (Fail Open) according to EN 334.  
 Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.



EN 334

## Norflux competitive advantages



Compact and simple design



Operates with high differential pressure



Spring loaded regulator for high pressure



Built-in accessories



Easy maintenance



Biomethane compatible and  
20% Hydrogen blending compatible.  
Higher blending available on request