Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

The Safe Choice

LKC-2 Non-return Valve



Concept
Non-return valve LKC-2 is designed for use in stainless steel pipe installations to prevent reverse flow.

Working principle
LKC-2 opens when the pressure below the valve plug exceeds the pressure above the plug and the spring force.
The valve closes when pressure equalization has been achieved. A higher counter pressure will press the valve plug against the seat.

Standard Design
The valve body is in two parts, assembled by means of a clamp ring and hygienically sealed with a special seal ring. A guide disc and four legs guide the spring loaded valve plug with an O-ring seal.

The valve is available with welding ends for tubes according to ISO and DIN 11850.

TECHNICAL DATA

Temperature
Max. temperature: . . . . . 140°C (EPDM)
Min. temperature: . . . . . -10°C

Pressure
Max. product pressure: . . . . . 1000 kPa (10 bar)

Mechanical
Required differential pressure for opening the valve when fitted in a vertical pipe, as shown in fig. 3, is approx. 6 kPa (0.06 bar)

Options
Product wetted seal rings of Nitrile (NBR) or Fluorinated rubber (FPM).

PHYSICAL DATA

Materials
Product wetted steel parts: . . . . . 1.4301 (304) / 1.4404 (316L)
External surface finish . . . . . Semi-bright (blasted)
Internal surface finish . . . . . Bright (polished), Ra < 0.8 µm
Product wetted seals: . . . . . EPDM rubber

Pressure drop/capacity diagram

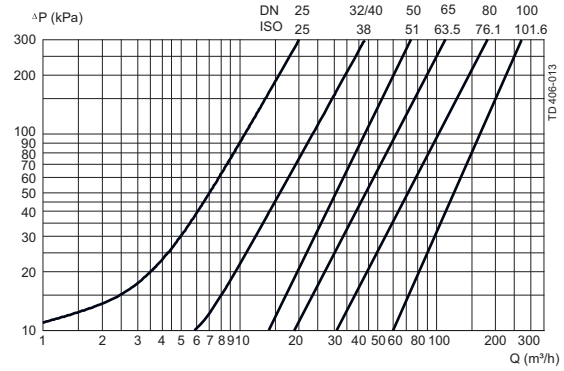


Fig. 1. **Note!**
For the diagram the following applies:
Medium: Water (20°C).
Measurement: In accordance with VDI 2173.

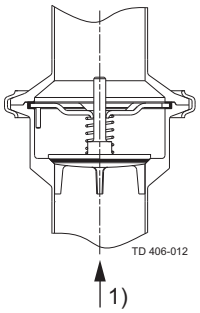


Fig. 2 = Flow direction.
Shows the optimal built-in situation. Other positions possible are e.g. horizontal. The four guide legs of the valve cone ensures good alignment.
90° rotation.

Dimensions (mm)

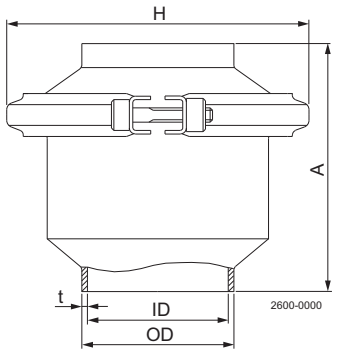


Table 1. Dimensions.

	ISO						DIN						
Size	25	38	51	63.5	76.1	101.6	25	32	40	50	65	80	100
A	62.5	75.0	87.5	95.0	115	155	62.5	75.0	75.0	87.5	95.0	115	155
OD	25.4	38.4	51.4	63.9	76.4	102	30.0	36.0	42.0	54.0	70.0	85.0	104
ID	22.5	35.5	48.5	60.5	72.0	97.6	26.0	32.0	38.0	50.0	66.0	81.0	100
t	1.45	1.45	1.45	1.7	2.2	2.2	2	2	2	2	2	2	2
H	72.0	85.5	99	127	138	164	72.0	85.5	85.5	99	127	138	164
Weight (kg)	0.5	0.7	1.0	1.7	2.4	4.3	0.5	0.7	0.7	1.0	1.7	2.4	4.3

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Contact details for all countries
are continually updated on our website.
Please visit www.alfalaval.com to
access the information direct.

Gillain & Co NV | Boomsesteenweg 85, B-2630 Aartselaar | Tel. +32 3 870 60 80, Fax +32 3 870 60 89 | advice@gillain.com | www.gillain.com