

GAS FILTERS

HUF SERIES

SPECIFICATION SHEET



APPLICATION

To filter fuel gas and combustion air supply to all gas consuming appliances.

Applicable types of fuel:

- manufactured gases (town gas)
- natural gases (group H - methane)
- liquefied petroleum gas (LPG)
- non-aggressive gases
- air

SPECIFICATIONS

Product range

Model HUF (pipe sizes ½", up to and including DN150)

Dimensions

See dimensional drawings and table on page 2

Pipe size

Threaded: ½" up to and including 2", inlet and outlet internal pipe thread according to ISO 7-1.

Flanged: DN40 up to and including DN150 inlet and outlet flanged connections according to ISO 7005 - PN16

Maximum inlet pressure

Threaded versions: 10 bar

Flanged versions: 10 bar (DN150: 2 bar)

Ambient temperature range

Between: -15....80 °C

Connections

Threaded version: Rp ¼" connections for inlet or outlet pressure taps

Flanged version: Rp ¼" connections for inlet or outlet pressure taps

Flow capacity

See capacity curves on page 5.

Torsion and bending stress

Pipe connections: group 2, according to EN13611.

Seals and gaskets

Hydrocarbon resistant NBR rubber type

Body material

Aluminium alloy die cast

Filter

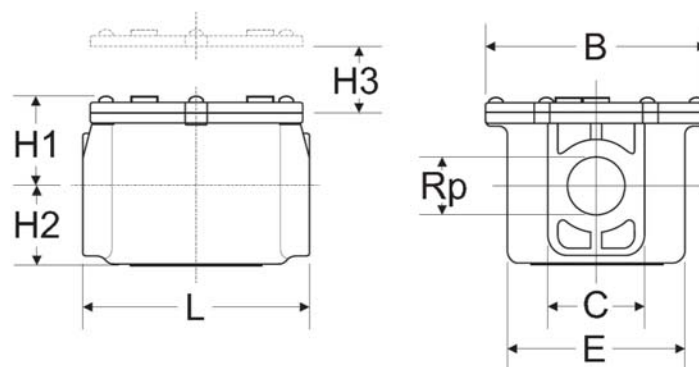
Self-extinguishing synthetic fibre for gases, in accordance with to EN437. Capacity: 50 µm. Galvanized electro welded mesh.

Approvals

The HUF Series gas filters comply with the requirements of the PED Directive (Pressure Exposed Devices) 97/23/EC and are approved to carry the CE 0045 marking.

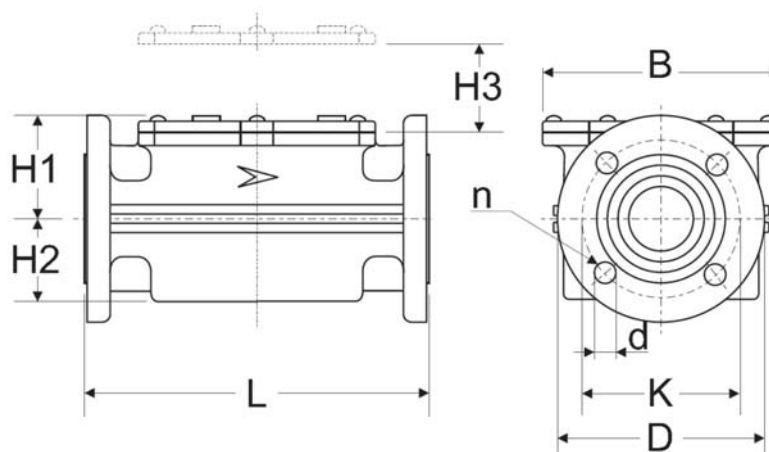
OVERALL DIMENSIONS HUF SERIES

a. (THREADED CONNECTIONS)



Model	Connection (Rp)	Max. Operating Pressure	Overall Dimensions (mm)							Weight (kg)
			L	B	H1	H2	H3	E	C	
	(ISO 7-1)	(mbar)								
HUF015B160	1/2"	10	114	124	56	48	100	88	48	0.82
HUF020B160	3/4"	10	114	124	56	48	100	88	48	0.81
HUF025B160	1"	10	114	124	56	48	100	88	48	0.80
HUF032B160	1 1/4"	10	150	154	62	56	110	123	68	1.36
HUF040B160	1 1/2"	10	150	154	62	56	110	123	68	1.28
HUF050B160	2"	10	182	187	80	65	140	150	80	2.17

b. (FLANGED CONNECTIONS)



Model	Connection	Max. Operating Pressure	Overall Dimensions (mm)									Weight (kg)
			L	B	H1	H2	H3	D	K	d	n	
	(PN16)	(mbar)										
HUF040B360	DN40	10	269	154	62	56	110	150	110	18	4	2.98
HUF050B360	DN40	10	298	187	80	65	140	165	125	18	4	4.23
HUF065B360	DN65	10	354	247	117	111	220	185	145	18	4	6.90
HUF080B360	DN80	10	354	247	117	111	220	200	160	18	8	7.50
HUF100B360	DN100	10	354	247	117	111	220	210	180	18	8	10.75
HUF150B360	DN150	10	474	380	180	145	300	285	240	23	8	22.50

CAPACITY CURVES

Important

When reading the diagram you must apply operating cubic meters. The pressure loss Δp then read must be multiplied with the absolute pressure in bar (excess pressure +1), this is to take the density fluctuations into

consideration. This pressure loss must not exceed 10 mbar.

Calculation example (see diagram on page 4)

Excess gas pressure:

4 bar

Operating flow rate:

150m³/h natural gas

Filter chosen from the diagram:

HUF DN65 (flanged version)

Pressure loss read:

1,7 mbar

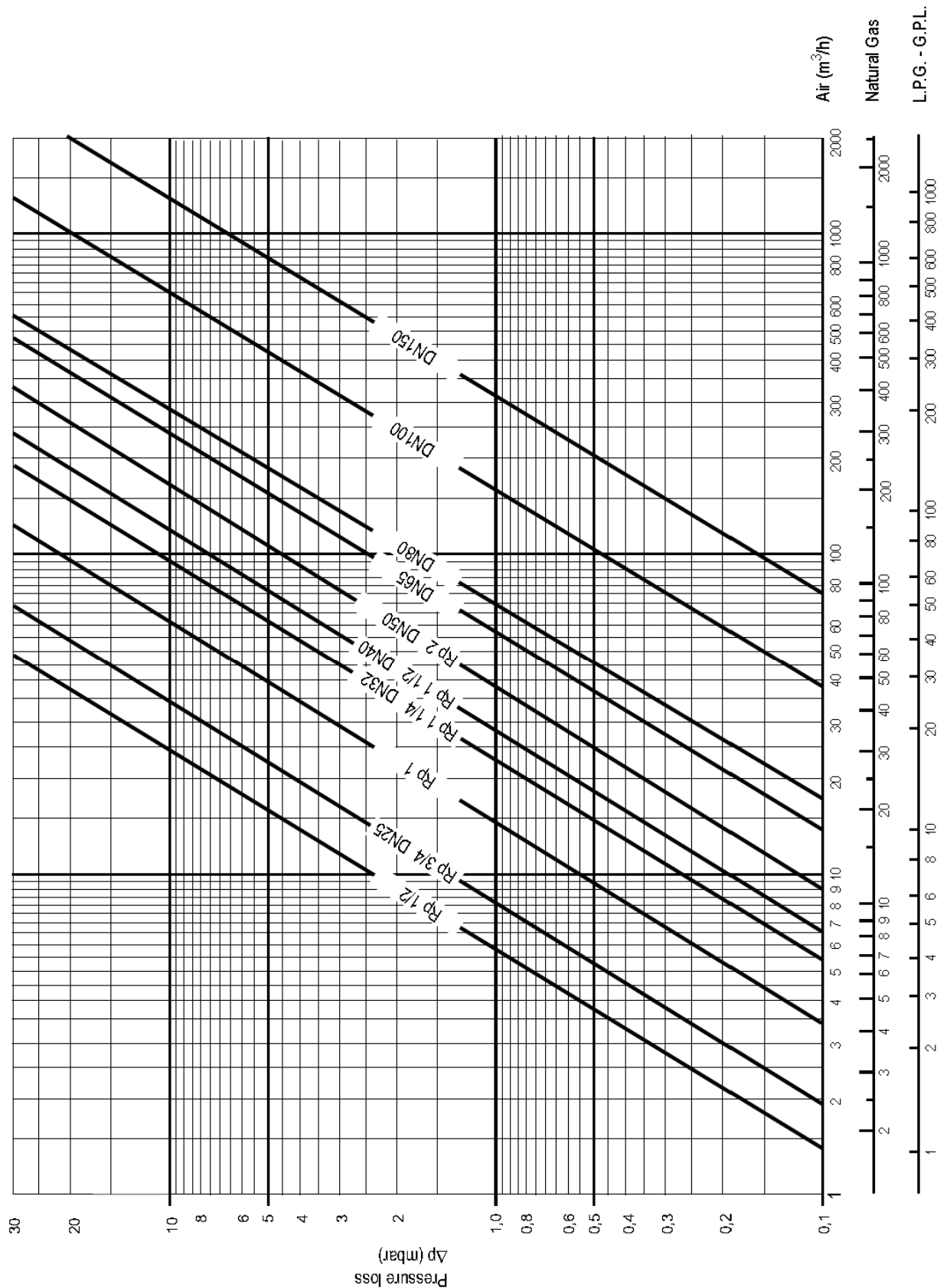
Real pressure loss:

$\Delta p = 5(\text{excess pressure} + 1) \times 1,7 \text{ mbar} = 8,5 \text{ mbar}$

The real pressure loss is less than 10 mbar, therefore, the correct filter size has been chosen.

CAPACITY CURVES OF HUF SERIES

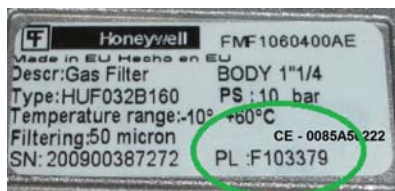
(capacity m³/h natural gas at 1013 mbar, 15°C)



FILTER CARTRIDGES

IMPORTANT

To select the correct part number of the filter cartridge, checking the production date code that is printed on the product label is crucial.



Location of production date code on the label

The date code has the following format: F1ydddy, where yy is the year and ddd the day.

Example: F103379 (see picture) indicates a HUF gas filter (F1) and it was produced on the 337th day in 2009.

Model and date codes	Filter Cartridge
HUF015Bx/20Bx/25B1 (current)	KTFL1-1200A
HUF025B1 (before F102405) and for HUF025B3 (current)	KTFL1-1300A
HUF32/40/50Bx (current)	KTFL1-1800A
HUF050Bx (before F103507)	KTFL1-1400A
HUF065Bx (before F101778) and for HUF080Bx (before F101358)	KTFL1-1500A
HUF065Bx (between F101788 and F101319) and for HUF080Bx (between F101368 and F1011319)	KTFL1-1900A
HUF100Bx (between F102608 and F101329)	KTFL1-1900A
HUF100Bx (before F102608)	KTFL1-1600A
HUF065Bx/080Bx/100Bx (current)	KTFL1-2000A
HUF150Bx (current)	KTFL1-1700A