GAS PRESSURE REGULATORS AND FILTERS

MERTIK MAXITROL®

www.mertikmaxitrol.com

⚠ WARNING

Service and installation must be performed by a trained/experienced service technician.
All products used with combustible gas **must** be installed and used **strictly** in accordance with the instructions of the Original Equipment Manufacturer (OEM) and with all applicable government codes and regulations, e.g. plumbing, mechanical, and electrical codes and practices. Maxitrol products should be installed and operated in accordance with Maxitrol Safety Warning Instructions.

Maxitrol is NOT responsible for any errors or omissions in reliance by anyone of any information set forth in this catalog without additional reference to local requirements and applicable ordinances or codes.

The products in this catalogue comply with EU legislation. The technical specifications refer to the CE certification. Additional international approvals and certifications are available upon request.

CE

HF2000 SERIES

GAS & AIR FILTERS

Gas and air filters protect downstream controls (regulators, automatic shut-off valves) from particulate contamination. Recommended for use upstream of fittings, regulators, and controls. Applications for the residential, commercial cooking, process heating, and industrial burner industries.

Specifications

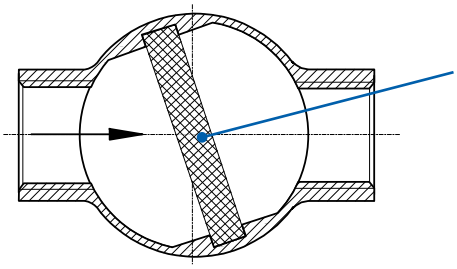
- **Pipe Sizes:**
  - Rp ½ to Rp 2 threaded connections according to EN 10226-1 / ISO 7-1
  - DN25 to DN150 flanged connections according to ISO 7005-2, PN 16
- **Housing Material:** Aluminum
- **Internal Components Material:** Aluminium, elastomer, polypropylene fleece, galvanized wire mesh
- **Filter Insert:** Particulate contamination that equals or exceeds 50 µm
- **Mounting:** Suitable for multi-positional mounting, preferably with lid facing down or to the side to facilitate removal of debris during maintenance.
- **Construction and Design/Certifications:** Function according to DIN 3386, Gas Appliances Regulation 2016/426/EU and Pressure Equipment Directive 97/23/EEC
- **Gas Types:** Gas family 1, 2, and 3 according to EN 437
- **Maximum Inlet Pressure:** 100 kPa, 400 kPa, 600 kPa
- **Ambient Temperature Range:** -20 to 80 °C
- **Pressure Tap Connector:** Optional, inlet and/or outlet side
- **Storage and Transport Temperature:** -50 to 80 °C

Gas Filter Service Kit

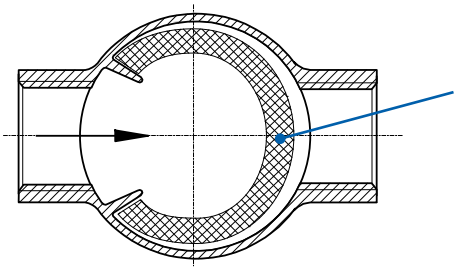
(incl. Insert, Gasket, and Screws)

Model	Service Kit Number	Min. Order Quantity
GF40M-44...	KIT-GF40M	10
GF60M-66...	KIT-GF60M	
GF60M-88...		
GF80M-1010...	KIT-GF80M	
GF80M-1212...		
GF80M-1616...		
GF25MF-88...	KIT-GF60M	
HF2000F80...	KIT-GF80MF	5
HF2000F100...	KIT-GF100MF	3
GF125MF-4040...	KIT-GF125MF	2
GF150MF-4848...	KIT-GF150MF	

Filter Inserts



Filter Insert for Rp ½, ¾, 1 and DN25



Filter Insert for Rp 1 ¼, 1 ½, 2 and DN40 to DN150

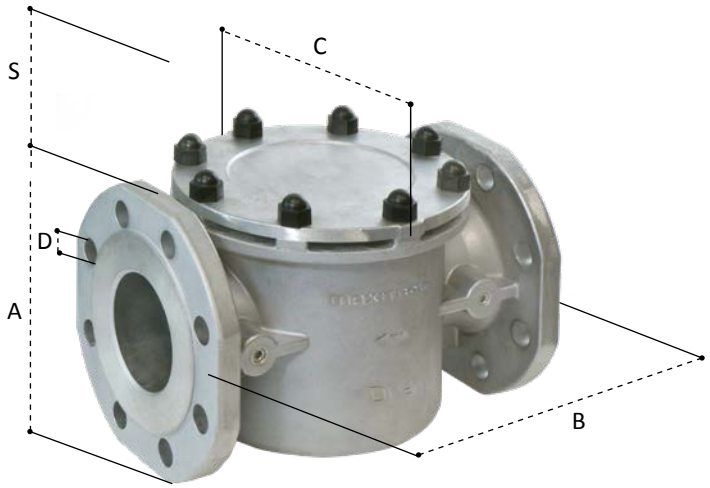
Dimensions

Model	Connection	Pipe Size	Space for filter mat replacement S	Dimensions			
				A	B	C	D (flanged)
GF40M-44...	Thread	Rp ½	60 mm	53 mm	69 mm	58 mm	-
GF60M-66...		Rp ¾	100 mm	94 mm	110 mm	94 mm	-
GF60M-88...		Rp 1	100 mm	94 mm	110 mm	94 mm	-
GF80M-1010...		Rp 1 ¼	150 mm	126 mm	157 mm	160 mm	-
GF80M-1212...		Rp 1 ½	150 mm	126 mm	157 mm	160 mm	-
GF80M-1616...		Rp 2	150 mm	126 mm	157 mm	160 mm	-
GF25MF-88...	Flange	DN25	100 mm	115 mm	165 mm	115 mm	14 mm
HF2000F80...		DN80	200 mm	204 mm	284 mm	215 mm	18 mm
HF2000F100...		DN100	220 mm	225 mm	339 mm	270 mm	18 mm
GF125MF-4040...		DN125	270 mm	268 mm	400 mm	323 mm	18 mm
GF150MF-4848...		DN150	310 mm	308 mm	448 mm	363 mm	22 mm

▲ *GF40M...*

▲ *GF60M...*

▲ *GF80M...*



▲ *HF2000F80..., HF2000F100..., GF125MF..., GF150MF...*

NOTE: *Dimensions are maximums and to be used only as an aid in designing clearance for the filter. Actual production dimensions may vary somewhat from those shown.*

GF1000 SERIES

GAS & AIR FILTERS

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Specifications

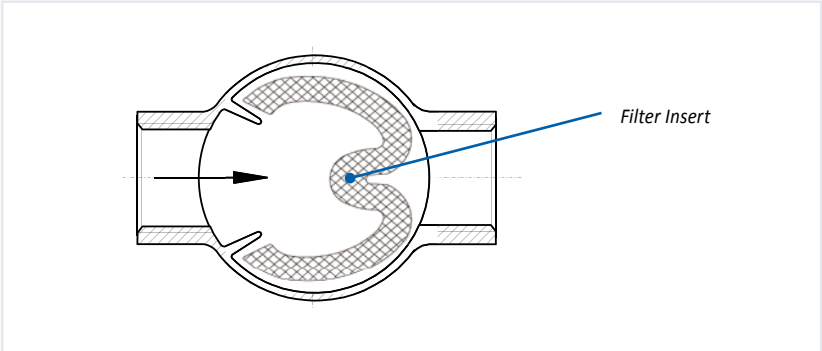
- **Pipe Sizes:** DN40 to DN65 flanged connections according to ISO 7005-2, PN 16
- **Housing Material:** Aluminum
- **Internal Components Material:** Aluminium, elastomer, polypropylene fleece, galvanized wire mesh
- **Filter Insert:** Particulate contamination that equals or exceeds 50 µm
- **Mounting:** Suitable for multi-positional mounting, preferably with lid facing down or to the side to facilitate removal of debris during maintenance.
- **Construction and Design/Certifications:** Function according to DIN 3386, Gas Appliances Regulation 2016/426/EU and Pressure Equipment Directive 97/23/EEC
- **Gas Types:** Gas family 1, 2, and 3 according to EN 437
- **Pressure Tap Connector:** Outlet standard, inlet optional
- **Maximum Inlet Pressure:** 100 kPa, 400 kPa, 600 kPa
- **Ambient Temperature Range:** -20 to 80 °C
- **Storage and Transport Temperature:** -50 to 80 °C

Gas Filter Service Kit

(incl. Insert, Gasket, and Screws)

Model	Service Kit Number	Min. Order Quantity
GF1000MF40...	KIT-GF1000MF	Upon request
GF1000MF50...		
GF1000MF65...		

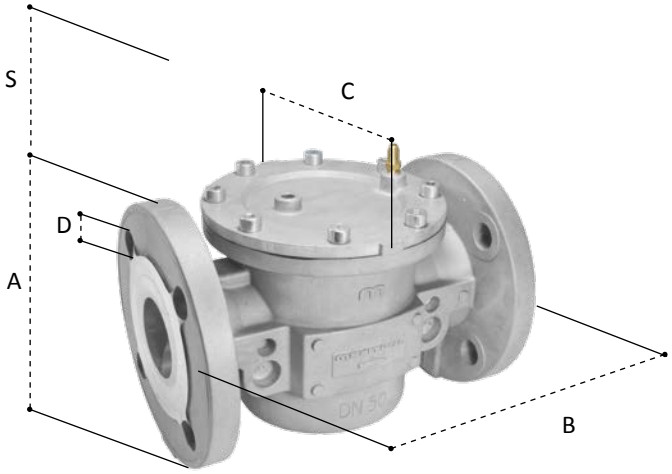
Filter Insert



Dimensions

Model	Connection	Pipe Size	Space for filter mat replacement S	Dimensions			
				A	B	C	D
GF1000MF40...	Flange	DN40	150 mm	159 mm	230 mm	160 mm	18 mm
GF1000MF50...		DN50	150 mm	168 mm	230 mm	160 mm	18 mm
GF1000MF65...		DN65	150 mm	185 mm	230 mm	160 mm	18 mm

▲ *GF1000MF40*



▲ *GF1000MF50*

▲ *GF1000MF65*

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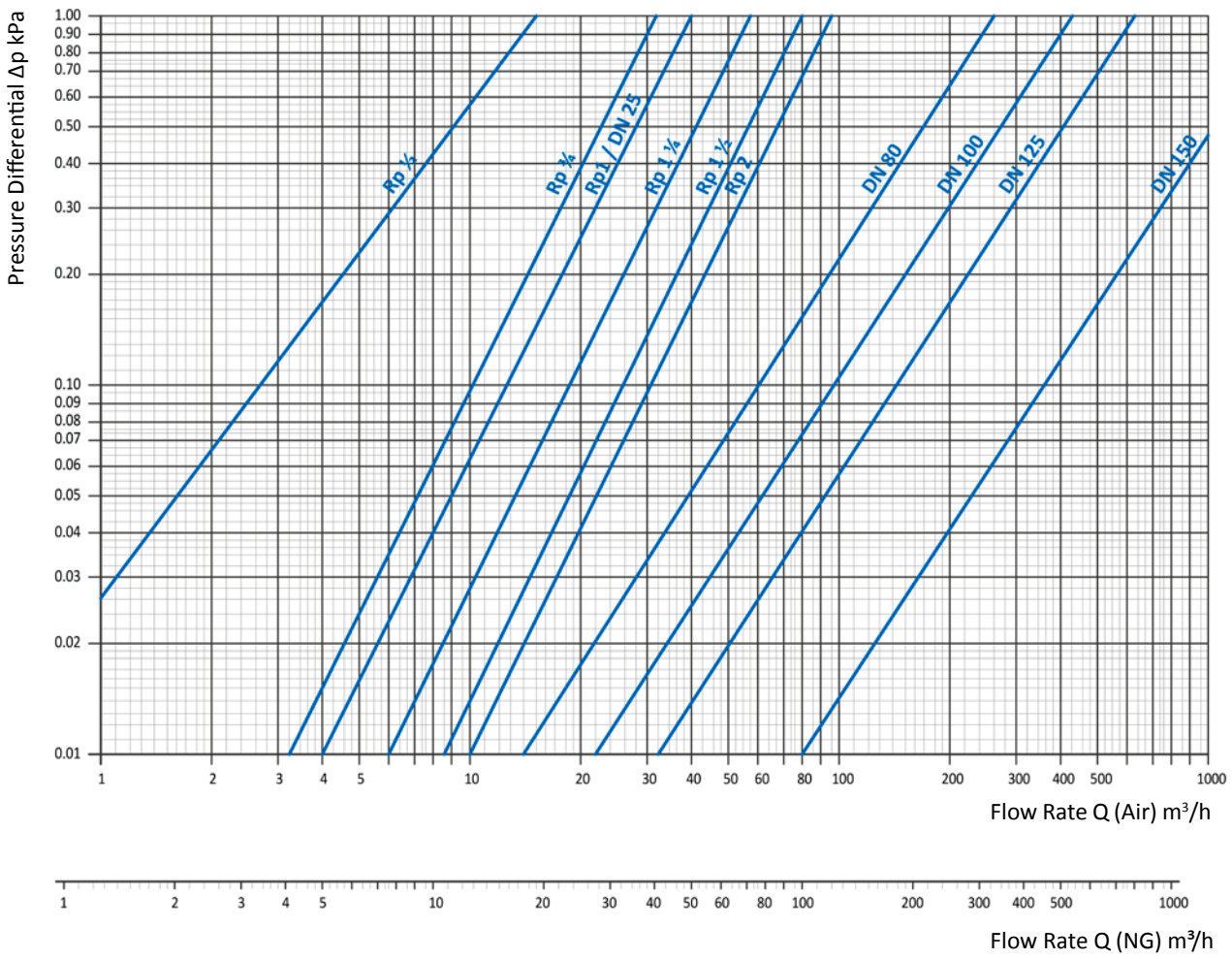
FLOW CHARTS GAS & AIR FILTERS

HF2000 Series



LEGEND FOR FLOW CHARTS

Δp = Pressure Differential in kPa
Q = Flow Rate in m^3/h
dv = Volumetric Rate of Flow
f = Friction Factor
ρ = Density

Pressure Units:	1 kPa = 10 mbar = 10 hPa
Air:	dv = 1.00 f = 1.00
Natural Gas (NG):	dv = 0.64 f = 1.24
Liquid petroleum gas (LPG):	dv = 1.56 f = 0.80

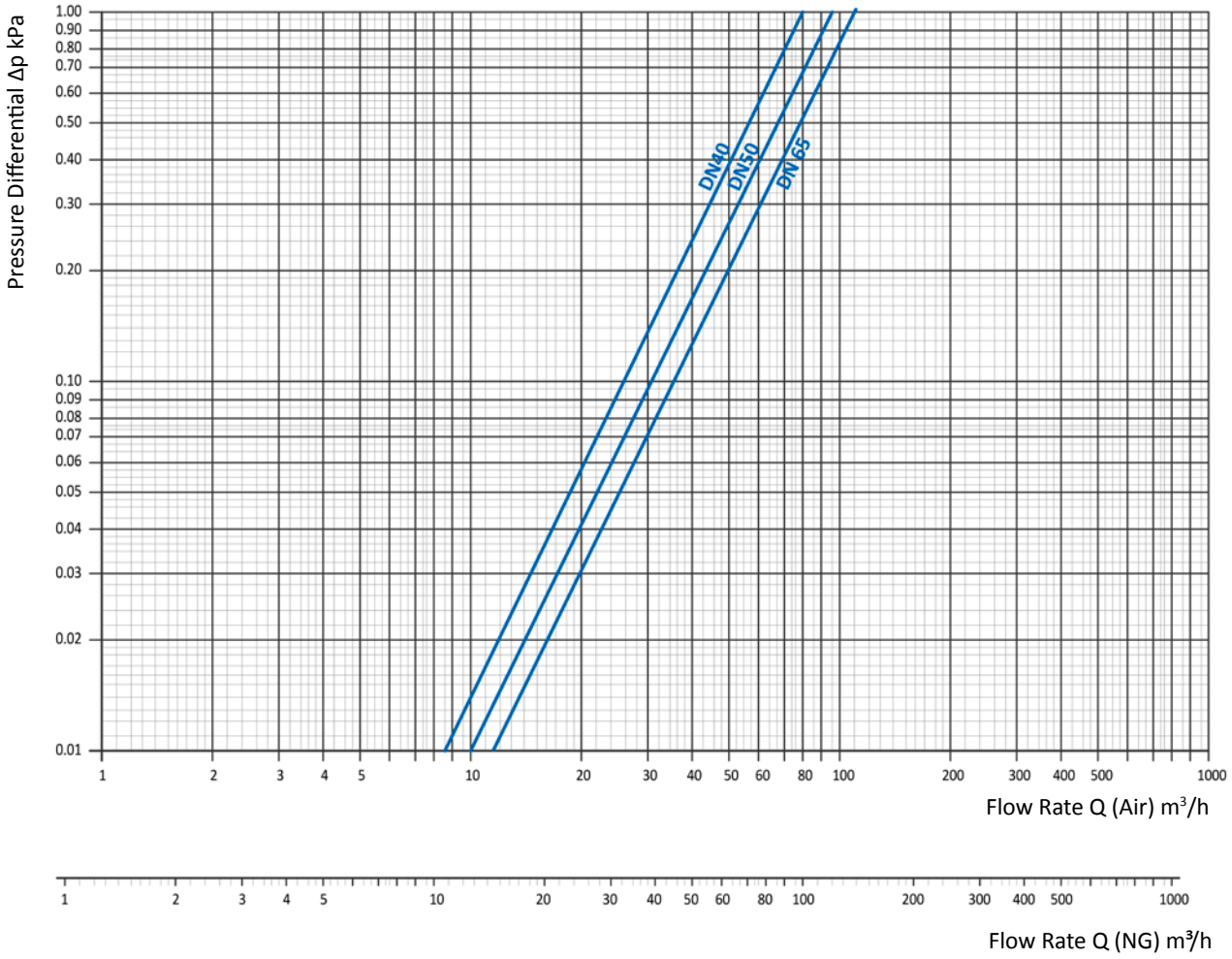
$$dv = \frac{\rho_{gas}}{\rho_{air}}$$

$$f = \sqrt{\frac{\rho_{air}}{\rho_{gas}}}$$

$$\dot{V}_{gas} = f \cdot \dot{V}_{air}$$

NOTE: *The given flow rates are approximate values. Actual flow rates may vary somewhat from those shown.*

GF1000 Series



NOTE: *The given flow rates are approximate values. Actual flow rates may vary somewhat from those shown.*

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