

GAS PRESSURE REGULATOR AND FILTER CATALOG

11th Edition

MAXITROL®

www.maxitrol.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. All 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, e.g., CSA and UL, are available upon request.



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 ISO 7-1/EN10226-1
 - DN25 to DN150 flanged connections according to ISO 7005-2, PN 16
- **Housing Material:** Aluminum
- **Internal Components Material:** Aluminium, elastomer, galvanized wire mesh
- **Filter Insert:** Filter mat material will not allow particle infiltration equal or exceeding 50 µm (0.05 mm)
- **Filter Mat Material:** Polypropylene fleece
- **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 (EU) 2016/426 and Pressure Equipment Directive 2014/68/EU
- **Fuel Gases:** Suitable for gases of EN 437
- **Maximum Inlet Pressure:**
 - Threaded models: 100 kPa, 400 kPa
 - Flanged models: 100 kPa, 400 kPa, 600 kPa
- **Ambient Temperature Range:** -20 to 80 °C
- **Pressure Tap:** optional (depending on selected model)

Gas Filter Service Kit

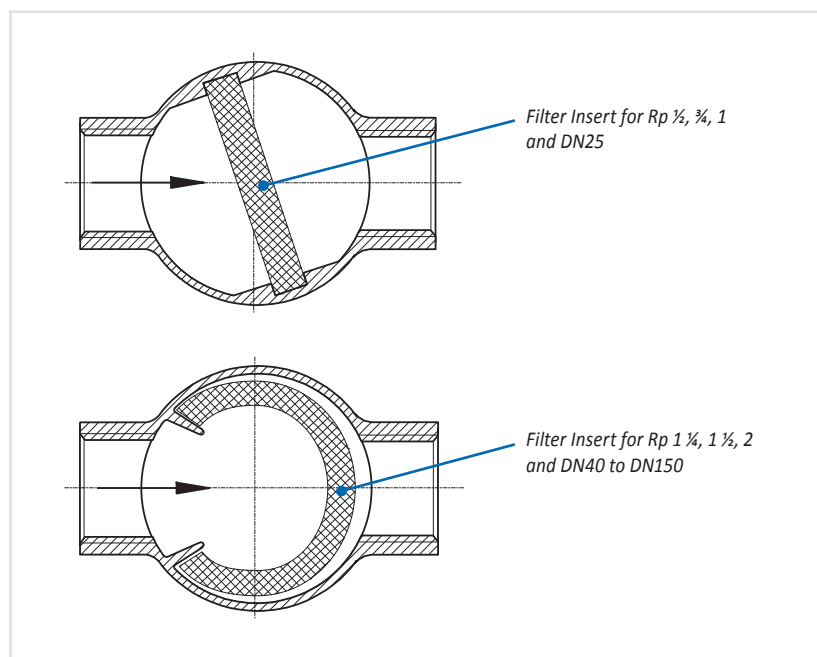
(incl. Insert, Gasket, and Screws)

| 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* | |

* Screws not included

Filter Inserts



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 |



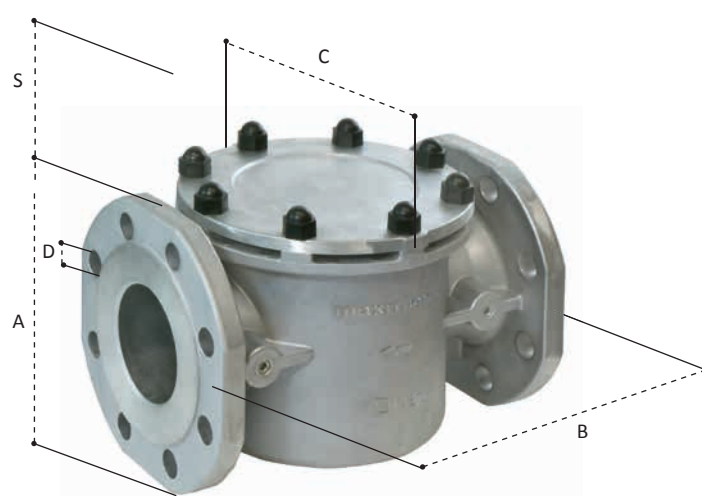
▲ GF40M...



▲ GF60M...



▲ GF80M...

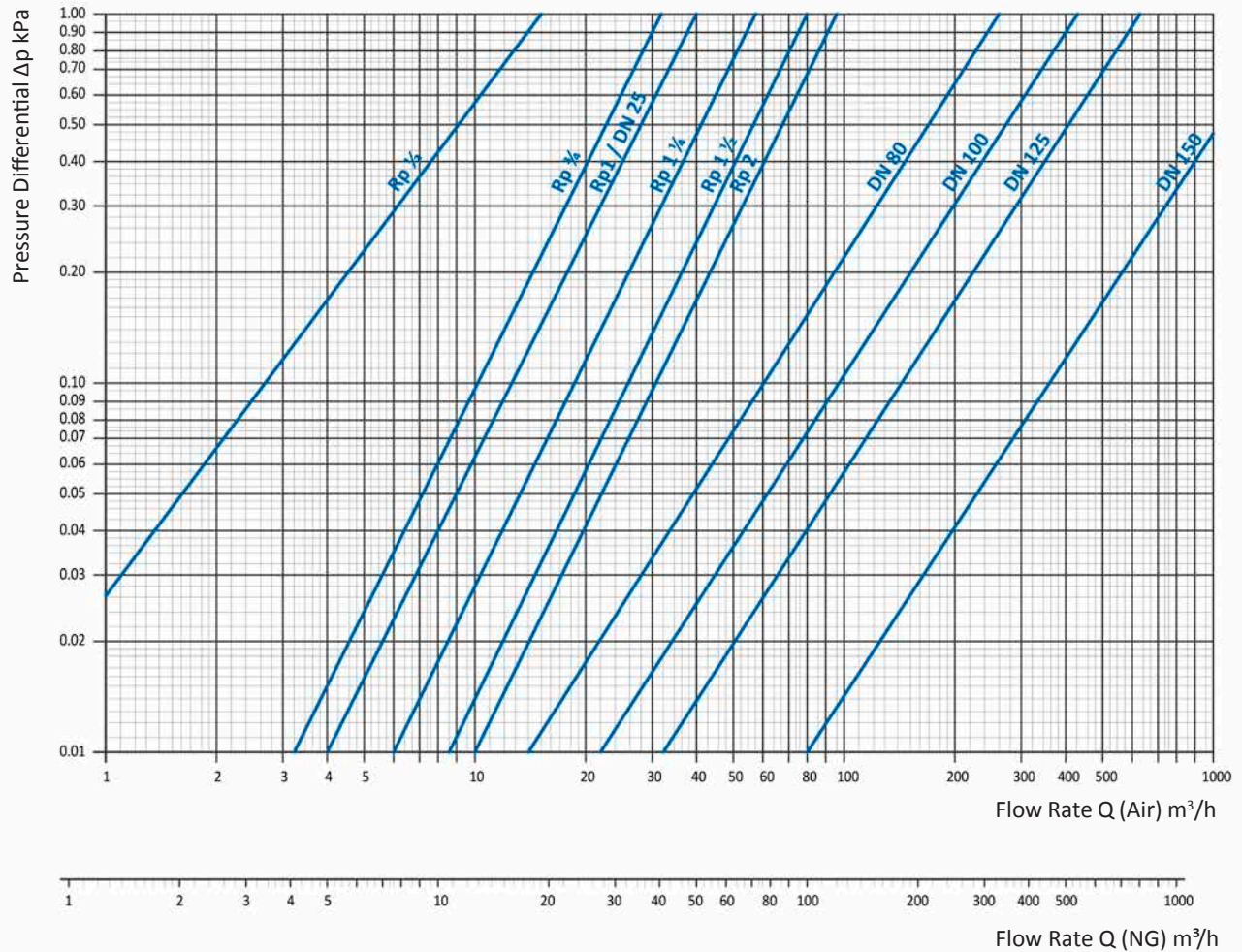


▲ HF2000F80..., HF2000F100...,
GF125MF..., GF150MF...

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.

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): $dv = 1.56$ $f = 0.80$

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

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

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

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



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