



**FRG/2MC type PRESSURE REDUCING
VALVE FOR GAS with BUILT-IN FILTER**

Model/Ref: 094004M



*Partnership.
Without Limits.*

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CHARACTERISTICS

The FRG/2MC pressure reducing valve with built-in filter is dedicated to burner and distribution systems of gas installations in buildings and factories. It permits to lower the network gas pressure to the burner pressure while ensuring a regular flow. With an aluminium body and a NBR diaphragm, it can be used on town gas, natural gas, liquid petroleum gas and other non-aggressive gases. The main characteristics of the FRG/2MC are the inlet pressure compensation, safety diaphragm as standard equipment and a sealing gasket for zero flow shut-off. Inlet and outlet pressure test tapping connexion.



AVAILABLE ITEMS

BSP threaded connections: 1/2" to 2"

PN 16 flanged connections according to the EN1092-1 standard: DN 65 to 100

Upstream filtration 50 µm

Available downstream adjustment ranges:

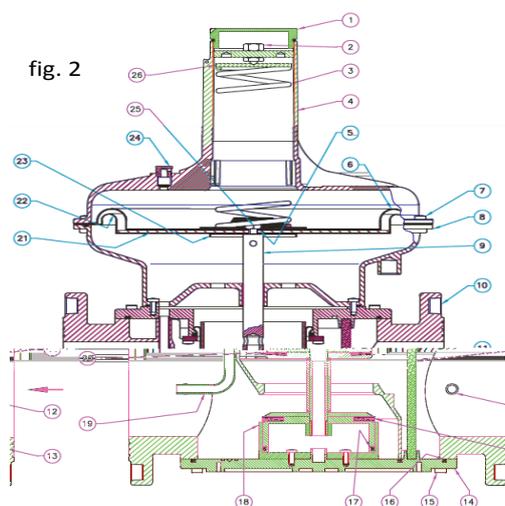
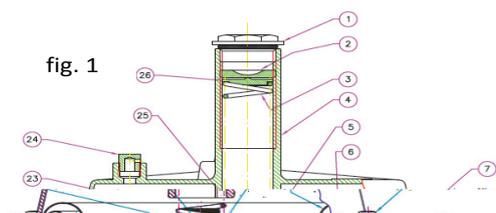
| DN | 1/2" 3/4" | 1" | 1 1/4" 1 1/2" | 2" | 65-80 | 100 |
|--------------|--------------|------|------------------|-------|-------|-------|
| Range (mbar) | 9-28 | 9-28 | 13-23 | 13-23 | 13-27 | 15-27 |

LIMITS OF USE

| | |
|---|----------------------------|
| Max. allowable pressure (PS) | 1 bar |
| Min. / max. allowable temperature (TS) | -15 °C / +60 °C |
| Explosive zone | Zones 1, 2, 21 and 22 only |

CONSTRUCTION

| # | Item | # | Item |
|----|--------------------|----|--|
| 1 | Cap | 14 | Bottom |
| 2 | Adjustment screw | 15 | Bottom fixing screw |
| 3 | Setting spring | 16 | Bottom seal O-ring |
| 4 | Funnel cover | 17 | Obturator |
| 5 | Toothed washer | 18 | Seal seat (fig. 1) or Obturator guide (fig. 2) |
| 6 | Safety diaphragm | 19 | Sensor tube |
| 7 | Funnel cover screw | 20 | Compensation diaphragm |
| 8 | Flange | 21 | Diaphragm upper disc |
| 9 | Central pin | 22 | Working diaphragm |
| 10 | Body | 23 | Diaphragm lower disc |
| 11 | Filtering organ | 24 | Antidust cap |
| 12 | Pressure tap | 25 | Central nut |
| 13 | Seal washer | 26 | Spring washer |



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SETTING RANGE

| DN | 15-25 | 32-50 | 65-80 | 100 |
|--------------|-------|-------|-------|-------|
| | 9-28 | 8-13 | 7-18 | 7-16 |
| Range (mbar) | 18-40 | 13-23 | 13-27 | 15-27 |

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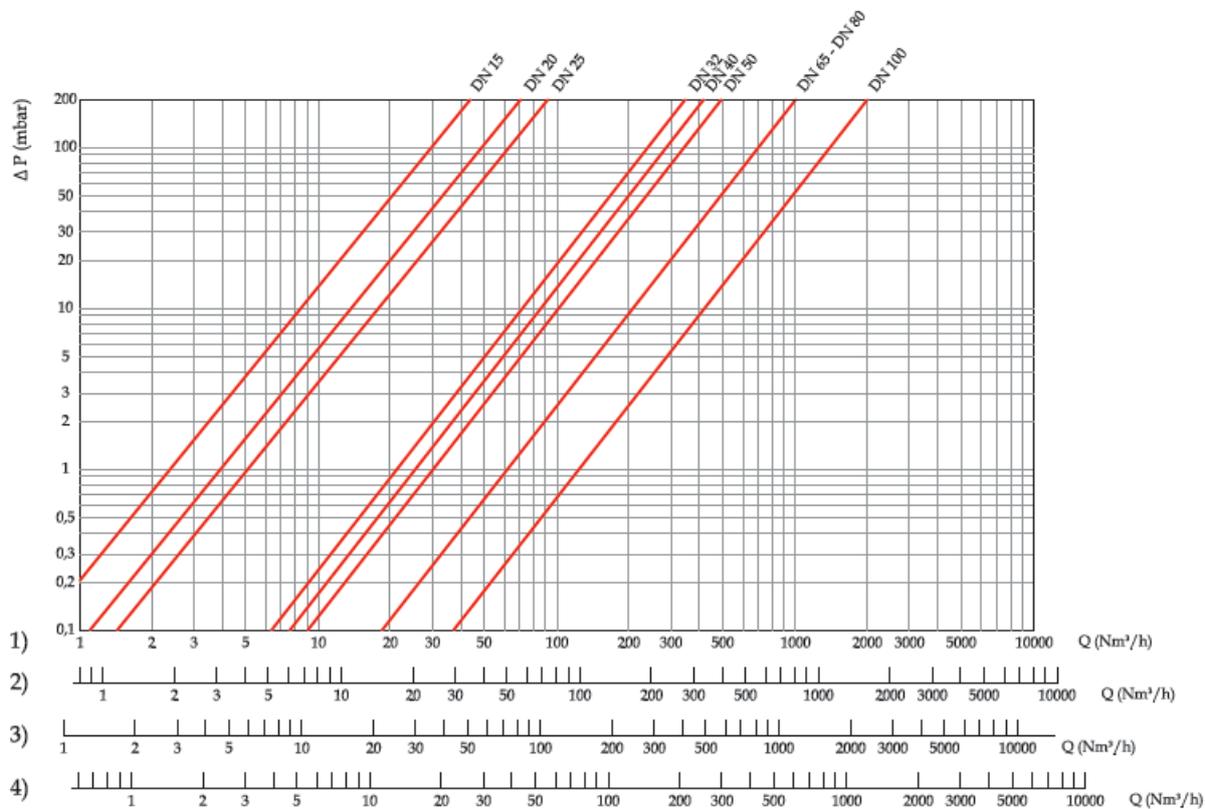
MAINTENANCE

No specific maintenance is required for the FRG/2MC pressure reducing valve with built-in filter. In the event of failure, we recommend to proceed to an overall overhaul in the factory. To clean the filter, shut both the upstream and downstream valves off, remove the bottom (*mark 14*), and replace the filtering organ (*mark 11*). We also recommend replacing the bottom gasket (*mark 16*). After this operation, please check that there is no gas leakage at the gasket.

SPARE PARTS

| DN | 1/2" to 1" | 1"1/4 to 2" | 65 to 80 |
|-------------|------------|-------------|----------|
| Filter code | 980921M | 980922M | 980923M |

PRESSURE DROP DIAGRAM



| | |
|---|----------|
| 1 | Methane |
| 2 | Air |
| 3 | Town gas |
| 4 | LPG |

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