# GF100 TÖMEGÁRAM SZABÁLYZÓ

Széria GF80, GF81, GF100, GF101, GF120, GF120XSL, GF120XSD, GF121, GF125, GF126, GF135

GF120XSL


- Minden típusú gázhoz 34 bar-ig max. 50 ° C-ig
- 0,003–36 000 l / perc tartomány
- Teljes körű áramlási területek 300 sl / percig (ref. N2)
- 0-10V, 4-20 mA kimenet
- Nagy pontosság, stabilitás és válaszidő

## TERMÉKLEÍRÁS

A Brooks GF-100-120-125 termikus tömegáramlás-szabályozó/tömegárammérő a legtöbb alkalmazásra felhasználható, amikor bármilyen típusú gázok mérésére és szabályozására van szükség.

Megrendelésével és bővebb felvilágosításért forduljon Bjarne Österberghez a bjarne.osterberg@oemautomatic.se e-mail címen vagy a +46 075 242 4251-es telefonszámon.

## Model Code

| Code | Description | Code Option | Option Description |
|---|---|---|---|
| I. | Base Model Code | GF040 | Elastomer / Range Flow (0-50 slpm) |
| | | GF080 | Metal / Range Flow (0-50 slpm) |
| II. | Configurability | C | MultiFlo Capable. Standard Bins or specific gas range may be selected |
| | | X | Not MultiFlo Capable. Specific gas/range required |
| III. | Special Application | XX | Standard |
| IV. | Valve Configuration | C | Normally Closed Valve |
| | | O | Normally Open Valve (GF40 only) |
| | | M | Meter (No Valve) |
| V. | MultiFlo Bin & Range or Gas & Range (Standard) | XXXX XXXX | Specific Gas Code & Range, example: "0004" = Argon and "010L" = 10 slpm |
| | | SA40 010C | Standard Configuration #40, 3-10 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA41 030C | Standard Configuration #41, 11-30 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA42 092C | Standard Configuration #42, 31-92 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA43 280C | Standard Configuration #43,93-280 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA44 860C | Standard Configuration #44, 281-860 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA45 2-4L | Standard Configuration #45, 861-2600 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA46 7-2L | Standard Configuration #46, 2601-7200 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA47 015L | Standard Configuration #47, 7201-15000 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA48 030L | Standard Configuration #48, 15001-30000 sccm N2 Eq. @ 0 deg C Ref Temp. |
| | | SA50 050L | Standard Configuration #50, 30001-50000 sccm N2 Eq. @ 0 deg C Ref Temp. |
| VI. | Fitting | XX | 9/16" - 18 UNF (GF40 Only) |
| | | CX | 1-1/8" C Seal 92mm (GF80 Only) |
| | | T1 | 1/8" tube compression (GF40 Only) |
| | | T2 | 1/4" tube compression (GF40 Only) |
| | | T3 | 3/8" tube compression (GF40 Only) |
| | | T4 | 1/2" tube compression (GF40 Only) |
| | | T6 | 6 mm tube compression (GF40 Only) |
| | | T0 | 10 mm tube compression (GF40 Only) |
| | | R2 | 1/4" RC (BSP) (GF40 Only) |
| | | VX | 1/4" VCR (GF40, GF80) |
| | | O2 | 1/4" VCO (GF40 Only) |
| | | N2 | 1/4" NPT (GF40 Only) |
| VII. | Downstream Condition | A | Atmosphere |
| | | V | Vacuum |
| | | P | Positive Pressure |
| VIII. | External Seals, Valve Seat | B | Seal Buna / Seat Buna (GF40 Only) |
| | | E | Seal EPDM / Seat EPDM (GF40 Only) |
| | | K | Seal Kalrez / Seat Kalrez (GF40 Only) |
| | | N | Seal Neoprene / Seat Neoprene (GF40 Only) |
| | | V | Seal Viton / Seat Viton (GF40 Only) |
| | | M | Seal Metal / Seat PFA (GF80 Only) |
| | | Z | Seal Nickel / Seat Kalrez (GF80 Only) |
| IX. | Communications / Connector | P5 | Profibus / Analog (Input 0-5 V; Output 0-5 V); 5-Pin Female D conn. / 15-Pin Male D conn. |
| | | P0 | Profibus / Analog (Input 0-20 mA; Output 0-20 mA); 9-Pin Female D conn. / 15-Pin Male D conn. |
| | | P4 | Profibus / Analog (Input 4-20 mA; Output 4-20 mA); 9-Pin Female D conn. / 15-Pin Male D conn. |
| | | ES | EtherCAT™ / (Output 0-5 V); 2x RJ45 signal 2-Pin power |
| | | DS | DeviceNet / Analog (Output 0-5 V); 5-Pin micro signal and power / 3-Pin analog signal |
| | | S5 | RS485; S-Protocol/Analog (Input 0-5 V; Output 0-5 V)15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | S1 | RS485; S-Protocol/Analog (Input 0-10 V; Output 0-10 V); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | S0 | RS485 (S-Protocol)/Analog (Input 0-20 mA ; Output 0-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | S4 | RS485 (S-Protocol)/Analog (Input 4-20 mA; Output 4-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | L5 | RS485 (L-Protocol)/Analog (Input 0-5 V; Output 0-5 V); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | L1 | RS485 (L-Protocol)/Analog (Input 0-10 V; Output 0-10 V); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | L0 | RS485 (L-Protocol)/Analog (Input 0-20 mA; Output 0-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | L4 | RS485 (L-Protocol)/Analog (Input 4-20 mA; Output 4-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | A5 | RS485 (A-Protocol)/Analog (Input 0-5 V; Output 0-5 V); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | A1 | RS485 (A-Protocol)/Analog (Input 0-10 V; Output 0-10 V); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | A0 | RS485 (A-Protocol)/Analog (Input 0-20 mA; Output 0-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| | | A4 | RS485 (A-Protocol)/Analog (Input 4-20 mA; Output 4-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA Sll) |
| X. | Customer Special Request | XXXX | Customer Special Request Number |
| XI. | Auto Shut-Off | A | Auto Shut-Off (Included) |
| | | X | Auto Shut-Off (Not Included) |
| XII. | Auto Zero | A | Auto Zero (Included) |
| | | X | Auto Zero (Not Included) |
| XIII. | Reference Temperature | 0DC | 0°C Reference |
| | | 15C | 15°C Reference |
| | | 20C | 20°C Reference |
| | | 70F | 21.1°C Reference / 70°F Reference |

**Example Model Code**

| I | II | III | IV | | V | | VI | VII | VIII | IX | | X | XI | XII | | XIII |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GF040 | C | XX | C | - | 0011300C | - | T2 | A | V | P5 | - | XXXX | X | A | - | 20C |

;

# MŰSZAKI ADATOK

| | |
|---|---|
| **Data** | RS485, DeviceNet |
| **Diagnosztikai/szervizport** | RS-485 via 2.5mm jack |
| **Differenciálnyomás** | 10 Torr-30 psid typical (1.33-207 kPa typical) |
| **Felületkiképzés** | 5 µm Ra |
| **Külső szivárgás** | 1x10-10 atm. cc/sec He |
| **Közeghőmérséklet eddig:** | 50 °C |
| **Közeghőmérséklet ettől:** | 10 °C |
| **Lökésszerű nyomás** | 34 bar |
| **Max. szállítási távolság** | 0.004 ln/min |
| **Max. üzemi hőmérséklet** | 50 °C |
| **Max. üzemi nyomás** | 34 bar |
| **Min. üzemi hőmérséklet** | 10 °C |
| **Nyomástartomány max. értéke** | 34,5 bar |
| **Rendszerint nyitott szelep bezár** | < 2%F.S |

| | |
|---|---|
| **Rendszerint zárt szelep bezár** | <1%F.S |
| **Szabályozási tartomány** | 2-100 % (NC) 3-100 % (NO) |
| **Szelep típusa** | NC/NO |
| **Válaszidő** | <3 s |
| **Vízzel érintkező alkatrészek anyaga** | Hastelloy, Rozsdamentes acél 304, Rozsdamentes acél 316 |