



ZAWORY DO ZABUDOWY
PŁYTOWEJ CETOP
ROZDZIELACZE SUWAKOWE
EATON NG6

Build a Compact, Cost-Effective, Reliable Hydraulic System with Eaton SystemStak™ Valves

Reduces System Space Requirements

SystemStak valves make compact hydraulic systems in which specific function valves are “sandwich” mounted between a directional valve and a standard mounting surface.

Reduce Cost

SystemStak valves eliminate intervalve piping and leak-prone tube and pipe connections. Installed cost is less than when using conventional valves.

Versatile and Easy to Install

SystemStak valves have all the internal passages necessary to serve the directional valve topping them. Mounting surfaces and port patterns are to international standards: any valve conforming to ISO 4401 size 03; ANSI/B93.7M size D03; NFPA-D03; CETOP 3; and DIN 24340, NG6 mounting interface can be used with these SystemStak valves.

Rugged and Reliable

Internal working parts are produced from hardened steel and mounted in ductile (spheroidal graphite) iron bodies. Excellent reliability is ensured. Working parts are accessible without removing valves from an assembled stack.

SystemStak Systems... Easy to Understand, Easy to Design

SystemStak circuitry is best shown using slightly different symbols than those for traditional valve configurations. Each SystemStak symbol has the same basic form and size as shown in fig. 1.

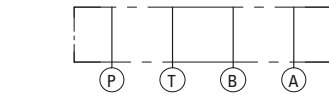


Figure 1

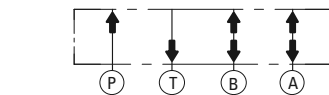


Figure 2

For ease of understanding, remember the directions of flow for each line, and that all four flow paths pass through each valve (see fig. 2). For clarity, directional

valves are drawn vertically in SystemStak circuit diagrams (see fig. 3).

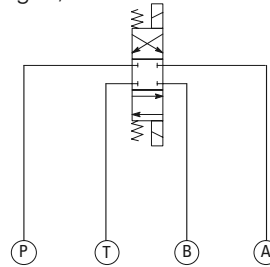


Figure 3

Each station (valve stack) is a combination of functions. When designing and assembling SystemStak valves, care must be taken to ensure that they interact as required by stacking the functions in the correct sequence (fig. 4 is an example).

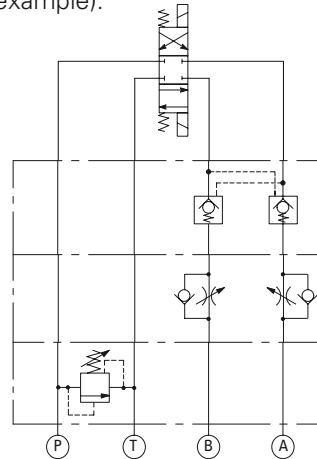


Figure 4

Relief valves should normally be positioned next to the mounting surface (i.e. at the bottom of the stack). When both a flow control and a pilot operated check valve are required, it is recommended that the flow control valve be between the check valve and the actuator to prevent check valve chatter.

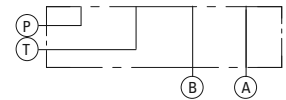


Figure 5

A combination of directional valve, SystemStak valve(s) and subplate/manifold block (fig. 5: single station subplate and fig. 6: multi-station manifold) completes the assembly.

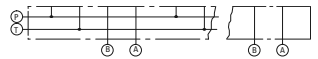


Figure 6

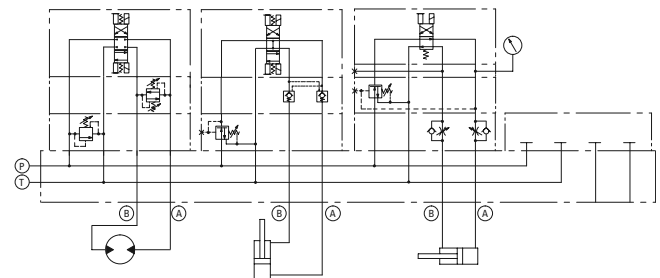


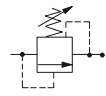
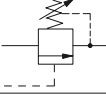
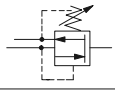
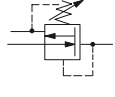

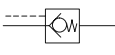
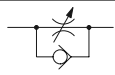
Figure 7

Fig. 7 represents a complete SystemStak system, showing typical use of functions available from this range. The circuit diagram also shows the use of a

tapping plate for accessing line pressure readings, and a blanking plate to close off an unused station of a multi-station manifold.

M

Table of Contents

| Function | Basic symbol | Basic model | Features | Page |
|--|--|-------------|--|------|
| Relief |  | DGMC | Single, dual and crossport models | 5 |
| Counterbalance |  | DGMR | Control in port T | 8 |
| Sequence |  | DGMR1 | Single port P sequence | 8 |
| Reducing/relieving |  | DGMX | Piloted from (and reduced pressure in) port P, A or B | 8 |
| Direct check |  | DGMDC | Single check in any port; dual check in ports A and B only | 11 |
| Pilot operated check |  | DGMPC | Single in port A or B; dual in ports A and B | 14 |
| Flow restrictor |  | DGMFN | Single or dual port, meter-in or meter-out | 17 |
| Further information: Mounting bolts, subplates and manifold blocks Hydraulic fluids Filtration requirements Temperature limits Pressure drop at other viscosities Types H and K adjusters Warranty and repair Ordering procedure | | | | 20 |

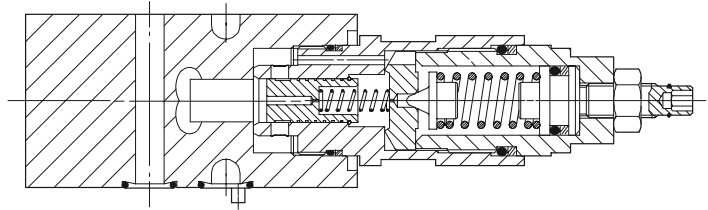
DGMC-3-41
DGMC2-3-41

General Description

These two-stage adjustable pressure relief valves limit the maximum pressure in the line(s) controlled by the integral relief valve elements.

Pressure adjustment options of control knob (with or without keylock) or screw/locknut design are available. The two-stage operation is basically identical to long-established balanced piston valves, described in detail in Eaton Industrial hydraulics manual.

Typical Section



Model Codes

DGMC(2) -3- ** - ** (-B* - **)- * - 41

1
2
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9

1 Type

2 – Dual relief function
Omit for single relief function

2

First function

Single relief, or first line of dual models

| Code | Pressure limited in | Discharge into | Usage |
|------|---------------------|----------------|-------------------------|
| PT | P | T | Single only |
| AB | A | B | Single, or dual with BA |
| BA | B | A | Single only |
| AT | A | T | Single, or dual with BT |
| BT | B | T | Single only |

3 Pressure adjustment range, first function

A – 3-50 bar (45-725 psi)
B – 3-100 bar (45-1450 psi)
C – 10-200 bar (145-2900 psi)
G – 50-315 bar (725-4500 psi)

4 Pressure adjustment/locking method, first function

H – Handknob
K – Micrometer with keylock
W – Screw and locknut

5 Second function

Second line of dual models

| Code | Pressure limited in | Discharge into | Usage |
|------|---------------------|----------------|--------------|
| BA | B | A | Dual with AB |
| BT | B | T | Dual with AT |

Omit for single line models

6 Pressure adjustment range, second function
Options as in **3**

7 Pressure adjustment/locking method, second function
Options as in **4**

8 Gauge port: option on AT and PT single models only

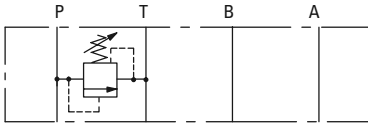
B – G1/4" 1/4 BSPF
S – SAE 4 (7/16"-20 UNF-2B)
Blank – No gauge

9 Design number, 41 series

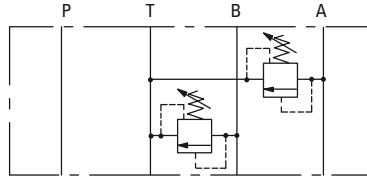
Subject to change. Installation dimensions unchanged for design numbers 40 to 49 inclusive.

For simplicity these two-stage valves are represented as single-stage models

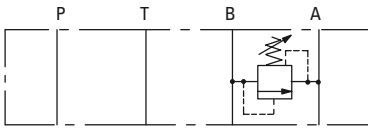
DGMC-3-PT-41



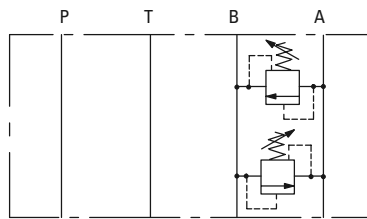
DGMC2-3-AT-**-BT-41



DGMC-3-BA-41



DGMC2-3-AB-**-BA-41

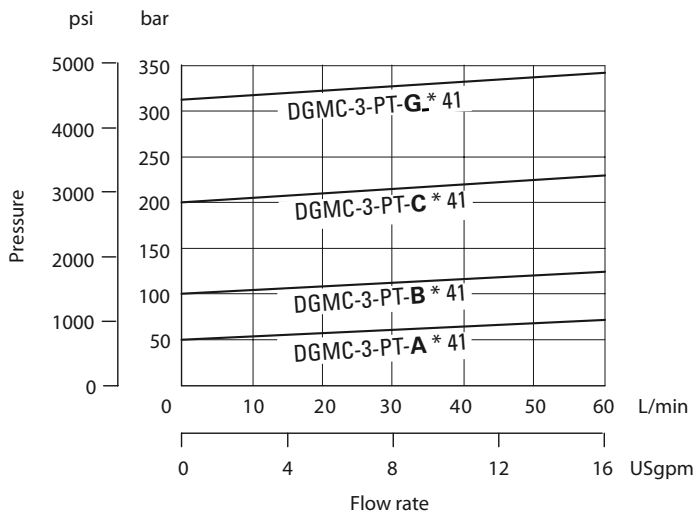


Operating Data

| | |
|----------------------------|---|
| Maximum flow rate | 60 L/min (16 USgpm) |
| Maximum operating pressure | 315 bar (4500 psi) |
| Pressure drops | See graphs |
| Mounting position | Optional |
| Mass Approx. | DGMC- 1.3kg (2.9lb) DGMC2- 2.5kg (5.5lb) |

Performance Data

Pressure override Typical performance for PT models at max. pressure settings with mineral oil at 21 cSt (102 SUS) and at 50°C (122°F).



Installation Dimensions

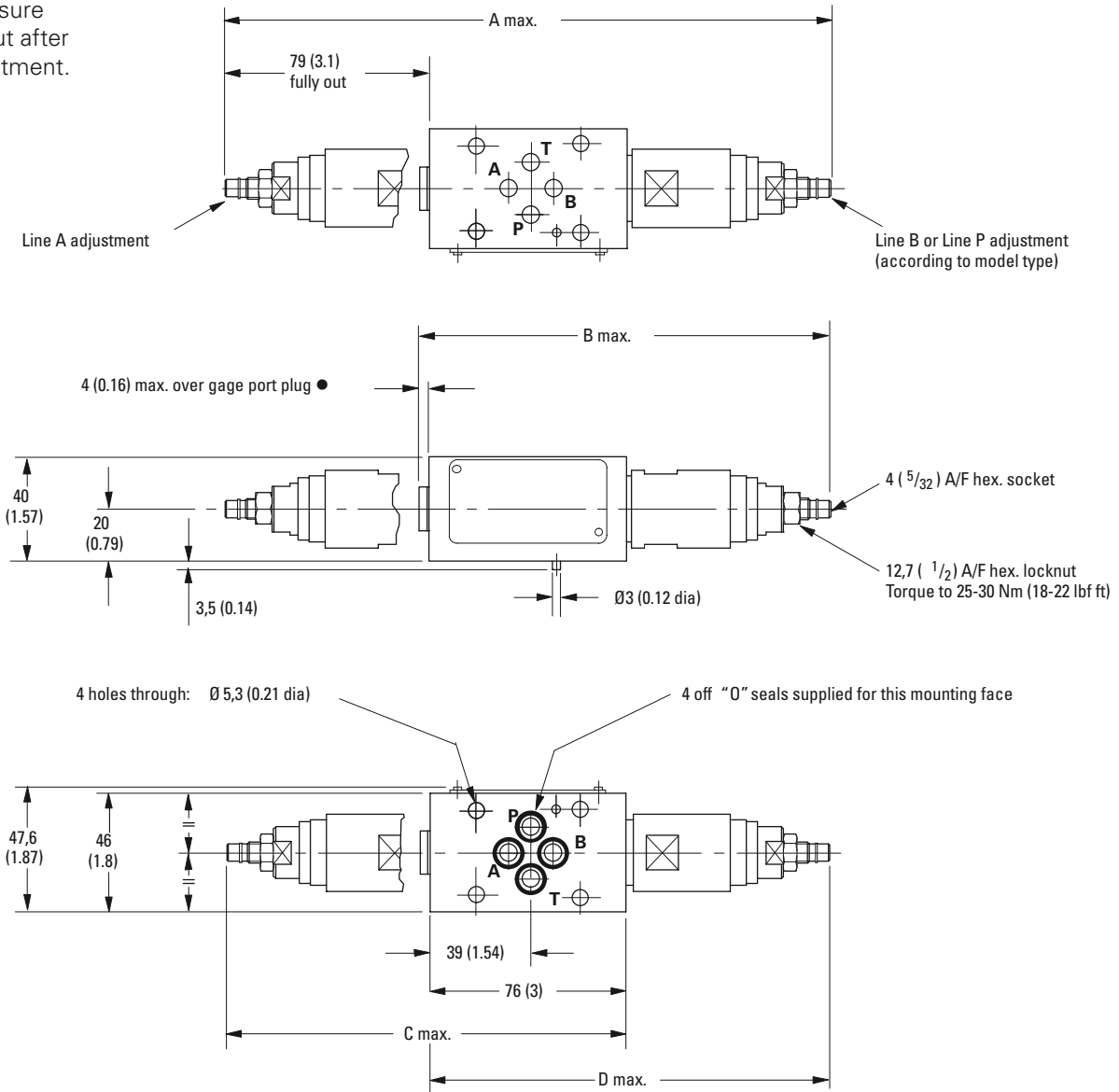
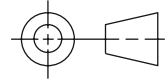
in mm (inches)

DGMC(2)-3**-*-(-B**-*-)-41

Models with type W adjuster

To adjust valve setting
slacken off locknut and turn
adjuster screw. ■

■ Turn clockwise to increase
pressure; counter-clockwise
to decrease pressure
Re-tighten locknut after
completing adjustment.



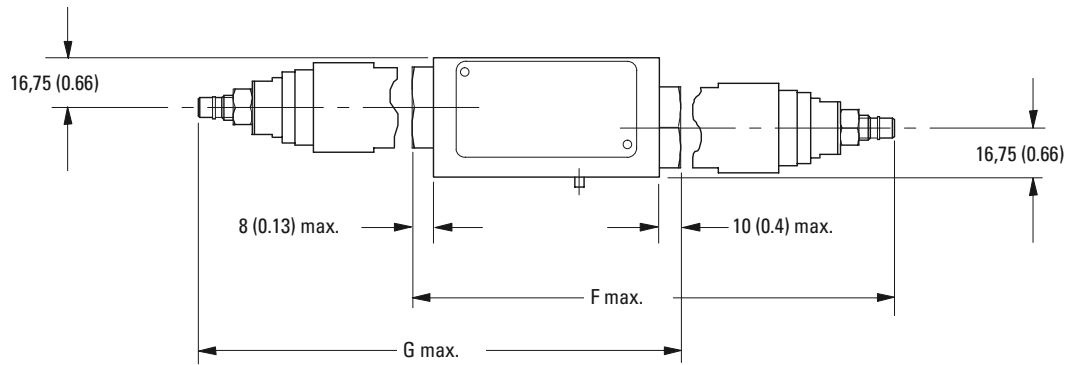
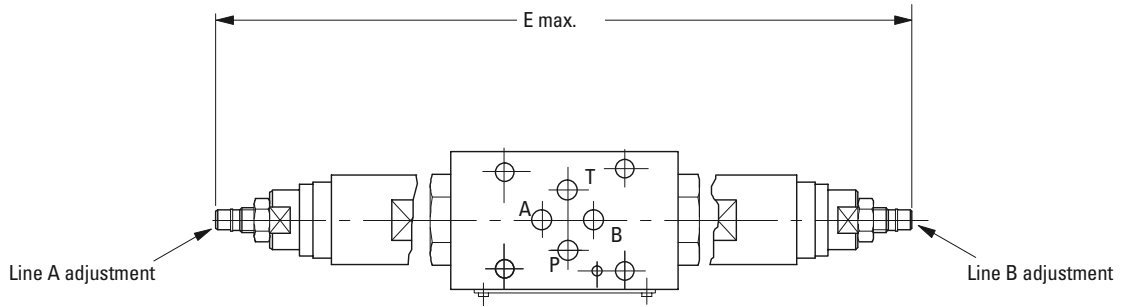
| Model | A | B | C | D |
|------------------------|-----------|-----------|-----------|-----------|
| DGMC-3-AT-*W-41 | - | - | 154 (6.1) | - |
| DGMC-3-BT-*W-41 | - | - | - | 156 (6.2) |
| DGMC-3-AT-*W-*-41 | - | 160 (6.3) | - | - |
| DGMC-3-PT-*W-41 | - | - | - | 156 (6.2) |
| DGMC-3-PT-*W-*-41 | - | 160 (6.3) | - | - |
| DGMC2-3-AT-*W-BT-*W-41 | 234 (9.2) | - | - | - |

● For gage port thread options see model code 8

M

Installation Dimensions

in mm (inches)



| Model | E | F | G |
|------------------------|-----------|-----------|-----------|
| DGMC-3-AB-*W-41 | - | - | 164 (6.5) |
| DGMC-3-BA-*W-*-41 | - | 164 (6.5) | - |
| DGMC2-3-AB-*W-BA-*W-41 | 234 (9.2) | - | - |

DGMR(1)-3-40
DGMX*-3-40

General Description

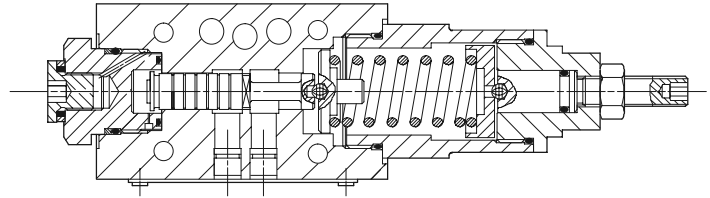
These single-stage valves operate by the application of pressure on the end of the valve spool, acting against a spring which is loaded by means of the adjustment mechanism.

In the counterbalance and sequence valves the spool is offset by the spring such that flow cannot pass through the valve. When the force exerted by the pilot pressure on the spool end exceeds the force of the main spring, the spool is moved to allow flow through the valve.

In the pressure reducing valve the flow path is normally open and is closed as the pilot pressure exceeds the setting of the valve. Excessive pressure in the reduced-pressure line is prevented by a pressure relieving function.

Pressure adjustment options of control knob (with or without keylock) or screw/locknut design are available.

Typical Section



Model Code

DGM *(*) -3- ** (*) - * * - * - 40

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1 Type

- R** – Counterbalance function
- R1** – Sequence function
- X1** – Pressure reducing, underlapped
- X2** – Pressure reducing, overlapped
- X3** – Pressure reducing, overlapped, low leakage

- pressure in “P” port
- For DGMX only:**
- PA** – Pressure reducing function in line P, piloted from A
 - PB** – Pressure reducing function in line P, piloted from B
 - PP** – Pressure reducing function in line P, piloted from P

4 Pressure adjustment range

- For DGMX only:**
- Y** – 1,40-7,0 bar (21-101 psi)
 - R** – 1,40-45,0 bar (21-652 psi)
- For DGMR and DGMX:**
- A** – 3-30 bar (43.5-435 psi)
 - B** – 3,5-70 bar (51-1000 psi)
 - C** – 10-140 bar (145-2000 psi)
 - F** – 20-250 bar (290-3625 psi)

6 Gauge port

- B** – G1/8 “ (1/8 BSPF)
- S** – SAE 4(7/16”-20 UNF-2B)

2 Function ports

- For DGMR only:**
- TA** – Counterbalance control function in “T” port, controlled by pressure in “A” port
- For DGMR1 only:**
- PP** – Sequence control in “P” port, controlled by

3 Adjuster location

- Option on DGMX only
- L** – Adjuster at “A”-port end of valve
 - Blank** – Adjuster at “B”-port end of valve

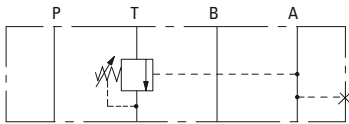
5 Pressure adjustment/locking method

- H** – Handknob
- K** – Micrometer with keylock
- W** – Screw and locknut

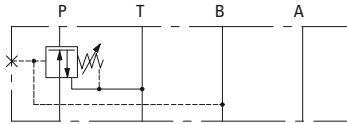
7 Design number, 40 series

Subject to change. Installation dimensions unchanged for design numbers 40 to 49 inclusive.

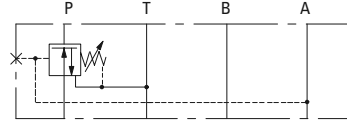
DGMR-3-TA



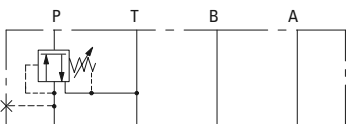
DGMX*-3-PB



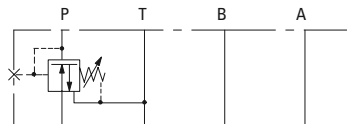
DGMX*-3-PA



DGMR1-3-PP



DGMX*-3-PP



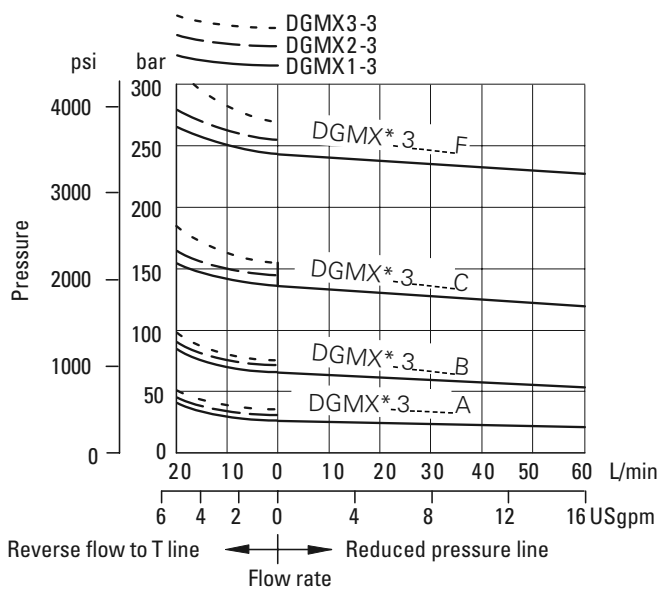
Operating Data

| | |
|----------------------------|--|
| Maximum flow rate | 60 L/min (16 USgpm) |
| Maximum operating pressure | 315 bar (4500 psi) |
| Pressure drops | See graphs |
| Mounting position | Optional |
| Mass Approx. | DGMR*- 1.3kg (2.9lb) DGMX*- 1.3kg (2.9lb) |

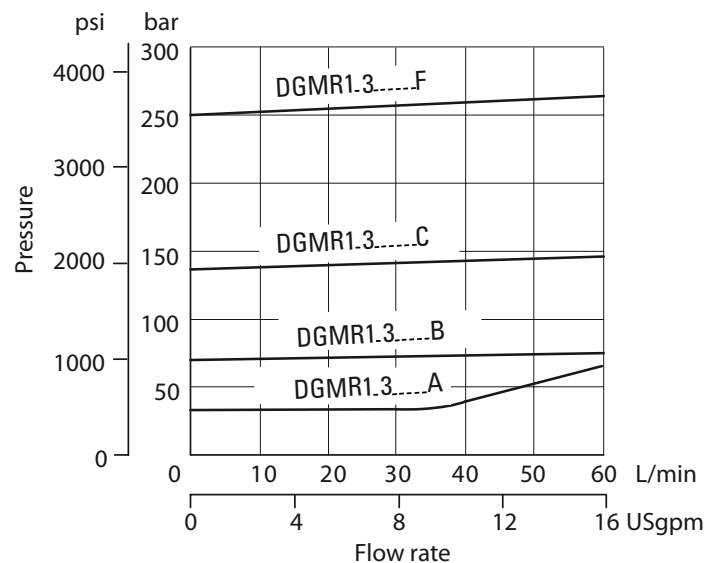
Performance Data

Typical performance with mineral oil at 21 cSt (102 SUS) and at 50°C (122°F).

DGMX*-3-P*



DGMR1-3-PP



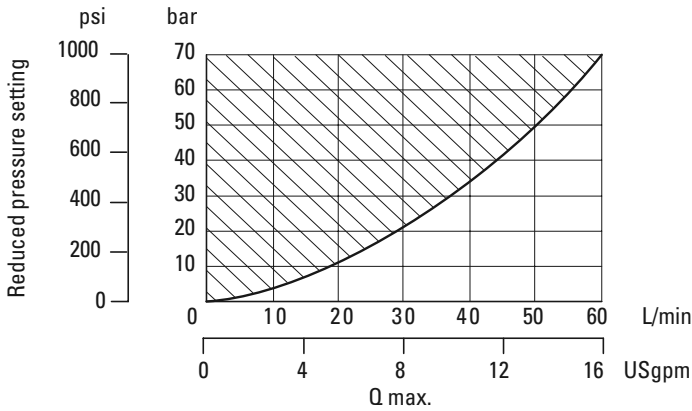
M

Performance Data

(contd...)

DGMX*-3-P*

Low Pressure/Flow Rate Minimum Performance



Effect of Back-Pressure

The effective reduced pressure is equal to the valve adjustment setting plus any back-pressure in line T

Dead Head Leakage

Typical leakage flow at 250 bar inlet pressure from reduced pressure line into T at "Dead Head" condition (i.e. No flow required at the reduced pressure outlet.)

This leakage flow must be provided at the inlet line P in order to maintain the reduced outlet pressure.

DGMX1-3 = 1600
DGMX2-3 = 400
DGMX3-3 = 80

Installation Dimensions

in mm (inches)

DGMR-3-TA-**-*-40

DGMR1-3-PP-**-*-40

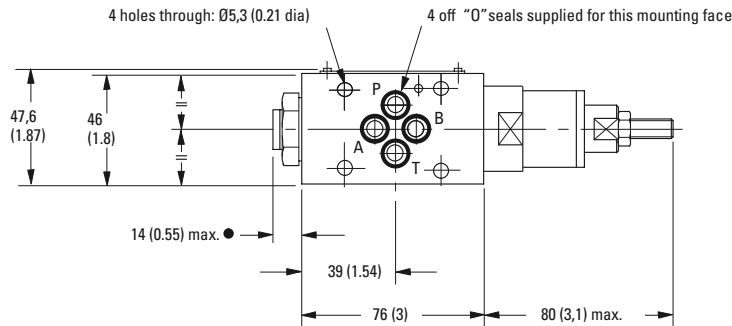
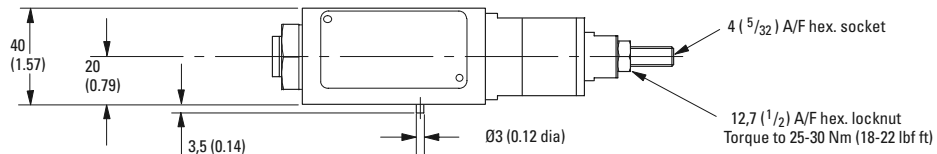
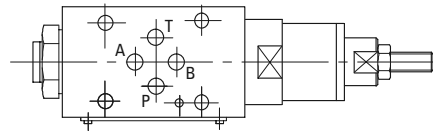
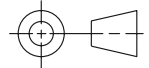
DGMX(*)-3-P*(L)-**-*-40

Models with type W adjuster

To adjust valve setting slacken off locknut and turn adjuster screw. ■

■ Turn clockw to increase pressure; counter-clockwise to decrease pressure.

Re-tighten locknut after completing adjustment. DGMX2-3-**L models have adjuster and end cap/gage port locations interchanged from positions shown.



● For gage port thread options see model code 6,
(pressure plug fitted)

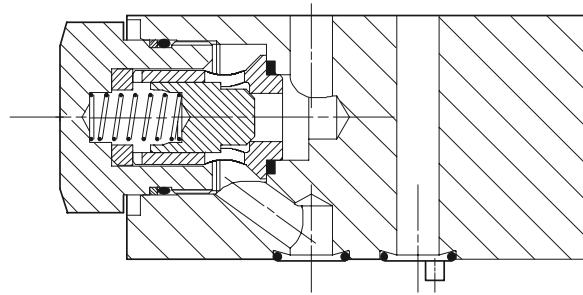
M

DGMDC-3-41

Typical Section

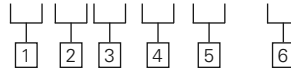
General Description

These valves allow free flow in one direction in the line in which the check valve element(s) is (are) located; flow in the opposite direction is not possible.



Model Code

DGMDC -3- * - * * (-* *) - 41



1 Direction of flow

X – Free flow away from actuator
Y – Free flow towards actuator

2 Check location

A – A line
B – B line
P – P line with free flow towards actuator (X)
T – T line with free flow away from actuator(Y)

3 Check valve opening/ cracking pressure

K – 1 bar (14.5 psi)
M – 2,5 bar (36 psi)
N – 5 bar (72 psi)

4 Check location (second element of dual model)

Only available as model type DGMDC-3-Y-A*-B*-4*
B – B line

5 Check valve opening/ cracking pressure (second function of dual model)

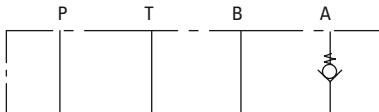
Options as in 3

6 Design number, 40 series

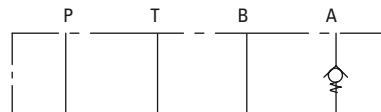
Subject to change. Installation dimensions unchanged for design numbers 40 to 49 inclusive.

Functional Symbols

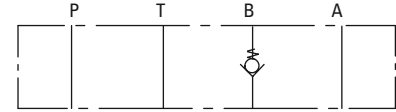
DGMDC-3-X-A*



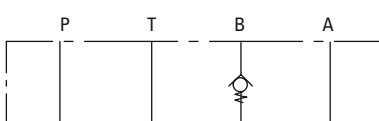
DGMDC-3-Y-A*



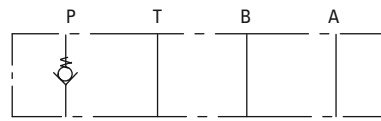
DGMDC-3-X-B*



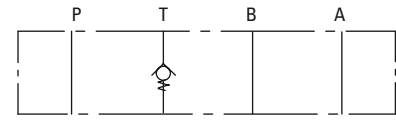
DGMDC-3-Y-B*



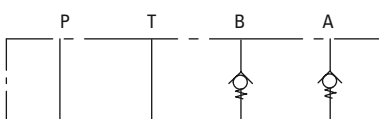
DGMDC-3-Y-P*



DGMDC-3-X-T*



DGMDC-3-Y-A*-B*

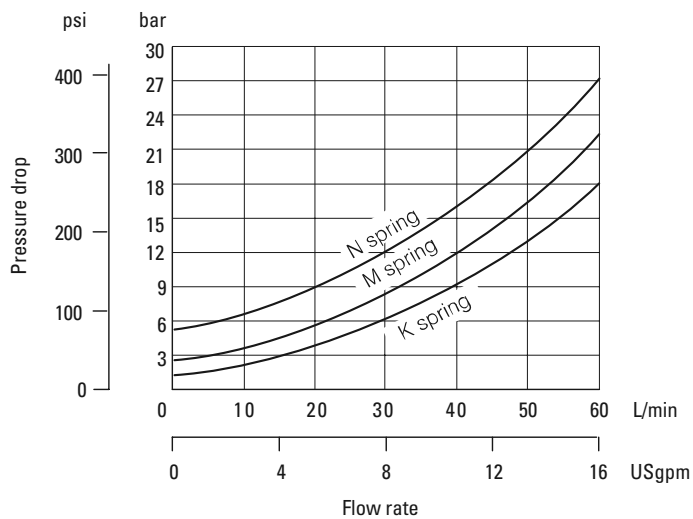


| | |
|----------------------------|---------------------|
| Maximum flow rate | 60 L/min (16 USgpm) |
| Maximum operating pressure | 315 bar (4500 psi) |
| Pressure drops | See graphs |
| Mounting position | Optional |
| Mass approximate | 1 kg (2.2 lb) |

Performance Characteristics

Typical performance with mineral oil at 21 cSt (102 SUS) and at 50°C(122°F) ●

Pressure drop: free flow through check valve



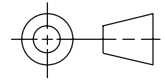
● For other viscosities, see "Further Information".

Internal Leakage Across Closed Check Valve

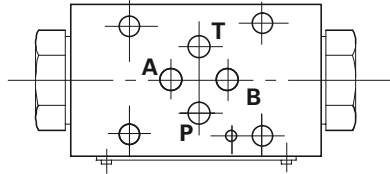
Less than 0,25 ml/min (0.015 in³/min) at 250 bar (3625 psi)

M

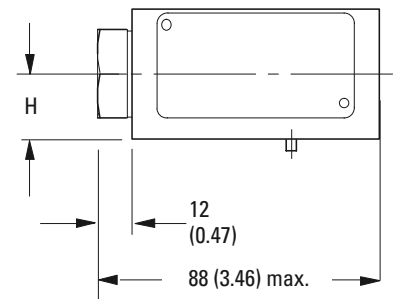
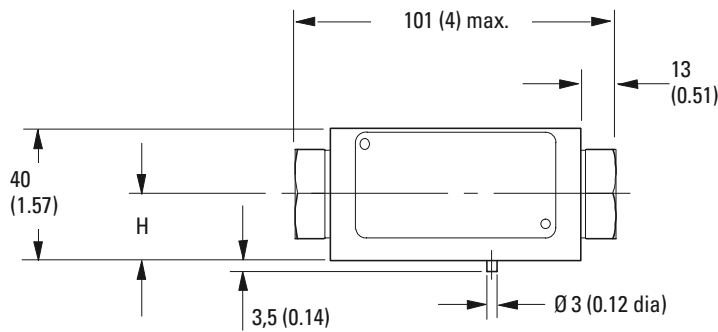
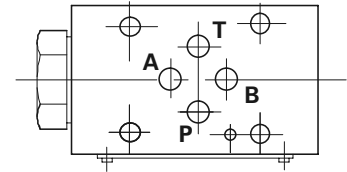
Installation Dimensions in mm (inches)



DGMDC-3-Y-A*-B*-41

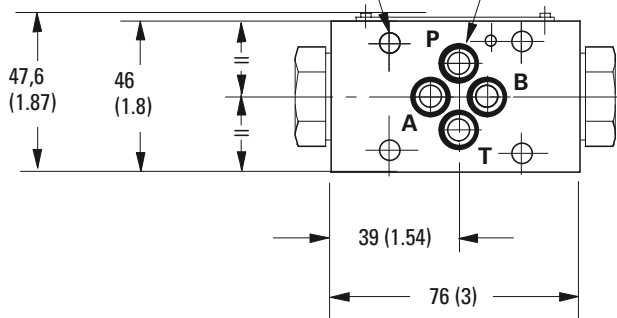


DGMDC-3-X-A*-41
 DGMDC-3-X-T*-41
 DGMDC-3-Y-A*-41
 DGMDC-3-Y-P*-41

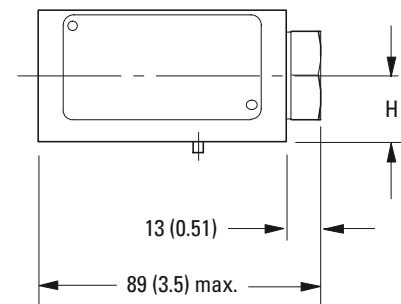


4 holes through: Ø 5,3 (0.21 dia)

4 off "O" seals supplied for this mounting face



DGMDC-3-X-B*-41
 DGMDC-3-Y-B*-41



| Model Type | H |
|--------------------|--------|
| DGMDC-3-X-A*-41 | |
| DGMDC-3-X-B*-41 | 16,75 |
| DGMDC-3-Y-P*-41 | (0.66) |
| DGMDC-3-X-T*-41 | |
| DGMDC-3-Y-A*-41 | 23,25 |
| DGMDC-3-Y-B*-41 | (0.92) |
| DGMDC-3-Y-A*-B*-41 | |



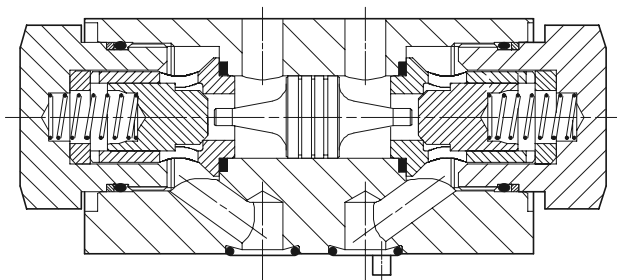
DGMPC-3-41

General Description

These valves provide pilot operated check functions in one or both service lines (A or B), the operating pilot supply coming from the opposite service line. Thus with pressure in one service line the check valve in the other service line will be open (subject to system/actuator pressures being correct for the valve area ratios).

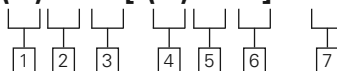
A 3:1 area ratio of pilot piston to check valve seat is supplemented by an optional 10:1 decompression feature.

Typical Section



Model Code

DGMPC -3- (D)** * [-(D)** *] - 41



1 Decompression feature

D – 10:1 decompression ratio
Omit if not required

2 Function

AB – Check in line A, pilot operated from line B
D – Check in line B, pilot operated from line A (single check model only)

3 Check valve opening/cracking pressure

K – 1 bar (14.5 psi)
M – 2,5 bar (36 psi)
N – 5 bar (72 psi)

4 Decompression feature (second function of dual models)

As in 1
Omit for single line models, and if not required for dual models

Note: "D" must be specified here, for dual models, if called for in 1

5 Second function of dual models

BA – Check in line B, pilot operated from line A
Omit for single line models

6 Check valve opening/cracking pressure (second function of dual models)

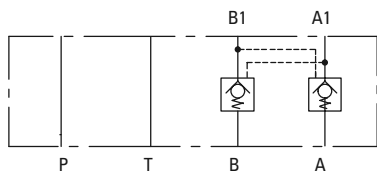
Options as in 3
Omit for single line models

7 Design number, 41 series

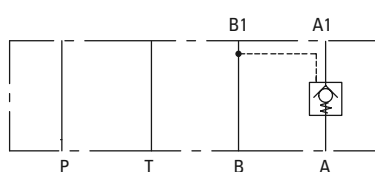
Subject to change. Installation dimensions unchanged for design numbers 40 to 49 inclusive.

M Functional Symbols

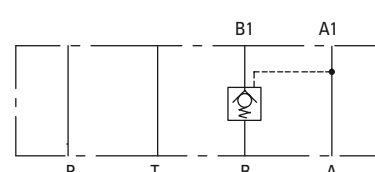
DGMPC-3-(D)AB*-(D)BA*



DGMPC-3-(D)AB*



DGMPC-3-(D)BA*



Operating Data

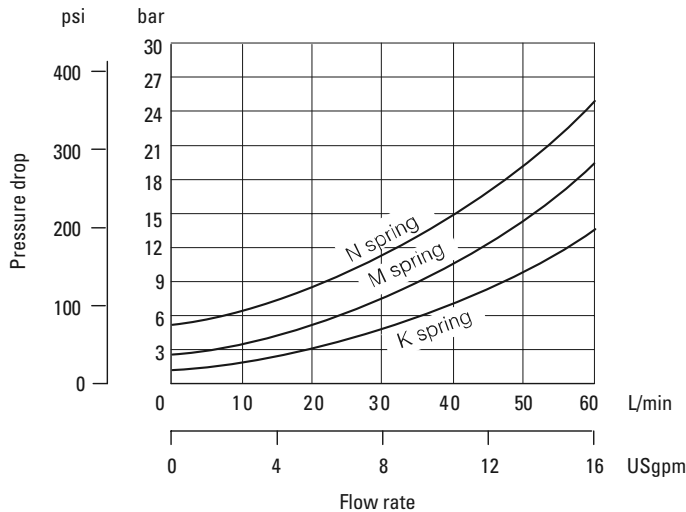
| | |
|----------------------------|---------------------|
| Maximum flow rate | 60 L/min (16 USgpm) |
| Maximum operating pressure | 315 bar (4500 psi) |
| Pressure drops | See graphs |
| Mounting position | Optional |
| Mass approximate | 0.8 kg (1.81 lb) |

Performance Data

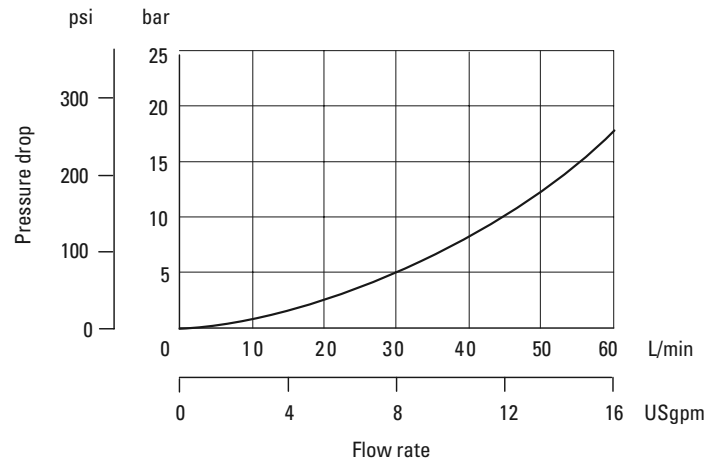
Pressure Drop Data

Typical performance with mineral oil at 21 cSt (102 SUS) and at 50°C(122°F)

Pressure drop: flow path A1 to A or B1 to B (no pilot-pressure operation)



Pressure drop: flow path A to A1, or B to B1 with check valve pilot-operated fully open



u For other viscosities, see "Further Information".

Pilot Pressures

Pilot area ratios:

Main check valve 3:1

Decompression poppet 10:1

Use applicable ratio and opening/cracking pressure to calculate pilot pressure to open valve element, applied to the following formulae:

To open valve or decompression poppet in line A:

$$\text{Pressure at B1} = \frac{p_A + p_C - p_{A1}}{\text{Area ratio factor}} + p_{A1}$$

To open valve or decompression poppet in line B:

$$\text{Pressure at A1} = \frac{p_B + p_C - p_{B1}}{\text{Area ratio factor}} + p_{B1}$$

Where:

p_A = Pressure at A

p_C = Cracking/opening pressure

p_{A1} = Pressure at A1

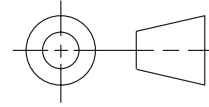
p_B = Pressure at B

p_{B1} = Pressure at B1

A = }
 B = } Service line location;
 A1= } see functional symbols
 B1= }

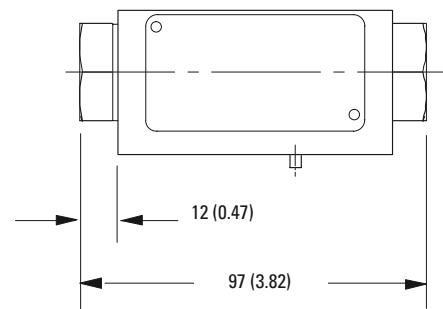
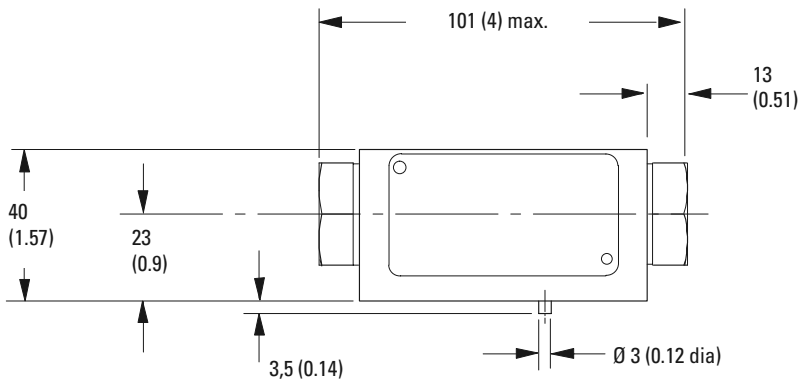
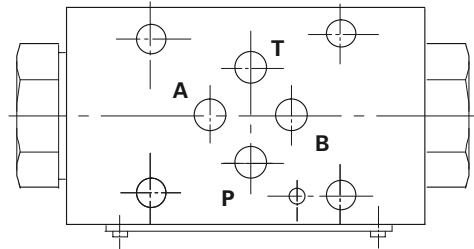
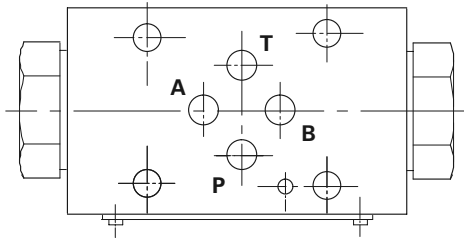
Leakage

Less than 0,25 ml/min (0.015 in³/min) at 250 bar (3625 psi).



DGMPC-3-(D)AB*-(D)BA*-41

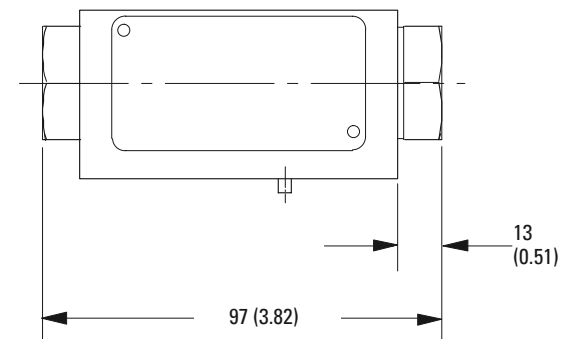
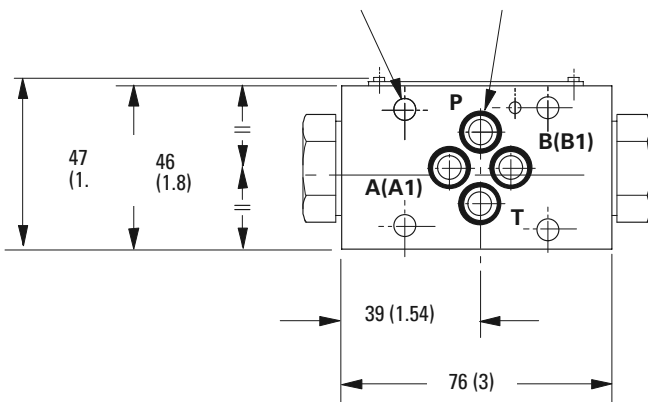
DGMPC-3-(D)AB*-41



4 holes through: Ø 5,3 (0.21 dia)

4 off "O" seals supplied for this mounting face

DGMPC-3-(D)BA*-41



M

DGMFN-3-41

General Description

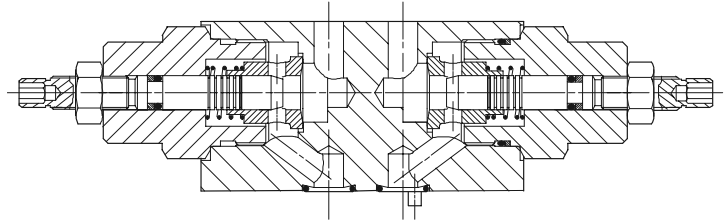
These valves regulate flow by means of an adjustable orifice which is not pressure compensated, and flow through the valve is entirely dependent upon pressure drop at any particular setting of the orifice.

Dual service-line models with an integral non-return valve around each control orifice provide for meter-in or meter-out control; single line versions of these are available.

For flow restriction in P or T lines (where reverse free flow is not required) models without check valves are available.

Adjustment options are either screw/locknut or handknob.

Typical Section



Model Code

DGMFN -3- * -* * * (-* * *) - 41

□□□□□□□□

12345678

- 1 Direction of flow control (with respect to machine actuator)**
X – Meter-in control, applicable to lines A and B
Y – Meter-out control, applicable to lines A and B
Z – Meter-in control, line P only and meter-out control, line T only.

- 2 Location of control function (single model or first line of dual model)**
P – Line P (single model only)
T – Line T (single model only)
A – Line A (single model or first line of dual model)
B – Line B (single model only)

- 3 Type of control needle/orifice (single model or first line of dual model)**
1 – Fine control
2 – Standard control

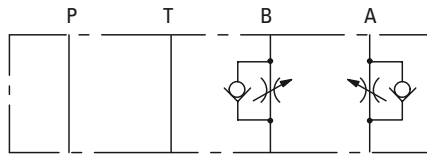
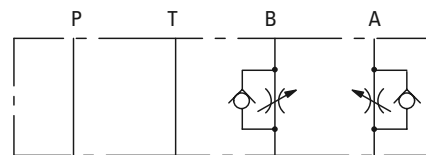
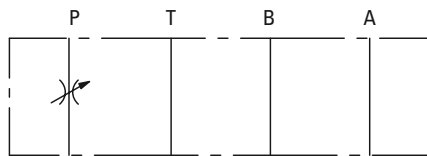
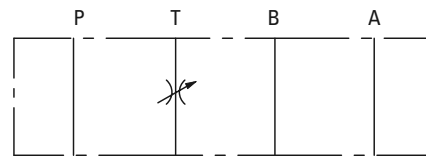
- 4 Adjuster type (single model or first line of dual model)**
H – Handknob
W – Screw/locknut

- 5 Control in second line**
B – Line B (use for dual models with "A" specified at **2**)
 Omit for single models

- 6 Type of control needle/orifice (second line of dual models)**
 Options as in **3**
 Omit for single models

- 7 Adjuster type (second line of dual models)**
 Options as in **4**
 Omit for single models

- 8 Design number, 41 series**
 Subject to change. Installation dimensions unaltered for design numbers 40 to 49 inclusive.

DGMFN-3-X-A-B****

DGMFN-3-Y-A-B****

DGMFN-3-Z-P**

DGMFN-3-Z-T**


Operational Data

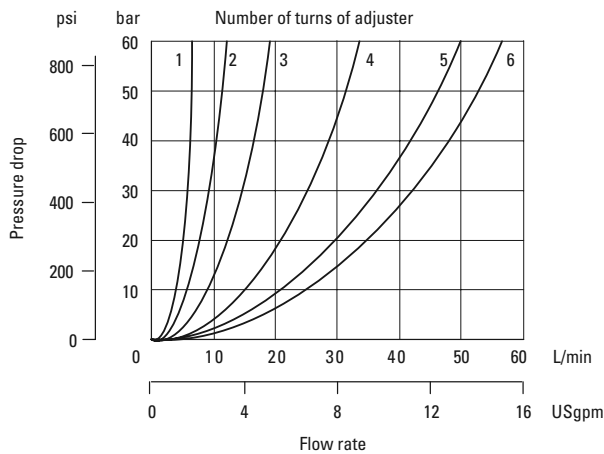
| | |
|----------------------------|---------------------|
| Maximum flow rate | 60 L/min (16 USgpm) |
| Maximum operating pressure | 315 bar (4500 psi) |
| Pressure drops | See graphs |
| Mounting position | Optional |
| Mass approximate | 1.1 kg (2.2 lb) |

Performance Characteristics

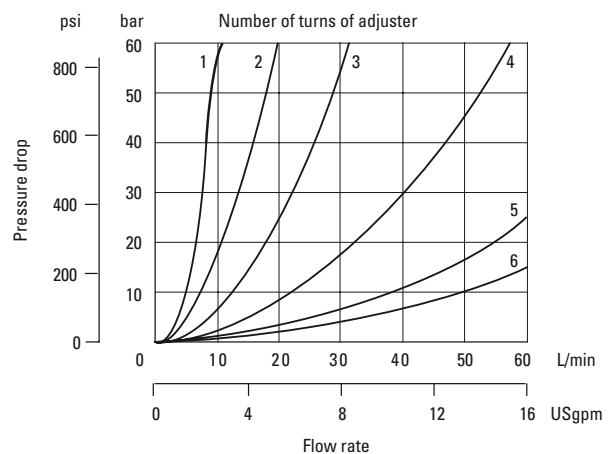
Pressure Drop

Typical performance with mineral oil at 21 cSt (102 SUS) and at 50° C(122° F) ●

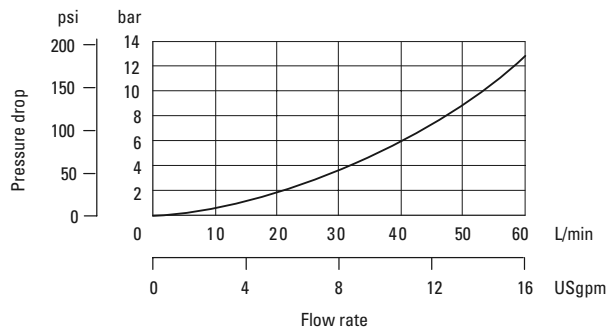
Type "1" needle (see model codes [3](#) and [6](#))



Type "2" needle (see model codes [3](#) and [6](#))



Free flow through check valve



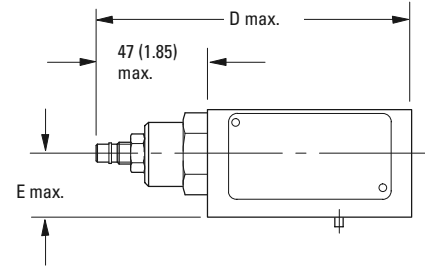
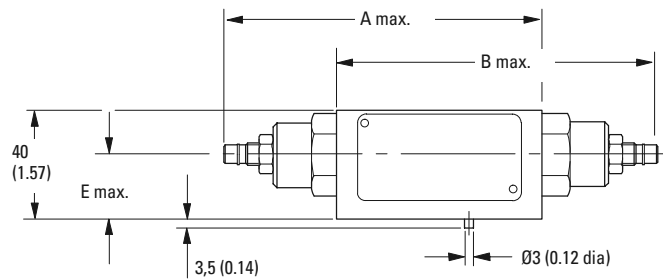
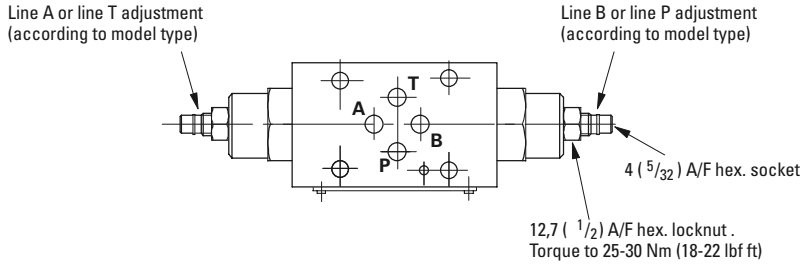
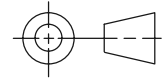
● For other viscosities see "Further Information".

Installation Dimensions in mm (inches)

DGMFN-3-X-*(-***)-41**
DGMFN-3-Y-*(-***)-41**
DGMFN-3-Z-*-41**

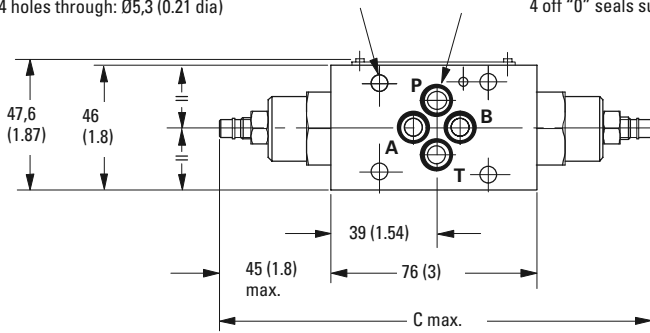
Models with type W adjuster

To adjust valve setting, slacken off locknut and turn screw ■
 Re-tighten locknut after completing adjustment.

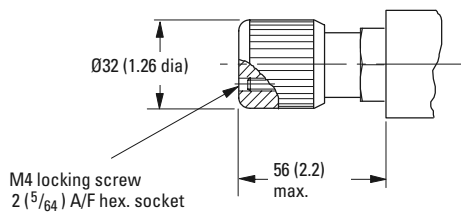


4 holes through: Ø5,3 (0.21 dia)

4 off "O" seals supplied for this interface



Type H adjuster



■ Turn clockwise to decrease flow (increase restriction);
 counter-clockwise to increase flow (reduce restriction).

| Model | A | B | C | D | E |
|----------------------|------------|-----------|-----------|-----------|-------------|
| DGMFN-3-X-A*W-41 | 121 (4.76) | - | - | - | 16,75 (0.7) |
| DGMFN-3-X-A*W-B*W-41 | - | - | 167 (6.6) | - | 16,75 (0.7) |
| DGMFN-3-X-B*W-41 | - | 122 (4.8) | - | - | 16,75 (0.7) |
| DGMFN-3-Y-A*W-41 | 121 (4.76) | - | - | - | 23,25 (0.9) |
| DGMFN-3-Y-A*W-B*W-41 | - | - | 167 (6.6) | - | 23,25 (0.9) |
| DGMFN-3-Y-B*W-41 | - | 122 (4.8) | - | - | 23,25 (0.9) |
| DGMFN-3-Z-P*W-41 | - | - | - | 123 (4.8) | 16,75 (0.7) |
| DGMFN-3-Z-T*W-41 | - | - | - | 123 (4.8) | 23,25 (0.9) |

M

Mounting Bolts, Subplates and Manifold Blocks

Mounting Bolts

The length of mounting bolt used to install a SystemStak assembly is dependent on the number of valves being used, plus the length needed for mounting other valves in the assembly, such as:

- solenoid operated, or other type of directional valve
- tapping plate
- blanking or crossover plate

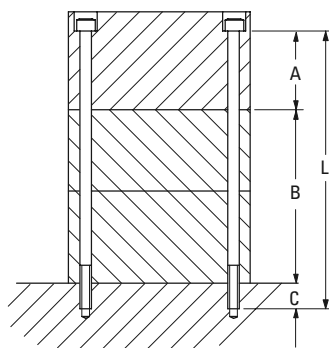
Eaton offers a large selection of bolt kits (one bolt kit for these SystemStak valves comprises 4 bolts) in metric and inch sizes as listed. To determine your needs, use the following guide for bolt length calculation.

Bolt Kit Selection

| Metric: M5-6g | | Inch: 10-24 UNC-3A | |
|---------------|-----------------------|--------------------|-----------------------|
| Length (mm) | Eaton bolt kit number | Length (in) | Eaton bolt kit number |
| 50 | BKDG3699M | 2.0 | BKDG3698 |
| 60 | BK466836M | 2.375 | BK466849 |
| 70 | BK464125M | 2.75 | BK870017 |
| 80 | BK466837M | 3.125 | BK466850 |
| 90 | BK466838M | 3.5 | BK466851 |
| 100 | BK466839M | 3.937 | BK466852 |
| 110 | BK466840M | 4.312 | BK466853 |
| 120 | BK466841M | 4.75 | BK466854 |
| 130 | BK466842M | 5.125 | BK466855 |
| 140 | BK466843M | 5.5 | BK466856 |
| 150 | BK466844M | 5.937 | BK466857 |
| 160 | BK466845M | 6.312 | BK466858 |
| 170 | BK466846M | 6.687 | BK466859 |

Subplates and Manifold Blocks

See "Subplates and Auxiliary Connection Plates" catalog 2425.



A = Bolt clamp length in directional valve, blanking plate, crossover plate, etc.

B = Height of intermediate valve stack, comprising Eaton SystemStak valve(s) plus tapping plates, etc.

C = Depth of thread engagement in subplate/ manifold block: 8/10 mm (0.3/0.4), valid for: 315 bar (4500 psi) when using cast iron or steel subplates/manifold blocks, or 210 bar (3045 psi) when using Eaton aluminium alloy manifold blocks.

L = Required bolt length; select from the table.

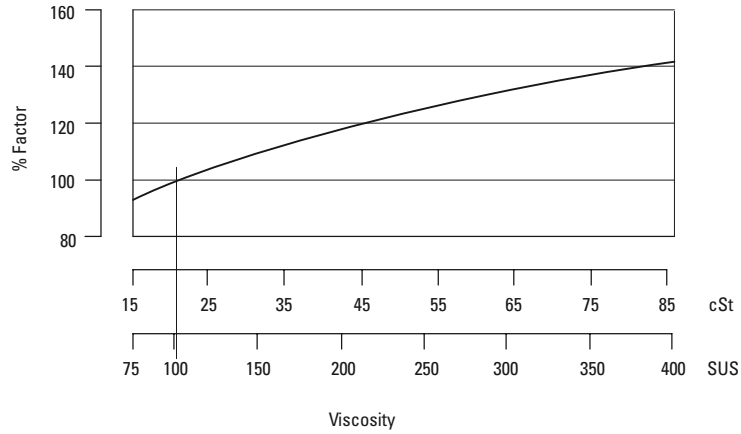
Notes

1. Bolts should be torqued to 7-9 Nm (63-80 lbf in) with threads lubricated.
2. If not using Eaton bolt kits, bolts must be to Grade 12.9 (ISO 898) or better.

M

Pressure Drop at Other Viscosities

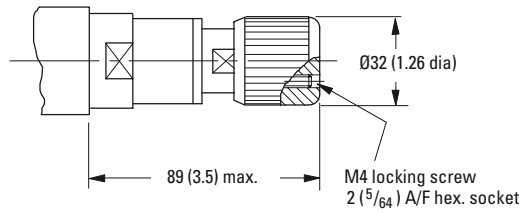
Published pressure drop data is valid for a fluid viscosity of 21 cSt (102 SUS). The graph shows the approximate percentage change in pressure drop for a range of other viscosities. To determine the approximate pressure drop for any given fluid viscosity, multiply the published data by the % factor for the required viscosity.



Type H Adjuster

To adjust valve setting, slacken M4 locking screw and rotate knob ■. Re-tighten locking screw after completing adjustment.

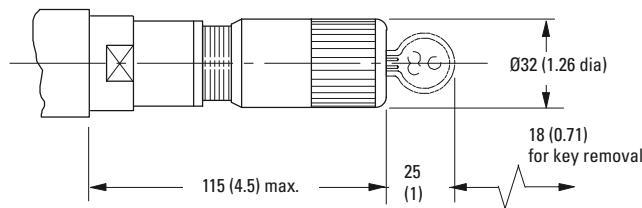
Available on
 DGMC-3
 DGMR-3
 DGMX-3



Type K Adjuster

Key must be inserted and turned to allow valve to be adjusted ■. When key is removed, adjustment mechanism can be freely turned without changing valve setting.

Available on
 DGMC-3
 DGMR-3
 DGMX-3



- Turn clockwise to increase pressure; counter-clockwise to decrease pressure



CENTRALA ELBLĄG

Ul. Rawska 19B
82-300 Elbląg

tel. /+48/ 55 625 51 00

fax /+48/ 55 625 51 01

Dział Handlowy

tel. /+48/ 55 625 51 51

elblag@hydropress.pl



www.hydropress.pl

ODDZIAŁ GDAŃSK

tel. /+48/ 55 625 51 21

fax /+48/ 55 625 51 22

ODDZIAŁ RUMIA

tel. /+48/ 58 679 34 15

fax /+48/ 55 625 51 25

ODDZIAŁ TYCHY

tel. /+48/ 32 787 52 88

fax /+48/ 55 625 51 38

ODDZIAŁ OLSZTYN

tel. /+48/ 89 532 01 05

fax /+48/ 89 715 21 42

ODDZIAŁ WARSZAWA

tel. /+48/ 22 468 86 97

fax /+48/ 55 625 51 32

BIURO WE WROCŁAWIU

tel. /+48/ 782 838 000

fax /+48/ 55 625 51 35

BIURO W KIELCACH

tel. /+48/ 885 995 501

fax /+48/ 55 625 51 01

BIURO W KRAKOWIE

tel. /+48/ 885 995 019

fax /+48/ 55 625 51 01

BIURO W OPOLU

tel. /+48/ 885 995 011

fax /+48/ 55 625 51 01

BIURO W BYDGOSZCZY

tel. /+48/ 790 222 771

fax /+48/ 55 625 51 01

BIURO W BIAŁYMSTOKU

tel. /+48/ 89 532 01 05

fax /+48/ 89 715 21 42

BIURO W ŁODZI

tel. /+48/ 609 221 421

fax /+48/ 89 715 21 42