DGMC-3-41 DGMC2-3-41

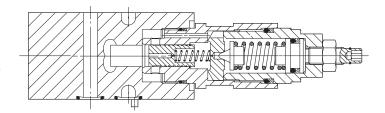
General Description

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

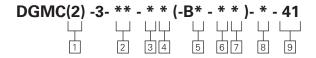
Pressure adjustment options of control knob (with or without keylock) or screw/locknut design are available. The two-stage operation is basically identical to

long-established balanced piston valves, described in detail in Eaton Industrial hydraulics manual.

Typical Section



Model Codes



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	Р	Т	Single only
AB	А	В	Single, or dual with BA
ВА	В	А	Single only
AT	A	T	Single, or dual with BT
BT	В	Т	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

Pressure Discharge Usage
Code limited in into

BA B A Dual With AB

Dual

with

ΑТ

Omit for single line models

6 Pressure adjustment range, second function

Options as in 3

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

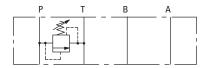
Design number,41 series

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

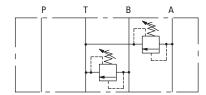
Functional Symbols

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

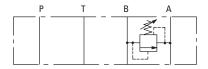




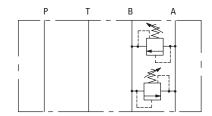
DGMC2-3-AT-**-BT-41



DGMC-3-BA-41



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

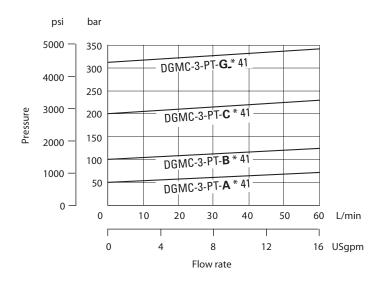


Operating Data

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)

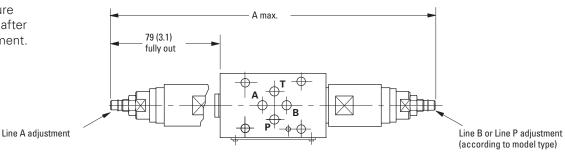
DGMC(2)-3**-**(-B*-**)-41

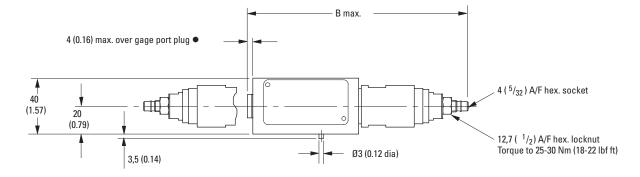
Models with type W adjuster

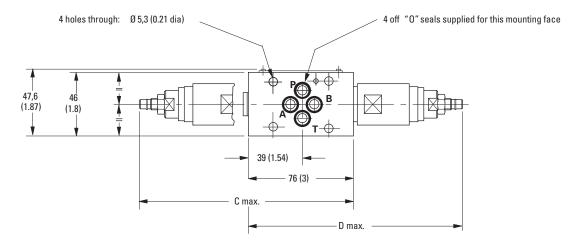
To adjust valve setting slacken off locknut and turn adjuster screw. ■

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







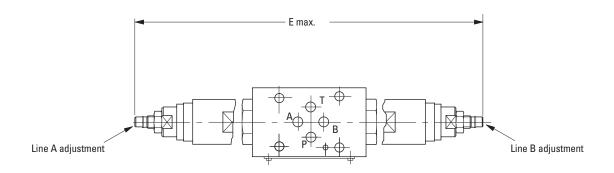


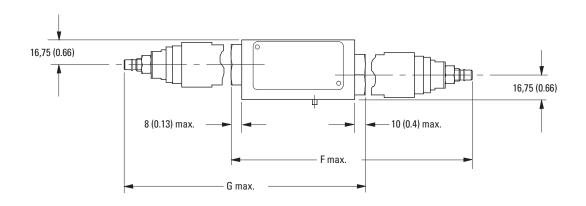
	В	С	D
_	_	154 (6.1)	_
-	_	_	156 (6.2)
-	160 (6.3)	-	_
-	-	-	156 (6.2)
-	160 (6.3)	-	_
234 (9.2)	_	_	_
	- - - - - 234 (9.2)	160 (6.3)	

• For gage port thread options see model code 8

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)	_	-