

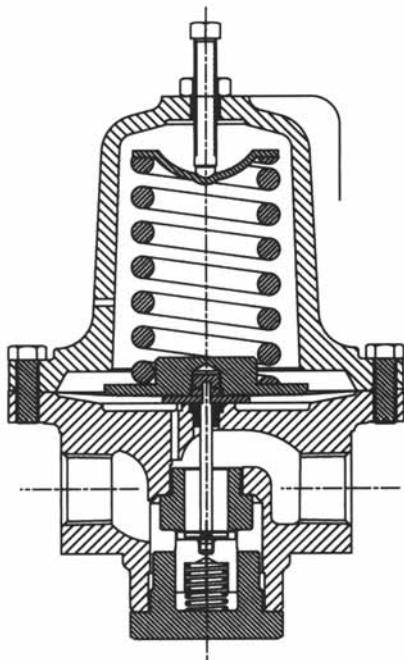
# Mark 68G

## Pressure Regulators

The Mark 68G is a globe-style pressure reducing regulating valve that offers high capacity, accurate regulation, and easy servicing, making it the ideal choice for your industrial-grade pressure reducing applications. The bottom-entry design ensures the Mark 68G is easy to clean or repair. The diaphragm can be easily accessed from the top allowing some repairs to be conducted without removing the valve from the line.

### OPERATION

The downward force of the spring holds the plug normally open. As downstream pressure increases, due to a decrease in flow demand, it forces the diaphragm up, closing the valve. As the valve closes, the inlet pressure is then reduced to the selected setpoint. The controlled downstream pressure set point can be increased or decreased with the adjusting screw. A selection of spring ranges are available so that all control settings can be handled with excellent accuracy with low droop (proportional band).



### FEATURES

- Easy to maintain and service — bottom entry to expose plug, stem, and seat; diaphragm accessible from top, allows for in-line maintenance
- Large effective diaphragm area — reduces droop for increased accuracy and sensitivity
- Large orifices and body passages — provides high flow capacities
- Tight shutoff — your choice of hard (ANSI Class IV) or soft (ANSI Class VI bubble-tight) shutoff
- For applications with differential pressures up to 300 psi (21 bar) — on water, air, oil, gas, steam and chemicals
- Zero or minimal soft seals to enhance chemical and temperature capabilities.



**Jordan Valve**

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**SPECIFICATIONS**

**Sizes**

- 1/4" through 2" (DN8 through DN50)

**End Connections**

- Threaded — NPT, BSPT, BSPP
- Flanged

**Body Materials**

- Ductile Iron
- Carbon Steel
- Stainless Steel

**Plug Materials**

- Buna-N
- Viton
- Hardened 17-4 PH Stainless Steel
- EPDM

**Trim Materials**

- DI or CS body valves: 316 SST
- SS body valves: 316 SST

**Seat Material:** 316 Stainless Steel

**Spring Housing Material:** Cast Iron

**Diaphragm Materials**

- Buna-N/Nylon
- Stainless Steel
- Viton/Nomex
- Jorlon

**Shutoff**

- Hard Seat — ANSI Class IV
- Soft Seat — ANSI Class VI (for bubble-tight shutoff)

**Spring Ranges: PSI (BAR)**

Range		
Size	PSI	Bar
1/4", 3/8", 1/2" (DN8, DN10, DN15)	2-7, 5-15, 10-55 50-160, 150-200	0,14-0,48; 0,34-1,0; 0,69-3,8; 3,4-11,0; 10,3-13,8
3/4" & 1" (DN20 & DN25)	3-10, 5-20, 15-45 35-70, 60-105 95-140, 130-180	0,21-0,69; 0,34-1,4; 1,0-3,1; 2,4-4,8; 4,1-7,2; 6,6-9,7; 9,0-12,4
1-1/4", 1-1/2", 2" (DN32, DN40, DN50)	2-16, 10-25, 20-65 55-100, 90-160	0,14-1,1; 0,69-1,7; 1,4-4,5 3,8-6,9; 6,2-11,0

**Maximum Inlet Pressure:** 300 psi (20,68 bar)

**Maximum Temperature:** 200°F (93°C) with Buna-N plug and diaphragm; 425°F (218°C) with Viton plug and Viton or SST diaphragm; 500°F (260°C) with metal seat and SST diaphragm.

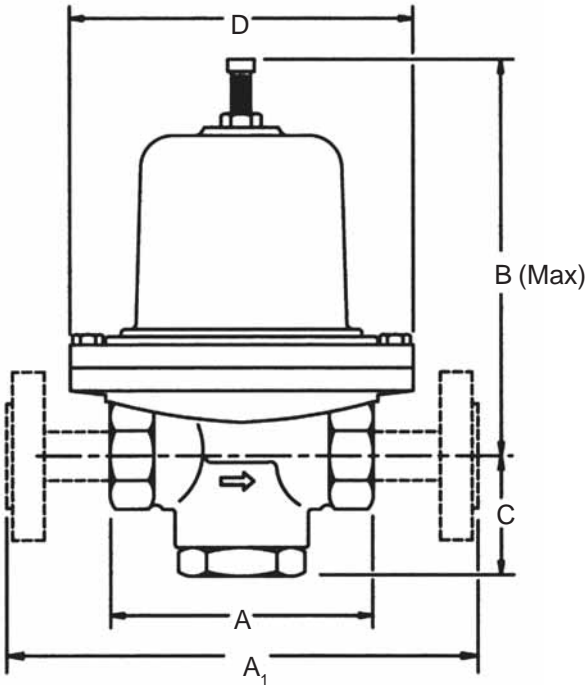
**Minimum Temperature (with SST plug & diaphragm):** -20°F (-29°C) with Buna-N plug and diaphragm; 0°F (-18°C) with Viton plug and diaphragm; -15°F (-26°C) with SST diaphragm and SST or Viton plug; -20°F (-29°C) with SST diaphragm and Buna-N plug.

**Cv (Kv) Values — MK68G**

Valve Size	Valve Cv (Kv)	
1/4" (DN8)	Standard	2.2 (1,89)
1/4" (DN8)	Optional	0.21 (0,18); 0.42 (0,36); 0.84 (0,72); 1.6 (1,38)
3/8" (DN10)	Standard	2.6 (2,24)
3/8" (DN10)	Optional	0.21 (0,18); 0.42 (0,36); 0.84 (0,72); 1.6 (1,38);
1/2" (DN15)	Standard	2.9 (2,49)
1/2" (DN15)	Optional	0.21 (0,18); 0.42 (0,36); 0.84 (0,72); 1.6 (1,38)
3/4" (DN20)	Standard	7.0 (6,02)
3/4" (DN20)	Optional	0.21 (0,18); 0.42 (0,36); 0.84 (0,72); 1.6 (1,38); 2.9 (2,49); 4.4 (3,78); 5.2 (4,47)
1" (DN25)	Standard	7.7 (6,62)
1" (DN25)	Optional	0.21 (0,18); 0.42 (0,36); 0.84 (0,72); 1.6 (1,38); 2.9 (2,49); 4.4 (3,78); 5.6 (4,82)
1-1/4" (DN32)	Standard	15.5 (13,33)
1-1/4" (DN32)	Optional	13.5 (11,61)
1-1/2" (DN40)	Standard	16.5 (14,19)
1-1/2" (DN40)	Optional	13.5 (11,61)
2" (DN50)	Standard	19.0 (16,34)
2" (DN50)	Optional	17.0 (14,62)
2" (DN50)	Optional	13.5 (11,61)

Pressure Reducing Factor,  $F_L$ : 0.9

**DIMENSIONS**



■ Flanged Ends

Size	ANSI Flange	Dimensions (Inches)				Weight (lbs.)
		A1*	B	C	D	
1/2"	150#	9.50	7.56	2.56	5.00	13
	300#	9.75	7.56	2.56	5.00	16
3/4"	150#	9.50	9.37	2.62	6.87	24
	300#	9.75	9.37	2.62	6.87	27
1"	150#	9.50	9.37	2.62	6.87	24
	300#	9.75	9.37	2.62	6.87	27
1-1/4"	150#	13.00	16.75	3.87	9.37	74
	300#	13.25	16.75	3.87	9.37	77
1-1/2"	150#	13.00	16.75	3.87	9.37	74
	300#	13.25	16.75	3.87	9.37	81
2"	150#	13.00	16.75	3.87	9.37	78
	300#	13.25	16.75	3.87	9.37	83

\* Not to ANSI

■ Flanged Ends, Metric

Size (DN)	Flange (PN)	Dimensions (mm)				Weight (kg)
		A1*	B	C	D	
15	10/16	241	192	65	127	5,9
	25/40	248	192	65	127	7,3
20	10/16	241	238	66,5	174	10,9
	25/40	248	238	66,5	174	12,2
25	10/16	241	238	66,5	174	10,9
	25/40	248	238	66,5	174	12,2
32	10/16	330	425,5	98	238	33,6
	25/40	337	425,5	98	238	34,9
40	10/16	330	425,5	98	238	33,6
	25/40	337	425,5	98	238	36,7
50	10/16	330	425,5	98	238	35,4
	25/40	337	425,5	98	238	37,6

\* Not to DIN

■ Threaded Ends

Size	Dimensions (Inches)				Weight (lbs.)
	A	B	C	D	
1/4"	5.00	7.56	2.56	5.00	11
3/8"	5.00	7.56	2.56	5.00	11
1/2"	5.00	7.56	2.56	5.00	11
3/4"	5.00	9.37	2.62	6.87	20
1"	5.00	9.37	2.62	6.87	20
1-1/4"	7.50	16.75	3.87	9.37	68
1-1/2"	7.50	16.75	3.87	9.37	68
2"	7.50	16.75	3.87	9.37	68

■ Threaded Ends, Metric

Size (DN)	Dimensions (mm)				Weight (kg)
	A	B	C	D	
8	127	192	65	127	5,0
10	127	192	65	127	5,0
15	127	192	65	127	5,0
20	127	238	66,5	174	9,1
25	127	238	66,5	174	9,1
32	190,5	425,5	98	238	30,8
40	190,5	425,5	98	238	30,8
50	190,5	425,5	98	238	30,8

## ORDER SCHEMATIC

To specify a MK68G Pressure Regulator, build a model number by making a selection from each category in the Product Designator Coding System below.

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>

1	Model	
68G	Globe-Style	

2	Size	
025	1/4" (DN8)	
038	3/8" (DN12)	
050	1/2" (DN15)	
075	3/4" (DN20)	
100	1" (DN25)	
125	1-1/4" (DN32)	
150	1-1/2" (DN40)	
200	2" (DN50)	

3	Body Material	
DI	Ductile Iron	
CS	Carbon Steel (WCB)	
S6	Stainless Steel (CF8M)	

4	End Connections	
PT	NPT	
BT	BSPT	
BP	BSPP	
SW	FSW	
F5	150# FE	
F3	300# FE	

5	Plug Seat	CV (Kv)
B	Buna-N	1 0.21 (0,18)
V	Viton	2 0.42 (0,36)
J	EPDM	3 0.84 (0,72)
M	Hard	4 1.6 (1,4)
		5 2.2 (1,9)
		6 2.6 (2,2)
		7 2.9 (2,5)
		8 4.4 (3,8)
		9 5.2 (4,5)
		B 5.6 (4,8)
		F 7.0 (6,0)
		G 7.7 (6,6)
		M 13.5 (11,6)
		P 15.5 (13,4)
		Q 16.5 (14,2)
		S 17.0 (14,7)
		W 19.0 (16,4)
ZZ	Non-standard	

6	Range, PSI, BAR				
		1/4", 3/8", 1/2"		3/4", 1"	
	C4	2-7 (0,14-0,18)	C6	3-10 (0,21-0,69)	
	27	5-15 (0,34-1,03)	28	5-20 (0,34-1,38)	
	CA	10-55 (0,69-3,79)	CB	15-45 (1,03-3,10)	
	CL	50-160 (3,45-11,03)	CF	35-70 (2,41-4,83)	
	CV	150-200 (10,34-13,79)	CN	60-105 (4,14-7,24)	
			CQ	95-140 (6,55-9,65)	
			CT	130-180 (8,96-12,41)	
		1-1/4", 1-1/2", 2"			
	12	2-16 (0,14-1,10)			
	32	10-25 (0,69- 1,72)			
	60	20-65 (1,38-4,48)			
	CM	55-100 (3,79-6,89)			
	CP	90-160 (6,21-11,03)			

7	Diaphragm	
	BN	Buna-N
	VI	Viton
	S6	Stainless Steel
	JL	Jorlon

8	Actuator	
	MD	For Metal Diaphragm
	ED	For Elastomer Diaphragm

9	Accessories	
	00	None
	SC	Clean for oil-free service
	O2	Oxygen cleaned
	ZZ	Non-Standard