

## Diaphragm Valves

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*diaphragm valves*

### **GO Regulator**

405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303

Phone (864) 574-7966 Fax (864) 574-5608

www.goreg.com • sales@goreg.com

## DV1 Series

### 2-way Diaphragm Valves

The DV1 Series Diaphragm Valves are totally free of springs, bellows, packing, o-rings and lubricants in the process wetted area. Metal-to-metal seals to atmosphere ensure that there is no leaching of undesirable elements into the flow stream, and no leakage of process material into the atmosphere. Elgiloy® diaphragms ensure the utmost in corrosion resistance and life span.



diaphragm valves

#### Typical Applications

- Analytical Instrumentation
- Petrochemical
- Pharmaceutical
- Chemical

#### Features & Benefits

- 2-way on/off control
- Metal-to-metal seals to atmosphere
- Wide variety of materials for virtually all applications
- No dynamic O-rings, springs, or lubricant in wetted flow path
- Very low internal volume (0.42cc)
- Manual ¼-plus turn or pneumatic actuation
- Pressures from vacuum (50 torr) to 3600 psig (248 bar)\*
- 40µ sintered stainless steel air inlet filter extends life of pneumatic actuator

\* Valves cleaned for oxygen service are limited to 3000 psig (207 bar).

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# DV1 Series

## Manual 1/4-plus Turn Valves



### Technical Data

<b>BODY</b>	316L stainless steel, brass, Monel® and Hastelloy® C-276
<b>SEATS</b>	PCTFE (Kel-F®), Polyimide, Tefzel® and PEEK™
<b>DIAPHRAGMS</b>	Elgiloy® AMS 5876
<b>ORIFICE SIZE</b>	0.110" (2.8 mm)
<b>FLOW CAPACITY</b>	0.17 Cv
<b>VALVE INTERNAL VOLUME*</b>	0.42cc
<b>LEAKAGE</b>	1 × 10 <sup>-9</sup> cc/sec helium (inboard)

\* Dead volume in machined passages of the valve body between mounting surface and sealing diaphragm(s).

### Operating Pressures

<b>OPERATING PRESSURE*</b>	Vacuum (50 torr) to 3600 psig (248 bar)
<b>PROOF PRESSURE</b>	7200 psig
<b>BURST PRESSURE</b>	14,400 psig

\* Valves cleaned for oxygen service are limited to 3000 psig (207 bar).

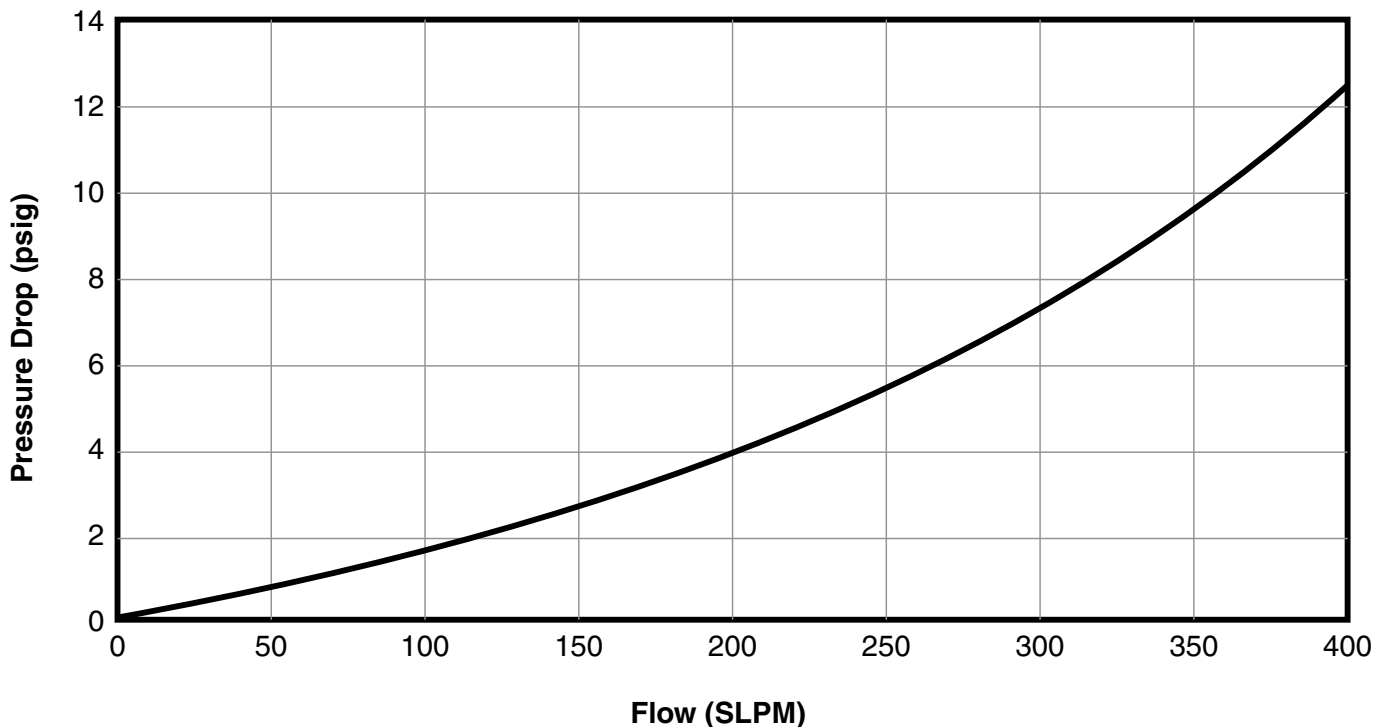
### Operating Temperatures\*

SEAT MATERIAL	1/4-PLUS TURN TEMPERATURE
Tefzel®	-40° F to +140° F (-40° C to +60° C)
PCTFE (Kel-F®)	-40° F to +300° F (-40° C to +149° C)
Polyimide (Vespel®)	-40° F to +400° F (-40° C to +204° C)
PEEK™	-40° F to +500° F (-40° C to +260° C)

\*Note: Brass bodies are limited to 140° F (60° C).

## Pressure Drop vs. Flow Curve

**DV1**  
Pressure Drop vs. Flow  
500 psig Process Pressure



Note: Flow chart applies to all 2-way DV1 Series diaphragm valves

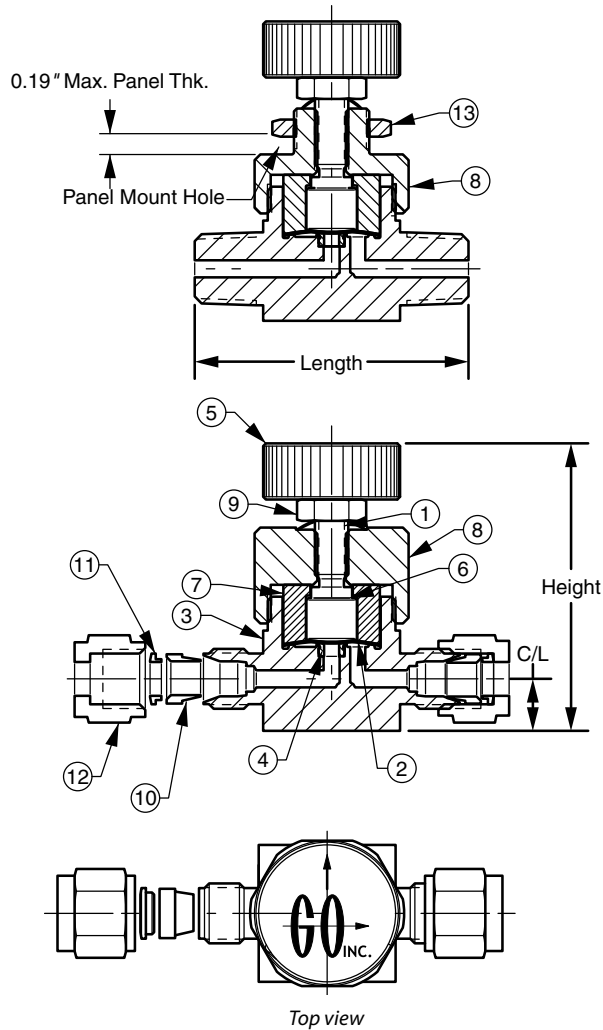
# DV1 Series

## Materials of Construction

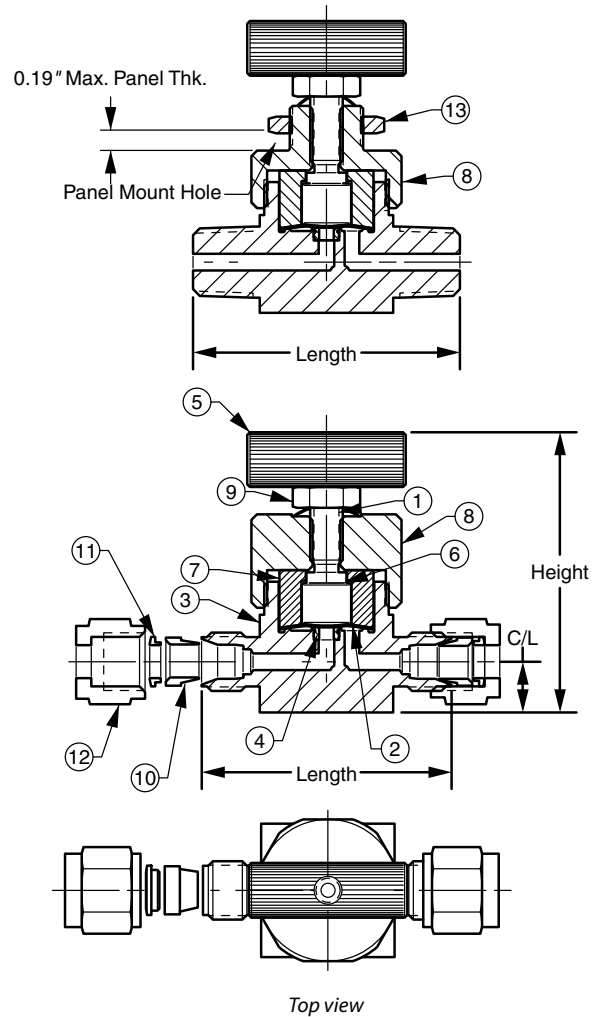
#	PART	MATERIALS
1	Stem	17-4PH stainless steel, condition H900
2	Diaphragm*	Elgiloy® AMS 5876
3	Body*	316L stainless steel, Monel®, brass, Hastelloy® C-276
4	Seat*	PCTFE (Kel-F®), Polyimide (Vespel®), Tefzel®, PEEK™
5	Handle	316 stainless steel
6	Thrust plug	brass
7	Diaphragm retainer	316 stainless steel
8	Bonnet	316L stainless steel, Monel®, brass, Hastelloy® C-276
9	Handle nut	18-8 stainless steel
10	Front ferrule*	316L stainless steel, Monel®, brass, Hastelloy® C-276
11	Rear ferrule	316L stainless steel, Monel®, brass, Hastelloy® C-276
12	Nut	316L stainless steel, Monel®, brass, Hastelloy® C-276
13	Panel-mount nut	316L stainless steel, Monel®, brass, Hastelloy® C-276

\*Wetted components

### Manual ¼-plus turn Valves



### Optional T-handle Valves



## Dimensions

### Manual ¼-plus Turn Valves

END CONNECTION	LENGTH	HEIGHT	HANDLE RADIUS	C/L CENTER LINE	PANEL MOUNT HOLE	PANEL MOUNT THICK
¼" MNPT	2.00"	2.44"	0.90"	0.38"	0.57"	0.19"
¼" FNPT	2.00"	2.44"	0.90"	0.38"	0.57"	0.19"
½" Gyrolok®	1.71"	2.44"	0.90"	0.38"	0.57"	0.19"
¼" Gyrolok®	1.87"	2.44"	0.90"	0.38"	0.57"	0.19"
¼" NPT extended	3.15"	2.44"	0.90"	0.38"	0.57"	0.19"
6mm Gyrolok®	47.5mm	61.98mm	22.86mm	9.65mm	14.48mm	4.83mm
8mm Gyrolok®	47.5mm	61.98mm	22.86mm	9.65mm	14.48mm	4.83mm

# DV1 Series

## Pneumatic Actuated Valves



### Technical Data

<b>BODY</b>	316L stainless steel, brass, Monel® and Hastelloy® C-276
<b>SEATS</b>	PCTFE (Kel-F®), Polyimide (Vespel®), Tefzel® and PEEK™
<b>DIAPHRAGMS</b>	Elgiloy® AMS 5876
<b>ORIFICE SIZE</b>	0.110" (2.8 mm)
<b>FLOW CAPACITY</b>	0.17 Cv
<b>VALVE INTERNAL VOLUME*</b>	0.42cc
<b>LEAKAGE</b>	1 × 10 <sup>-9</sup> cc/sec helium (inboard)
<b>PNEUMATIC ACTUATOR</b>	Anodized aluminum standard (other materials optional) 40μ sintered stainless steel inlet air filter

\* Dead volume in machined passages of the valve body between mounting surface and sealing diaphragm(s).

### Operating Pressures Ratings

	SMALL DIAMETER	MEDIUM DIAMETER	LARGE DIAMETER
<b>VALVE WORKING PRESSURE*</b>	Vacuum (50 torr) to 500 psig	Vacuum (50 torr) to 800 psig	Vacuum (50 torr) to 3600 psig
<b>VALVE PROOF PRESSURE</b>	1000 psig	1600 psig	7200 psig
<b>VALVE BURST PRESSURE</b>	2000 psig	3600 psig	14,400 psig

\* Valves cleaned for oxygen service are limited to 3000 psig (207 bar).

### Operating Temperatures\*

SEAT MATERIAL	TEMPERATURE
Tefzel®	-40° F to +140° F (-40° C to +60° C)
PCTFE/Kel-F®	-40° F to +300° F (-40° C to +149° C)
Polyimide/Vespel®	-40° F to +400° F (-40° C to +204° C)
PEEK™	-40° F to +400° F (-40° C to +204° C)

\*Note: Brass bodies are limited to 140° F (60° C).

## Air Actuation Pressure Requirements

psig nominal

PRESSURE	SMALL DIAMETER	MEDIUM DIAMETER	LARGE DIAMETER
Valve Operating Pressure	Vacuum (50 torr) to 500 psig	Vacuum (50 torr) to 800 psig	Vacuum (50 torr) to 3600 psig
Actuation Pressure Normally Closed	19 psig (0–250 psig process pressure)	14 psig (0–250 psig process pressure)	50 psig (0–3600 psig process pressure)
Actuation Pressure Normally Open	39 psig (251–500 psig process pressure)	21 psig (251–500 psig process pressure)	
		33 psig (501–800 psig process pressure)	
	36 psig (500 psig process pressure)	32 psig (800 psig process pressure)	N/A

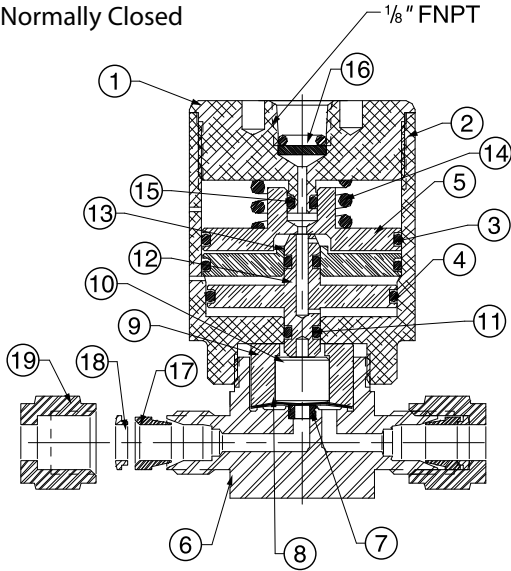
Note: Actuation/Pressure Curves available on the web at [www.goreg.com](http://www.goreg.com)

# DV1 Series

## Materials of Construction

### Pneumatic Actuated Valves

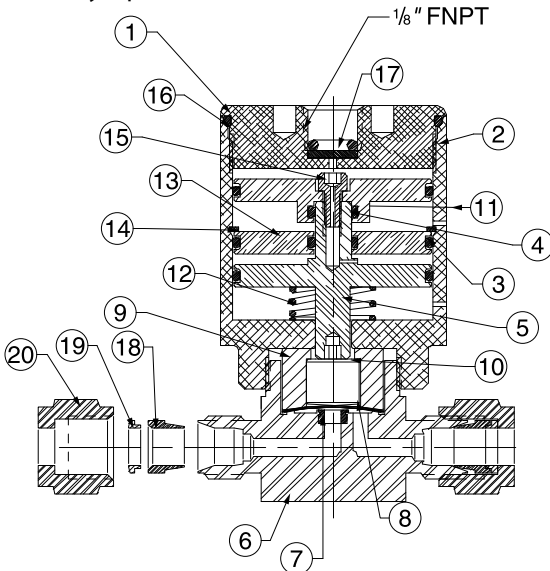
Normally Closed



#	PART	MATERIALS
1	Housing cap	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
2	Housing	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
3	O-rings	Viton®
4	O-rings	Viton®
5	Upper piston	brass
6	Body*	316L stainless steel, brass, Monel® & Hastelloy® C-276
7	Seat*	PCTFE (Kel-F®), Polyimide (VespeI®), Tefzel®, PEEK™
8	Diaphragm*	Elgiloy® AMS 5876
9	Diaphragm retainer	316 stainless steel
10	Thrust plug	brass
11	O-ring	Viton®
12	Lower piston	brass
13	Chamber separator	brass
14	Spring	NISPAN
15	O-ring	Viton®
16	Sintered filter	316 stainless steel, 40µ
17	Front ferrule*	316L stainless steel, brass, Monel® & Hastelloy® C-276
18	Rear ferrule	316L stainless steel, brass, Monel® & Hastelloy® C-276
19	Nut	316L stainless steel, brass, Monel® & Hastelloy® C-276

\*Wetted components

Normally Open



#	PART	MATERIALS
1	Housing cap	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
2	Housing	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
3	O-rings	Viton®
4	O-rings	Viton®
5	Piston	brass
6	Body*	316L stainless steel, brass, Monel® & Hastelloy® C-276
7	Seat*	PCTFE (Kel-F®), Polyimide (VespeI®), Tefzel®, PEEK™
8	Diaphragm*	Elgiloy® AMS 5876
9	Diaphragm retainer	316 stainless steel
10	Thrust plug	brass
11	Upper piston	brass
12	Spring	302 stainless steel
13	Chamber separator	brass
14	Retaining ring	302 stainless steel
15	Cap screw	Alloy steel
16	O-ring	Viton®
17	Sintered filter	316 stainless steel, 40µ
18	Front ferrule	316L stainless steel, brass, Monel® & Hastelloy® C-276
19	Rear ferrule	316L stainless steel, brass, Monel® & Hastelloy® C-276
20	Nut	316L stainless steel, brass, Monel® & Hastelloy® C-276

\*Wetted components

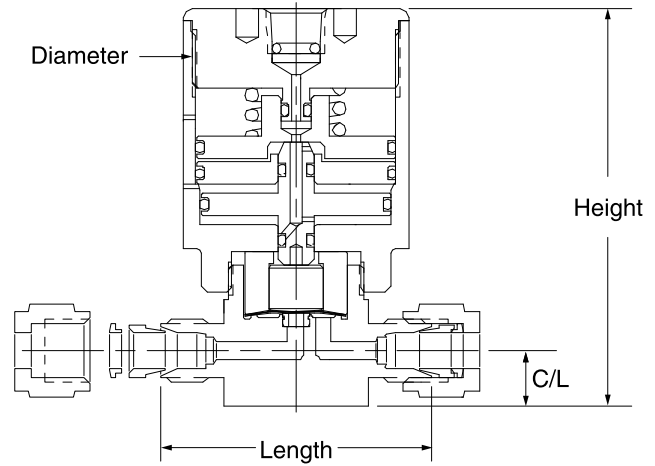
# DV1 Series

## Dimensions

### Pneumatic Small Diameter Actuator

END CONNECTION	LENGTH	HEIGHT	ACTUATOR DIAMETER	C/L CENTER LINE
¼" MNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
¼" FNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
⅜" Gyrolok®	1.71" (4.3 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
¼" Gyrolok®	1.87" (4.8 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
¼" NPT extended	3.15" (8.0 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
6mm Gyrolok®	47.5mm	69.85mm	33.27mm	9.65mm
8mm Gyrolok®	47.5mm	69.85mm	33.27mm	9.65mm

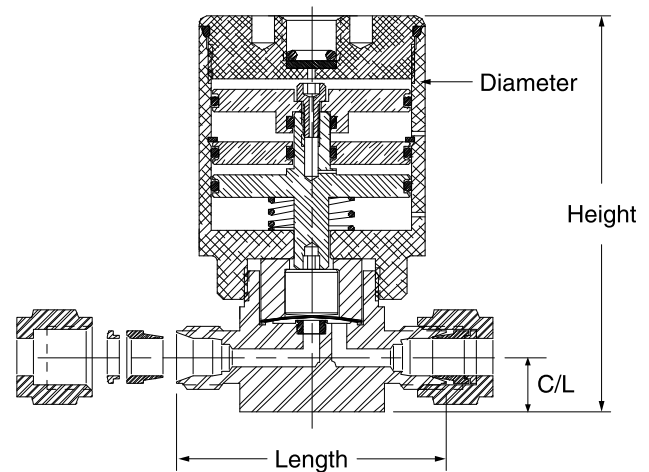
Normally Closed



### Pneumatic Medium Diameter Actuator

END CONNECTION	LENGTH	HEIGHT	ACTUATOR DIAMETER	C/L CENTER LINE
¼" MNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
¼" FNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
⅜" Gyrolok®	1.71" (4.3 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
¼" Gyrolok®	1.87" (4.8 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
¼" NPT extended	3.15" (8.0 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
6mm Gyrolok®	47.5mm	69.85mm	39.62mm	9.65mm
8mm Gyrolok®	47.5mm	69.85mm	39.62mm	9.65mm

Normally Open



### Pneumatic Large Diameter Actuator

END CONNECTION	LENGTH	HEIGHT	ACTUATOR DIAMETER	C/L CENTER LINE
¼" MNPT	2.00" (5.1 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
¼" FNPT	2.00" (5.1 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
⅜" Gyrolok®	1.71" (4.3 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
¼" Gyrolok®	1.87" (4.8 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
¼" NPT extended	3.15" (8.0 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
6mm Gyrolok®	47.5mm	82.55mm	59.94mm	9.65mm
8mm Gyrolok®	47.5mm	82.55mm	59.94mm	9.65mm

# DV1 Series

## How to Order

Standard items in bold

**DV1 - 1 C 2 5 C F4 F4 H 0**

### BODY MATERIAL

- 1 316L stainless steel**
- 2 Brass
- 3 Nickel-plated brass
- 4 Monel®
- 6 Hastelloy® C-276

### ACTUATION METHOD

- C** Air actuated—normally closed
- M** Manual ¼-plus turn round handle
- O** Air actuated—normally open
- T** Manual ¼-plus turn T-handle

### ACTUATOR SIZE

- X** Manually operated
- 1** Air actuated—small (500 psig max.)
- 2** Air actuated—medium (800 psig max.)
- 3** Air actuated—large (3,600 psig max. - surface mount only)

### ACTUATOR MATERIAL

- X** Manually operated
- 1** 316L stainless steel
- 4 Monel®
- 5 Aluminum**
- 6 Hastelloy® C-276

### MAXIMUM PROCESS PRESSURE

- A** 250 psig
- B** 500 psig
- C** 800 psig
- D** 3,600 psig (surface mount only)
- E** 2,000 psig

### INLET CONNECTION TYPE\*

- C1** Male Gyrolok® ¼"
- G1** Gyrolok® ¼"
- G2** Gyrolok® ⅜"
- G4** Gyrolok® ½"
- T6** Gyrolok® 6mm
- T8** Gyrolok® 8mm
- F4** **Female NPT ¼"**
- M4** Male NPT ¼"
- B4** Female BSP/ISO 7/1 ¼"
- D4** Male BSP/ISO 7/1 ¼"
- X4** Extended, ¼" male NPT
- SM** Surface mount (ANSI/ISA SP76 compliant)
- V4** ¼" VCR®-compatible swivel female
- R4** ¼" VCR®-compatible fixed male
- W4** ¼" Tube stub
- S4** ¼" Tube socket weld

### OPTION

- 0** None
- 1** Cleaned for oxygen service\*\*
- 4** Panel mount (manual valves only)
- 6** Panel mount & cleaned for oxygen service (manual valves only)\*\*

### SEAT MATERIAL

- A** Tefzel® (800 psig max.)
- C** Polyimide (Vespe®)
- H** **PCTFE (Kel-F®)**
- Q** PEEK™

### OUTLET CONNECTION TYPE\*

- C1** Male Gyrolok® ¼"
- G1** Gyrolok® ¼"
- G2** Gyrolok® ⅜"
- G4** Gyrolok® ½"
- T6** Gyrolok® 6mm
- T8** Gyrolok® 8mm
- F4** **Female NPT ¼"**
- M4** Male NPT ¼"
- B4** Female BSP/ISO 7/1 ¼"
- D4** Male BSP/ISO 7/1 ¼"
- X4** Extended, ¼" male NPT
- SM** Surface mount (ANSI/ISA SP76 compliant)
- V4** ¼" VCR®-compatible swivel female
- R4** ¼" VCR®-compatible fixed male
- W4** ¼" Tube stub
- S4** ¼" Tube socket weld

\* Note with the exception of male NPT and female NPT, inlet and outlet connections must be of the same type.

\*\* Valves cleaned for oxygen service are limited to 3000 psig (207 bar). Body will be marked that is cleaned for oxygen.



# GO REGULATOR

## DV3 Series

### 3-way Diaphragm Valves

The DV3 Series Diaphragm Valves are totally free of springs, bellows, packing, o-rings and lubricants in the process wetted area. Metal-to-metal seals to atmosphere ensure that there is no leaching of undesirable elements into the flow stream and no leakage of process material into the atmosphere. Elgiloy® diaphragms ensure the utmost in corrosion resistance and life span.



#### Typical Applications

- Analytical Instrumentation
- Petrochemical
- Pharmaceutical
- Chemical

#### Technical Data

<b>BODY</b>	316L stainless steel, Monel® and Hastelloy® C-276
<b>SEATS</b>	PCTFE (Kel-F®), Polyimide (Vespel®), Tefzel® and PEEK™
<b>DIAPHRAGMS</b>	Elgiloy® AMS 5876
<b>ORIFICE SIZE</b>	0.110"
<b>FLOW CAPACITY</b>	0.17 Cv
<b>VALVE INTERNAL VOLUME*</b>	0.25cc
<b>LEAKAGE</b>	1 × 10 <sup>-9</sup> cc/sec helium (inboard)

#### Operating Pressures

<b>OPERATING PRESSURE</b>	Vacuum (50 torr) to 800 psig
<b>PROOF PRESSURE</b>	1600 psig
<b>BURST PRESSURE</b>	3200 psig

\* Dead volume in machined passages of the valve body between mounting surface and sealing diaphragm(s).

#### Features & Benefits

- 3-way switching on/off control
- Metal-to-metal seals to atmosphere
- Wide variety of materials for virtually all applications
- No o-rings, springs, or lubricant in wetted flow path
- Very low internal volume (0.25cc)
- Pneumatic actuation
- Pressures from vacuum to 800 (50 torr) psig (55.2 bar)
- 40μ sintered stainless steel air inlet filter extends life of pneumatic actuator

#### Operating Temperatures

SEAT MATERIAL	TEMPERATURE
Tefzel®	-40° F to +140° F (-40° C to +60° C)
PCTFE (Kel-F®)	-40° F to +300° F (-40° C to +149° C)
Polyimide (Vespel®)	-40° F to +400° F (-40° C to +204° C)
PEEK™	-40° F to +400° F (-40° C to +204° C)

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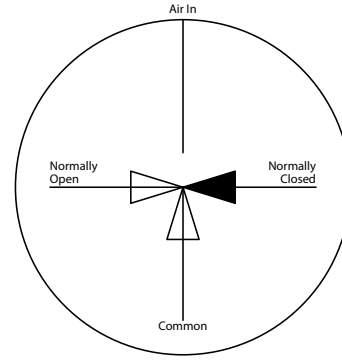
diaphragm valves

# DV3 Series

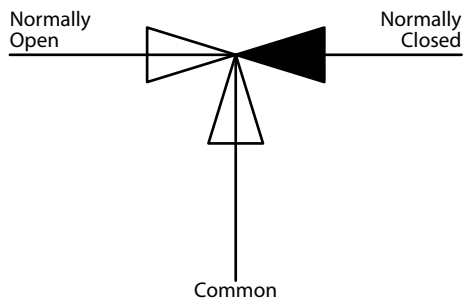
## Air Actuation Pressure Requirements

(psig nominal)

	PROCESS PRESSURE	ACTUATION PRESSURE
SINGLE PISTON	0-250	44
	251-500	76
	501-800	100
DOUBLE PISTON	0-250	22
	251-500	38
	501-800	50

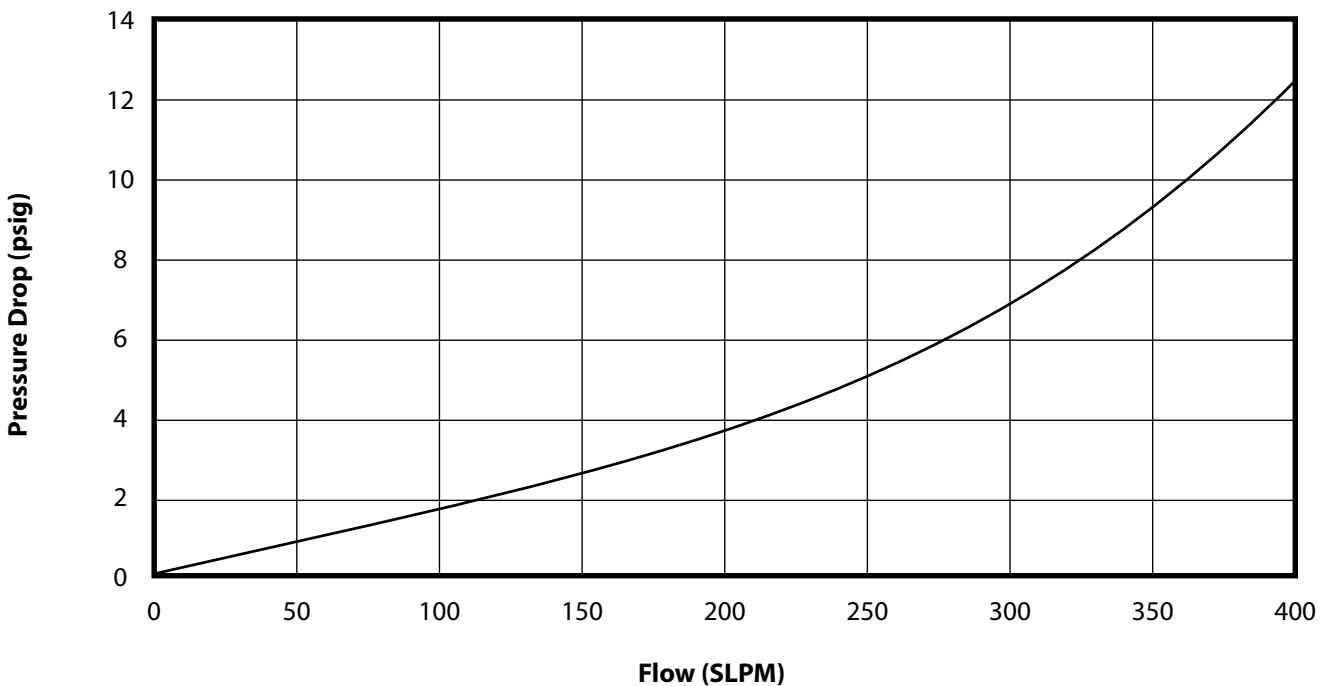


## Typical Flow Schematic



## Pressure Drop vs. Flow Curve

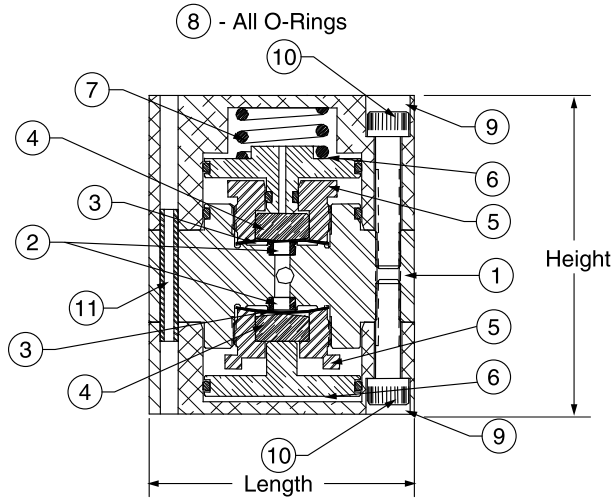
**DV3**  
**Pressure Drop vs. Flow**  
 500 psig Process Pressure



# DV3 Series

## Materials of Construction

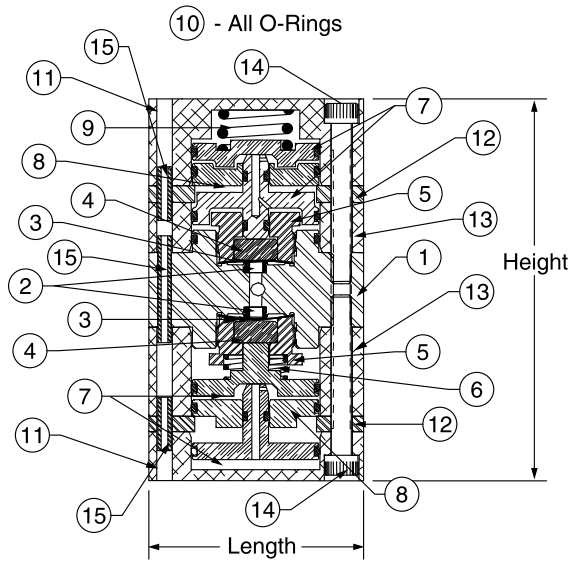
### Single Piston Actuators



#	PART	MATERIALS
1	Body*	316L stainless steel, Monel® & Hastelloy® C-276
2	Seat*	PCTFE (Kel-F®), Polyimide (VespeI®), Tefzel®, PEEK™
3	Diaphragm*	Elgiloy® AMS 5876
4	Thrust plug	brass
5	Diaphragm retainer	316 stainless steel
6	Piston	brass
7	Spring	302 stainless steel
8	O-rings	Viton®
9	Cap	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
10	Cap screw	18-8 stainless steel
11	Spring pin	420 stainless steel

\*Wetted components

### Double Piston Actuators



#	PART	MATERIALS
1	Body*	316L stainless steel, Monel® & Hastelloy® C-276
2	Seat*	PCTFE (Kel-F®), Polyimide (VespeI®), Tefzel®, PEEK™
3	Diaphragm*	Elgiloy® AMS 5876
4	Thrust plug	brass
5	Diaphragm retainer	316 stainless steel
6	Spring	302 stainless steel
7	Piston	brass
8	Chamber separator	brass
9	Spring	302 stainless steel
10	O-rings	Viton®
11	Cap	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
12	Ledge plate	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
13	Riser	Aluminum, 316L stainless steel, Monel® & Hastelloy® C-276
14	Cap screw	18-8 stainless steel
15	Spring pin	420 stainless steel

\*Wetted components

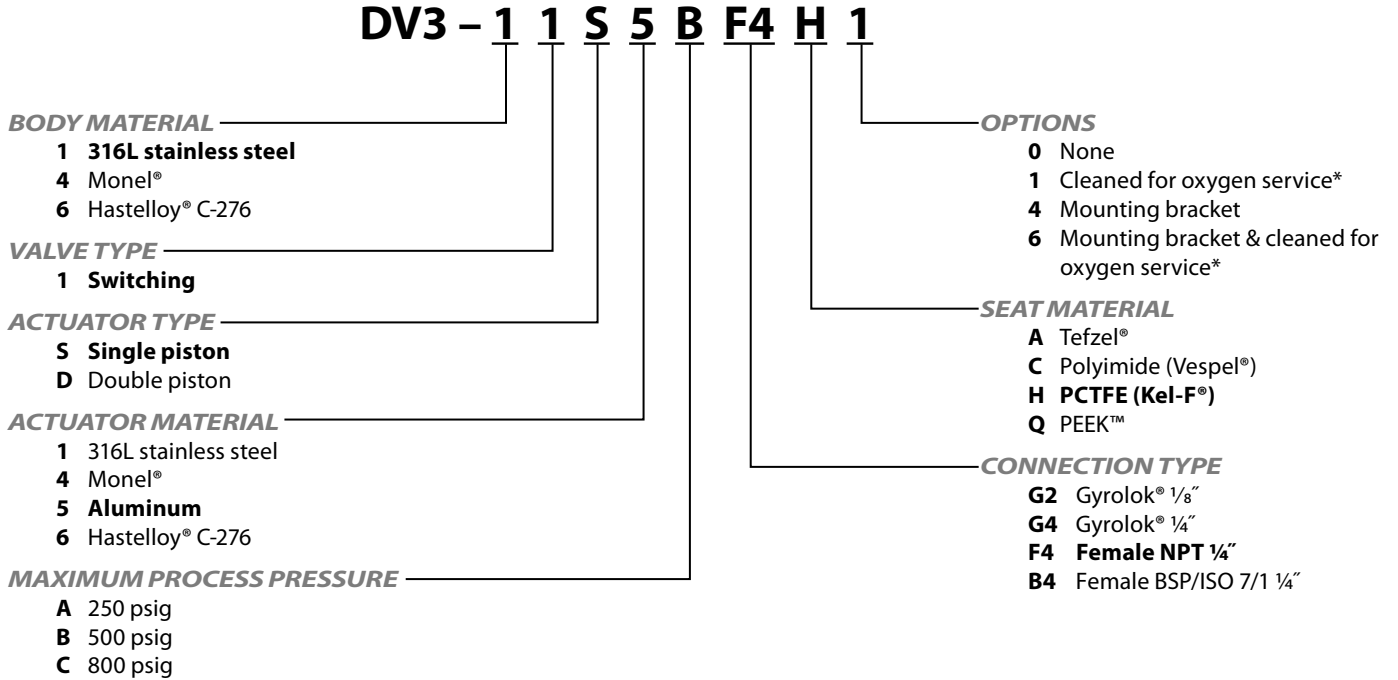
## Dimensions

PISTON TYPE	LENGTH	HEIGHT
Single	2.0" (50.8 mm)	2.52" (64.01 mm)
Double	2.0" (50.8 mm)	3.67" (93.22 mm)

# DV3 Series

## How To Order

Standard items in bold



\* Valve body will be marked that it is cleaned for oxygen.

## ***For Your Safety***

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It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

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*Viton® is a registered trademark of DuPont Dow Elastomers.*

*Vespel® is a registered trademark of E.I. du Pont de Nemours and Company.*

*Tefzel® is a registered trademark of the DuPont Company.*

*Monel® is a registered trademark of Special Metals Corporation.*

*Hastelloy® is a registered trademark of Haynes International, Inc.*

*Kel-F® is a registered trademark of 3M Company.*

*Elgiloy® is a registered trademark of Elgiloy Specialty Metals.*

*PEEK™ is a trademark of Victrex PLC.*

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[www.3m.com](http://www.3m.com)

[www.elgiloy.com](http://www.elgiloy.com)

[www.victrex.com](http://www.victrex.com)



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PO Box 4866 (29305)  
Spartanburg, SC 29303  
Tel (864) 574-7966  
Fax (864) 587-5608  
[www.circortechnologies.com](http://www.circortechnologies.com)

**Circle Seal Controls, Inc.**

2301 Wardlow Circle  
Corona, CA 92880  
Tel (951) 270-6200  
Fax (951) 270-6201  
[www.circle-seal.com](http://www.circle-seal.com)

**GO Regulator**

405 Centura Court  
PO Box 4866 (29305)  
Spartanburg, SC 29303  
Tel (864) 574-7966  
Fax (864) 587-5608  
[www.goreg.com](http://www.goreg.com)

**HOKE, Inc.**

405 Centura Court  
PO Box 4866  
Spartanburg, SC 29303  
Tel (864) 574-7966  
Fax (864) 587-5608  
[www.hoke.com](http://www.hoke.com)

**CIRCOR Instrumentation, Ltd.**

1-3 Bouverie Road  
Harrow  
Middlesex, HA1 4HB  
UK  
Tel +44 (0) 20 8423 0113  
Fax +44 (0) 20 8864 7008  
[www.circor.co.uk](http://www.circor.co.uk)

**HOKE Controls**

1901 Lynx Place  
Ontario, CA 91761  
Tel (909) 923-3770  
Fax (909) 923-2550

**Panels Plus**

1901 Lynx Place  
Ontario, CA 91761  
Tel (909) 923-3770  
Fax (909) 923-2550  
[www.circor-panelsplus.com](http://www.circor-panelsplus.com)

**CIRCOR Tech**

405 Centura Court  
PO Box 4866 (29305)  
Spartanburg, SC 29303  
Tel (864) 574-7966  
Fax (864) 587-5608  
[www.circortech.com](http://www.circortech.com)

**HOKE GmbH**

Weitzesweg 11  
Postfach 15 41  
D-61118 Bad Vilbel–Dortelweil  
Germany  
Tel +49-6101-82 56 0  
Fax +49-6101-82 56 40  
[www.hoke.de](http://www.hoke.de)

**TOMCO**

51 Zima Park  
PO Box 4866 (29305)  
Spartanburg, SC 29303  
Tel (864) 574-7966  
Fax (864) 587-5608  
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