

The 8290 Series consists of 2-way direct acting valves available in normally closed or normally open constructions. Built for demanding applications, these valves come in a straight-through body design made of bronze or stainless steel. There are many optional features including visual/ electrical position indicator or a stroke limiter.

The 8290 Series is suitable for the following applications:

- General Service (air, inert gas, water, oil, light slurries)
- Steam and Hot Water
- Auxiliary fluids within the food and beverage process (suffix "FB")

## Construction

Valve Parts in Contact with Fluids			
Part	32mm	50mm-125mm	50mm-125mm ①
Body	316L Stainless Steel	Bronze	316L Stainless Steel
Stem	316L Stainless Steel	431 Stainless Steel	431 Stainless Steel
Stuffing Box	316L Stainless Steel	Brass	303 Stainless Steel
Stuffing Box Seal	PTFE	PTFE Chevron	PTFE Chevron
Wiper Seal	FKM	FKM	FKM
Disc	316L Stainless Steel	Brass	304L Stainless Steel
Disc Seal	PTFE	PTFE	PTFE
Screw	316L Stainless Steel	-	-

① For all optional AISI 316L Stainless Steel constructions, contact ASCO

## Specifications

**Ambient Temperature Range:** 15°F to 140°F  
 (32°F to 122°F for proportional valves and water service)

**Pilot Fluid Temperature Range:** 15°F to 140°F  
 (32°F to 122°F for proportional valves and water service)

**Maximum Viscosity:** 2,700 SSU  
 For higher viscosity applications, please consult ASCO.

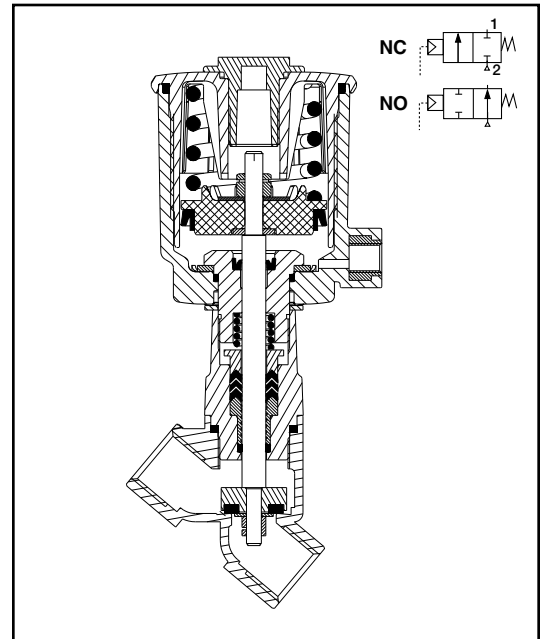
## Alternate Valve Constructions

- Oxygen service, add suffix "N"
- Medium vacuum service up to  $7 \times 10^{-3}$  Torr, add suffix "VM"
- Visual Position Indicator for normally closed valve with 32mm or 50mm operator, add suffix "VI" (note: position indicator standard on 63mm through 125mm operators).
- FDA CFR21 Compliant, add suffix "FB". See specifications table.
- NET-INOX treatment (stainless steel valve body pickled in nitric/hydrofluoric acid bath), add suffix "NI"
- All 316L Stainless Steel versions (available on request).

See page 222 for the following constructions:  
 Compact Positioner for proportional control  
 Signaling Box  
 Linear Position Indicator  
 Stroke Limiter

Visit [www.asco.com/8290Configurator](http://www.asco.com/8290Configurator) to create an 8290 assembly that fits

your needs. [www.valin.com](http://www.valin.com) | Phone: 844-385-3099 | Email: [CustomerService@valin.com](mailto:CustomerService@valin.com)



SPECIAL SERVICE VALVES

**Specifications (English units)**

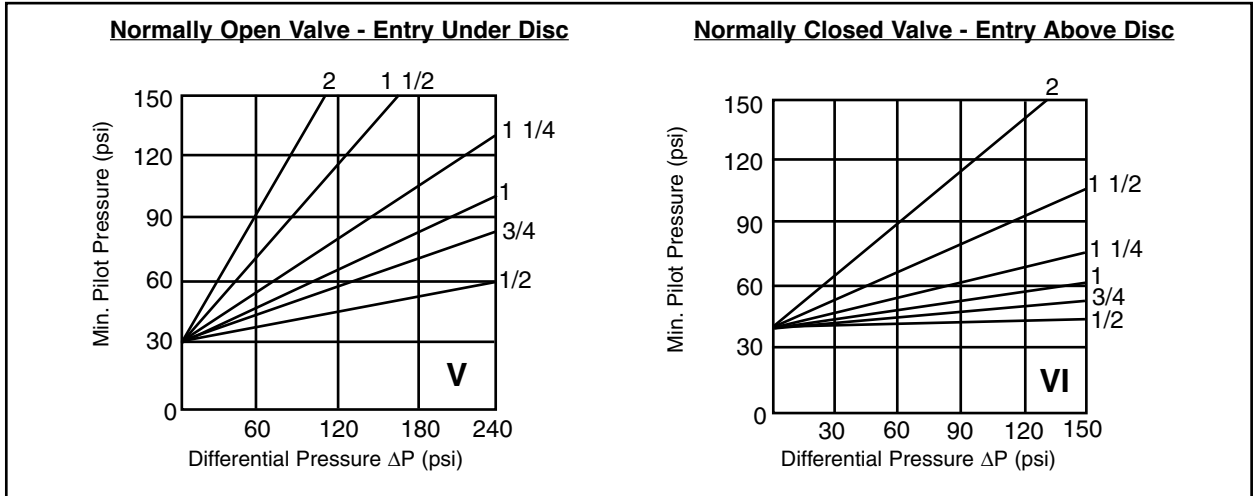
Pipe Size (in)	Orifice Size (in)	Cv Flow		Operating Pressure Differential (psi)			Max. Fluid Temp. °F	Bronze	Stainless Steel ① ④	Air or Water Pilot Pressure (psi)		Approx. Shipping Weight (lbs.)
				Min.	Max. Fluids	Max. Steam				Min.	Max.	
		On-Off	Prop.									
<b>32 mm Operator</b>												
<b>Normally Closed - Entry Under the Disc ③</b>												
3/8	3/8	2.3	-	0	240	150	366	-	8290A791	60	150	1.3
1/2	1/2	4.1	-	0	180	150	366	-	8290A792	60	150	1.4
3/4	3/4	7.6	-	0	90	90	366	-	8290A793	60	150	1.6
<b>Normally Open - Entry Under the Disc</b>												
3/8	3/8	2.3	-	0	240	150	366	-	8290A794	I ②	150	1.3
1/2	1/2	4.1	-	0	240	150	366	-	8290A795	I ②	150	1.4
3/4	3/4	7.6	-	0	200	150	366	-	8290A796	I ②	150	1.6
<b>Normally Closed - Entry Above the Disc for Rapid Cycling Steam Applications</b>												
3/8	3/8	2.3	-	0	-	150	366	-	8290A797	II ②	150	1.6
1/2	1/2	4.1	-	0	-	150	366	-	8290A798	II ②	150	1.4
3/4	3/4	7.6	-	0	-	150	366	-	8290A799	II ②	150	1.6
<b>50 mm Operator</b>												
<b>Normally Closed - Entry Under the Disc ③</b>												
1/2	1/2	5.7	5.3	0	240	150	366	8290A384	8290A393	60	150	2.7
3/4	3/4	11	8.3	0	150	150	366	8290A385	8290A394	60	150	2.9
1	1	15	-	0	90	90	366	8290A386	8290A395	60	150	3.7
<b>Normally Open - Entry Under the Disc</b>												
1/2	1/2	5.7	-	0	240	150	366	8290A387	8290A396	III ②	150	2.7
3/4	3/4	11	-	0	240	150	366	8290A388	8290A397	III ②	150	2.9
1	1	15	-	0	240	150	366	8290A389	8290A398	III ②	150	3.7
<b>Normally Closed - Entry Above the Disc for Rapid Cycling Steam Applications ③</b>												
1/2	1/2	5.7	-	0	-	150	366	8290A390	8290A399	IV ②	150	2.7
3/4	3/4	11	-	0	-	150	366	8290A391	8290A400	IV ②	150	2.9
1	1	15	-	0	-	150	366	8290A392	8290A401	IV ②	150	3.7
<b>63 mm Operator</b>												
<b>Normally Closed - Entry Under the Disc</b>												
1/2	1/2	5.7	-	0	240	150	366	8290B002	8290B045	38	150	3.6
3/4	3/4	11	8.3	0	240	150	366	8290B005	8290B048	60	150	3.9
1	1	19	17	0	150	150	366	8290B010	8290B053	60	150	4.7
1 1/4	1 1/4	32	24	0	90	90	366	8290A016	8290A059	60	150	6.0
1 1/2	1 1/2	52	33	0	60	60	366	8290A020	8290A063	60	150	8.0
2	2	68	46	0	40	40	366	8290A024	8290A067	60	150	10.0
<b>Normally Open - Entry Under the Disc</b>												
1/2	1/2	5.7	-	0	240	150	366	8290B026	8290B069	V ②	150	3.6
3/4	3/4	11	-	0	240	150	366	8290B027	8290B070	V ②	150	3.9
1	1	19	-	0	240	150	366	8290B028	8290B071	V ②	150	4.7
1 1/4	1 1/4	32	-	0	240	150	366	8290A030	8290A073	V ②	150	6.0
1 1/2	1 1/2	52	-	0	160	150	366	8290A032	8290A075	V ②	150	8.0
2	2	68	-	0	105	105	366	8290A034	8290A077	V ②	150	10.0
<b>Normally Closed - Entry Above the Disc for Rapid Cycling Steam Applications</b>												
1/2	1/2	5.7	-	0	-	150	366	8290B036	8290B079	VI ②	150	3.6
3/4	3/4	11	-	0	-	150	366	8290B037	8290B080	VI ②	150	3.9
1	1	19	-	0	-	150	366	8290B038	8290B081	VI ②	150	4.7
1 1/4	1 1/4	32	-	0	-	150	366	8290A039	8290A082	VI ②	150	6.0
1 1/2	1 1/2	52	-	0	-	150	366	8290A040	8290A083	VI ②	150	8.0
2	2	68	-	0	-	135	366	8290A042	8290A085	VI ②	150	10.0

① Available with NET-INOX treatment, add suffix "NI"; ② Minimum pilot pressure varies, see identified graph for appropriate values; ③ For Visual Position Indicator add suffix "VI". ④ For FDA CFR21 Compliance, add suffix "FB".

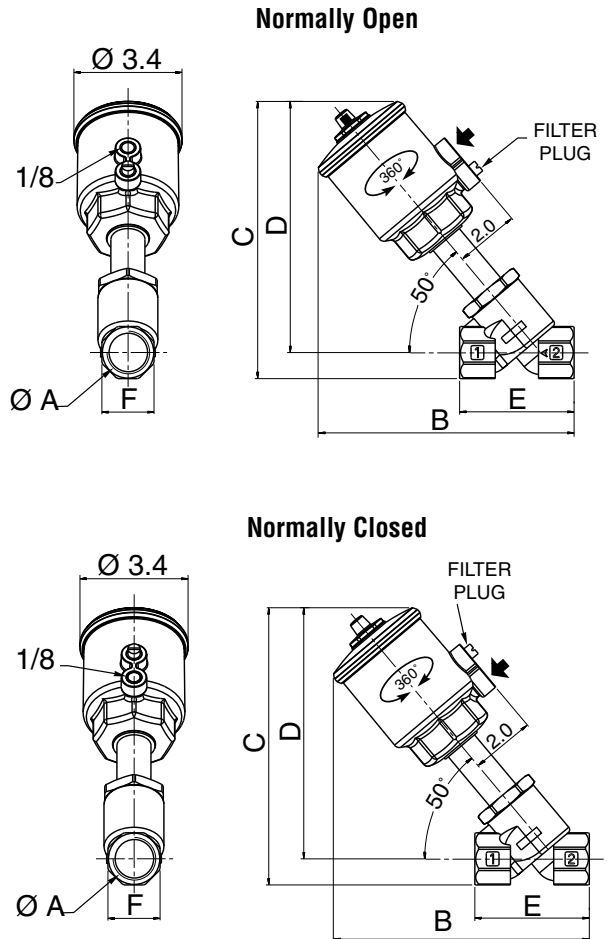
**SPECIAL SERVICE VALVES**

### Dimensions inches (mm)

#### 63 mm Operator Graphs for Steam and Fluids



63 mm Operator						
	ØA	B	C	D	E	F
in	1/2	6.70	7.20	6.60	2.56	1.06
in	3/4	6.80	7.30	6.70	2.95	1.26
in	1	7.20	7.70	6.90	3.54	1.61
in	1 1/4	8.54	9.01	8.03	4.33	1.97
in	1 1/2	8.82	9.64	8.46	4.72	2.36
in	2	9.80	10.20	8.82	5.90	2.76



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