







Air or Water Pilot Operated

Angle Body Multi-Purpose Valves

Bronze or 316L Stainless Steel Bodies 3/8" to 2 1/2" NPT

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 straightthrough 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

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 St	eel constructions, co	ntact ASCO.						

Specifications

Ambient Temperature Range: 15°F to 140°F (32°F to 122°F for proportional)

Pilot Fluid Temperature Range: 15°F to 140°F

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 x 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).
- 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 inside back cover for the following constructions: Compact Positioner for proportional control

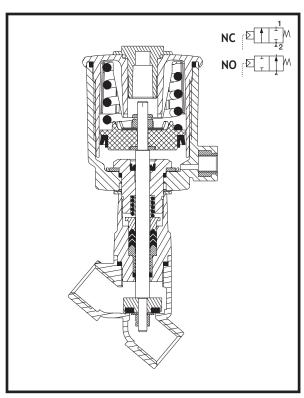
Compact Signaling Unit

Signaling Box

Linear Position Indicator

Stroke Limiter









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Specifications

Pipe Orifice			Operating Pressure Differential (psi)			Air or Water Pilot Pressure		Approx.				
	Size Dia.	Cv F	Cv Flow		M	ax.	Max. Fluid		Stainless	(psi)		Shipping Weight
(ins.)	(ins.)	On-Off	Prop.	Min.	Fluids	Steam	Temp.°F	Bronze	Steel ①	Min.	Max. (lbs.	
							32 mm Oper	ator		'		
lormally	Closed - Ent	ry Under	the Disc	3								
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
Vormally	Open - Entry	Under th	e Disc									
3/8	3/8	2.3	-	0	240	150	366	-	8290A794	12	150	1.3
1/2	1/2	4.1	-	0	240	150	366	-	8290A795	12	150	1.4
3/4	3/4	7.6	-	0	240	150	366	-	8290A796	12	150	1.6
	Closed - Ent		the Disc	-					020071100			
3/8	3/8	2.3	-	0	-	150	366	-	8290A797	(2)	150	1.3
1/2	1/2	4.1	_	0	_	150	366	-	8290A798	11 ②	150	1.4
3/4	3/4	7.6	_	0	_	150	366	_	8290A799	11 ②	150	1.6
J/ T	J)/ T	1.0		0		130	50 mm Oper		0230A133	11 &	130	1.0
lormally	Closed - Ent	ry Under	the Disc	<u></u>			Jo min Open	atoi				
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	2.7
1	1	15	0.3	0	90	90	366	8290A386	8290A394 8290A395	60	150	3.7
-			o Dies	U	90	90	300	029UA300	0290A393	00	150	3.1
	Open - Entry		e DISC		040	150	200	00004007	00004000	111.0	150	0.7
1/2	1/2	5.7	-	0	240	150	366	8290A387	8290A396	2	150	2.7
3/4	3/4	11	-	0	240	150	366	8290A388	8290A397	2	150	2.9
1	1	15	-	0	240	150	366	8290A389	8290A398	III ②	150	3.7
	Closed - Ent		tne Disc		Cycling St			00001000	22224222	n. o	450	
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
							63 mm Oper	ator				
	Closed - Ent	· -	the Disc									
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
Normally	Open - Entry	Under th	e Disc									
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
Vormally	Closed - Ent		the Disc	for Rapid	Cycling St		cations					
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
/ -				0		135	366	8290A042	8290A085	VI ②	150	10.0
2	2	68	'									

³ For Visual Position Indicator add suffix "VI".



An O'Keefe Controls Company



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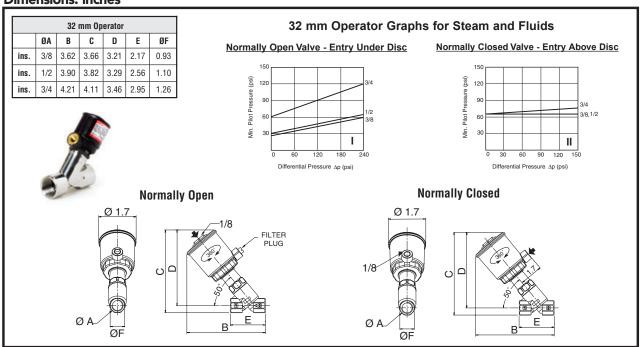
Angle Body Multi-Purpose Valves Bronze or 316L Stainless Steel Bodies

3/8" to 2 1/2" NPT

Specifications

Pipe Orifice		Operating P							Air or Pilot Pi	Water ressure	Approx. Shipping	
Size	Dia.	Cv I	Flow		M	ax.	Max. Fluid		Stainless	(psi	i) ②	Weight
(ins.)	(ins.)	On-Off	Prop.	Min.	Fluids	Steam	Temp.°F	Bronze	Steel ①	Min.	Max.	(lbs.)
90 mm Operator												
Normally Closed - Entry Under the Disc												
1	1	19	17	0	240	150	366	8290B011	8290B054	60	150	6.5
1 1/4	1 1/4	32	24	0	180	150	366	8290A017	8290A060	60	150	7.7
1 1/2	1 1/2	52	33	0	120	120	366	8290A021	8290A064	60	150	9.5
2	2	68	46	0	90	90	366	8290A025	8290A068	60	150	16.0
Normally (Open - Entry	Under the	e Disc									
1	1	19	-	0	240	150	366	8290B029	8290B072	VII ②	150	6.5
1 1/4	1 1/4	32	-	0	240	150	366	8290A031	8290A074	VII ②	150	7.7
1 1/2	1 1/2	52	-	0	240	150	366	8290A033	8290A076	VII ②	150	9.5
2	2	68	-	0	190	150	366	8290A035	8290A078	VII ②	150	16.0
Normally (Closed - Ent	ry Above t	he Disc fo	r Rapid C	ycling Ste	am Applica	tions			,		
1 1/4	1 1/4	32	-	0	-	150	366	8290A136	8290A137	VIII ②	150	7.7
1 1/2	1 1/2	52	-	0	-	150	366	8290A041	8290A084	VIII ②	150	9.5
2	2	68	-	0	-	150	366	8290A043	8290A086	VIII ②	150	16.0
						1	25 mm Opera	tor				
Normally (Closed - Ent	ry Under t	he Disc									
1 1/4	1 1/4	34	34	0	240	150	366	8290A642	8290A646	60	150	13.5
1 1/2	1 1/2	56	56	0	240	150	366	8290A482	8290A495	60	150	15.0
2	2	77	77	0	150	150	366	8290A485	8290A498	60	150	17.0
2 1/2	2 1/2	130	86	0	90	90	366	8290A488	8290A501	60	150	21.5
Normally (Open - Entry	Under the	e Disc		•							
1 1/4	1 1/4	34	-	0	240	150	366	8290A643	8290A647	IX ②	150	13.5
1 1/2	1 1/2	56	-	0	240	150	366	8290A489	8290A502	IX ②	150	15.0
2	2	77	-	0	240	150	366	8290A490	8290A503	IX ②	150	17.0
2 1/2	2 1/2	130	-	0	240	150	366	8290A492	8290A505	IX ②	150	21.5
① Availabl	e with NET-I	NOX treati	ment, add	suffix "NI"	; ② Minim	ım pilot pre	essure varies,	see identified grap	oh for appropriate v	/alues.		

Dimensions: inches





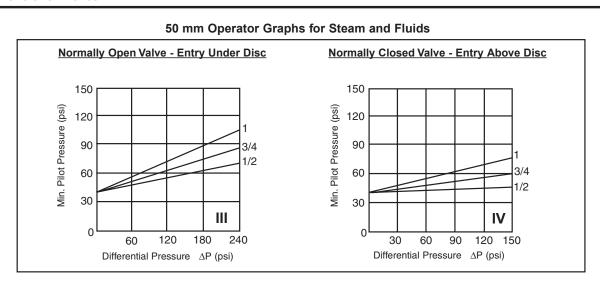


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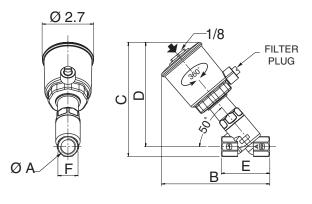


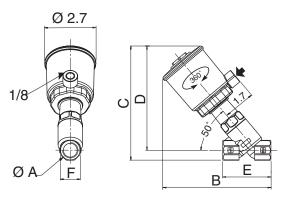
50 mm Operator										
ØA B C D E F										
ins.	1/2	5.59	6.08	5.55	2.56	1.06				
ins.	3/4	5.92	6.26	5.63	2.95	1.26				
ins.	1	6.10	6.50	5.71	3.54	1.61				



ASCA 2/2 SERIES 8290

Normally Open









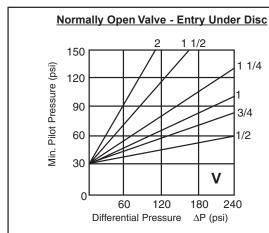
Air or Water Pilot Operated

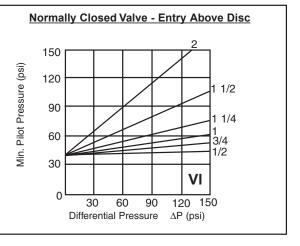
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Dimensions: inches

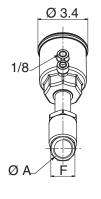
63 mm Operator Graphs for Steam and Fluids

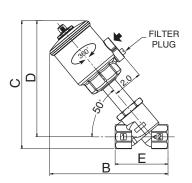




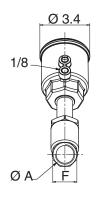
63 mm Operator										
	ØA B C D E F									
ins.	1/2	6.7	7.2	6.6	2.56	1.06				
ins.	3/4	6.8	7.3	6.7	2.95	1.26				
ins.	1	7.2	7.7	6.9	3.54	1.61				
ins.	1 1/4	8.54	9.01	8.03	4.33	1.97				
ins.	1 1/2	8.82	9.64	8.46	4.72	2.36				
ins.	2	9.80	10.2	8.82	5.9	2.76				

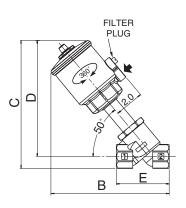
Normally Open













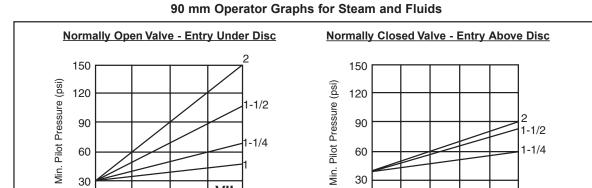


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Dimensions: inches



90 mm Operator										
	ØA B C D E F									
ins.	1	8.0	8.5	7.7	3.54	1.61				
ins.	1 1/4	9.29	9.69	8.70	4.33	1.97				
ins.	1 1/2	9.57	10.31	9.13	4.72	2.36				
ins.	2	10.51	10.87	9.49	5.91	2.76				

Differential Pressure

ΔP (psi)





Normally Open

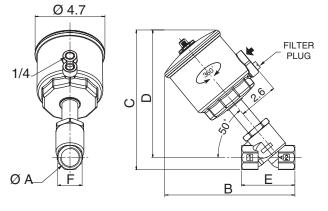
Differential Pressure

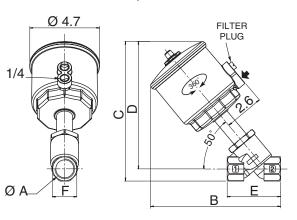
60

120

 ΔP (psi)

30







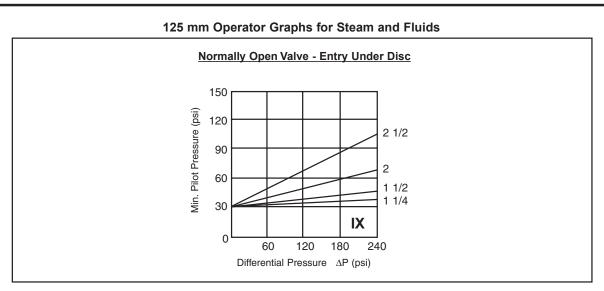


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Dimensions: inches



125 mm Operator										
	ØA B C D E G H									
ins.	1 1/4	11.1	11.7	10.7	4.3	3.1	2.0			
ins.	1 1/2	11.5	12.3	11.2	4.7	3.1	2.4			
ins.	2	12.4	12.9	11.5	6.0	3.1	2.8			
ins.	2 1/2	13.7	13.9	12.1	7.5	3.1	3.1			





Normally Open

