



DURBIN PISTON TOP VALVES
DURBIN INDUSTRIAL VALVE

Durbin Industrial Valve
Piston Top Valve Series



PSI CONVENTIONAL PIPING



Features:

Valve Type: [Globe](#)

Function: 2-way/3-Way

Action: Normally Closed/Normal Open

Actuation: Pneumatic

Pilot Range: 40-100 psi (2.8-6.9 bar)

Sizes: 1/4"-1 1/2" (DN 6 to DN 40)

Pressure Ratings: Up to 500 psi (34 bar)

Temperature Ratings: -40°F to 450°F (-40°C to 231°C)

Connection Style: Threaded (NPT/BSPT) & Flanged (B16.5)

Seat Type: Soft Seat

Leakage Rate: ANSI/FCI 70-2 class VI

Cv: Maximum of 29.7

Media: Most process fluid types; gas, liquids and steam

Overview: The Durbin Piston Top Series (PSI) provides the rugged durability of traditional process-control valves with the added benefits of modern technology and upgraded materials. The valve can be ordered as 2-way or 3-way, normally open or normally closed, threaded or flanged. Our 3-way valves can be either normally open or normally closed, depending on how they are plumbed into your piping system.

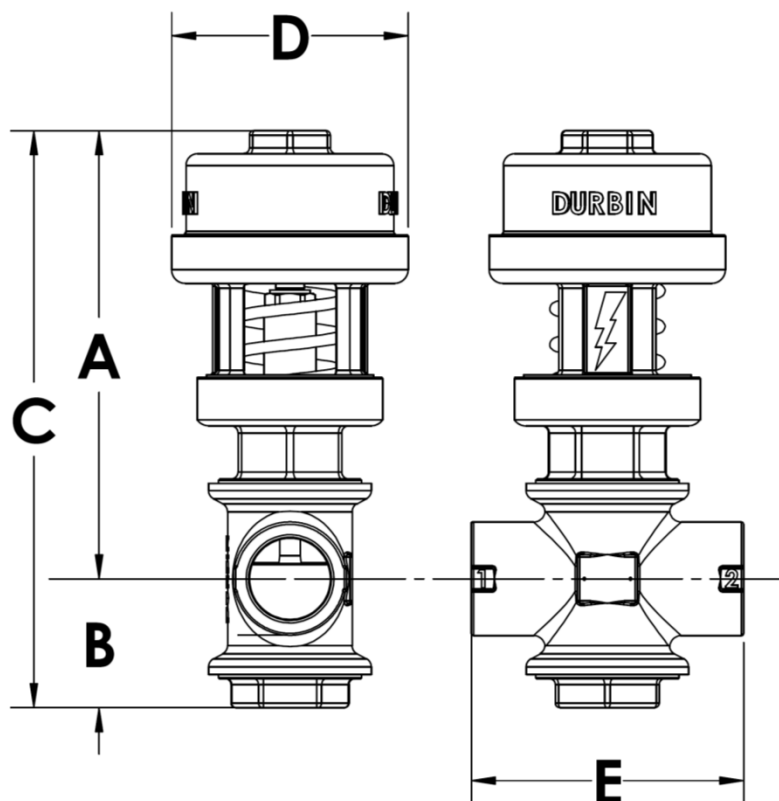
Materials of Construction: The Durbin PSI series is constructed of stainless steel to protect against the damaging effects of corrosion. All wetted components are constructed from corrosion resistant materials (CRAs) or are engineered plastic materials. Multiple engineered plastic materials are used throughout the dynamic components as guide bushings to protect against the galling and wear typically found in this type of valve.

Application: This valve series can be used as a supply valve, a drain valve, a redundant valve, a mixing valve, a directional valve or anywhere simple on/off functionality is required. This series requires less pilot air than traditional diaphragm-style valves while delivering consistent and reliable performance. For 3-way operation: with no pilot air applied, the valve is always closed from Port 1 to Port 2. Port 3 to 2 or Port 2 to Port 3 will be open. With pilot pressure energized, flow is permitted between Port 1 and Port 2. Port 3 will be closed off. Whether it is high-temperature steam, low-temperature cooling water, or simply a vent application, the Durbin PSI series can handle every application with the reliability, durability and repeatability that customers demand.

DURBIN PISTON TOP VALVES

DURBIN INDUSTRIAL VALVE

1/4"-1-1/2" PSI 2W & 3W NPT DIMENSIONS

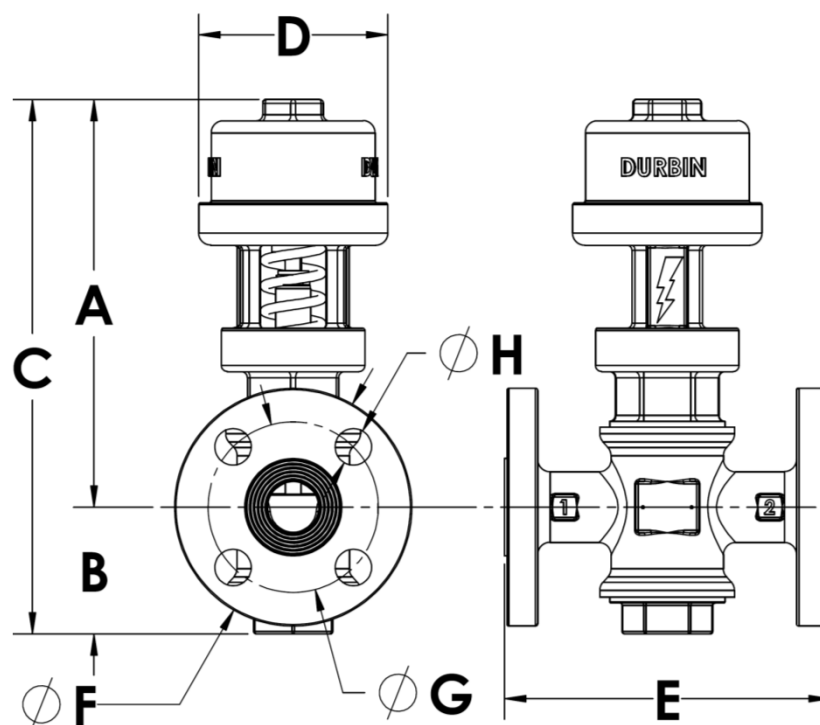


PSI 2W/3W NPT DIMENSIONS					
ITEM		1/4"-1/2"	3/4"	1"	1-1/2"
A	IN	5.85	6.51	8.37	9.67
	mm	148.0	165.0	213.0	246.0
B	IN	1.93	1.63	2.61	2.78
	mm	49.0	41.0	66.0	71.0
C	IN	7.78	8.14	10.98	12.45
	mm	198.0	207.0	279.0	316.0
D	IN	3.25	3.36	3.89	5.13
	mm	83.0	85.0	99.0	130.0
E	IN	3.35	4.33	4.73	5.90
	mm	85.0	110.0	120.0	150.0

DURBIN PISTON TOP VALVES

DURBIN INDUSTRIAL VALVE

1/4"-1-1/2" PSI 2W & 3W FLANGED DIMENSIONS



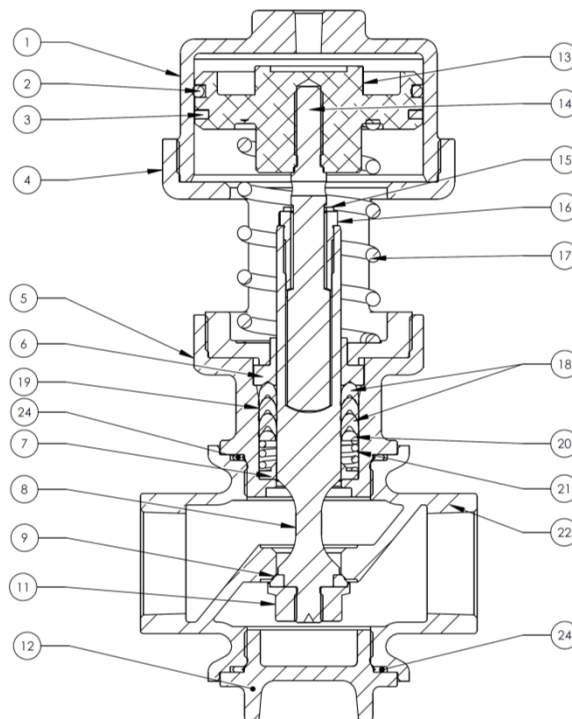
PSI 2W/3W FLANGED DIMENSIONS					
ITEM		1/4"-1/2"	3/4"	1"	1-1/2"
A	IN	5.85	6.51	8.37	9.67
	mm	148.0	165.0	213.0	246.0
B	IN	1.93	1.63	2.61	2.78
	mm	49.0	41.0	66.0	71.0
C	IN	7.78	8.14	10.98	12.45
	mm	198.0	207.0	279.0	316.0
D	IN	3.25	3.36	3.89	5.13
	mm	83.0	85.0	99.0	130.0
E	IN	5.51	5.90	6.70	7.88
	mm	140.0	150.0	170.0	200.0
F	IN	3.75	4.63	4.88	6.13
	mm	95.0	118.0	124.0	156.0
G	IN	2.63	3.25	3.50	4.55
	mm	67.0	83.0	89.0	116.0
H	IN	0.63	0.75	0.75	0.88
	mm	16.0	19.0	19.0	22.0

Please contact us for more information at Phone: 330.724.9968 Email: valve@durbinvalve.com Website: www.durbinvalve.com

DURBIN PISTON TOP VALVES

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1/4"-1-1/2" PSI 2WNC PARTS LIST



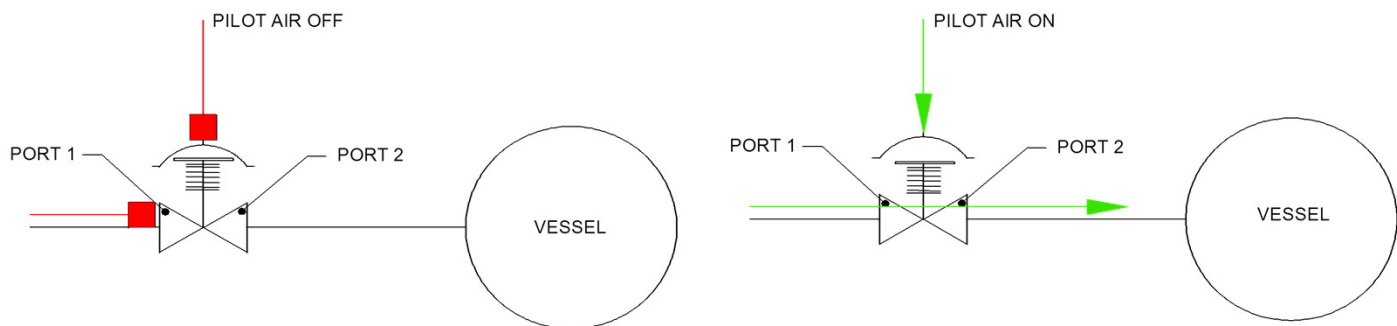
	VALVE NUMBER	PSI-211N	PSI-212N	PSI-213N	PSI-214N	PSI-215N	PSI-217N
	SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/2"
ITEM	DESCRIPTION	2WNC	2WNC	2WNC	2WNC	2WNC	2WNC
1	LID	DCT-103	DCT-103	DCT-103	DCT-103	DCT-203	DCT-303
2	ORING	DCT-130-ORING	DCT-130-ORING	DCT-130-ORING	DCT-130-ORING	DCT-230-ORING	DCT-330-ORING
3	PISTON GUIDE RING	PSI-232	PSI-232	PSI-232	PSI-232	PSI-332	PSI-332
4	YOKE	PSI-209-SS	PSI-209-SS	PSI-209-SS	PSI-209-SS	PSI-309-SS	PSI-509-SS
5	PACKING GLAND	PSI-105-SS	PSI-105-SS	PSI-105-SS	DCT-105	DCT-205	DCT-305
6	YOKE BUSHING	PSI-110	PSI-110	PSI-110	PSI-210	PSI-310	PSI-510
7	GLAND BUSHING	PSI-131	PSI-131	PSI-131	PSI-231	PSI-331	PSI-531
8	STEM	PSI-120	PSI-120	PSI-120	DCT-120	DCT-220	D093-212D
9	STEM SEAL	C343-067D-T	C343-067D-T	C343-067D-T	DCT-127	C343-12VP	C343-35D
10	STEM WASHER	N/A	N/A	N/A	N/A	N/A	N/A
11	STEM NUT	C553-027D	C553-027D	C553-027D	DCT-124	C553-019D	C553-023D
12	BOTTOM CAP	PSI-100-SS	PSI-100-SS	PSI-100-SS	PSI-200-SS	PSI-300-SS	DCT-300
13	PISTON	PSI-204	PSI-204	PSI-204	PSI-204	PSI-304	PSI-504
14	SWIVEL STEM	D143-030D	D143-030D	D143-030D	D143-030D	D093-037D	PSI-546
15	DUST WASHER	N/A	N/A	N/A	N/A	H132-04	H132-05
16	SWIVEL NUT	C913-011D	C913-011D	C913-011D	C913-011D	C643-002D	C643-006D
17	SPRING	PSI-134	PSI-134	PSI-134	PSI-234	PSI-334	PSI-534
18	BLACK PACKER	C683-070D	C683-070D	C683-070D	H220-21	H220-20	H220-13
19	WHITE PACKER	C683-069D	C683-069D	C683-069D	C683-076D	C683-050D	C683-018D
20	SPREADER	C713-012D	C713-012D	C713-012D	C713-017D	C713-003D	C713-004D
21	PACKING SPRING	D293-104Y	D293-104Y	D293-104Y	D293-131Y	D293-001Y	D293-002Y
22	BODY NPT	PSI-090-SS	PSI-095-SS	PSI-101-SS	PSI-201-SS	PSI-301-SS	PSI-501-SS
23	BODY ANSI-FLANGD	PSI-101F-SS	PSI-101F-SS	PSI-101F-SS	PSI-201F-SS	PSI-301F-SS	PSI-501F-SS
24	GASKET	C383-010D	C383-010D	C383-010D	C383-064D	C383-022D	C383-028D

DURBIN PISTON TOP VALVES DURBIN INDUSTRIAL VALVE

1/4" -1 1/2" 2WNC VALVE SIZING CHART

NOMINAL VALVE SIZE	STYLE	DESCRIPTION		CV			
				PSI	BAR	PORT 1 TO PORT 2	PORT 2 TO PORT 1
1/2"	2WNC	1/4"	MODEL	PSI-211		2.4	2.5
			PRESSURE RATING	500	34		
		3/8"	MODEL	PSI-212		2.7	2.8
			PRESSURE RATING	500	34		
		1/2"	MODEL	PSI-213		3.2	3.3
			PRESSURE RATING	500	34		
3/4"	2WNC	3/4"	MODEL	PSI-214		5.8	6
			PRESSURE RATING	500	34		
1"	2WNC	1"	MODEL	PSI-215		9.1	9.4
			PRESSURE RATING	500	34		
1-1/2"	2WNC	1-1/2"	MODEL	PSI-217		23.3	23.5
			PRESSURE RATING	500	34		

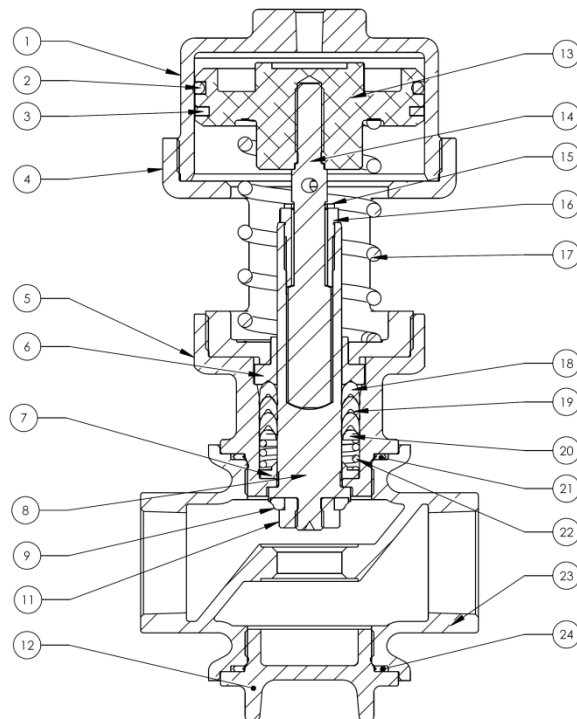
1/4" -1 1/2" 2WNC BASIC PIPING SCHEMATIC



DURBIN PISTON TOP VALVES

DURBIN INDUSTRIAL VALVE

1/4"-1-1/2" PSI 2WNO PARTS LIST



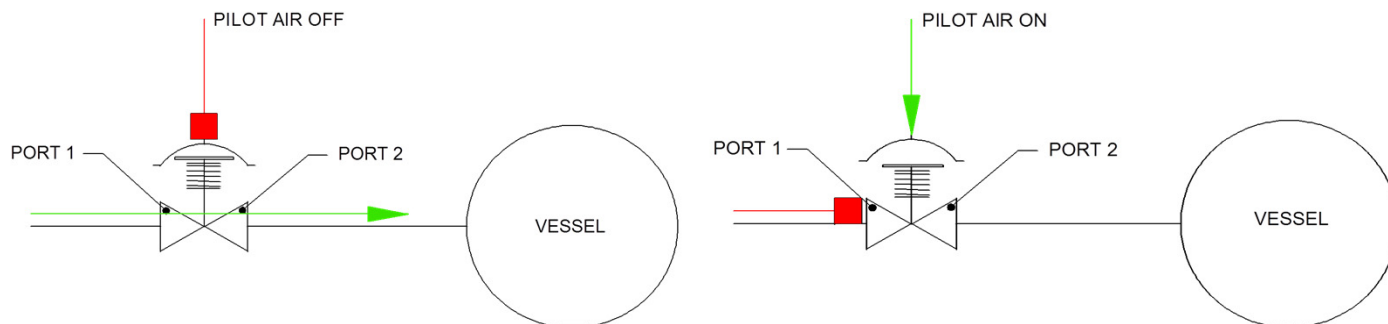
	VALVE NUMBER	PSI-221N	PSI-222N	PSI-223N	PSI-224N	PSI-225N	PSI-227N
	SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/2"
ITEM	DESCRIPTION	2WNO	2WNO	2WNO	2WNO	2WNO	2WNO
1	LID	DCT-103	DCT-103	DCT-103	DCT-103	DCT-203	DCT-303
2	ORING	DCT-130-ORING	DCT-130-ORING	DCT-130-ORING	DCT-130-ORING	DCT-230-ORING	DCT-330-ORING
3	PISTON GUIDE RING	PSI-232	PSI-232	PSI-232	PSI-232	PSI-332	PSI-532
4	YOKE	PSI-209-SS	PSI-209-SS	PSI-209-SS	PSI-209-SS	PSI-309-SS	PSI-509-SS
5	PACKING GLAND	PSI-105-SS	PSI-105-SS	PSI-105-SS	DCT-105	DCT-205	DCT-305
6	YOKE BUSHING	PSI-110	PSI-110	PSI-110	PSI-210	PSI-310	PSI-510
7	GLAND BUSHING	PSI-131	PSI-131	PSI-131	PSI-231	PSI-331	PSI-531
8	STEM	PSI-121	PSI-121	PSI-121	DCT-121	DCT-221	D093-213D
9	STEM SEAL	C343-067D-T	C343-067D-T	C343-067D-T	DCT-127	C343-12VP	C343-35D
10	STEM WASHER	PSI-128	PSI-128	PSI-128	N/A	N/A	N/A
11	STEM NUT	C553-027D	C553-027D	C553-027D	DCT-126	C553-017D	C553-024D
12	BOTTOM CAP	PSI-100-SS	PSI-100-SS	PSI-100-SS	PSI-200-SS	PSI-300-SS	DCT-300
13	PISTON	PSI-204	PSI-204	PSI-204	PSI-204	PSI-304	PSI-504
14	SWIVEL STEM	D143-030D	D143-030D	D143-030D	D143-030D	D093-037D	PSI-546
15	DUST WASHER	N/A	N/A	N/A	N/A	H132-04	H132-05
16	SWIVEL NUT	C913-011D	C913-011D	C913-011D	C913-011D	C643-002D	C643-006D
17	SPRING	PSI-134-40	PSI-134-40	PSI-134-40	PSI-134-40	PSI-334-40	PSI-534
18	BLACK PACKER	C683-070D	C683-070D	C683-070D	H220-21	H220-20	H220-13
19	WHITE PACKER	C683-069D	C683-069D	C683-069D	C683-076D	C683-050D	C683-018D
20	SPREADER	C713-012D	C713-012D	C713-012D	C713-017D	C713-003D	C713-004D
21	PACKING SPRING	D293-104Y	D293-104Y	D293-104Y	D293-131Y	D293-001Y	D293-002Y
22	BODY NPT	PSI-090-SS	PSI-095-SS	PSI-101-SS	PSI-201-SS	PSI-301-SS	PSI-501-SS
23	BODY ANSI-FLANGD	PSI-101F-SS	PSI-101F-SS	PSI-101F-SS	PSI-201F-SS	PSI-301F-SS	PSI-501F-SS
24	GASKET	C383-010D	C383-010D	C383-010D	C383-064D	C383-022D	C383-028D

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1/4 " - 1 1/2" 2WNO VALVE SIZING CHART

NOMINAL VALVE SIZE	STYLE	DESCRIPTION		CV		PORT 1 TO PORT 2	PORT 2 TO PORT 1
				PSI	BAR		
1/2"	2WNO	1/4"	MODEL	PSI-221		2.6	2.7
			PRESSURE RATING	500	34		
		3/8"	MODEL	PSI-222		3	3.1
			PRESSURE RATING	500	34		
		1/2"	MODEL	PSI-223		3.5	3.6
			PRESSURE RATING	500	34		
3/4"	2WNO	3/4"	MODEL	PSI-224		6.4	6.6
			PRESSURE RATING	500	34		
1"	2WNO	1"	MODEL	PSI-225		10.0	10.3
			PRESSURE RATING	500	34		
1-1/2"	2WNO	1-1/2"	MODEL	PSI-227		25.6	25.9
			PRESSURE RATING	500	34		

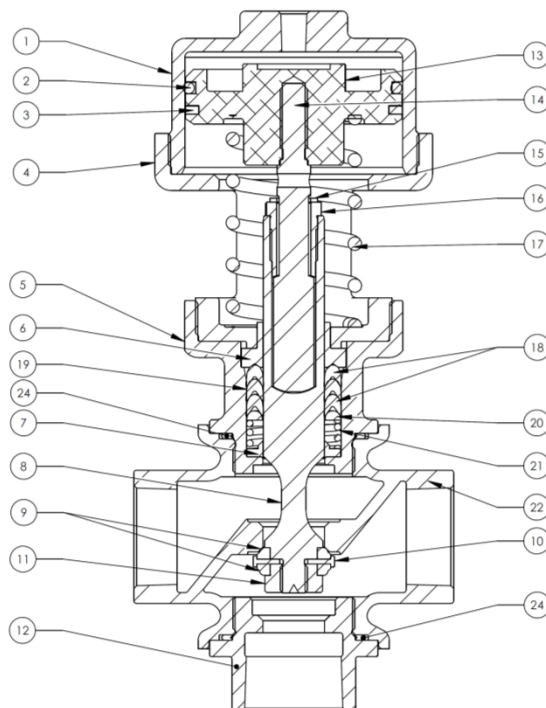
1/4 " - 1 1/2" 2WNO BASIC PIPING SCHEMATIC



DURBIN PISTON TOP VALVES

DURBIN INDUSTRIAL VALVE

1/4"-1-1/2" PSI 3WNC PARTS LIST



	VALVE NUMBER	PSI-311N	PSI-312N	PSI-313N	PSI-314N	PSI-315N	PSI-317N
	SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/2"
ITEM	DESCRIPTION	3WNC	3WNC	3WNC	3WNC	3WNC	3WNC
1	LID	DCT-103	DCT-103	DCT-103	DCT-103	DCT-203	DCT-303
2	ORING	DCT-130-ORING	DCT-130-ORING	DCT-130-ORING	DCT-130-ORING	DCT-230-ORING	DCT-330-ORING
3	PISTON GUIDE RING	PSI-232	PSI-232	PSI-232	PSI-232	PSI-332	PSI-332
4	YOKE	PSI-209-SS	PSI-209-SS	PSI-209-SS	PSI-209-SS	PSI-309-SS	PSI-509-SS
5	PACKING GLAND	PSI-105-SS	PSI-105-SS	PSI-105-SS	DCT-105	DCT-205	DCT-305
6	YOKE BUSHING	PSI-110	PSI-110	PSI-110	PSI-210	PSI-310	PSI-510
7	GLAND BUSHING	PSI-131	PSI-131	PSI-131	PSI-231	PSI-331	PSI-531
8	STEM	PSI-120	PSI-120	PSI-120	DCT-120	DCT-220	D093-212D
9	STEM SEAL	C343-067D-T	C343-067D-T	C343-067D-T	DCT-127	C343-12VP	C343-35D
10	STEM WASHER	C353-011D	C353-011D	C353-011D	DCT-125	C353-012D	C353-013D
11	STEM NUT	C553-027D	C553-027D	C553-027D	DCT-126	C553-017D	C553-024D
12	BOTTOM CAP	PSI-098-SS	PSI-099-SS	PSI-102-SS	PSI-202-SS	PSI-302-SS	PSI-502-SS
13	PISTON	PSI-204	PSI-204	PSI-204	PSI-204	PSI-304	PSI-504
14	SWIVEL STEM	D143-030D	D143-030D	D143-030D	D143-030D	D093-037D	PSI-546
15	DUST WASHER	N/A	N/A	N/A	N/A	H132-04	H132-05
16	SWIVEL NUT	C913-011D	C913-011D	C913-011D	C913-011D	C643-002D	C643-006D
17	SPRING	PSI-134	PSI-134	PSI-134	PSI-234	PSI-334	PSI-534
18	BLACK PACKER	C683-070D	C683-070D	C683-070D	H220-21	H220-20	H220-13
19	WHITE PACKER	C683-069D	C683-069D	C683-069D	C683-076D	C683-050D	C683-018D
20	SPREADER	C713-012D	C713-012D	C713-012D	C713-017D	C713-003D	C713-004D
21	PACKING SPRING	D293-104Y	D293-104Y	D293-104Y	D293-131Y	D293-001Y	D293-002Y
22	BODY NPT	PSI-090-SS	PSI-095-SS	PSI-101-SS	PSI-201-SS	PSI-301-SS	PSI-501-SS
23	BODY ANSI-FLANGD	PSI-101F-SS	PSI-101F-SS	PSI-101F-SS	PSI-201F-SS	PSI-301F-SS	PSI-501F-SS
24	GASKET	C383-010D	C383-010D	C383-010D	C383-064D	C383-022D	C383-028D

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DUBBIN PISTON TOP VALVES

DURBIN INDUSTRIAL VALVE

1/4" -1 1/2" 3WNC VALVE SIZING CHART

NOMINAL VALVE SIZE	STYLE	DESCRIPTION				CV			
				PSI	BAR	PORT 1 TO PORT 2	PORT 2 TO PORT 1	PORT 2 TO PORT 3	PORT 3 TO PORT 2
1/2"	3W	1/4"	MODEL	PSI-311		2.4	2.5	2.3	2
			PRESSURE RATING	500	34				
		3/8"	MODEL	PSI-312		2.7	2.8	2.6	2.3
			PRESSURE RATING	500	34				
		1/2"	MODEL	PSI-313		3.2	3.3	3.1	2.8
			PRESSURE RATING	500	34				
3/4"	3W	3/4"	MODEL	PSI-314		5.8	6	6.4	5.4
			PRESSURE RATING	500	34				
1"	3W	1"	MODEL	PSI-315		9.1	9.4	12.4	11.4
			PRESSURE RATING	500	34				
1-1/2"	3W	1-1/2"	MODEL	PSI-317		23.3	23.5	29.1	29.6
			PRESSURE RATING	500	34				

1/4" -1 1/2" 3WNC BASIC PIPING SCHEMATIC

