

DUBBIN

INDUSTRIAL VALVE
Innovation Through Flow



DUBBIN MANIFOLD SERIES

DURBIN INDUSTRIAL VALVE

Durbin Industrial Valve
SC Style Manifold Series



DURBIN MANIFOLD SERIES DURBIN INDUSTRIAL VALVE



Features:

Valve Type: [Globe](#)

Function: 2-way/3-Way

Action: Normally Closed/Normally Open

Actuation: Pneumatic

Pilot Range: 35-40 psi (2.4-2.8 bar)

Sizes: ½"-1" (DN 15 to DN 25)

Pressure Ratings: Up to 500 psi (34 bar)

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

Connection Style: Manifold

Seat Type: Soft Seat & Hard Seat

Leakage Rate: ANSI/FCI 70-2 class VI

Cv: Maximum of 20.52

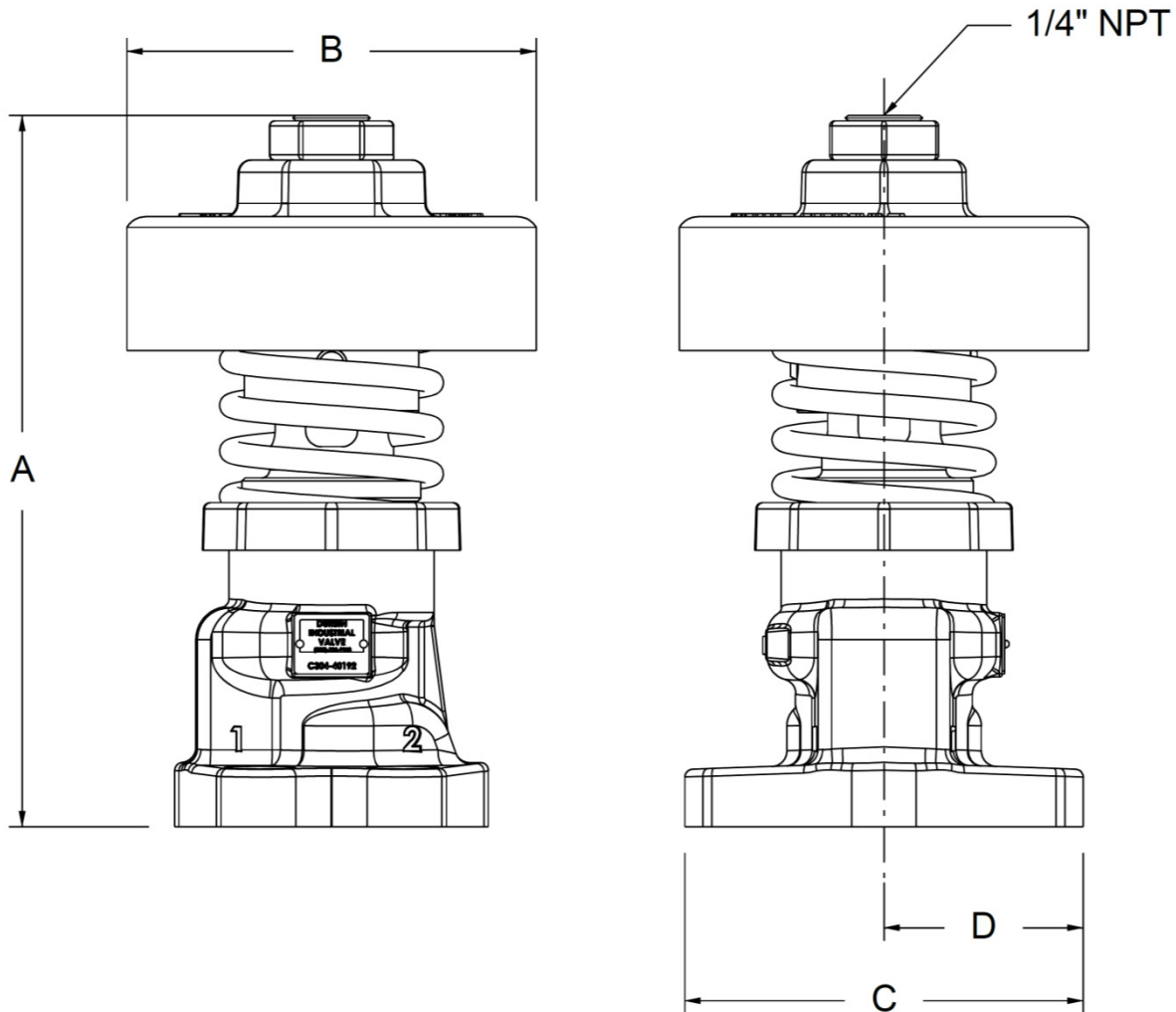
Media: Most process fluid types; gas, liquids and steam

Overview: The Durbin SC style Manifold Replacement Series provides the rugged durability of traditional and legacy process-control valves with the added benefits of modern technology and upgraded materials. The valve is available in normally closed or normally open, hard-seated or soft-seated, 2-way or 3-way, and on/off or shaping versions.

Materials of Construction: The Durbin SC style Manifold Replacement Series is constructed of Naval Bronze to protect against the damaging effects of corrosion. All wetted components are constructed from corrosion resistant materials (CRAs) or are engineered plastic materials.

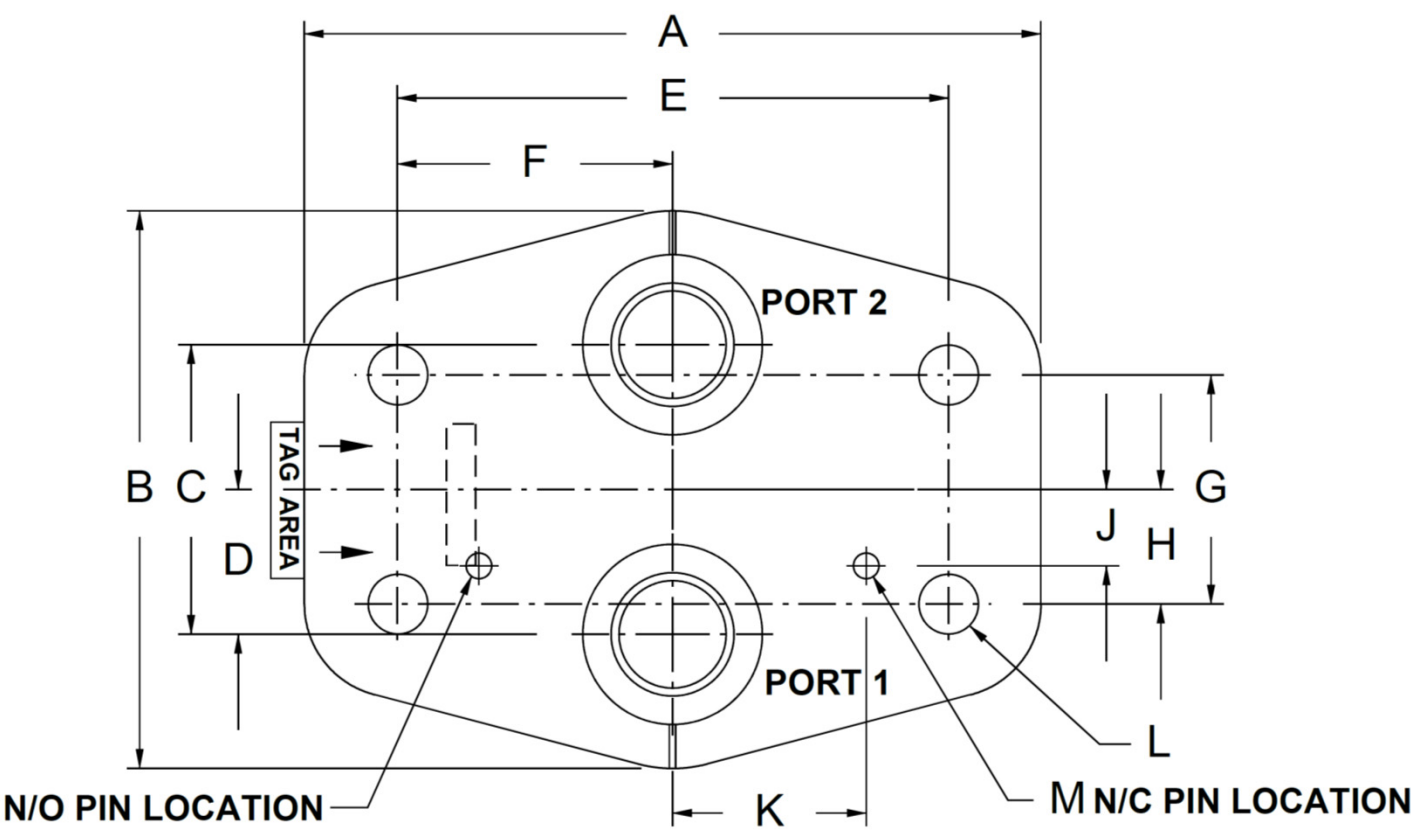
Application: This valve series is ideal for applications where a high cycle life and repeated positive shut-off is required. This 2-way valve can be used to isolate one process fluid from another, to supply fluid or to provide a fast evacuation if normally open. Whether it is high-temperature steam or low-temperature cooling water, the Durbin SC style Manifold Replacement Series can handle the application with the reliability, durability and repeatability that customers desire.

2-WAY DURBIN MANIFOLD VALVE DIMENSIONS



ITEM			A	B	C	D
1/2"	2-WAY	IN	8.77	5.25	4.40	2.20
		mm	223.0	133.0	112.0	56.0
1"	2-WAY	IN	11.46	6.70	5.18	2.59
		mm	291.0	170.0	197.0	99.0

2-WAY DURBIN MANIFOLD MOUNTING DIMENSIONS

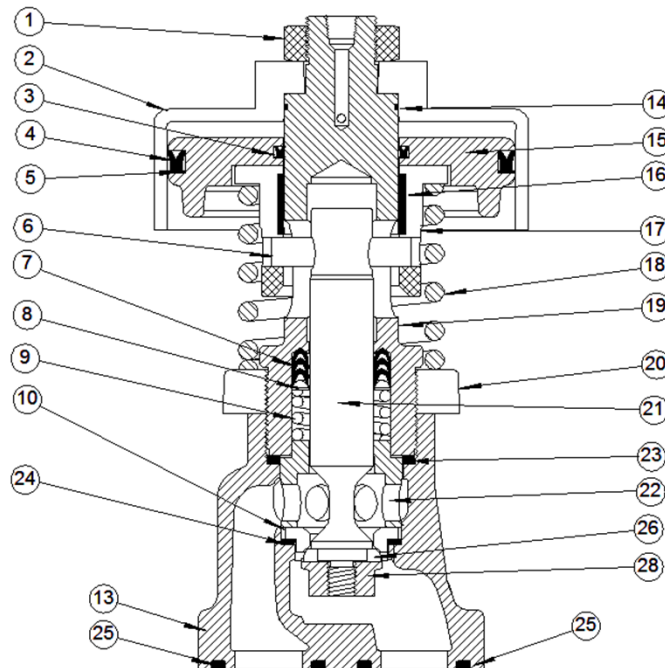


ITEM			A	B	C	D	E	F	G	H	J	K	L	M
1/2"	2-WAY	IN	5.80	4.38	2.28	1.14	4.34	2.17	1.81	0.91	0.62	1.50	31/64	0.20
		mm	147.0	111.0	58.0	29.0	110.0	55.0	46.0	23.0	16.0	38.0	12.0	5.0
1"	2-WAY	IN	6.38	5.04	2.56	1.28	4.75	2.38	2.31	1.16	1.53	1.75	35/64	0.20
		mm	162.0	128.0	65.0	33.0	121.0	61.0	59.0	30.0	39.0	44.0	14.0	5.0

DURBIN MANIFOLD SERIES

DURBIN INDUSTRIAL VALVE

2WNC DURBIN MANIFOLD PARTS LIST



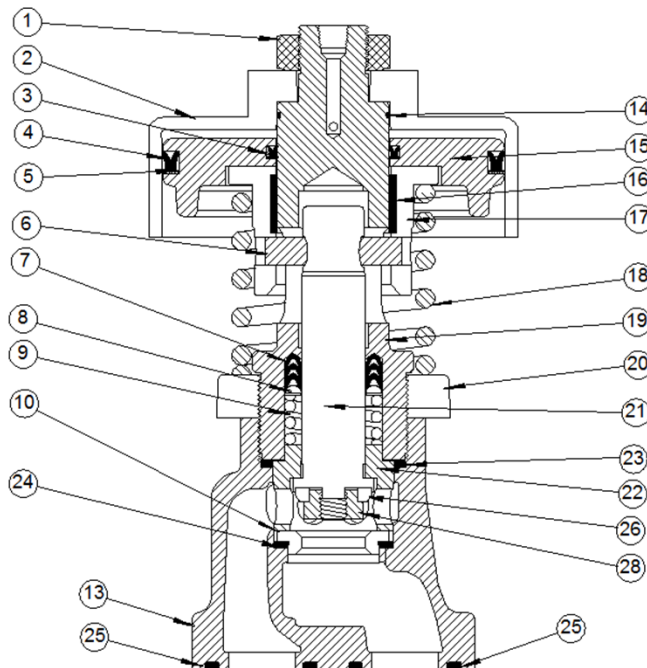
NOMINAL VALVE SIZE		1/2"		1"	
OPERATION		2W NORMALLY CLOSED		2W NORMALLY CLOSED	
VALVE		D304-20092	D304-20091	D304-40192	D304-40191
ITEM	DESCRIPTION	HARD SEATED	SOFT SEATED	HARD SEATED	SOFT SEATED
1	LID NUT	C583-024D	C583-024D	C583-025D	C583-025D
2	LID/COVER	C293-107D	C293-107D	C293-109D	C293-109D
3	GLAND SEAL	H145-85D	H145-85D	H145-43D	H145-43D
4	PISTON SEAL	H145-86D	H145-86D	H145-56D	H145-56D
5	PISTON SEAL BACKUP WASHER	H143-111D	H143-111D	H143-114D	H143-114D
6	ROLL PIN	H072-80D	H072-80D	H072-85D	H072-85D
7	PACKER KIT	H272-03D	H272-03D	C242-022D	C242-022D
8	PACKING SPREADER			C713-004D	C713-004D
9	PACKING SPRING			D293-002Y	D293-002Y
10	SEAT RING	C963-160D	C963-148D	C963-161D	C963-149D
11	TEFLON RING				
12	SEAT RETAINER				
13	BODY	C093-311D	C093-311D	C093-313D	C093-313D
14	GLAND ORING	H136-77D	H136-77D	H137-84D	H137-84D
15	PISTON	C783-152D	C783-152D	C783-153D	C783-153D
16	WEAR RING	D333-002D	D333-002D	D333-003D	D333-003D
17	SPRING RETAINER	C883-032D	C883-032D	C883-033D	C883-033D
18	PISTON SPRING	D293-145DR	D293-145DR	D293-146DR	D293-146DR
19	PACKING GLAND	C013-021D	C013-021D	C013-022D	C013-022D
20	GLAND NUT	C633-042D	C633-042D	C633-043D	C633-043D
21	STEM	D093-225D	D093-239D	D093-230D	D093-241D
22	SEAT CAGE	C873-015D	C873-015D	C873-019D	C873-019D
23	BODY GASKET	C383-075D	C383-075D	C383-076D	C383-076D
24	SEAT GASKET	C383-010D (2X)	C383-010D (2X)	C383-019D	C383-019D
25	BOTTOM GASKET	C383-062D (2X)	C383-062D (2X)	C383-077D (2X)	C383-077D (2X)
26	SOFT SEAL DISC		C343-068D		C343-069D
27	DISC WASHER				
28	DISC NUT		C553-021D		C553-023D
29	STEM ASSEMBLY		C332-099D		C332-102D
	SERVICE KIT	C242-041D	C242-041D	C242-043D	C242-043D

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

DURBIN MANIFOLD SERIES

DURBIN INDUSTRIAL VALVE

2WNO DURBIN MANIFOLD PARTS LIST

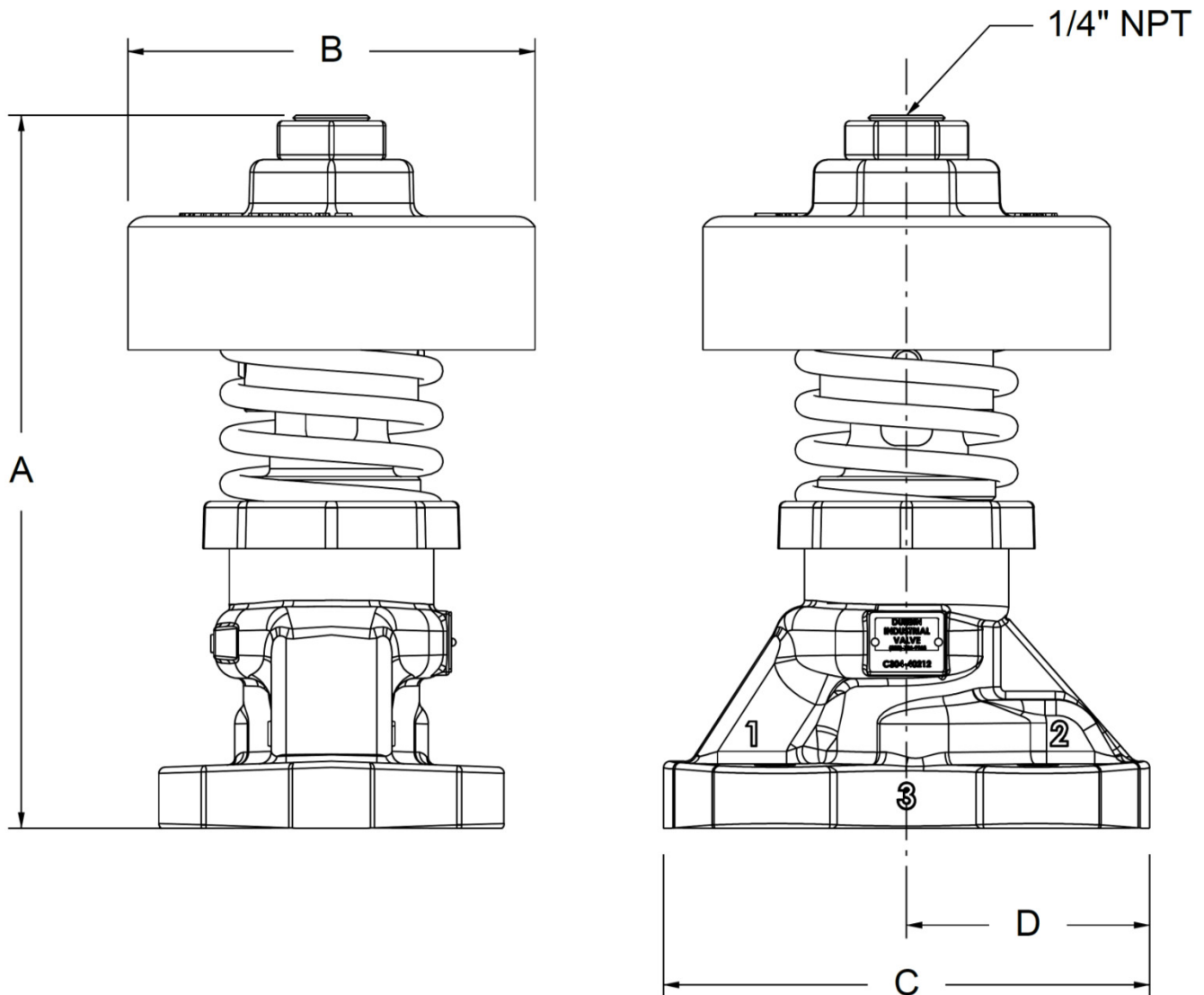


NOMINAL VALVE SIZE		1/2"		1"	
OPERATION		2W NORMALLY OPEN		2W NORMALLY OPEN	
VALVE		D304-20122	D304-20121	D304-40222	D304-40221
ITEM	DESCRIPTION	HARD SEATED	SOFT SEATED	HARD SEATED	SOFT SEATED
1	LID NUT	C583-024D	C583-024D	C583-025D	C583-025D
2	LID/COVER	C293-107D	C293-107D	C293-109D	C293-109D
3	GLAND SEAL	H145-85D	H145-85D	H145-43D	H145-43D
4	PISTON SEAL	H145-86D	H145-86D	H145-56D	H145-56D
5	PISTON SEAL BACKUP WASHER	H143-111D	H143-111D	H143-114D	H143-114D
6	ROLL PIN	H072-80D	H072-80D	H072-85D	H072-85D
7	PACKER KIT	H272-03D	H272-03D	C242-022D	C242-022D
8	PACKING SPREADER			C713-004D	C713-004D
9	PACKING SPRING			D293-002Y	D293-002Y
10	SEAT RING	C963-160D	C963-148D	C963-161D	C963-149D
11	TEFLON RING				
12	SEAT RETAINER				
13	BODY	C093-316D	C093-316D	C093-318D	C093-318D
14	GLAND ORING	H136-77D	H136-77D	H137-84D	H137-84D
15	PISTON	C783-152D	C783-152D	C783-153D	C783-153D
16	WEAR RING	D333-002D	D333-002D	D333-003D	D333-003D
17	SPRING RETAINER	C883-032D	C883-032D	C883-033D	C883-033D
18	PISTON SPRING	D293-145DR	D293-145DR	D293-146DR	D293-146DR
19	PACKING GLAND	C013-021D	C013-021D	C013-022D	C013-022D
20	GLAND NUT	C633-042D	C633-042D	C633-043D	C633-043D
21	STEM	D093-231D	D093-238D	D093-232D	D093-240D
22	SEAT CAGE	C873-015D	C873-015D	C873-019D	C873-019D
23	BODY GASKET	C383-075D	C383-075D	C383-076D	C383-076D
24	SEAT GASKET	C383-010D (2X)	C383-010D (2X)	C383-019D	C383-019D
25	BOTTOM GASKET	C383-062D (2X)	C383-062D (2X)	C383-077D (2X)	C383-077D (2X)
26	SOFT SEAL DISC		C343-068D		C343-069D
27	DISC WASHER				
28	DISC NUT		C553-022D		C553-024D
29	STEM ASSEMBLY		C332-098D		C332-101D
	SERVICE KIT	C242-041D	C242-041D	C242-043D	C242-043D

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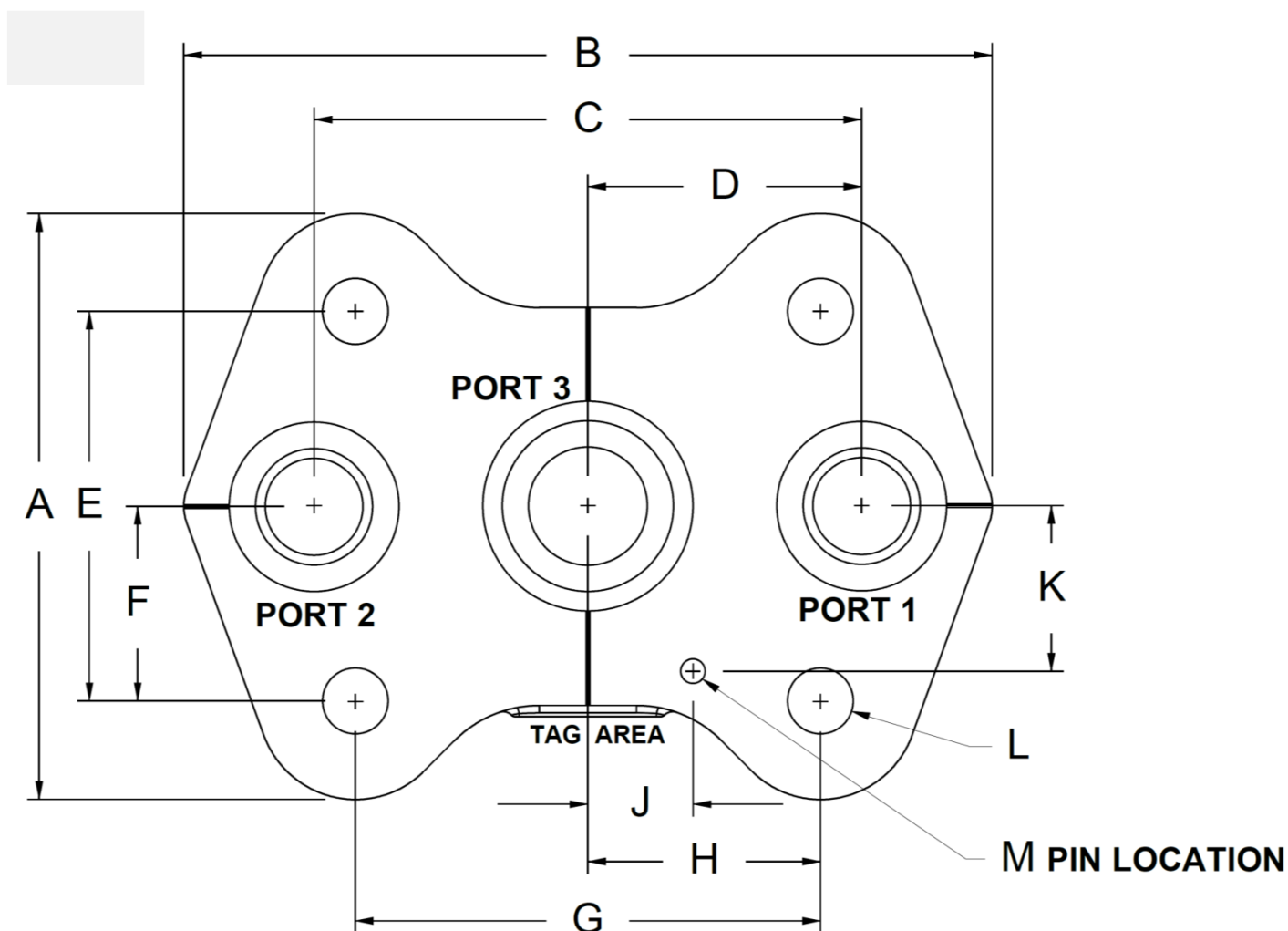
DURBIN MANIFOLD SERIES DURBIN INDUSTRIAL VALVE

3-WAY DURBIN MANIFOLD VALVE DIMENSIONS



ITEM			A	B	C	D
1/2"	3-WAY	IN	8.77	5.25	6.68	3.34
		mm	223.0	133.0	170.0	85.0
1"	3-WAY	IN	11.46	6.70	7.75	3.88
		mm	291.0	170.0	197.0	99.0

3-WAY DURBIN MANIFOLD MOUNTING DIMENSIONS

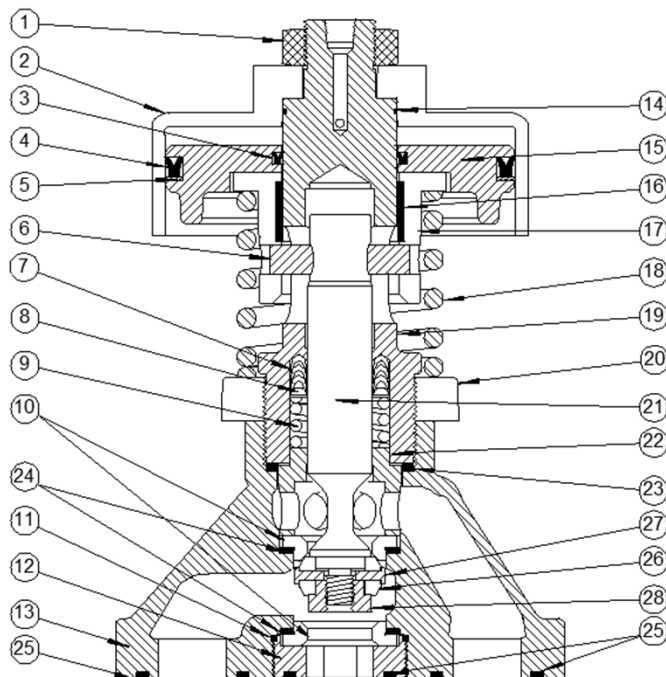


ITEM			A	B	C	D	E	F	G	H	J	K	L	M
1/2"	3-WAY	IN	4.87	6.73	4.56	2.28	3.25	1.62	3.88	1.94	0.88	1.38	35/64	0.20
		mm	124.0	171.0	116.0	58.0	83.0	41.0	99.0	49.0	22.0	35.0	14.0	5.0
1"	3-WAY	IN	5.57	7.85	5.12	2.56	3.50	1.50	4.25	2.12	1.01	1.50	21/32	0.20
		mm	142.0	199.0	130.0	65.0	89.0	44.0	108.0	54.0	25.0	38.0	17.0	5.0

DURBIN MANIFOLD SERIES

DURBIN INDUSTRIAL VALVE

3-WAY DURBIN MANIFOLD PARTS LIST



NOMINAL VALVE SIZE		1/2"		1"	
OPERATION		3W NORMALLY CLOSED		3W NORMALLY CLOSED	
VALVE		D304-20112		D304-40212	
ITEM		D304-20111		D304-40211	
DESCRIPTION		HARD SEATED	SOFT SEATED	HARD SEATED	SOFT SEATED
1	LID NUT	C583-024D	C583-024D	C583-025D	C583-025D
2	LID/COVER	C293-107D	C293-107D	C293-109D	C293-109D
3	GLAND SEAL	H145-85D	H145-85D	H145-43D	H145-43D
4	PISTON SEAL	H145-86D	H145-86D	H145-56D	H145-56D
5	PISTON SEAL BACKUP WASHER	H143-111D	H143-111D	H143-114D	H143-114D
6	ROLL PIN	H072-80D	H072-80D	H072-85D	H072-85D
7	PACKER KIT	H272-03D	H272-03D	C242-022D	C242-022D
8	PACKING SPREADER			C713-004D	C713-004D
9	PACKING SPRING			D293-002Y	D293-002Y
10	SEAT RING	C963-160D (2X)	C963-148D (2X)	C963-161D (2X)	C963-149D (2X)
11	TEFLON RING	H232-87D	H232-87D	H134-124	H134-124
12	SEAT RETAINER	C873-017D	C873-017D	C873-018D	C873-018D
13	BODY	C093-289D	C093-289D	C093-312D	C093-312D
14	GLAND ORING	H136-77D	H136-77D	H137-84D	H137-84D
15	PISTON	C783-152D	C783-152D	C783-153D	C783-153D
16	WEAR RING	D333-002D	D333-002D	D333-003D	D333-003D
17	SPRING RETAINER	C883-032D	C883-032D	C883-033D	C883-033D
18	PISTON SPRING	D293-145DR	D293-145DR	D293-146DR	D293-146DR
19	PACKING GLAND	C013-021D	C013-021D	C013-022D	C013-022D
20	GLAND NUT	C633-042D	C633-042D	C633-043D	C633-043D
21	STEM	D093-225D	D093-239D	D093-230D	D093-241D
22	SEAT CAGE	C873-015D	C873-015D	C873-019D	C873-019D
23	BODY GASKET	C383-075D	C383-075D	C383-076D	C383-076D
24	SEAT GASKET	C383-010D (2X)	C383-010D (2X)	C383-019D (2X)	C383-019D (2X)
25	BOTTOM GASKET	C383-062D (3X)	C383-062D (3X)	C383-077D (3X)	C383-077D (3X)
26	SOFT SEAL DISC		C343-068D (2X)		C343-069D (2X)
27	DISC WASHER		C353-012D		C353-013D
28	DISC NUT		C553-022D		C553-024D
29	STEM ASSEMBLY		C332-100D		C332-103D
	SERVICE KIT	C242-041D	C242-041D	C242-043D	C242-043D

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DURBIN MANIFOLD SERIES

DURBIN INDUSTRIAL VALVE

2-WAY& 3-WAY DURBIN MANIFOLD 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"	2W NC	HARD	MODEL	D304-20092		5.66	6.71	-	-
			PRESSURE RATING	500	34				
		SOFT	MODEL	D304-20091		7.41	7.01	-	-
			PRESSURE RATING	500	34				
	2W NO	HARD	MODEL	D304-20122		8.11	8.11	-	-
			PRESSURE RATING	500	34				
		SOFT	MODEL	D304-20121		7.61	7.51	-	-
			PRESSURE RATING	500	34				
	2W SHAPING	HARD	MODEL	D514-20022		5.66	6.71	-	-
			PRESSURE RATING	500	34				
		SOFT	MODEL	N/A		-	-	-	-
			PRESSURE RATING	500	34				
	3W	HARD	MODEL	D304-20112		6.45	5.38	7.02	10.98
			PRESSURE RATING	500	34				
		SOFT	MODEL	D304-20111		7.21	7.21	8.21	8.91
			PRESSURE RATING	500	34				
1"	2W NC	HARD	MODEL	D304-20092		12.91	14.01	-	-
			PRESSURE RATING	500	34				
		SOFT	MODEL	D304-20091		14.61	14.81	-	-
			PRESSURE RATING	500	34				
	2W NO	HARD	MODEL	D304-20092		14.71	14.41	-	-
			PRESSURE RATING	500	34				
		SOFT	MODEL	D304-20091		14.01	14.51	-	-
			PRESSURE RATING	500	34				
	2W SHAPING	HARD	MODEL	D514-40122		12.91	14.01	-	-
			PRESSURE RATING	500	34				
		SOFT	MODEL	N/A		-	-	-	-
			PRESSURE RATING	500	34				
	3W	HARD	MODEL	D304-20092		13.21	13.41	17.51	18.51
			PRESSURE RATING	500	34				
		SOFT	MODEL	D304-20091		15.11	15.41	17.71	20.51
			PRESSURE RATING	500	34				