



DURBIN 500 PSI SERIES
DURBIN INDUSTRIAL VALVE

Durbin Industrial Valve
500 psi Series (D500#)



DURBIN INDUSTRIAL VALVE

DURBIN 500 PSI 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"-1¼"(DN 15 to DN 32)

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)

Seat Type: Soft Seat

Leakage Rate: ANSI/FCI 70-2 class VI

Cv: Maximum of 30.25

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

Overview:

The Durbin 500# series provides the rugged durability of traditional process-control valves with the added benefits of modern technology and upgraded materials. The complete stainless steel design makes corrosion concerns nonexistent and uses an engineered thermoplastic seat seal to provide a positive shut-off even after years of service. Whether you need normally Open or normally Closed, 2-way isolation or 3-way directional, the Durbin 500# series has an option for your needs. Select the valve type to the right to learn more.

DURBIN 500 PSI SERIES

DURBIN INDUSTRIAL VALVE

2-WAY SOFT SEATED



Features:

Valve Type: [Globe](#)

Function: 2-way / Isolation

Action: Normally Closed or Normally Open

Actuation: Pneumatic

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

Sizes: ½"-1¼"(DN 15 to DN 32)

Pressure Ratings: Up to 500 psi (34 bar)

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Cv: Maximum of 30.25

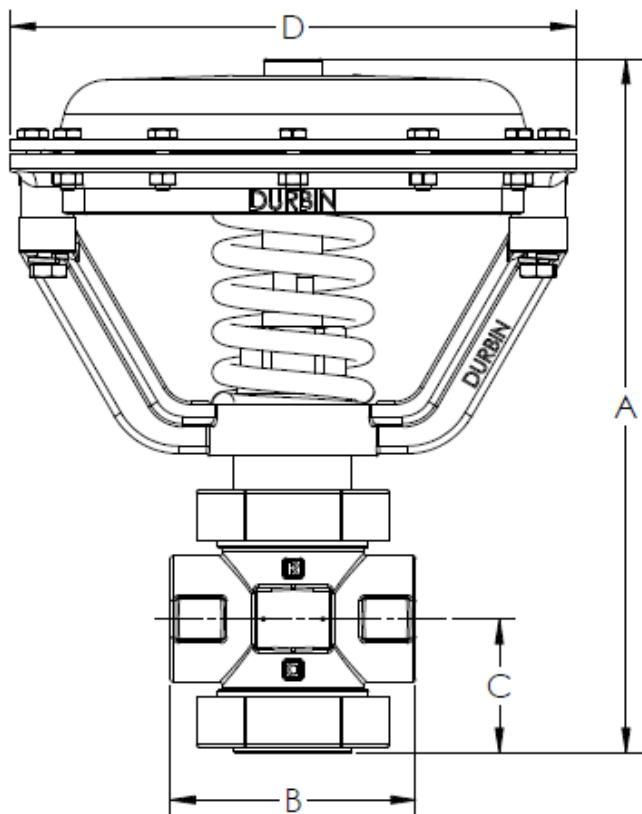
Media: Most process fluid types; gas, liquids and steam

Overview: The Durbin 500# series provides the rugged durability of traditional process- control valves with the added benefits of modern technology and upgraded materials. The valve is available in normally closed or normally open (fail-safe close or fail-safe open).

Materials of Construction: The Durbin 500# 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.

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 500# series can handle the application with the reliability, durability and repeatability that customers desire

2WNO & 2WNC VALVE DIMENSIONS

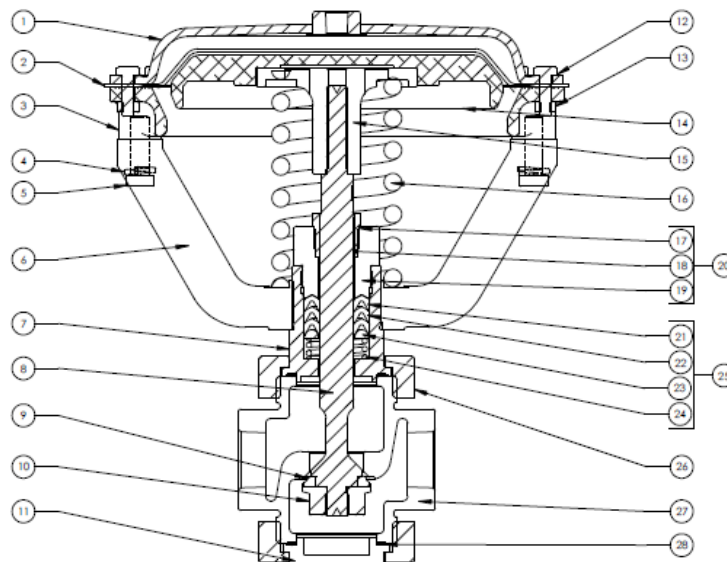


2WNO & 2WNC NPT DIMENSIONS					
ITEM		1/2"	3/4"	1"	1-1/4"
A	IN	9 1/2"	9 1/2"	11 3/4	11 3/4
	mm	241	241	298	298
B	IN	3 3/4	3 3/4	4 1/4"	4 1/4"
	mm	95	95	108	108
C	IN	1 3/4	1 3/4	2 1/4	2 1/4
	mm	44	44	57	57
D	IN	7"	7"	9 1/2"	9 1/2"
	mm	178	178	241	241

DURBIN 500 PSI SERIES

DURBIN INDUSTRIAL VALVE

2WNC VALVE PARTS LIST



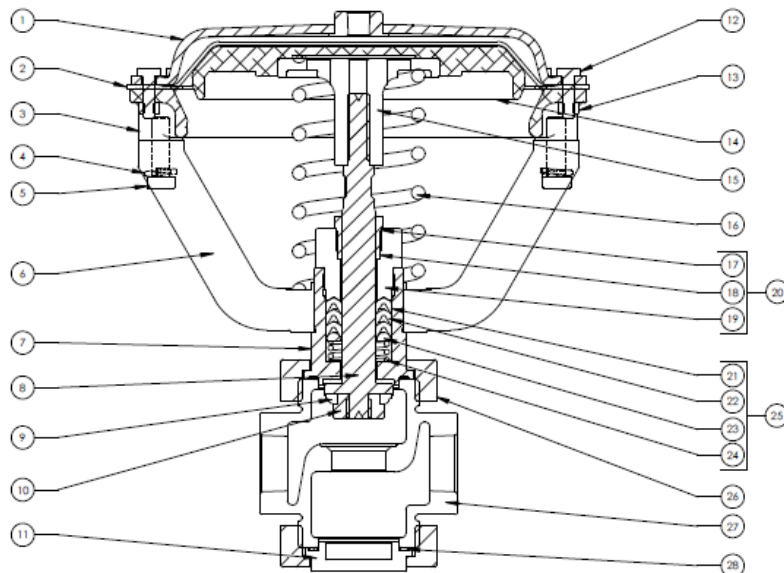
2-WAY N/C 500 PSI					
	VALVE NUMBER	D2821	D2831	D2841	D2851
	Cv RATING	Cv 12.5	Cv 16	Cv 23.5	Cv 30.25
ITEM	DESCRIPTION	PART #	PART #	PART #	PART #
1	LID	C293-023DR	C293-023DR	C293-030DR	C293-030DR
2*	DIAPHRAGM	C333-053D	C333-053D	C333-051D	C333-051D
3	RING	C893-015D-SS	C893-15D-SS	C893-022D-SS	C893-022D-SS
4	LOCK WASHER	H175-21	H175-21	H175-21	H175-21
5	HEX BOLT	H096-55	H096-55	H096-50	H096-50
6	YOKE	D283-025D-SS	D283-025D-SS	D283-062D-SS	D283-062D-SS
7	PACKING GLAND	C113-056D	C113-056D	C013-008D-SS	C013-008D-SS
8	STEM	D093-024D	D096-024D	D093-025D	D093-025D
9*	SEAL	C343-12VP	C343-12VP	C343-35D	C343-35D
10	STEM NUT	C553-019	C553-019D	C553-023D	C553-023D
11	BOTTOM CAP	C213-016D-SS	C213-016D-SS	C213-020D-SS	C213-020D-SS
12	HEX BOLT	H096-10	H096-10	H096-10	H096-10
13	HEX NUT	H060-03	H060-03	H060-03	H060-03
14	PISTON	C783-044D-IC	C783-044D-IC	C783-081D-AL	C783-081D-AL
15	SPRING RETAINER			C883-069D	C883-069D
16	SPRING	D293-028-5DR	D293-028-5DR	D293-147-5DR	D293-147-5DR
17	SNAP RING	H090-16	H090-16		
18	PACK NUT BRUSHING	DF523	DF523	DF524	DF524
19	PACKING NUT	C853-093D	C853-093D	C563-009D-SS	C563-009D-SS
20	PACKING NUT ASSY	C853-091D	C853-091D		
21*	PACKER	H220-21	H220-21	H220-20	H220-20
22*	PACKER	C683-076D	C683-076D	C683-050D	C683-050D
23	PACKER SPREADER	C713-017D	C713-017D	C713-003D	C713-003D
24	PACKING SPRING	D293-131Y	D293-131Y	D293-001Y	D293-001Y
25	PACKING KIT	C242-024D	C242-024D	C242-021D	C242-021D
26	UNION NUT	C663-022D-SS	C663-022D-SS	C663-026D-SS	C663-026D-SS
27	BODY	VP400-SS	VP401-SS	DB506-SS	DB507-SS
28*	GASKET	C383-080D	C383-080D	C383-082D	C383-082D
	SERVICE KIT	D821-D	D831-S	D841-S	D851-S

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

DURBIN 500 PSI SERIES

DURBIN INDUSTRIAL VALVE

2WNO VALVE PARTS LIST



2-WAY N/O 500 PSI					
	Valve number	D2820	D2830	D2840	D2850
	Cv RATING	Cv 12.5	Cv 16	Cv 23.5	Cv 30.25
ITEM	DESCRIPTION	PART #	PART #	PART #	PART #
1	LID	C293-023DR	C293-023DR	C293-030DR	C293-030DR
2*	DIAPHRAGM	C333-053D	C333-053D	C333-051D	C333-051D
3	RING	C893-015D-SS	C893-015D-SS	C893-022D-SS	C893-022D-SS
4	WASHER LOCK	H175-21	H175-21	H175-21	H175-21
5	HEX BOLT	H096-55	H096-55	H096-50	H096-50
6	YOKE	D283-025D-SS	D283-025D-SS	D283-062D-SS	D283-062D-SS
7	PACKING GLAND	C113-056D	C113-56D	C013-008D-SS	C013-008D-SS
8	STEM	D093-028D	D093-028D	D093-034D	D093-034D
9*	SEAL	C343-12VP	C343-12VP	C343-35D	C343-35D
10	STEM NUT	C553-017D	C553-017D	C553-024D	C553-024D
11	BOTTOM CAP	C213-016D-SS	C213-016D-SS	C213-020D-SS	C213-020D-SS
12	HEX BOLT	H096-10	H096-10	H096-10	H096-10
13	HEX UT	H060-03	H060-03	H060-03	H060-03
14	PISTON	C783-044D-IC	C783-044D-IC	C783-081D-AL	C783-081D-AL
15	SPRING RETAINER			C883-069D	C883-069D
16	SPRING NC	D293-070DR	D293-070DR	D293-071DR	D293-071DR
17	SNAP RING	H090-16	H090-16		
18	PACK NUT BUSHING	DF523	DF523	DF524	DF524
19	PACKING NUT	C853-093D	C853-093D	C563-009D-SS	C563-009D-SS
20	PACKING NUT ASSEMBLY	C853-091D	C853-091D		
21*	PACKER	H220-21	H220-21	H220-20	H220-20
22*	PACKER	C683-076D	C683-076D	C683-050D	C683-050D
23	PACKING SPREADER	C713-017D	C713-017D	C713-003D	C713-003D
24	PACKING SPRING	D293-131Y	D293-131Y	D293-001Y	D293-001Y
25	PACKING KIT	C242-024D	C242-024D	C242-021D	C242-021D
26	UNION NUT	C663-022D-SS	C663-022D-SS	C663-026D-SS	C663-026D-SS
27	BODY	VP400-SS	VP401-SS	DB506-SS	DB507-SS
28*	GASKET	C383-080D	C383-080D	C383-082D	C383-082D
	SERVICE KIT	D820-S	D830-S	D840-S	D850-S

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DURBIN 500 PSI SERIES

DURBIN INDUSTRIAL VALVE

3-WAY SOFT SEATED



Features:

Valve Type: [Globe](#)

Function: 3-way / Directional/ Mixing / Drain

Action: N/C or N/O -based upon valve configuration

Actuation: Pneumatic

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

Sizes: ½"-1 ¼"(DN 15 to DN 32)

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)

Seat Type: Soft Seat

Leakage Rate: ANSI/FCI 70-2 class VI

Cv: Maximum of 30.25

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

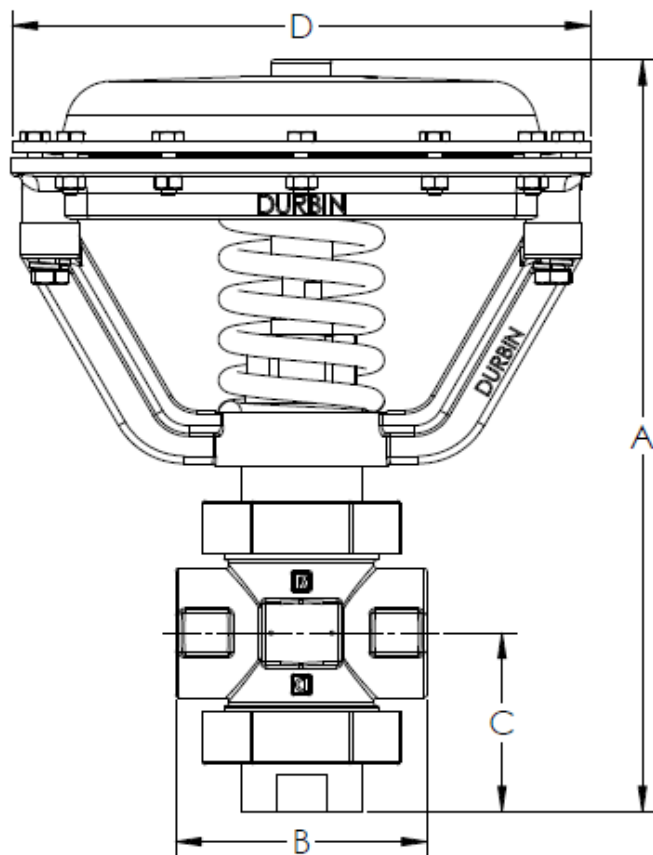
Overview: The Durbin 500# series provides the rugged durability of traditional process control valves with the added benefits of modern technology and upgraded materials. The valve is either normally open or normally closed, depending on how it is plumbed into your piping system.

Materials of Construction: The Durbin 500 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.

Application: This valve type can be used as a redundant valve, a mixing valve, a directional valve, or as a drain. 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 or low-temperature cooling water, the Durbin 500 psi series can handle the application with the reliability, durability and repeatability that customers desire.

DURBIN 500 PSI SERIES DURBIN INDUSTRIAL VALVE

3WNC VALVE DIMENSIONS

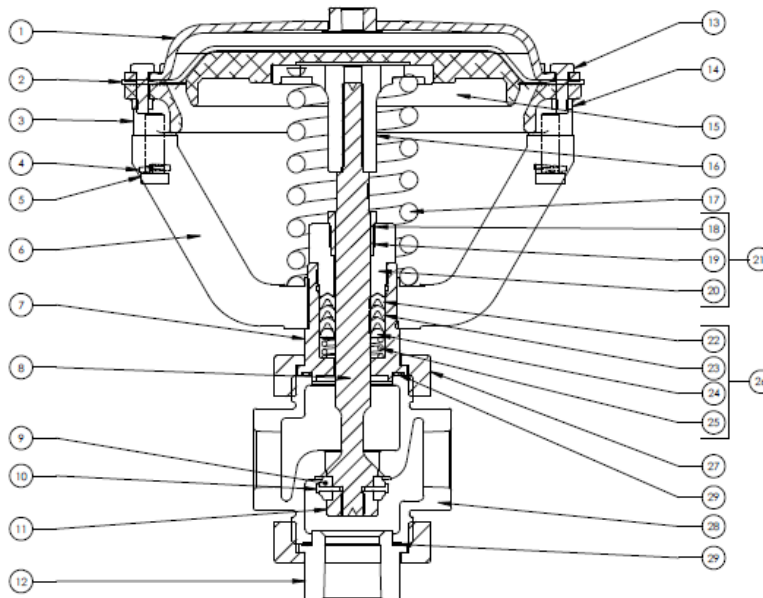


3WNC NPT DIMENSIONS					
ITEM		1/2"	3/4"	1"	1-1/4"
A	IN	10 1/2"	10 1/2"	12"	12"
	mm	267	267	305	305
B	IN	3 3/4	3 3/4	4 1/4"	4 1/4"
	mm	95	95	108	108
C	IN	2 3/4"	2 3/4"	3"	3"
	mm	70	70	76	76
D	IN	7"	7"	9 1/2"	9 1/2"
	mm	178	178	241	241

DURBIN 500 PSI SERIES

DURBIN INDUSTRIAL VALVE

3WNC VALVE PARTS LIST

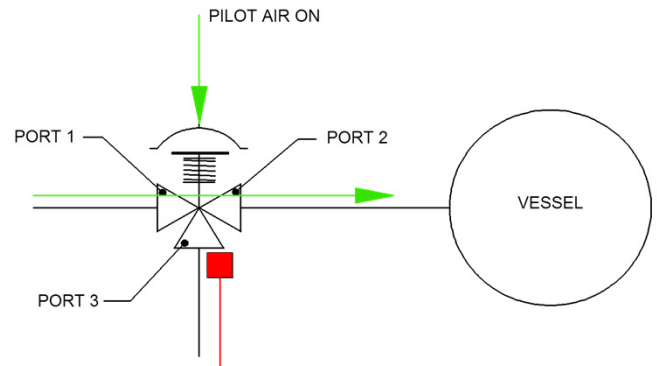
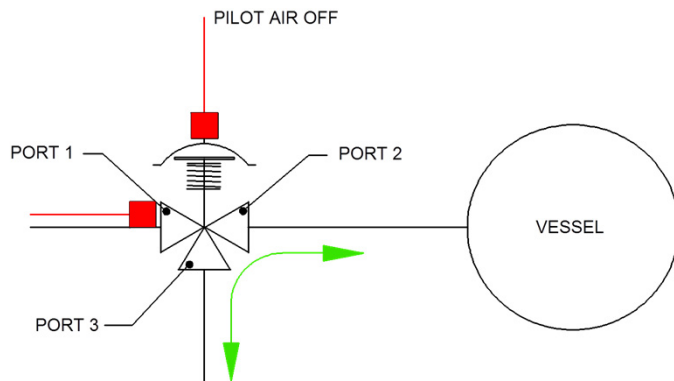


3 Way N/C 500 PSI					
	VALVE NUMBER	D2621	D2631	D2641	D2651
	Cv RATING	Cv 12.5	Cv 16	Cv 23.5	Cv30.25
ITEM	DESCRIPTION	PART #	PART #	PART #	PART #
1	LID	C293-023DR	C293-023DR	C293-030DR	C293-030DR
2*	DIAPHRAGM	C333-053D	C333-053D	C333-051D	C333-051D
3	RING	C893-015D-SS	C893-015D-SS	C893-022D-SS	C893-022D-SS
4	LOCK WASHER	H175-21	H175-21	H175-21	H175-21
5	HEX BOLT	H096-55	H096-55	H096-50	H096-50
6	YOKE	D283-025D-SS	D283-025D-SS	D283-062D-SS	D283-062D-SS
7	PACKING GLAND	C113-056D	C113-056D	C013-008D-SS	C013-008D-SS
8	STEM	D093-024D	D093-024D	D093-025D	D093-025D
9*	SEAL	C343-12VP	C343-12VP	C343-35D	C343-35D
10	STEM WASHER	C353-012D	C353-012D	C353-013D	C353-013D
11	SOFT NUT	C553-017D	C553-017D	C553-024D	C553-024D
12	SEAT	C963-032D	C963-050D	C963-053D	C963-051D
13	HEX BOLT	H096-10	H096-10	H096-10	H096-10
14	HEX NUT	H060-03	H060-03	H060-03	H060-03
15	PISTON	C783-044D-IC	C783-044D-IC	C783-081D-AL	C783-081D-AL
16	SPRING RETAINER			C883-069D	C883-069D
17	SPRING	D293-028-5DR	D293-028-5DR	D293-147-5DR	D293-147-5DR
18	SNAP RING	H090-16	H090-16		
19	PACKING NUT BRUSHING	DF523	DF523	DF524	DF524
20	PACKING NUT	C853-093D	C853-093D	C563-009D-SS	C563-009D-SS
21	PACKING NUT ASSEMBLY	C853-091D	C853-091D		
22*	PACKER	H220-21	H220-21	H220-20	H220-20
23*	PACKER	C683-076D	C683-076D	C683-050D	C683-050D
24	PACKING SPREADER	C713-017D	C713-017D	C713-003D	C713-003D
25	PACKING SPRING	D293-131Y	D293-131Y	D293-001Y	D293-001Y
26	PACKING KIT	C242-024D	C242-024D	C242-021D	C242-021D
27	UNION NUT	C663-022D-SS	C663-022D-SS	C663-022D-SS	C663-026D-SS
28	BODY	VP400-SS	VP401-SS	DB506-SS	DB507-SS
29*	GASKET	C383-080D	C383-080D	C383-082D	C383-082D
	SERVICE KIT	D621-S	D631-S	D641-S	D651-S

DURBIN 500 PSI SERIES

DURBIN INDUSTRIAL VALVE

BASIC 3-WAY PIPING SCHEMATIC



ORDERING INFORMATION

Example: D2631= 3/4", 3-Way, Normally Closed, 500 psi Valve with NPT threaded ports

D				
	2-WAY 28	1/2" 2	N/O 0	NPT N
	3-WAY 26	3/4" 3	N/C 1	BSP B
		1" 4		
		1 1/4" 5		