



LOW FLOW CONTROL VALVES
DURBIN INDUSTRIAL VALVE

Durbin Industrial Valve
Low Flow Control Valves



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Features:

Valve Type: [Globe](#)

Function: Control

Action: Normally Closed

Actuation: Pneumatic

Pilot Range: 3-15 psi / 6-30 psi (0.2-1.0 bar / 0.4-2.0 bar)

Sizes: ½", ¾" (DN 15 to DN 20)

Pressure Ratings: Up to 500 psi (34 bar) ASME Class 300

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 3.2

Flow Characteristics: Linear/Equal percentage hybrid

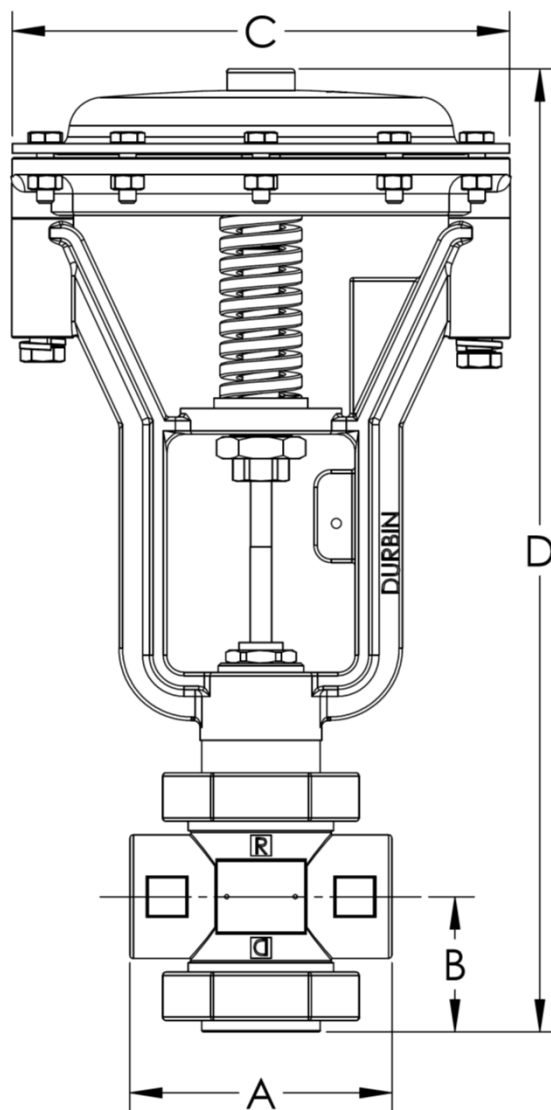
Media: Most process fluid types; gas, liquids and steam

Overview: The Durbin Low-Flow control valve (LF™) is engineered to provide accurate control of low to high pressures and/or temperatures while maintaining high energy efficiency and providing a long service life.

Materials of Construction: The Low-Flow's wetted components are made entirely from corrosion-resistant materials. The valve body, actuating stem and seat are all constructed from stainless steel. The valve seal is made from a durable thermoplastic that withstands high temperatures and extreme process conditions. Packing consists of a strong PTFE material.

Application: The LF™ is great for applications where precise control needs to be maintained from low to high temperatures and pressures using the same valve. The unique flow profile allows for very tight control up to 60% of travel then tapers quickly to allow for a large ramp rate. This type of profile allows this valve to be used in a wide variety of applications where tight control and quick fill times are needed.

VALVE DIMENSIONS

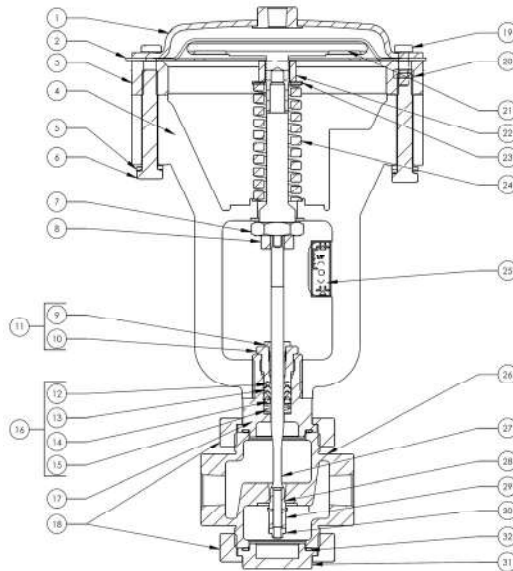


LOW FLOW DIMENSIONS					
ITEM		A	B	C	D
NPT	IN	3.83	2.00	7.50	14.00
	mm	97.0	51.0	191.0	356.0
FLANGED	IN	7.69	2.00	7.50	14.00
	mm	195.0	51.0	191.0	356.0

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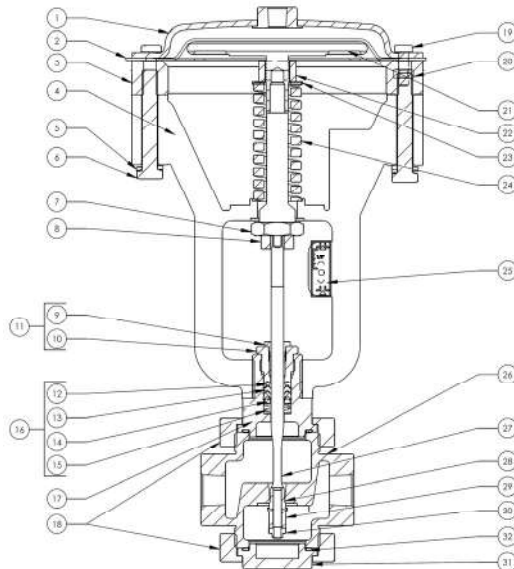
LOW FLOW PARTS LIST 3-15 PSI



	VALVE NUMBER	D352-21061	D352-23061	D352-32061	D352-22061	D352-24061	D352-33061
	SIZE	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
	PILOT PRESSURE	3-15 PSI	3-15 PSI	3-15 PSI	3-15 PSI	3-15 PSI	3-15 PSI
	Cv RATING	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX
ITEM	DESCRIPTION	PART #	PART #	PART #	PART #	PART #	PART #
1	LID	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE
2*	DIAPHRAGM	C333-073D	C333-073D	C333-073D	C333-073D	C333-073D	C333-073D
3	RING	C893-015D-SS	C893-015D-SS	C893-015D-SS	C893-015D-SS	C893-015D-SS	C893-015D-SS
4	YOKE	D283-021D-SS	D283-021D-SS	D283-021D-SS	D283-021D-SS	D283-021D-SS	D283-021D-SS
5	LOCK WASHER	H175-21	H175-21	H175-21	H175-21	H175-21	H175-21
6	HEX BOLT 3/8	H096-55	H096-55	H096-55	H096-55	H096-55	H096-55
7	UPPER STEM	D143-031D	D143-031D	D143-031D	D143-031D	D143-031D	D143-031D
8	SWIVEL NUT	C913-012D	C913-012D	C913-012D	C913-012D	C913-012D	C913-012D
9	PACKING NUT BUSHING	VP524	VP524	VP524	VP524	VP524	VP524
10	PACKING NUT	C853-092D	C853-092D	C853-092D	C853-092D	C853-092D	C853-092D
11	PACKING NUT ASSY	C853-090D	C853-090D	C853-090D	C853-090D	C853-090D	C853-090D
12*	BLACK PACKER	C683-070D	C683-070D	C683-070D	C683-070D	C683-070D	C683-070D
13*	WHITE PACKER	C683-069D	C683-069D	C683-069D	C683-069D	C683-069D	C683-069D
14	PACKER SPREADER	C713-012D	C713-012D	C713-012D	C713-012D	C713-012D	C713-012D
15	PACKING SPRING	D293-104Y	D293-104Y	D293-104Y	D293-104Y	D293-104Y	D293-104Y
16	PACKING KIT	C242-015D	C242-015D	C242-015D	C242-015D	C242-015D	C242-015D
17	PACKING GLAND	C113-058D	C113-058D	C113-058D	C113-058D	C113-058D	C113-058D
18	UNION NUT	C663-022D-SS	C663-022D-SS	C663-022D-SS	C663-022D-SS	C663-022D-SS	C663-022D-SS
19	HEX BOLT 1/4	H096-10	H096-10	H096-10	H096-10	H096-10	H096-10
20	HEX NUT 1/4	H060-03	H060-03	H060-03	H060-03	H060-03	H060-03
21	PISTON	C783-045D-IC	C783-045D-IC	C783-045D-IC	C783-045D-IC	C783-045D-IC	C783-045D-IC
22	ADJUSTING NUT	H060-26	H060-26	H060-26	H060-26	H060-26	H060-26
23	SPRING WASHER	C133-006D	C133-006D	C133-006D	C133-006D	C133-006D	C133-006D
24	SPRING	D293-079S	D293-079S	D293-079S	D293-079S	D293-079S	D293-079S
25	N/C TRAVEL TAG	C009D	C009D	C009D	C009D	C009D	C009D
26	BODY	LF400-SS	LF400-SS	LF400-SS	LF401-SS	LF401-SS	LF401-SS
27	STEM	D093-039D	D093-039D	D093-039D	D093-039D	D093-039D	D093-039D
28*	SEAL	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST
29	STEM WASHER	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS
30	STEM NUT	C913-013D	C913-013D	C913-013D	C913-013D	C913-013D	C913-013D
31	BOTTOM CAP 1/2	C213-016D-SS	C213-016D-SS	C213-016D-SS	C213-016D-SS	C213-016D-SS	C213-016D-SS
32*	BODY GASKET	C383-080D	C383-080D	C383-080D	C383-080D	C383-080D	C383-080D
	SERVICE KIT	D21061-S	D23061-S	D32061-S	D22061-S	D24061-S	D33061-S

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

LOW FLOW PARTS LIST 6-30 PSI



	VALVE NUMBER	D352-34061	D352-34161	D352-34261	D352-35061	D352-35161	D352-35261
	SIZE	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
	PILOT PRESSURE	6-30 PSI	6-30 PSI	6-30 PSI	6-30 PSI	6-30 PSI	6-30 PSI
	Cv RATING	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX	3.0 Cv MAX
ITEM	DESCRIPTION	PART #	PART #	PART #	PART #	PART #	PART #
1	LID	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE	C293-023DBLUE
2*	DIAPHRAGM	C333-073D	C333-073D	C333-073D	C333-073D	C333-073D	C333-073D
3	RING	C893-015D-SS	C893-015D-SS	C893-015D-SS	C893-015D-SS	C893-015D-SS	C893-015D-SS
4	YOKE	D283-021D-SS	D283-021D-SS	D283-021D-SS	D283-021D-SS	D283-021D-SS	D283-021D-SS
5	LOCK WASHER	H175-21	H175-21	H175-21	H175-21	H175-21	H175-21
6	HEX BOLT 3/8	H096-55	H096-55	H096-55	H096-55	H096-55	H096-55
7	UPPER STEM	D134-031D	D134-031D	D134-031D	D143-031D	D143-031D	D143-031D
8	SWIVEL NUT	C913-012D	C913-012D	C913-012D	C913-012D	C913-012D	C913-012D
9	PACKING NUT BUSHING	VP524	VP524	VP524	VP524	VP524	VP524
10	PACKING NUT	C853-092D	C853-092D	C853-092D	C853-092D	C853-092D	C853-092D
11	PACK NUT ASSY	C853-090D	C853-090D	C853-090D	C853-090D	C853-090D	C853-090D
12*	BLACK PACKER	C683-070D	C683-070D	C683-070D	C683-070D	C683-070D	C683-070D
13*	WHITE PACKER	C683-069D	C683-069D	C683-069D	C683-069D	C683-069D	C683-069D
14	PACKER SPREADER	C713-012D	C713-012D	C713-012D	C713-012D	C713-012D	C713-012D
15	PACKING SPRING	D293-104Y	D293-104Y	D293-104Y	D293-104Y	D293-104Y	D293-104Y
16	PACKING KIT	C242-015D	C242-015D	C242-015D	C242-015D	C242-015D	C242-015D
17	PACKING GLAND	C113-058D	C113-058D	C113-058D	C113-058D	C113-058D	C113-058D
18	UNION NUT	C663-022D-SS	C663-022D-SS	C663-022D-SS	C663-022D-SS	C663-022D-SS	C663-022D-SS
19	HEX BOLT 1/4	H096-10	H096-10	H096-10	H096-10	H096-10	H096-10
20	HEX NUT 1/4	H060-03	H060-03	H060-03	H060-03	H060-03	H060-03
21	PISTON	C783-045D-IC	C783-045D-IC	C783-045D-IC	C783-045D-IC	C783-045D-IC	C783-045D-IC
22	HEX NUT 5/8	H060-26	H060-26	H060-26	H060-26	H060-26	H060-26
23	SPRING WASHER	C133-006D	C133-006D	C133-006D	C133-006D	C133-006D	C133-006D
24	SPRING	D293-078S	D293-078S	D293-078S	D293-078S	D293-079S	D293-079S
25	N/C TRAVEL TAG	C009D	C009D	C009D	C009D	C009D	C009D
26	BODY	LF400-SS	LF400-SS	LF400-SS	LF401-SS	LF401-SS	LF401-SS
27	STEM	D093-039D	D093-039D	D093-039D	D093-039D	D093-039D	D093-039D
28*	SEAL	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST	C343-07LF CAST
29	STEM WASHER	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS	C913-015D 17-4SS
30	STEM NUT	C913-013D	C913-013D	C913-013D	C913-013D	C913-013D	C913-013D
31	BOTTOM CAP	C213-016D-SS	C213-016D-SS	C213-016D-SS	C213-016D-SS	C213-016D-SS	C213-016D-SS
32*	BODY GASKET	C383-080D	C383-080D	C383-080D	C383-080D	C383-080D	C383-080D
	SERVICE KIT	D34061-S	D34161-S	D34261-S	D35061-S	D35161-S	D35261-S



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Typical Flow Profile Low Flow Control Valves

