

BUTTERFLY VALVES LD/WD 141 SERIES

General Purpose Butterfly Valves

Apollo International LD/WD 141 Series

The Apollo LD141/WD141 Series ductile iron butterfly valves are ideal for use in industrial and HVAC/mechanical applications. The WD141 Series is a wafer style valve and the LD141 Series is a companion lug style.



WD 141
Wafer

LD 141
Lug

FEATURES

- Compatible with ANSI 125# & 150# flanges
- ISO 5211 top plate allows choice of apollo pneumatic actuators and manual operators
- Conforms to MSS SP-67 & API 609
- LD141 Series suitable for end of line service to rated pressure
- 3"-24" meet performance requirements of AWWA C-504

PRESSURE RATINGS

- 2" to 12": 200 psi
- 14" to 24": 150 psi

*Torque Rating (in. lbs.)

Valve Size (in.) (mm)	Full Rated Pressures (psig)				Flow Cv Full Open
	ΔP50	ΔP100	ΔP150	ΔP200	
2 50	100	106	111	117	115
2.5 65	150	163	176	189	196
3 80	207	220	232	244	302
4 100	290	323	357	390	600
5 125	423	481	540	598	1022
6 150	599	691	783	875	1579
8 200	1060	1183	1307	1430	3136
10 250	1671	1872	2074	2275	5340
12 300	2568	2795	3023	3250	8250
14 350	2640	3070	3500	N/A	11917
16 400	4260	4880	5500	N/A	16388
18 450	6287	7243	8200	N/A	21705
20 500	8360	9180	10000	N/A	27908
24 600	15427	16813	18200	N/A	43116

*Lubricating media service

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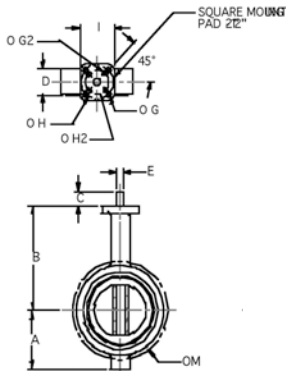
Series	Size	Disc Material	Seat Material	Operator
WD141 = Wafer body LD141 = Lug body	02 = 2" 25 = 2.5" 03 = 3" 04 = 4" 05 = 5" 06 = 6" 08 = 8" 10 = 10" 12 = 12" 14 = 14" 16 = 16" 18 = 18" 20 = 20" 24 = 24"	B = Aluminum bronze D = Ductile iron A536 nickel plated S = Stainless steel, CF8M	E = EPDM -30°F to 275°F N = Buna-N 10°F to 180°F	0 = None (bare stem) 1 = 10 position handle 2 = Gear operator 3 = Infinite position handle 4 = Locking handle 5 = Gear operator w/ chainwheel 7 = Locking gear operator 8 = Locking gear operator w/chainwheel

BUTTERFLY VALVES LD/WD 141 SERIES

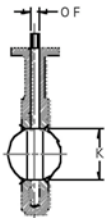
General Purpose Butterfly Valves

Apollo International
LD/WD 141 Series

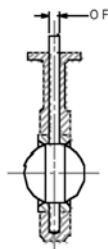
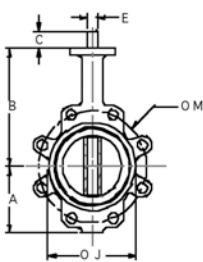
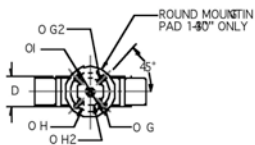
DOUBLE-D AND KEYED STEM



Size (in)	Size (mm)	Dimensions								
		A	B	C	D	E	ØF	G	G2	Key
2	50	3.25	6.375	1.25	1.75	0.394	0.496	0.375	--	--
2-1/2	65	3.75	6.880	1.25	1.88	0.394	0.496	0.375	--	--
3	80	4.00	7.130	1.25	1.88	0.394	0.496	0.375	--	--
4	100	4.88	7.880	1.25	2.13	0.472	0.621	0.375	--	--
5	125	5.38	8.380	1.25	2.25	0.551	0.745	0.375	--	--
6	150	5.88	8.880	1.25	2.25	0.551	0.745	0.375	--	--
8	200	7.13	10.250	1.75	2.50	0.669	0.870	0.563	0.438	--
10	250	8.25	11.500	1.88	2.75	0.866	1.120	0.563	0.438	--
12	300	9.75	13.250	1.88	3.13	0.866	1.244	0.563	--	--
14	350	11.00	14.500	1.88	3.13	0.945	1.244	0.563	--	--
16	400	12.00	15.750	2.00	3.50		1.313	0.563	--	.313 sq
18	450	14.38	16.630	2.00	4.25		1.500	0.813	--	.375 sq
20	500	14.63	18.880	2.50	5.25		1.625	0.813	--	.375 sq
24	600	18.00	22.130	2.75	6.13		2.000	0.813	--	.500 sq



Size (in.)	Dimensions									
	H	H2	I	J	K	L	N (141)	M	# Holes	Tap UNC
2	2.756	--	2.699	4.00	2.09	1.113	0.688	4.75	4	.625-11
2-1/2	2.756	--	2.699	4.75	2.54	1.706	0.688	5.50	4	.625-11
3	2.756	--	2.699	5.13	3.09	2.450	0.688	6.00	4	.625-11
4	2.756	--	2.699	6.75	4.09	3.488	0.688	7.50	8	.625-11
5	2.756	--	2.699	7.75	4.85	4.296	0.813	8.50	8	.750-10
6	2.756	--	2.699	8.63	6.13	5.697	0.813	9.50	8	.750-10
8	4.921	4.015	4.606	10.56	7.89	7.468	0.813	11.75	8	.750-10
10	4.921	4.015	4.606	13.06	9.89	9.484	0.938	14.25	12	.875-9
12	4.921	--	4.606	16.00	11.89	11.456	0.938	17.00	12	.875-9
14	4.921	--	Ø5.91	17.13	13.38	13.000	1.060	18.75	12	1.00-8
16	4.921	--	Ø5.91	20.00	15.38	14.970	1.060	21.25	16	1.00-8
18	6.496	--	Ø8.27	21.38	17.38	16.847	1.250	22.75	16	1.125-7
20	6.496	--	Ø8.27	23.31	19.38	18.650	1.250	25.00	20	1.125-7
24	6.496	--	Ø8.27	27.88	23.38	22.558	1.380	29.50	20	1.125-7



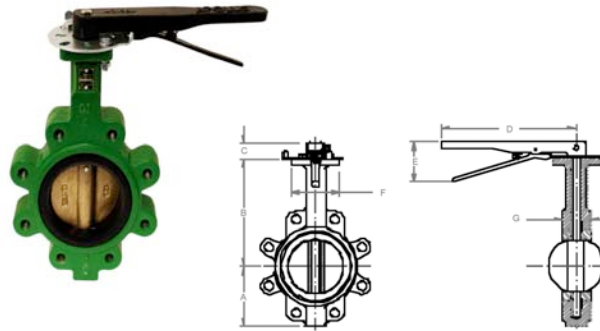
Valve (in.)	(mm)	Weight (lbs)	
		WD141 Series	LD141 Series
2	50	6	8
2-1/2	65	6	10
3	80	7	11
4	100	11	17
5	125	113	20
6	150	16	23
8	200	29	39
10	250	44	62
12	300	70	97
14	350	-	148
16	400	-	206
18	450	-	277
20	500	-	410
24	600	-	592

BUTTERFLY VALVES LC149 SERIES

Contractor Grade Butterfly Valves

Apollo International LC149 Series

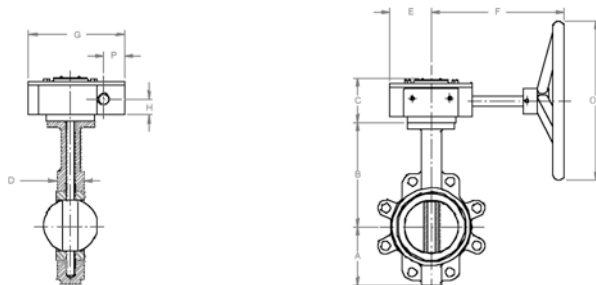
The Apollo LC149 Series cast iron butterfly valves are ideal for use in Industrial and HVAC/Mechanical applications. The LC149 Series is a lug style valve designed to be economical yet have high pressure capabilities.



FEATURES

- Compatible with ANSI 125# & 150# flanges
- ISO 5211 top plate allows choice of Apollo pneumatic actuators and manual operators
- "Double-D" stem design
- Conforms to MSS SP-67 & API 609 & ISO 5752
- Suitable for end of line service to rated pressure
- Extended neck for up to 2" of insulation
- Max operating pressure, 200 psi; temperature range, -30°F to 275°F

Size (in)	Dimensions						
	A	B	C	D	E	F	G
2	3.25	6.38	1.25	10.50	3.00	2.70	1.75
2-1/2	3.75	6.88	1.25	10.50	3.00	2.70	1.88
3	4.00	7.13	1.25	10.50	3.00	2.70	1.88
4	4.88	7.88	1.25	10.50	3.00	2.70	2.13
5	5.38	8.38	1.25	10.50	3.00	2.70	2.25
6	5.88	8.88	1.25	10.50	3.00	2.70	2.25
8	7.13	10.25	2.00	14.00	3.75	4.61	2.50



Size (in)	Dimensions									
	A	B	C	D	E	F	G	H	P	ØR
6	5.88	8.88	3.38	2.25	3.09	9.16	7.20	1.45	1.58	11.88
8	7.13	10.25	3.38	2.50	3.25	9.48	8.00	1.62	1.50	11.88
10	8.25	11.50	3.38	2.75	3.25	9.48	8.00	1.62	1.50	11.88
12	9.75	13.25	3.38	3.13	3.25	9.48	8.00	1.62	1.50	11.88

*Torque Rating (in. lbs.)

Valve Size (in.) (mm)	Full Rated Pressures (psig)				Flow Cv Full Open
	ΔP50	ΔP100	ΔP150	ΔP200	
2 50	100	106	111	117	115
2.5 65	150	163	176	189	196
3 80	207	220	232	244	302
4 100	290	323	357	390	600
5 125	423	481	540	598	1022
6 150	599	691	783	875	1579
8 200	1060	1183	1307	1430	3136
10 250	1671	1872	2074	2275	5340
12 300	2568	2795	3023	3250	8250

*Lubricating media service

LC149 - XX - X

Series	Size	Operator
LC149 = Lug body	02 = 2"	0 = None (bare stem)
	25 = 2.5"	1 = 10 position handle
	03 = 3"	2 = Gear operator
	04 = 4"	3 = Infinite position handle
	05 = 5"	4 = Locking handle
	06 = 6"	5 = Gear operator w/ chainwheel
	08 = 8"	7 = Locking gear operator
	10 = 10"	8 = Locking gear operator w/chainwheel