

# Butterfly Valves

## Butterfly Valves

### LD/WD141 SERIES



WD 141  
Wafer

LD 141  
Lug

### GENERAL PURPOSE/ECONOMY BUTTERFLY VALVES

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.

#### 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

#### STANDARD MATERIALS

Body	Ductile Iron ASTM A536
Bushings	PTFE
Stem Seal	Buna-N
Shaft	416 SS ASTM A276 Type 416

### How To Specify Apollo® WD/LD141 Series Butterfly Valves

EXAMPLE: WD141-06-BE-11; 6" WD141 Series, Ductile Iron Wafer Body, Aluminum Bronze Disc, EPDM Seat, 416 SS Shaft with 10 Position Handle

XX	141	-	XX	-	X	-	1	X
SERIES	SIZE (in.)	DISC MATERIAL	SEAT MATERIAL	OPERATOR				
WD141 Wafer	02 2"	B Aluminum Bronze	E EPDM -30°F	0 None (Bare Stem)				
Body	25 2.5"	D Ductile Iron A536	to +275°F	1 10 Position Handle				
LD141 Lug	03 3"	Nickel Plated	N BUNA-N +10°F	2 Gear Operator				
Body	04 4"	S Stainless Steel, CF8M	to +180°F	3 Infinite Position Handle				
	05 5"		V VITON	4 Locking Handle				
	06 6"			5 Gear Operator w/Chainwheel				
	08 8"			7 Locking Gear Operator				
	10 10"			8 Locking Gear Operator w/Chainwheel				
	12 12"							
	14 14"							
	16 16"							
	18 18"							
	20 20"							
	24 24"							

#### \*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

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### PRESSURE RATINGS

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

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### 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.)	Weight (lbs)	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

