





A history of **Quality, Service** and **Innovation**

Now in its ninth decade, Conbraco Industries, Inc. is a leading manufacturer of flow control products for U.S. and international markets. The company's headquarters is based in Matthews, North Carolina with manufacturing plants and foundries located in Pageland and Conway, South Carolina.

Conbraco has a history of new product development and innovation that dates back to the company's inception in 1928. Today, the Conbraco line of products is marketed under the "Apollo Valves" brand and includes: ball valves, butterfly valves, backflow prevention devices, water pressure reducing valves, mixing valves, safety relief valves, water gauges, strainers, vacuum breakers, valve actuators and more.

Conbraco's vertically integrated manufacturing ensures a consistency of production, testing, quality and availability. It's your assurance that Conbraco flow control products will deliver long term performance advantages. All Conbraco plants are registered to ISO 9001:2008 quality standards.

The Conbraco line continues to expand - with new products, designs and advanced materials - to better serve the needs of our customers in the chemical processing, pulp and paper, petroleum, residential and commercial plumbing and heating markets, as well as manufacturing and other markets.



PAGELAND, SC Bronze Foundry and Manufacturing Plant



Internationa

PAGELAND, SC Final Assembly and Distribution Center



CONWAY, SC Steel Foundry and Manufacturing Plant



MATTHEWS, NC Corporate Headquarters

Apollo® International iron bodied butterfly valves offer an economical, bubble-tight shut-off design that's ideal for use in commercial HVAC and plumbing as well as irrigation and select industrial applications. These valves are rated to 200 psig in sizes 2" through 12" and 150 psig in sizes 14" and larger. Apollo International butterfly valves are available with a variety of options and are easily automated.

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Advantages – 141 Series

WD141: One-piece wafer-style, sizes 2" to 12"

LD141: Lug valves, sizes 2" to 24"

Both models come equipped with an extended neck providing at least 2" clearance between the valve top plate and pipe flange to allow ease of insulation installation.

(1) Body Design

Ductile Iron ASTM A536

<u>WD141 Model:</u> a one-piece wafer design with flange locating holes in larger sizes (8" to 12")

<u>LD141 Model:</u> valves are full lug with tapped lugs, to ANSI 125/150 drilling. Face-to-face dimensions meet universal interchangeability standards outlined in MSS SP-67 and API 609.

(2) Blowout Proof Seat with Molded in Stiffener Ring

Valves are equipped with a stretch-resistant, non-collapsible blowout-proof seat. Phenolic Stiffener Ring (2"-12") Aluminum Stiffener Ring (14"-24")

(3) Seat – No Gaskets Required

Design of the seat eliminates the need to use flange gaskets with the valves.

(4) Mounting Flange For Actuator

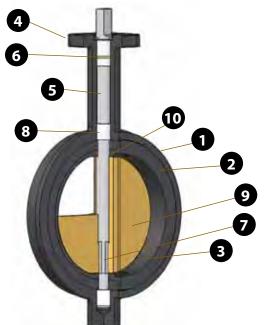
Valve's cast-in top plate is designed to ISO 5211 standard dimensions for mounting of Apollo® actuators and manual operators.

(5) Through Shaft

Assures positive disc positioning and dependable performance.

(6) Weather Seal

All models are equipped with a shaft weather seal that prevents external media from entering the shaft bore.



(7) Square Shaft-to-Disc Connection

Provides a robust shaft-to-disc connection without pins or bolts. Easy maintenance.

(8) Three Bushings

Supports shaft at three locations to enhance shaft alignment and absorb actuator side thrusts.

(9) Profiled Disc Design

Precision disc assures bubble-tight shut-off with minimal torque and longer seat life.

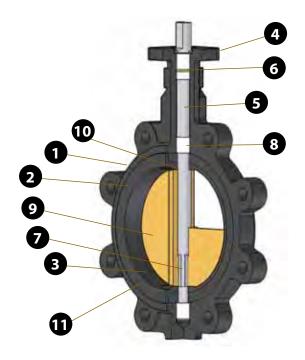
(10) Shaft Seal

The shaft diameter is greater than the diameter of the seat's shaft hole creating a robust shaft seal. The stiffening ring molded into the seat guards against distortion, a frequent cause of shaft leakage.

(11) End of Line Service

All 2" to 24" LD Model valves are equipped with retainer screws for dead end service; 2" through 12" to 200 psig, 14" through 24" to 150 psig.

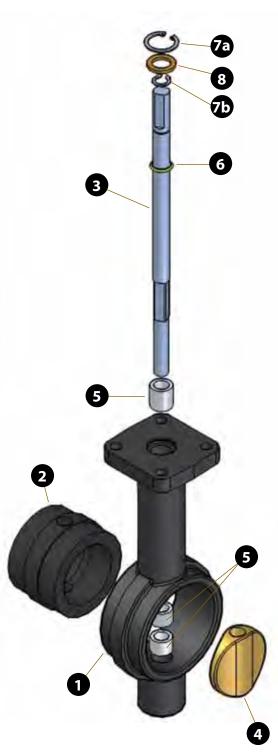
<u>Testing:</u> All valves are 100 percent factory tested before shipping.





For additional information, submittal sheets and manuals, visit www.apollovalves.com

General Purpose Butterfly Valves – 141 Series



Exploded View
WD141 – Wafer Design Shown

	PAR	TS LIST – 141 SERIES	
ltem	Description	Material	Qty
1	Body	Ductile Iron ASTM A536 (65-45-12)	1
2	Seat	EPDM* or Buna-N (Nitrile)* or FKM*	1
3	Shaft	416 Stainless Steel ASTM A564	1
4	Disc	Nickel Plated Ductile Iron ASTM A536 (65-45-12) or Aluminum-Bronze ASTM B148, C95400 or 316 Stainless Steel A STM A351, Type CF8M	1
5	Bushing	PTFE	3
6	Weather Seal	EPDM	1
7a	Retainer	Steel with Protective Finish	1
7b	Retainer	Steel with Protective Finish	1
8	Washer	Brass	1
9	Set Screws (Flat Point)	Steel with Protective Finish	2 to 6
10	Set Screws (Cone Point)	Steel with Protective Finish	2 to 6
11	Nameplate		1

^{2&}quot; - 12" has a phenolic stiffening ring molded into the seat.
14" - 24" has an aluminum stiffening ring molded into the seat.

AVAILABLE OPTIONS

10 Position Handle
Gear Operator
Infinite Position Handle
Locking Handle
Gear Operator with Chain Wheel
Locking Gear Operator
Locking Gear Operator with Chain Wheel



Specifications – 141 Series

DESIGN SPECIFICATIONS

WD141 (wafer body design) LD141 (single flange, lug body design)
Designed to fully comply with MSS SP-25, MSS SP-67, and API 609
Meets the intent and passed AWWA C-504 Section 5* proof of design tests
Extended neck to allow up to 2" of insulation
Dead-End Service: Lug style valves are suitable for end of line service to their rated pressure without the use of a downstream flange
Ideal for ON/OFF and throttling service
Designed for extended service with minimal wear and maintenance. No regular lubrication is necessary
Compatible with ASME Class 125 and Class 150 weld neck or slip-on flanges
Larger wafer body design includes four alignment holes 8" to 12" (DN200 to DN300) WD141
Polyester Body Coating: • Resistant to ultra-violet radiation • Resists a broad range of chemicals including dilute acids, alkalis, solvents alcohols, greases, oils • Resists most impacts without chipping or cracking
 Cartridge Style Seat: Isolates body and stem from the media Provides mating flange seals eliminating the need for separate flange gaskets Provides positive shut-off of line media at rated pressures
EPDM and Buna-N (Nitrile) Seats are Food Grade as standard
Profiled Disc design assures bubble-tight shut-off, minimal torque and longer seal life
Double-D shaft drive 2" to 14" (DN50 - DN350) Round and keyed shaft drive 16" to 24" (DN400 - DN600)
Blow-out Proof Shaft
Upper and lower shaft bearing ensure longer seat life and lower operating torque
Actuator mounting flange (top plate) conforms to ISO 5211 which allows choice of lever operators, gears and direct mounting of many Apollo pneumatic and electric actuators

SIZE RANGE

WD141 (wafer body design): 2"-12" (DN50 - DN300) LD141 (single flange body design): 2"-24" (DN50 - DN600)

PRESSURE-TEMPERATURE RATING AT 100°F (37.8°C)

All Body, Disc, Seat Combinations

2"-12" (DN50 - DN300) 200 psi (13.8 bar) 14"-24" (DN350 - DN600) 150 psi (10.3 bar) All Sizes – Vacuum Rating 29 inches of Hg

TEMPERATURE RATING - SEATS

EPDM -30° F (-34° C) to 275° F (135° C) Buna-N (Nitrile) 10° F (-12° C) to 180° F (82° C) Viton° B -15° F (-26° C) to 400° F (204° C)

FLANGE DRILLING

ANSI 125/150 Drilling Standard

• WD141 -- wafer body design: 8"to 12" (DN200 to DN300) include four alignment holes

TESTING

Every LD141 and WD141 is fully tested prior to shipment. Testing includes a body shell test, a seat test, and a cycling test to insure proper functioning of moving parts. Additional testing is also available. Please let us know your requirements.

SHUTOFF PERFORMANCE

Zero Leakage. Bubble Tight. All Sizes

ANSI/FCI 70-2 establishes a series of six leakage classes for control valves and defines the test procedure. Class VI allows the least leakage. LD141's and WD141's are bubble tight, which exceeds Class VI requirements.

^{*}Specification applies to 3" - 24" valves

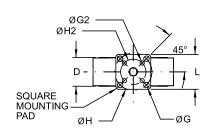


SPECIFICATIONS

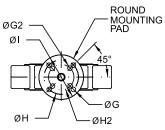
General Purpose Butterfly Valves – 141 Series

LD MODEL

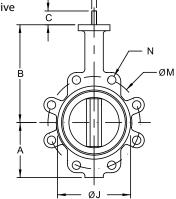
2" - 12"

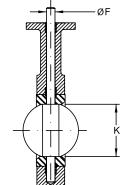






Double-D Shaft Drive

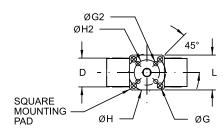


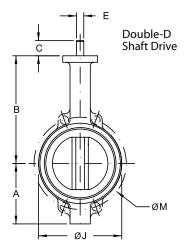


Shaft Drive: Double-D (14") Round & Keyed (16" & larger)

WD MODEL

2"-12"





General Purpose Butterfly Valves – 141 Series

Size	Size		Dimensions in Inches – 141 Series								
Inches	DN	A	В	C	D	E	ØF	ØG	ØG2	Key	
2	50	3.25	6.38	1.25	1.75	0.394	0.496	0.375			
2-1/2	65	3.75	6.88	1.25	1.88	0.394	0.496	0.375			
3	80	4.00	7.13	1.25	1.88	0.394	0.496	0.375			
4	100	4.88	7.88	1.25	2.13	0.472	0.621	0.375			
5	125	5.38	8.38	1.25	2.25	0.551	0.745	0.375			
6	150	5.88	8.88	1.25	2.25	0.551	0.745	0.375			
8	200	7.13	10.25	1.75	2.50	0.669	0.870	0.563	0.438		
10	250	8.25	11.50	1.88	2.75	0.866	1.120	0.563	0.438		
12	300	9.75	13.25	1.88	3.13	0.945	1.244	0.563			
14	350	11.00	14.50	1.88	3.13	0.945	1.244	0.563			
16	400	12.00	15.75	2.00	3.50		1.313	0.563		.313 sq	
18	450	14.38	16.63	2.00	4.25		1.500	0.813		.375 sq	
20	500	14.63	18.88	2.50	5.25		1.625	0.813		.375 sq	
24	600	18.00	22.13	2.75	6.13		2.000	0.813		.500 sq	

Size	Dimensions in Inches – 141 Series												
Inches	ØH	ØH2	ØI	ØJ	K	L	M	N (# Holes)	N (Tap UNC)				
2	2.756		2.70	4.00	2.09	1.113	4.75	4	.625-11				
2-1/2	2.756		2.70	4.75	2.54	1.706	5.50	4	.625-11				
3	2.756		2.70	5.13	3.09	2.450	6.00	4	.625-11				
4	2.756		2.70	6.75	4.09	3.488	7.50	8	.625-11				
5	2.756		2.70	7.75	4.85	4.296	8.50	8	.750-10				
6	2.756		2.70	8.63	6.13	5.697	9.50	8	.750-10				
8	4.921	4.015	4.61	10.56	7.89	7.468	11.75	8	.750-10				
10	4.921	4.015	4.61	13.06	9.89	9.484	14.25	12	.875-9				
12	4.921		4.61	16.00	11.89	11.456	17.00	12	.875-9				
14	4.921		ø5.91	17.13	13.38	13.000	18.75	12	1.00-8				
16	4.921		ø5.91	20.00	15.38	14.970	21.25	16	1.00-8				
18	6.496		ø8.27	21.38	17.38	16.847	22.75	16	1.125-7				
20	6.496		ø8.27	23.31	19.38	18.650	25.00	20	1.125-7				
24	6.496		ø8.27	27.88	23.38	22.558	29.50	20	1.125-7				

Approximate Weight for Bare Shaft Valve

Valve	Size	WD141 Model	LD141 Model
Inches	DN	Lbs (kg)	Lbs (kg)
2	50	6 (2.7)	8 (3.6)
2.5	65	6 (2.7)	10 (4.5)
3	80	7(3.2)	11 (5.0)
4	100	11 (5.0)	17 (7.7)
5	125	13 (5.9)	20 (9.1)
6	150	16 (7.3)	23 (10.4)
8	200	29 (13.2)	39 (17.7)
10	250	44 (20.0)	62 (28.1)
12	300	70 (31.8)	97 (44.0)
14	350		148 (67.1)
16	400		206 (93.4)
18	450		277 (125.6)
20	500		410 (186.0)
24	600		592 (268.5)



Operating Torque – 141 Series and 149 Series

All torque valves shown in the chart are for wet (water and other non-lubricating media) on-off service. For dry services (non-lubricating, dry gas media) multiply the values by 1.15. For lubricous services (clean, non-abrasive lubricating media) multiply values by 0.85.

Under certain conditions, hydrodynamic torque can meet or exceed seating and unseating torques. When designing valve systems, hydrodynamic torque must be considered to help ensure correct selection of actuation.

Torque Rating (in. lbs.)

Valve	Size ¹	Ful	l Rated Pr	essures (p	sig)
Inches	DN	ΔΡ50	ΔΡ100	ΔΡ150	ΔΡ200
2	50	100	106	111	117
2.5	65	150	163	176	189
3	80	207	220	232	244
4	100	290	323	357	390
5	125	423	481	540	598
6	150	599	691	783	875
8	200	1060	1183	1307	1430
10	250	1671	1872	2074	2275
12	300	2568	2795	3023	3250
14	350	2640	3070	3500	N/A
16	400	4260	4880	5500	N/A
18	450	6287	7243	8200	N/A
20	500	8360	9180	10000	N/A
24	600	15427	16813	18200	N/A

¹ LD141 (2"-24"); WD141 (2"-12"); LC149 (2"-12")

Cv Data - 141 Series and 149 Series

Cv values (US gallons per minute) represent the flow of 60°F water through a 100% open valve at a pressure drop of 1 psi.

The metric equivalent, Kv, is the flow of water at $+16^{\circ}$ C through the valve in cubic meters per hour at a pressure drop of 1 kg/cm2. To convert Cv to Kv, multiply the Cv by 0.8569.

Rated Flow Coefficient (Cv)

Valve	Size ²		Angle of Disc Opening (degrees)							
Inches	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
2	50	0.06	3	7	15	27	44	70	105	115
2.5	65	0.10	6	12	25	45	75	119	178	196
3	80	0.20	9	18	39	70	116	183	275	302
4	100	0.30	17	36	78	139	230	364	546	600
5	125	0.50	29	61	133	237	392	620	930	1022
6	150	0.80	45	95	205	366	605	958	1437	1579
8	200	2	89	188	408	727	1202	1903	2854	3136
10	250	3	151	320	694	1237	2047	3240	4859	5340
12	300	4	234	495	1072	1911	3162	5005	7507	8250
14	350	6	338	715	1549	2761	4568	7230	10844	11917
16	400	8	464	983	2130	3797	6282	9942	14913	16388
18	450	11	615	1302	2822	5028	8320	13168	19752	21705
20	500	14	791	1674	3628	6465	10698	16931	25396	27908
24	600	22	1222	2587	5605	9989	16528	26157	39236	43116

² LD141 (2"-24"); WD141 (2"-12"); LC149 (2"-12")

For additional Cv information, consult the **Engineering and Application Data Section.** Cv = the volume of water in U.S. gallons per minute that will pass through a given valve opening with a pressure drop of 1 psig at room temperature.



This chart should be used as a general guide.

Options

The following options are available factory installed on any of the LD or WD141 series Apollo Butterfly Valves.

The LC149 series are available either with the standard 10-position handle or with the optional gear operator on sizes 8" and larger. The other options may be purchased in kit form and installed by the user or distributor.

BARE STEM (MODEL CODE SUFFIX 0)

Select this suffix to specify a butterfly valve without a handle, gear operator or actuator.

TEN (10) POSITION HANDLE (SUFFIX 1)

The 10 position handle is the most common manual operator for valves 8" and smaller. (It can be specified on valves through 12" size.) The 10 position handle allows the valve to be set in any one of ten positions between fully open and fully closed (approximately 10 degree increments).



GEAR OPERATOR (SUFFIX 2)

Although the option is available for any size of valve, it is commonly used on valves larger than 6", and is the only manual option offered for valves 14" and larger. All gear operators feature a self-locking design preventing back driving of the gear and drifting in the disc's position. All gear operators are weather resistant and permanently lubricated. They are equipped with position indicators and adjustable travel stops.

INFINITE POSITION HANDLE (SUFFIX 3)

Not nearly as popular as the 10 position handle, this option allows the valve to be set at any degree of open and is available for valves 2" through 12".

LOCKING HANDLE WITH 10 POSITION PLATE (SUFFIX 4)

The option adds a locking device to "suffix 1".

GEAR OPERATOR W/ CHAINWHEEL (SUFFIX 5)

A manual gear with chainwheel allows an overhead valve to be opened or closed from a location lower than the valve.

LOCKING GEAR OPERATOR (SUFFIX 7)

A manual gear with lock-out option allows the manual gear to be locked with a padlock.

LOCKING GEAR OPERATOR W/ CHAINWHEEL (SUFFIX 8)

Combination of both chainwheel operator (suffix 5) and the locking device (suffix 7) are also available to work in conjunction with the gear operators described under "suffix 2".



SELF LOCKING GEAR OPERATORS

Self locking manual gear operators are available for all Apollo® WD141 and LD141 Series butterfly valves for heavy duty ON/OFF and throttling service. Gear operators are completely weatherproof and self-lubricating; they're equipped with position indicators and adjustable travel stops. Chainwheel operators are available. All units feature 12" handwheels with gearing for each size to keep rim pull at 50# or less.

HANDLE AND NOTCH PLATE KITS

Handle and notch plate kits are supplied for manual operation, ON/OFF and throttling service. Kit provides positive disc position indication for 2" to 12" WD141 and LD141 Series butterfly valves. Locking handle and infinite position handle are also available.

APOLLO® ACTUATORS

Apollo® Actuators are available as double acting or as spring return and come with a wide variety of corrosion resistant coatings for use in most any application. Standard features include external travel stop adjustments, high temperature, low friction bearings and seals. Mounting kits are available for ease of installation.

PNEUMATIC ACTUATORS

Butterfly valves require pneumatic actuators with dual (open & close) limit stops.



Applications

The Apollo® LD141/WD141 Series Ductile Iron Butterfly Valves offer reliable performance in a wide range of applications; on/off, throttling, control isolation, flow balancing and diversion. Ideal for use in Industrial and HVAC/Mechanical applications.

Service compatibility is dependant on several factors; the corrosion resistance of the disc and shaft and the chemical resistance of the seat (liner) and required temperature range. Erosion resistance also affects material selection when dealing with abrasive slurries.

EPDM Cartridge Style Seat Ethylene propylene rubber	Buna-N Cartridge Style Seat Nitrile rubber Also known as NBR	Viton® B Cartridge Style Seat Fluorocarbon rubber
Temperature rated from -30°F to 275°F	Temperature rated from 10°F to 180°F	Temperature rated from -15°F to 400°F
Typical applications: ➤ Food Grade EPDM is Standard ➤ Typically offered for general service and elevated temperatures • Hot water • Chilled water • Glycols • Detergents • Phosphate esters • Ketones • Alcohols • Steam • Dilute acids • Phosphate based hydraulic oils and fluids • Silicone greases and oils • Alkalies	Typical applications: ➤ Food Grade Buna-N is Standard ➤ Good for most general services • Water – ambient temperature • Vacuum • Compressed air • Salt solutions • Alkaline solutions • Dilute acids • Petroleum oils & fluids • Silicone oils & greases • Ethylene glycol	 Typical applications: ➤ A fluorocarbon rubber with a wide spectrum of chemical resistance (exceptional resistance to oils and chemicals at higher temperatures). ➤ A fluorocarbon rubber that typically has better chemical resistance than Buna-N. Hydrocarbons Mineral acids Alcohols
 ▷ EPDM is not recommended for any hydrocarbon-based oils, petroleum oils, hydrocarbon-based lubricants, or di-ester based lubricants, or air systems with hydrocarbons. 	 Buna-N can swell in hot water applications, and increase operating torque. Buna-N is NOT recommended for strong oxidizing agents, nitrated hydrocarbons, Aromatic hydrocarbons (benzene, toluene, xylene), acetates, phenols, aldehydes, gasolines with additives, Automotive brake fluid, Halogen derivatives (carbon tetrachloride, trichloroethylene), Ketones (MEK, acetone), Phosphate ester hydraulic fluids (Skydrol®, Pydraul®), Strong acids, ozone 	 Viton® can swell in higher temperature water applications. At low temperatures, Viton® 's flexibility decreases (hardens), which often increases operating torque. Viton® is not recommended for ketones, Skydrol fluids, amines, anhydrous ammonia, low molecular weight esters and ethers, hot hydrofluoric chlorosulfonic acids.

VELOCITY LIMITS

- For ON/OFF Services
- Non-abrasive liquids 30 feet/sec (9m/sec)
- Gases 175 feet/sec (54m/sec)



Installation

Apollo® butterfly valves are designed for installation between ANSI Class 125/150 lb. weld-neck or slip-on flanges. While we suggest use of weld neck flanges, Apollo® models are configured to also accept slip-on flanges that eliminate failures associated with conventional butterfly valves. Be sure to properly align flange and valve when using raised face flanges. Type C stub end flanges are not recommended.

Apollo butterfly valves can be used with schedule 40 and schedule 80 steel pipe. When the valve is properly centered between flanges, the disc of an open butterfly valve will not contact the inside diameter of schedule 40 or schedule 80 steel pipe.

Caution: Adjacent piping and components with reduced inside diameters (Lined pipe, Schedule 80 plastic pipe, As-cast rough fittings, etc) could cause disc-pipe contact which could damage the valve's disc and shaft.

INSTALLING WD/LD141 SERIES VALVES

Begin by positioning the disc at partially open; maintain the disc within the body face-to-face. After positioning the valve body between flanges, install flange bolts.

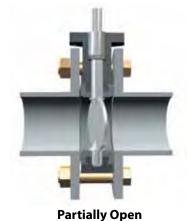
Do not use flange gaskets. Before tightening flange bolts, adjust disc to the full open position. This helps assure proper alignment and clearance between the outside diameter of the disc and the inside diameter of the pipe. Tighten bolts to spec with disc in full open position. After tightening, rotate disc carefully to closed position to assure proper outside diameter clearance.

MAINTENANCE

Apollo® butterfly valves are designed for extended service with minimal wear and servicing. No regular lubrication is needed. In case of replacement, put disc in a near closed position and remove from line, spread flanges and support the valve while removing flange bolts.

Note: Always depressurize a piping system when removing a manual or power actuator or performing valve maintenance.







Contractor Grade Butterfly Valves – 149 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 full featured.

STANDARD MATERIALS

Body Cast Iron, ASTM A126 Class B

Disc Aluminum Bronze, ASTM B148-C95400 Shaft Stainless Steel, ASTM A276, Type 416

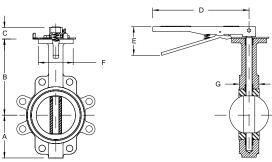
Seat Black EPDM (FDA food grade) with phenolic backing

Bushings PTFE Stem Seal EPDM

PERFORMANCE RATING

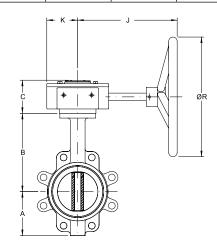
• Max Operating Pressure: 200 psi (13.8 bar)

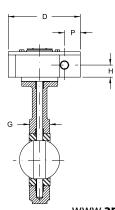
• Temperature Range: -30°F (-34°C) to 275°F (135°C)



Size		Dimens	ions in Inc	hes – 149 S	es – 149 Series with Handle			
(in)	Α	В	С	D	E	F	G	
2	3.25	6.38	1.25	10.5	3.1	2.70	1.75	
2-1/2	3.75	6.88	1.25	10.5	3.1	2.70	1.88	
3	4.00	7.13	1.25	10.5	3.1	2.70	1.88	
4	4.88	7.88	1.25	10.5	3.1	2.70	2.13	
5	5.38	8.38	1.25	10.5	3.1	2.70	2.25	
6	5.88	8.88	1.25	10.5	3.1	2.70	2.25	
8	7.13	10.25	1.75	14.3	3.5	4.61	2.50	
10	8.25	11.50	1.88	14.3	3.5	4.61	2.75	
12	9.75	13.25	1.88	14.3	3.5	4.61	3.13	

Size	Dimensions in Inches — 149 Series with Gear Operator											
(in)	A	В	C	D	G	Н	J	K	P	ØR		
8	7.13	10.25	3.38	8.00	2.50	1.62	9.48	3.25	1.50	11.88		
10	8.25	11.50	3.38	8.00	2.75	1.62	9.48	3.25	1.50	11.88		
12	9.75	13.25	3.38	8.00	3.13	1.62	9.48	3.25	1.50	11.88		





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How to Order WD141 and LD141 Butterfly Valves

MODEL NUMBER:

WD	141	06	В	E	1 [1
SERIES		SIZE (IN.)	DISC MATERIAL	SEAT MATERIAL		OPERATOR
WD	Wafer Body	02 2"	B Aluminum Bronze	E Black EPDM *		0 Bare Shaft - None
	Ductile Iron	25 2.5"	D Ductile Iron A536	-30°F to 275°F		1 10 Position Handle
		03 3"	Nickel Plated	-34°C to 135°C		2 Gear Operator - Direct Mount
LD	Lug Body	04 4"	S Stainless Steel,			3 Infinite Position Handle
	Ductile Iron	05 5"	CF8M	N Black BUNA-N *		4 Locking Handle
		06 6"		10°F to 180°F		5 Gear Operator
		08 8"		-12°C to 82°C		w/Chainwheel
		10 10"				7 Locking Gear Operator
		12 12"		V Black Viton® B		8 Locking Gear Operator
		14 14"		-15°F to 400°F		w/Chainwheel
		16 16"		-26°C to 204°C		
		18 18"				
		20 20"		* FDA Food Grade		
		24 24"				

EXAMPLE:

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

How to Order LC149 Butterfly Valves - Contractor Grade

MODEL NUMBER:

LC149	06	1
SERIES NUMBER	SIZE (IN)	OPERATOR
LC149	02 - 2	1 - 10 POSITION HANDLE (2" - 12")
Cast Iron Lug Body	25 - 2.5	2 - GEAR OPERATOR (8" - 12" ONLY)
Aluminum Bronze Disc	03 - 3	
416 SS Shaft	04 - 4	
Black EPDM Seat	05 - 5	
	06 - 6	
	08 - 8	
	10 - 10	
	12 - 12	
	1	I .

EXAMPLE:

LC149-06-1: 6" LC149 Series, Cast Iron Body, Aluminum Bronze Disc, Black EPDM Seat, 416 SS Shaft with 10 Position Handle



NOTES		

Warranty and Limitations of Liability

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Commercial Products Catalog

All Products Brochure

Conbraco Industries, Inc. warranties, to its initial purchaser only, that its products which are delivered to the initial purchaser will be of the kind described in the order or pricelist and will be free of defects in workmanship or material for a period of TWO years from the date of delivery to you, our initial purchaser.

Should any failure to conform to this warranty appear within two years after the date of the initial delivery to our initial purchaser, Conbraco will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Conbraco's recommendations and standard industry practice, correct such defects by suitable repair or replacement at Conbraco's own expense.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY WHETHER EXPRESSED OR IMPLIED, EXCEPT THE WARRANTY OF TITLE AND AGAINST PATENT INFRINGEMENT. Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of Conbraco to our initial purchaser, with respect to the goods, whether based on contract, negligence, strict tort or otherwise. It is the intention of Conbraco Industries, Inc. that no warranty of any kind, whether express or implied, shall pass through our initial purchaser to any other person or corporation.

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Jose Arias Mexico jose.arias@conbraco.com 956-631-4542 956-631 Luis Guzman Caribbean luis.guzman@conbraco.com 787-739-5620 JR Jefferson Central & South America jr.jefferson@conbraco.com 832-220-3783 Mike Link United Kingdom michael.link@pegleryorkshire.co.uk 44-0-1302-560-560 44-0-1302 Luke Liu China luke.liu@conbraco.com 411-869-02498 411-869 Jonathan Yap Asia Pacific/India jonathan.yap@conbraco.com 65-9626-9241 65-6753 Europe/Africa/Australia/Israel Contact Customer Service 704-841-6000 704-841 Pegler Yorkshire Mid East Middle East (except Israel) pydubai@mailme.ae 971-4-454-2353 971-4-45 APOLLO VALVES REGIONAL SALES DIRECTORS Brian Blalock East Coast brian.blalock@conbraco.com 704-614-3744 704-841 Skip Wilson West skip.wilson@conbraco.com 760-330-3293 775-854 APOLLO VALVES REGIONAL MANAGERS Kevin Ashworth Mid Atlantic kevin.ashworth@conbraco.com 757-272-6200 Steve Brown Northwest steve.brown@conbraco.com 425-985-5095 253-862 Andy Fretz Canada - Commercial andy.fretz@conbraco.com 518-795-4629 Sanford Pauly North Central sanford.pauly@conbraco.com 786-210-7010 James Saldivar South Central Industrial james.saldivar@conbraco.com 332-776-5547 Nick Shelley South Central - Commercial pim.todman@conbraco.com 214-790-4157 Jim Todman Canada - Industrial jim.todman@conbraco.com 905-407-8855 905-761 LASCO FITTINGS IRRIGIONAL MANAGERS Po. BOX 116, Brownsville, David Beyer Northeast dbeyer@lascofittings.com 561-718-9379	
Luis Guzman Caribbean luis.guzman@conbraco.com 787-739-5620 JR Jefferson Central & South America jr.jefferson@conbraco.com 832-220-3783 Mike Link United Kingdom michael.link@pegleryorkshire.co.uk 44-0-1302-560-560 44-0-130 Luke Liu China luke.liu@conbraco.com 411-869-02498 411-869 Jonathan Yap Asia Pacific/India jonathan.yap@conbraco.com 65-9626-9241 65-6753 Europe/Africa/Australia/Israel Contact Customer Service 704-841-6000 704-841 Pegler Yorkshire Mid East Middle East (except Israel) pydubai@mailme.ae 971-4-454-2353 971-4-45 **POLLO VALVES REGIONAL SALES DIRECTORS** Brian Blalock East Coast brian.blalock@conbraco.com 704-614-3744 704-841 Skip Wilson West skip.wilson@conbraco.com 760-330-3293 775-854 **APOLLO VALVES REGIONAL MANAGERS** Kevin Ashworth Mid Atlantic kevin.ashworth@conbraco.com 757-272-6200 Steve Brown Northwest steve.brown@conbraco.com 425-985-5095 253-862 Andy Fretz Canada - Commercial andy.fretz@conbraco.com 518-795-4629 Sanford Pauly North Central sanford.pauly@conbraco.com 786-210-7010 James Saldivar South Central Industrial james.saldivar@conbraco.com 332-776-5547 Nick Shelley South Central - Industrial james.saldivar@conbraco.com 214-790-4157 Jim Todman Canada - Industrial jim.todman@conbraco.com 214-790-4157 Jim Todman Canada - Industrial jim.todman@conbraco.com 905-407-8385 905-761 LASCO FITTINGS IRBIGATION REGIONAL MANAGERS **David Beyer Northeast dbeyer@lascofittings.com 561-718-9379	
JR Jefferson Central & South America jr. jefferson@conbraco.com 832-220-3783 Mike Link United Kingdom michael.link@pegleryorkshire.co.uk 44-0-1302-560-560 44-0-1302-1000-1000-1000-1000-1000-1000-10	-4681
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Pegler Yorkshire Mid East Middle East (except Israel) pydubai@mailme.ae 704-841-6000 704-841 Pegler Yorkshire Mid East Middle East (except Israel) pydubai@mailme.ae 971-4-454-2353 971-4-45 APOLLO VALVES REGIONAL SALES DIRECTORS Brian Blalock East Coast brian.blalock@conbraco.com 704-614-3744 704-841 Skip Wilson West skip.wilson@conbraco.com 760-330-3293 775-854 APOLLO VALVES REGIONAL MANAGERS Kevin Ashworth Mid Atlantic kevin.ashworth@conbraco.com 757-272-6200 Steve Brown Northwest steve.brown@conbraco.com 425-985-5095 253-862 Andy Fretz Canada - Commercial andy.fretz@conbraco.com 647-281-3161 905-761 Ben Lauletta Northeast ben.lauletta@conbraco.com 518-795-4629 Sanford Pauly North Central sanford.pauly@conbraco.com 513-716-7772 513-321 Hector Rivera Florida hector.rivera@conbraco.com 786-210-7010 James Saldivar South Central - Industrial james.saldivar@conbraco.com 214-790-4157 Jim Todman Canada - Industrial jim.todman@conbraco.com 905-407-8385 905-761 LASCO FITTINGS RRIGATION REGIONAL MANAGERS RO. BOX 116, Brownsville, David Beyer Northeast dbeyer@lascofittings.com 561-718-9379	
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Brian Blalock East Coast brian.blalock@conbraco.com 704-614-3744 704-841 Skip Wilson West skip.wilson@conbraco.com 760-330-3293 775-854 APOLLO VALVES REGIONAL MANAGERS Kevin Ashworth Mid Atlantic kevin.ashworth@conbraco.com 757-272-6200 Steve Brown Northwest steve.brown@conbraco.com 425-985-5095 253-862 Andy Fretz Canada - Commercial andy.fretz@conbraco.com 647-281-3161 905-761 Ben Lauletta Northeast ben.lauletta@conbraco.com 518-795-4629 Sanford Pauly North Central sanford.pauly@conbraco.com 513-716-7772 513-321 Hector Rivera Florida hector.rivera@conbraco.com 786-210-7010 James Saldivar South Central - Industrial james.saldivar@conbraco.com 332-776-5547 Nick Shelley South Central - Commercial nick.shelley@conbraco.com 214-790-4157 Jim Todman Canada - Industrial jim.todman@conbraco.com 905-407-8385 905-761 LASCO FITTINGS IRRIGATION REGIONAL MANAGERS ROBOT To Brownsville, Brownsville, David Beyer Northeast dbeyer@lascofittings.com 561-718-9379	54-2352
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Andy Fretz Canada - Commercial andy,fretz@conbraco.com 647-281-3161 905-761 Ben Lauletta Northeast ben.lauletta@conbraco.com 518-795-4629 Sanford Pauly North Central sanford.pauly@conbraco.com 513-716-7772 513-321 Hector Rivera Florida hector.rivera@conbraco.com 786-210-7010 James Saldivar South Central - Industrial james.saldivar@conbraco.com 832-776-5547 Nick Shelley South Central - Commercial nick.shelley@conbraco.com 214-790-4157 Jim Todman Canada - Industrial jim.todman@conbraco.com 905-407-8385 905-761 LASCO FITTINGS IRRIGATION REGIONAL MANAGERS David Beyer Northeast dbeyer@lascofittings.com 561-718-9379	
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Jim TodmanCanada - Industrialjim.todman@conbraco.com905-407-8385905-761LASCO FITTINGS IRRIGATION REGIONAL MANAGERSP.O. BOX 116, Brownsville,David BeyerNortheastdbeyer@lascofittings.com561-718-9379	-6666
Jim TodmanCanada - Industrialjim.todman@conbraco.com905-407-8385905-761LASCO FITTINGS IRRIGATION REGIONAL MANAGERSP.O. BOX 116, Brownsville,David BeyerNortheastdbeyer@lascofittings.com561-718-9379	
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Jim TodmanCanada - Industrialjim.todman@conbraco.com905-407-8385905-761LASCO FITTINGS IRRIGATION REGIONAL MANAGERSP.O. BOX 116, Brownsville,David BeyerNortheastdbeyer@lascofittings.com561-718-9379	
Jim TodmanCanada - Industrialjim.todman@conbraco.com905-407-8385905-761LASCO FITTINGS IRRIGATION REGIONAL MANAGERSP.O. BOX 116, Brownsville,David BeyerNortheastdbeyer@lascofittings.com561-718-9379	
LASCO FITTINGS IRRIGATION REGIONAL MANAGERS David Beyer Northeast dbeyer@lascofittings.com 561-718-9379	
David Beyer Northeast dbeyer@lascofittings.com 561-718-9379	
· · · · · · · · · · · · · · · · · · ·	TN 38012
Ron Modugno West rmodugno@lascofittings.com 661-910-5058 661-775	
	-0713
Jimmy White Central jwhite@lascofittings.com 731-234-2372 731-779	-3608
Rick Williamson Southeast rwilliamson@lascofittings.com 386-451-2307	





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	FourMation Sales	MN/ND/SD/WI-West	ryan@fourmationsales.com	763-420-6900	763-420-6993
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हि ह	Midwest Spec	Southern OH, KY	rvsales@mwspec.com	513-353-9191	513-353-1589
돌	New Tech Marketing	Northern-IL/WI-East/IN/MI-UP/IA-River Counties	sales@new-techmarketing.com	630-378-4300	630-378-0343
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	Gordon & Associates	WA, OR, AK, Northern counties ID	kenn@gordonandassoc.com	907-441-7184	425-228-7777
2	HC Fletcher	CA - North (AB 1953 compliant product)	apollosales@hcfletcher.com	800-432-7047	949-660-9072
ΞÉ	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE/NM/EI Paso-TX	trodeno@marshallrodeno.com	303-575-6701	303-575-6706
SE SE	Romatec	CA - North PVF (non AB 1953)	apollo@romatec.com	877-530-3530	661-588-3534
	Southwest Valves	CA (Waterworks and Fire Protection)	d.burell@southwestvalve.com	559-261-2703	559-261-2711
	Southwestern Industrial Sales Co.	AZ/Nevada-SW	eduardop@sw-ind.com	480-458-5838	480-458-5843
	Spec Management Group	HI	msmarch4@cox.net	949-481-4225	949-487-0990
	Specimanagement droup		manual Twe COA.HCC	7T7 TUI-TLLJ	7-7- 1 07-0770
	Conroy & Griese Sales, Inc.	NY-East/NJ-North	iezzi52@aol.com	856-663-4440	856-663-6644
EAS ON	Keith Engle & Associates	OEM accounts	keith.engle@verizon.net	610-827-9560	610-827-9561
ij	Layden Company	NY-Upstate/PA-East/DE/NJ-South	joejr@laydencompany.com	610-363-6657	877-529-3361
Š E					
	Urell, Inc.	MA/New England States	conbraco@urell.com	617-923-9500	617-926-9414
	Active Sales Northwest, Inc.	OR, WA, Western ID	skactive@aol.com	541-726-0320	541-726-1148
	Biz Sales Company				
		THE KY MILLIN DAPTE OF PA WWW WI	dzavelson@hiznvt.com	216-595-2888	216-595-2800
	• •	OH, KY, MI, IN, parts of PA, WV, WI	dzavelson@bizpvf.com	216-595-2888	216-595-2899
	Fourmation Sales	MN/ND/SD/WI-West	dean@fourmationsales.com	763-262-4700	763-262-4740
	Fourmation Sales Hall Marketing	MN/ND/SD/WI-West AL, LA	dean@fourmationsales.com hallmarketing@bellsouth.net	763-262-4700 228-547-4637	
S	Fourmation Sales	MN/ND/SD/WI-West	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com	763-262-4700	763-262-4740
EPS	Fourmation Sales Hall Marketing	MN/ND/SD/WI-West AL, LA	dean@fourmationsales.com hallmarketing@bellsouth.net	763-262-4700 228-547-4637	763-262-4740
Y REPS	Fourmation Sales Hall Marketing J&J Midwest Sales	MN/ND/SD/WI ⁻ West AL, LA NE, IA, MO, KS	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com	763-262-4700 228-547-4637 314-422-8419	763-262-4740 228-832-6666
ONLY REPS	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart	MN/ND/SD/WI ⁻ West AL, LA NE, IA, MO, KS AL, FL Panhandle	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773	763-262-4740 228-832-6666 205-664-1277
ON ONLY REPS	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins	MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096	763-262-4740 228-832-6666 205-664-1277 772-489-4305
_	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises	MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718	763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558
_	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated	MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701	763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706
_	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc.	MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340	763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408
IRRIGATION ONLY REPS	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc.	MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701	763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889
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IRRIGATION	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group VPC Sales Barclay Sales Ltd.	MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South AZ British Columbia 178 Pennsylvania Ave., Unit 1, Concord, Ontario L4K 4B1	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net chudson@vpcsales.com bbarclay@barclaysales.com conbraco.canada@conbraco.com	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225 661-257-3923	763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990 661-257-3928
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IRRIGATION	Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group VPC Sales Barclay Sales Ltd. Conbraco Industries, Canada D & M Mechanical Sales	MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South AZ British Columbia 178 Pennsylvania Ave., Unit 1, Concord, Ontario L4K 4B1 Ontario/East Saskatchewan Nova Scotia, New Brunswick, Prince Edward	dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net chudson@vpcsales.com bbarclay@barclaysales.com conbraco.canada@conbraco.com don@dandmsales.ca doug.dynamicage@sasktel.net	763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225 661-257-3923 604-945-1010 905-761-6161 613-384-7084 306-343-1901	763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990 661-257-3928 604-945-3030 905-761-6666 613-384-3407 306-343-1901
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