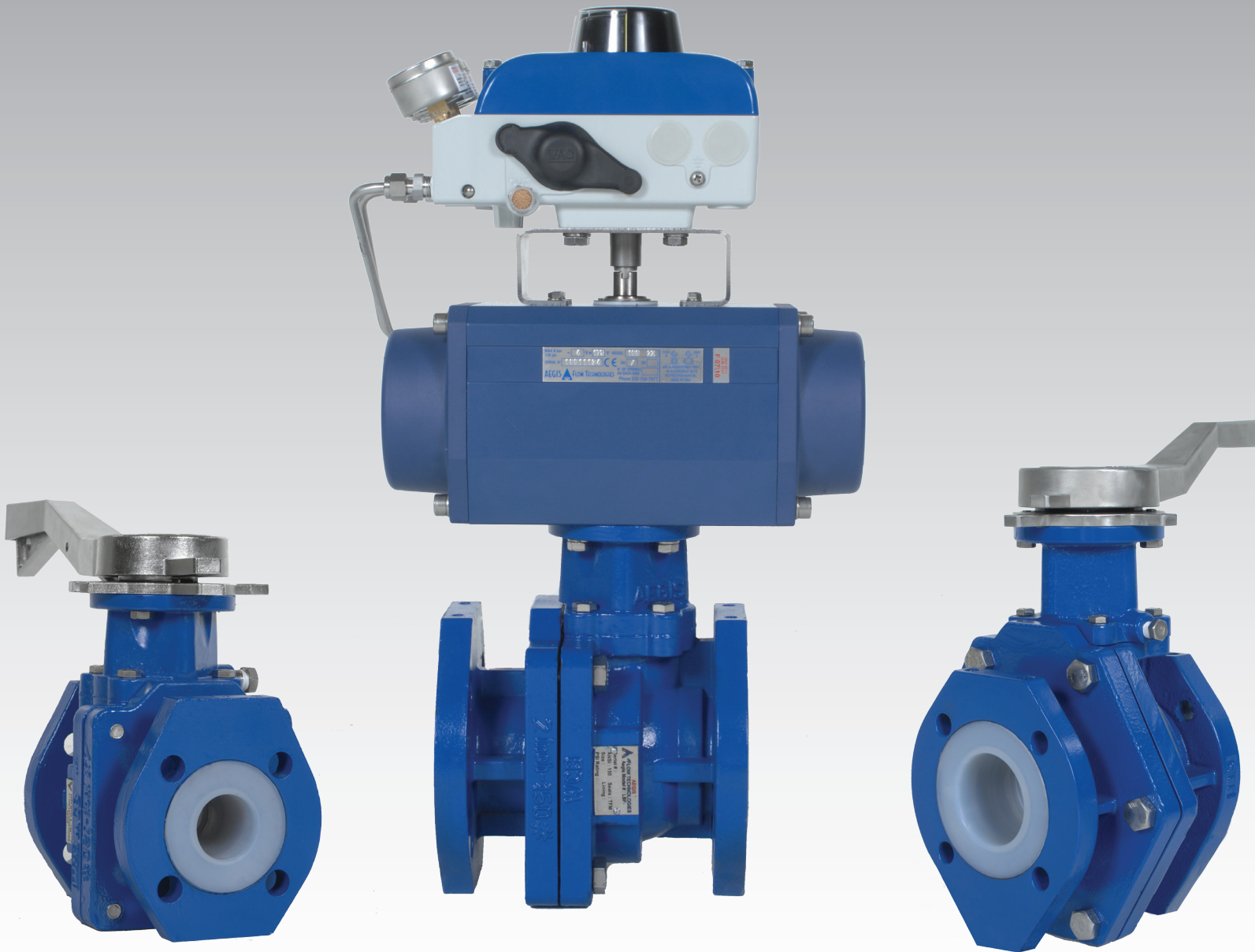


AEGIS®

LBF SERIES



**Fully Lined High Performance Full Port
Ball Valves Engineered for Industries'
Most Hazardous & Corrosive Services**



ISO 9001:2008



AEGIS FLOW TECHNOLOGIES

WWW.AEGISVALVES.COM

BIO-TECHNOLOGY - CHEMICAL - CHLOR ALKALI - PETROCHEMICAL - PHARMACEUTICAL - PULP & PAPER - SEMICONDUCTOR
PHARMACEUTICAL - PULP & PAPER - SEMICONDUCTOR - BIO-TECHNOLOGY - CHEMICAL - CHLOR ALKALI - PETROCHEMICAL

LBF Valve	Standard Features	Optional Features
Application	Reliable Isolation & Control of Extremely Corrosive Liquids and Gas	
Conforming Standards	ASME B16.5, ASME B16.10, ASME B16.34 & API 598	
Size	1/2" - 8"	
Body	A-395 Ductile Iron	A-216 WCB & A-351 CF8M
Lining	PFA	PVDF
External Coating	Epoxy	
Temperature	-40°F to 400°F (PFA)	0° F to 275°F (PVDF)
Process Sealing	Gas Tested, Bubble tight per API 598	
Stem Sealing	Innovative Live Loaded Paraflon® U-cup Seal	Secondary Enviromental Seal (SES)
Pressure Rating	250 PSIG (A-395 DI)	285 PSIG (A-216 WCB/A-351 CF8M)
Connection Type	ASME 150# Flanged	
Control Characteristics	Equal Percentage	
Flow Direction	Bidirectional	

Design Features

- Patent Pending Live Loaded Stem Sealing System
- Patent Pending Energized Middle Flange Connection
- Mechanically Locked Valve Linings
- Standard Lockable Lever Handles
- Maintenance Free Design
- Extended Bonnet
- Minimum Cavity Space
- Bidirectional Zero Leakage
- One Piece Ball/Stem
- ISO 5211 Acutator Mounting
- Double-D stem profile
- Leak Detection Port
- Low Torque

Chlorine and HCL Valves

AEGIS' LBF SERIES valves are ideally suited for the stringent performance requirements demanded with **wet chlorine gas** and **aqueous hydrochloric acid** applications. Produced from premium virgin grade resins, our thick fluoropolymer linings features superior resistance to the effects of chemical attack, permeation, absorption, swelling and cold flow thus providing industry with convincing performance in handling these highly regulated commodities. The liner integrity of each valve is tested with 20,000 volts to ensure there are no defects. Valves for chlorine service are thoroughly cleaned and packaged according to our factory procedures and conform to the Chlorine Institute Pamphlet #6 specifications.

Safety Stem Seal

AEGIS' LBF SERIES valves are designed to offer long-term maintenance-free security against the harmful affects of fugitive emissions. Our patent pending, innovative stem sealing system has revolutionized the performance benchmark for lined ball valves and has established a new standard for safety and reliability!

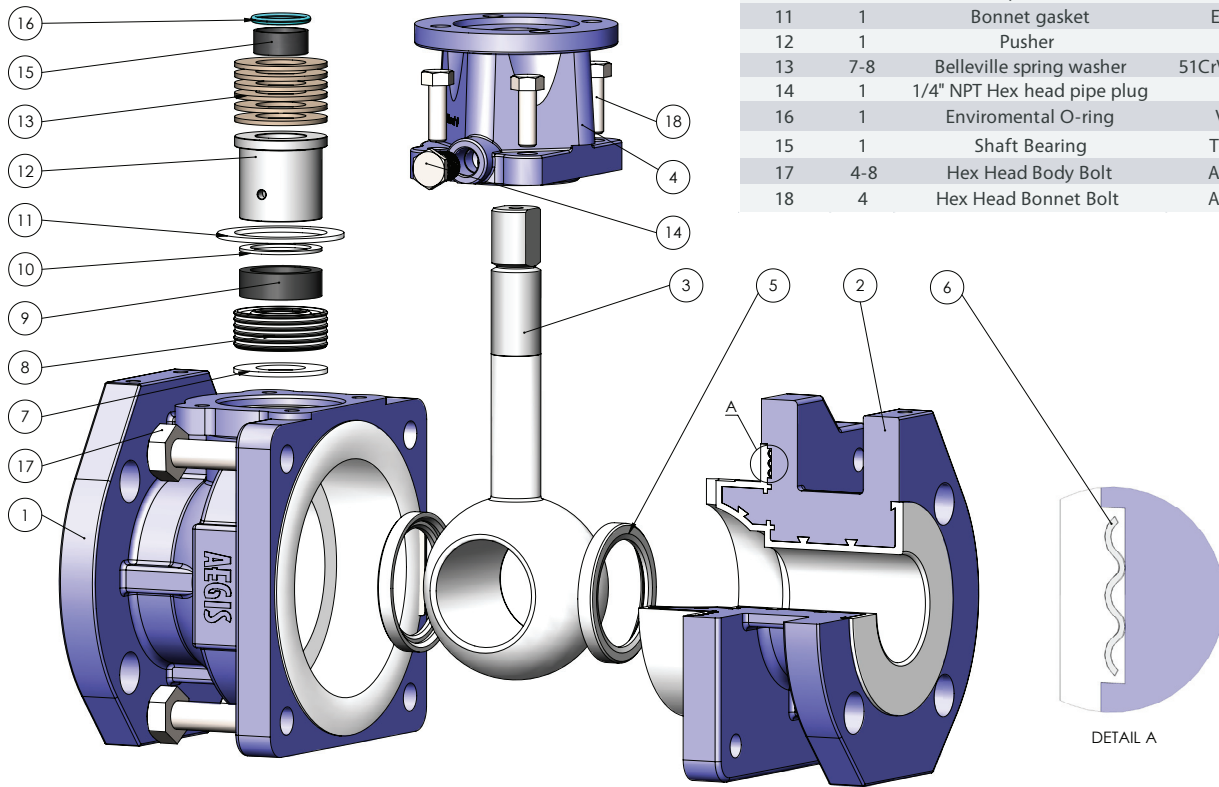
Applications

AEGIS' LBF SERIES valves are routinely specified for hazardous services such as:

- Acetic Acid
- Alcohols
- Anolyte
- Brine
- Bromine
- Caustic
- Catholyte
- Chlorine Gas
- Chlorine Condensate
- Chlorinated Brine
- Chlorinated Organics
- Chlorine Dioxide
- Chlorinated Solvents
- Chlorosulfonic Acid
- Deionized Water
- Ethylene Dichloride
- Ferric Chloride
- Hydrobromic Acid
- Hydrochloric Acid
- Hydrofluoric Acid
- Hydrogen Peroxide
- Nitric Acid
- Oleum
- Phosgene Gas
- Phosphoric Acid
- Sodium Hypochlorite
- Sulfuric Acid
- Spent Acid
- Vinyl Chloride Monomer
- Triethanolamine

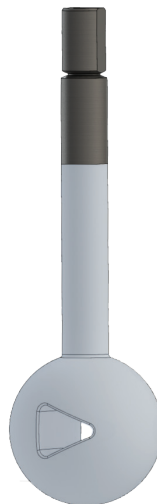
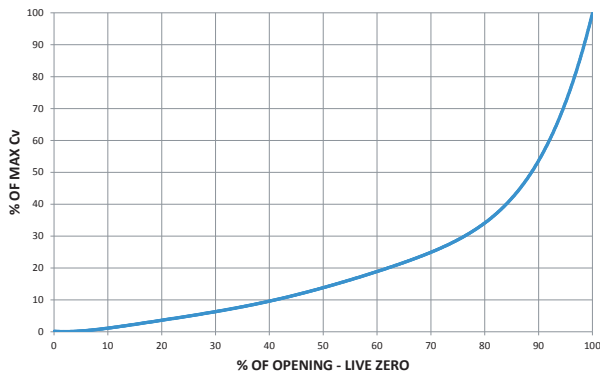


ITEM	QTY.	DESCRIPTION	MATERIAL
1	1	PFA lined Body	ASTM A395 DI
2	1	PFA Lined Adapter	ASTM A395 DI
3	1	PFA Lined Ball/Stem	ASTM A351 - CF8M
4	1	Bonnet	ASTM A395 DI
5	2	Ball Seat	Paraflex®
6	1	Adapter Flange Gasket	PFA Encapsulated 304SS
7	1	Bottom sealing gasket	Expanded PTFE
8	1-2	U-cup seal	Paraflex®
9	1-2	U-cup insert	Viton 75 Sh. A
10	1	U-cup Vee seal	Virgin PTFE
11	1	Bonnet gasket	Expanded PTFE
12	1	Pusher	316 SS
13	7-8	Belleville spring washer	51CrV4 - Nickel plated
14	1	1/4" NPT Hex head pipe plug	316 SS
16	1	Environmental O-ring	Viton 75 Sh. A
15	1	Shaft Bearing	Technopolymer
17	4-8	Hex Head Body Bolt	ASTM A193 - B7
18	4	Hex Head Bonnet Bolt	ASTM A193 - B7

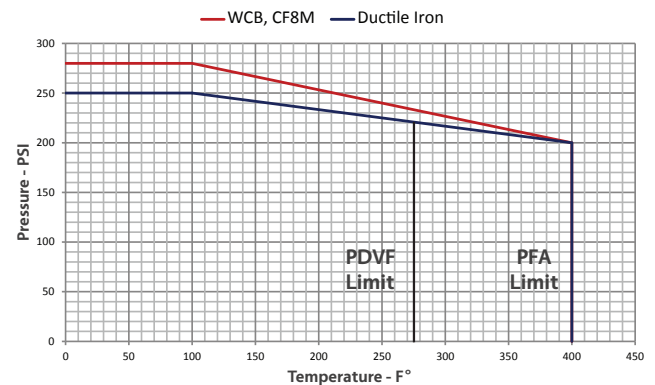


LBF-V 2000 FULLY LINED V-BALL CONTROL VALVES

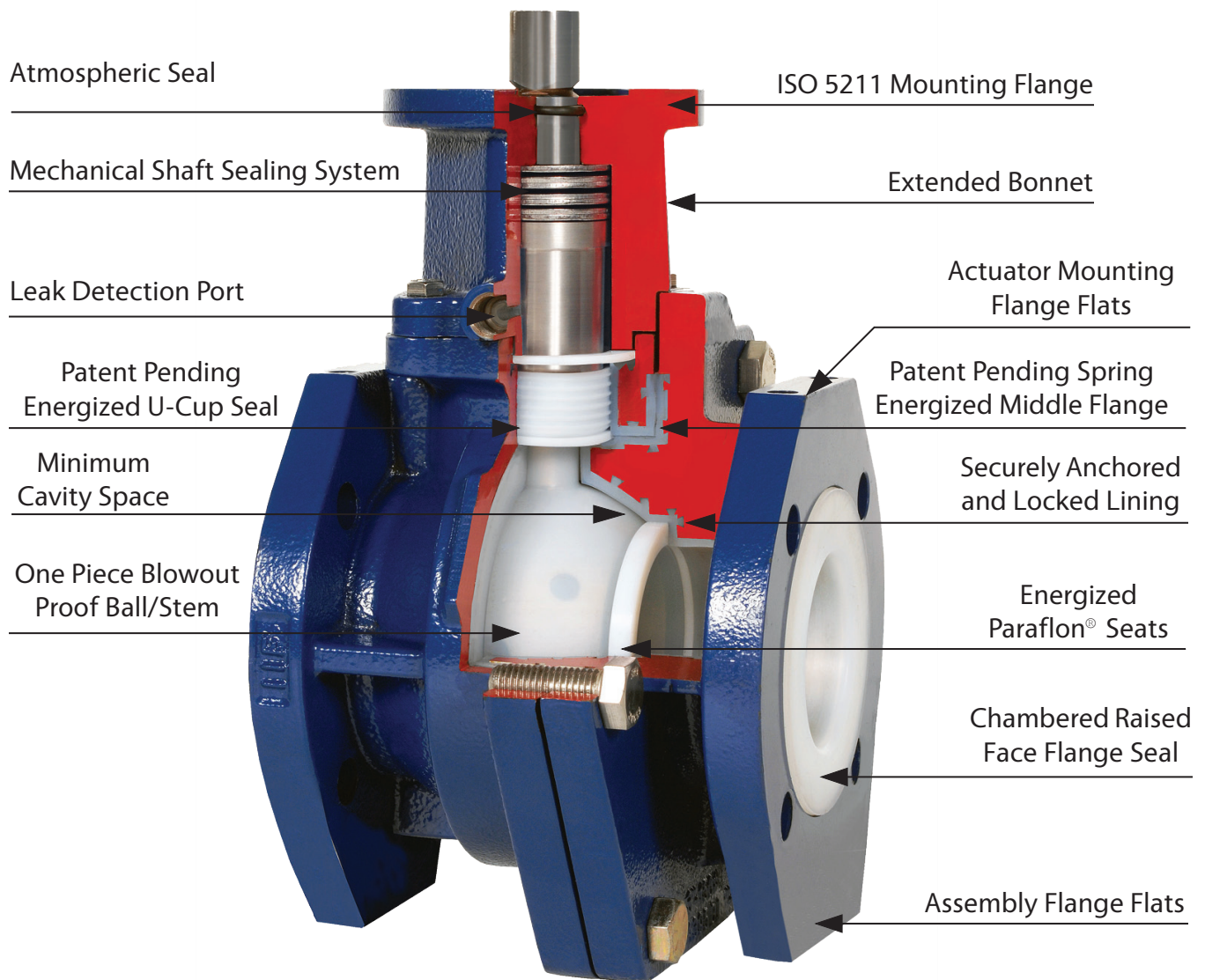
LBF-V Series Flow Curve



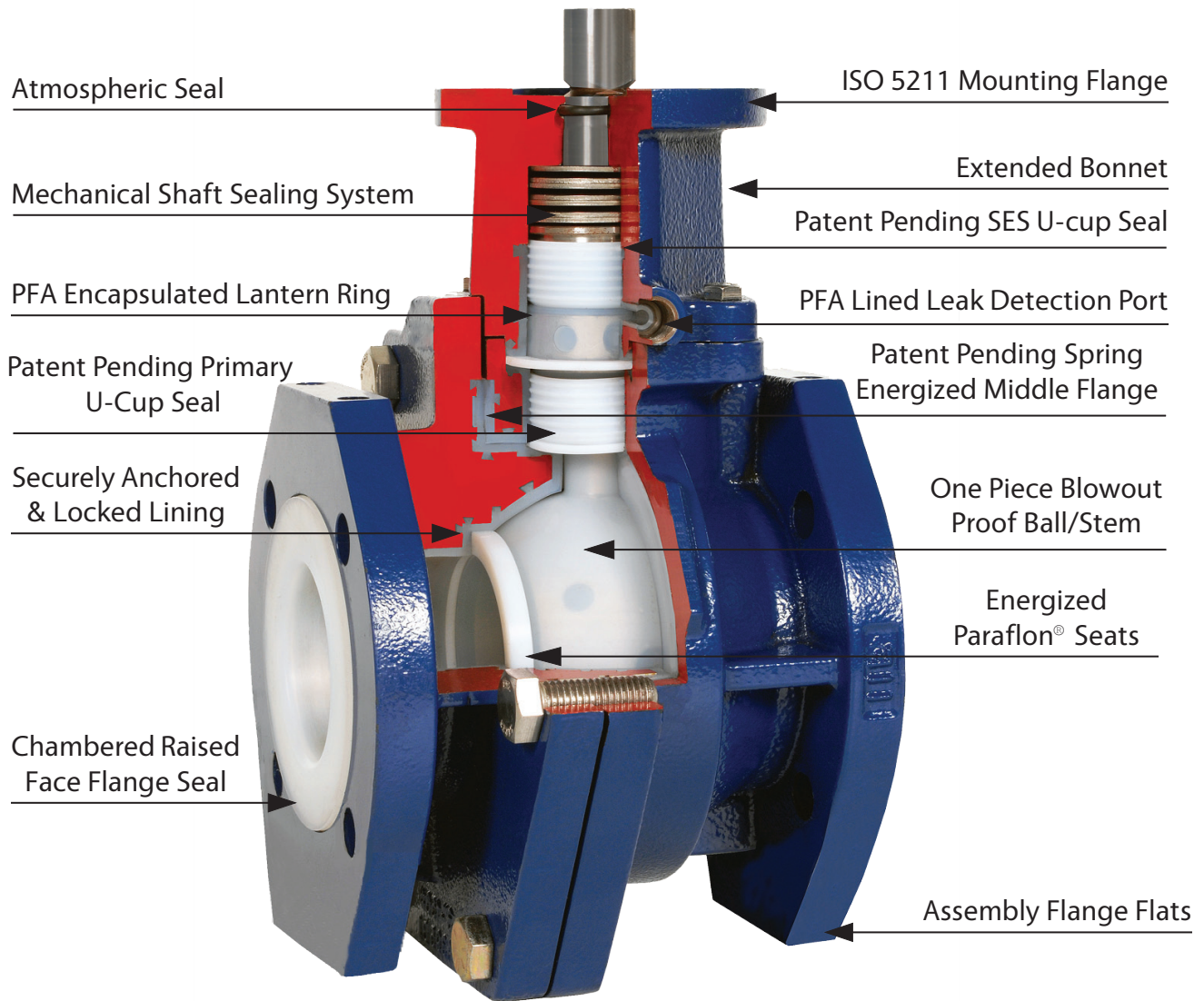
Pressure - Temperature Ratings



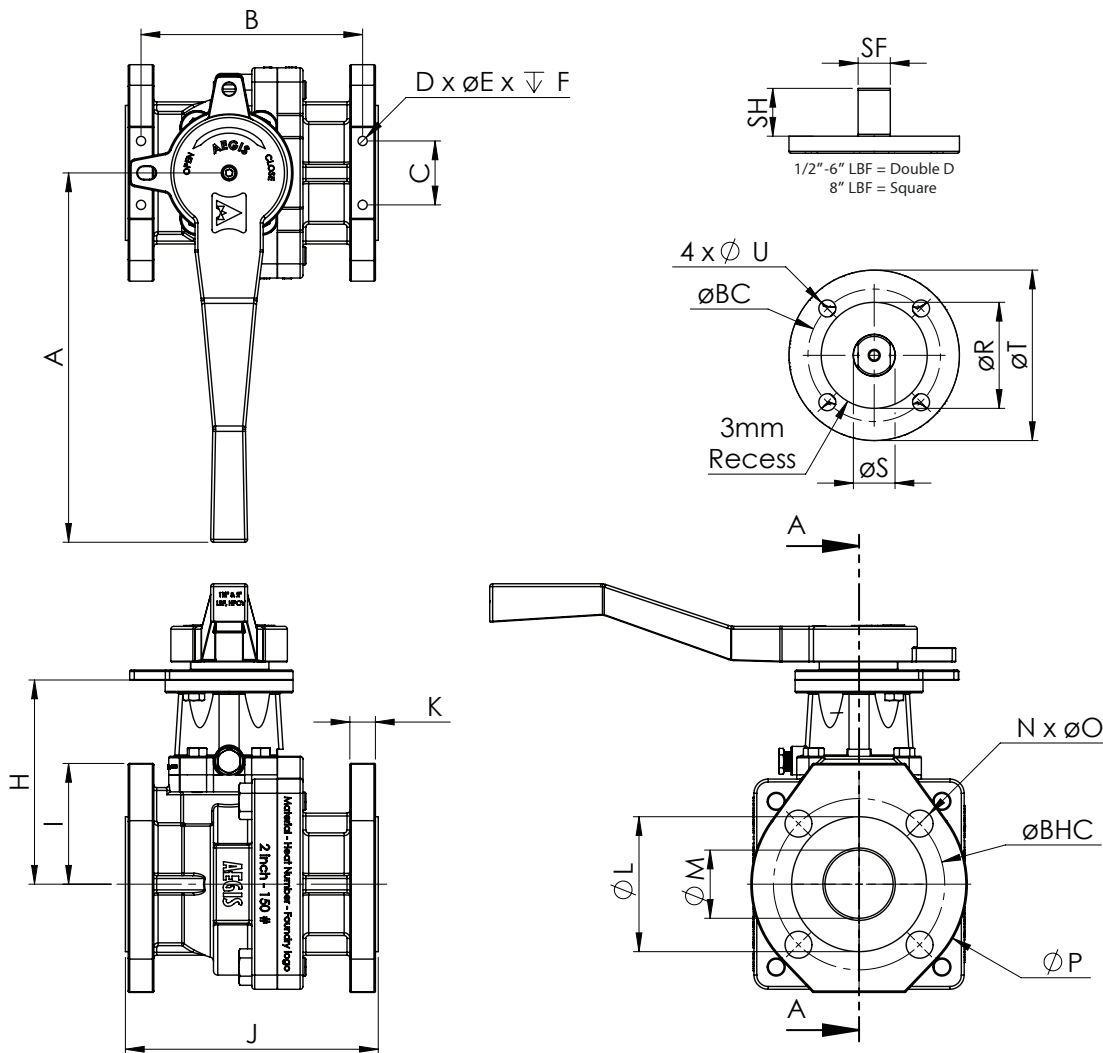
LBF 2000 SECTIONED MODEL



LBF 2000 (SES SERIES) SECTIONED MODEL



AEGIS® LBF SERIES



LBF	ØBC	ØU	ØS	ØR	ØT	SF	SH	A	B	C	D x ØE x F	H	I	J	K	ØL	ØM	N x ØO	ØBHC	ØP	Operator	ISO 5211 Pattern	CV	V-ball CV	Weight (lb)	Torque (in-lb)
1/2"	1.97	0.27	0.55	1.38	2.56	0.43	0.71	7.87	N/A	N/A	4 x 1/4" x 1/2"	4.17	1.77	4.25	0.39	1.38	0.51	4x16	2.38	3.50	OHW/HL	F05	37	N/A	12	72
3/4"	1.97	0.27	0.55	1.38	2.56	0.43	0.71	7.87	3.98	1.38	4 x 1/4" x 1/2"	4.29	2.09	4.62	0.47	1.69	0.75	4x16	2.75	3.87	OHW/HL	F05	40	N/A	14	72
1"	1.97	0.27	0.55	1.38	2.56	0.43	0.71	7.87	4.33	1.50	4 x 1/4" x 1/2"	4.29	2.32	5.00	0.51	2.00	0.98	4x16	3.13	4.33	OHW/HL	F05	57	7	15	72
1-1/2"	2.76	0.35	0.87	2.20	3.54	0.67	0.94	10.24	5.67	1.77	4 x 5/16" x 5/8"	5.35	2.95	6.50	0.67	3.11	1.50	4x16	3.88	5.00	HL	F07	186	12	30	216
2"	2.76	0.35	0.87	2.20	3.54	0.67	0.98	10.24	6.14	1.77	4 x 5/16" x 5/8"	5.67	3.35	7.00	0.71	3.74	1.89	4x19	4.75	6.00	HL	F07	300	46	37	300
3"	4.02	0.43	1.10	2.76	4.92	0.87	1.14	13.39	6.95	2.36	4 x 1/2" x 3/4"	8.46	3.94	8.00	0.89	5.04	2.95	4x19	6.00	7.48	HL	F10	685	71	84	645
4"	4.02	0.43	1.10	2.76	4.92	0.87	1.18	13.39	7.95	3.54	4 x 1/2" x 3/4"	9.02	5.31	9.00	0.91	6.22	3.70	8x19	7.50	9.06	HL	F10	1,505	150	115	920
6"	4.92	0.51	1.42	3.35	5.91	1.06	1.65	15.69	9.37	4.72	4 x 9/16" x 1"	11.26	6.50	10.50	0.98	8.50	5.67	8x22.25	9.50	11.02	Gear	F12	3,510	197	203	2,410
8"	5.51	17	1.89	3.94	6.89	SQ 1.4	1.50	N/A	16.65	4.72	4 x 9/16" x 1"	14.49	7.60	18.00	1.10	10.24	7.87	8x22.25	11.75	13.58	Gear	F14	4,525	N/A	462	6,300





**ELECTRO-PNEUMATIC
POSITIONER**



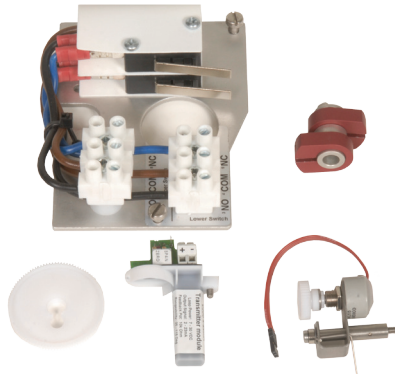
**PNEUMATIC
POSITIONER**



**DIGITAL
POSITIONER**



PRESSURE REGULATOR



FEEDBACK MODULE



POSITION INDICATOR



ORDERING INFORMATION

1. Size	
Size	1/2" - 8"

2. Type	
T1	LBF 2000 - Standard
T2	LBF 2000 - SES
T3	LBFV 2000 - V-ball

3. Class	
P1	150# Flanged

4. Body Material	
B1	ASTM A-395 DI*
B2	ASTM A-216 WCB
B3	ASTM A-351 CF8M

5. Lining	
L1	PFA*
L2	PVDF

* denotes standard

6. Operators	
BS	Bare Shaft*
HL	Hand Lever
OH	Oval Handwheel
MG	Manual Gear
DA	Double Acting Actuator
FC	Fail Closed Actuator
FO	Fail Open Actuator

7. Accessories	
PS	Proximity Switch
PD	Digital Positioner
PP	Pneumatic Positioner
PE	Electro-Pneumatic Positioner
PR	Pressure Regulator
SV	Solenoid valves

8. Cleaning Procedure	
C1	Chlorine
C2	UPW
C3	Oxygen

Ordering Example		
1" 150# PFA Lined A216 WCB body with Double Acting Actuator, Pneumatic Positioner with the valve being chlorine cleaned		
Product Line	LBF	
Size	1	
Type	T1	
Class	P1	
Body Material	B2	
Lining	L1	
Operator	DA	
Accessories	PP	
Cleaning Procedure	C1	
LBF-1-T1-P1-B2-L1-DA-PP-C1		

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