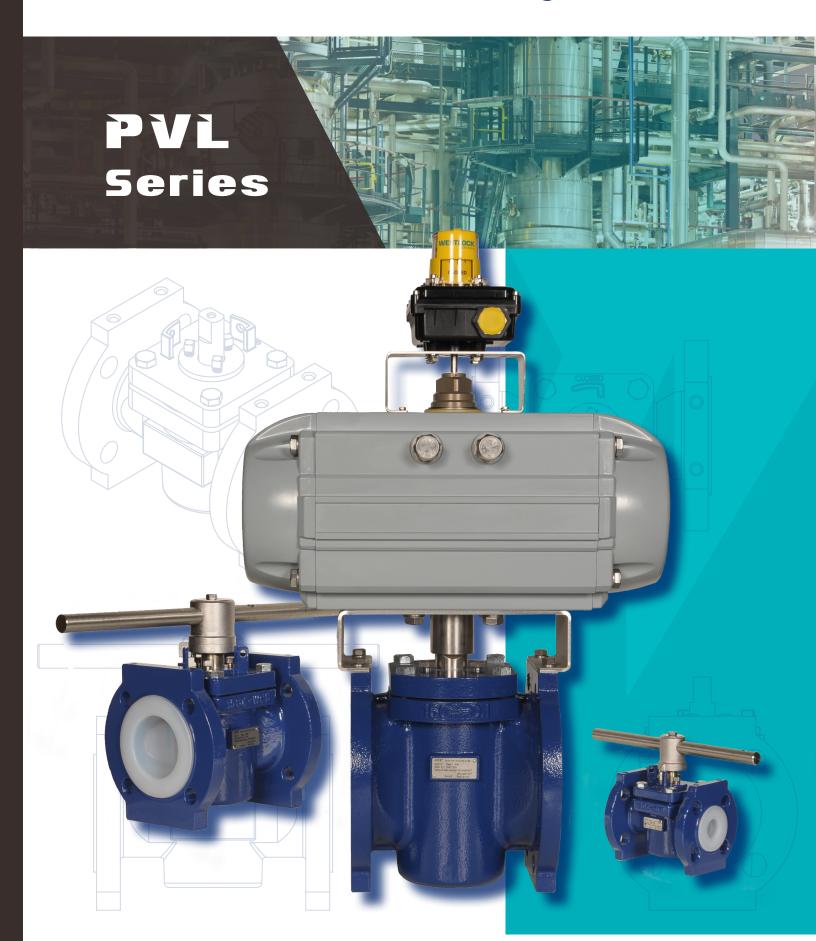
# High Performance, Fully Lined Plug Valves





#### CHLORINE GAS / HCL

Our high performance lined plug valves are ideally suited for stringent performance requirements demanded with wet/dry 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 10,000 volts to ensure there are no defects. Valves for dry chlorine gas service are thoroughly cleaned and packaged according to our factory procedures and conform to the Chlorine Institute Pamphlet #6 specifications.

#### HIGH INTEGRITY STEM SEAL

Our valves are designed to offer long-term maintenance-free security against the harmful affects of fugitive emissions. Our industry validated, innovative stem sealing system has revolutionized the performance benchmark for lined plug valves and has established a new standard for safety, reliability and environmental security.

#### **HAZARDOUS SERVICE APPLICATIONS**

- Acetic Acid
- Alcohols
- Brine
- Bromine
- Caustic
- Chlorine Gas
- Chlorine Condensate
- Chlorinated Brine
- Chlorine Dioxide
- Chlorinated Organics
- 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
- Triethanolamine
- Vinyl Chloride Monomer

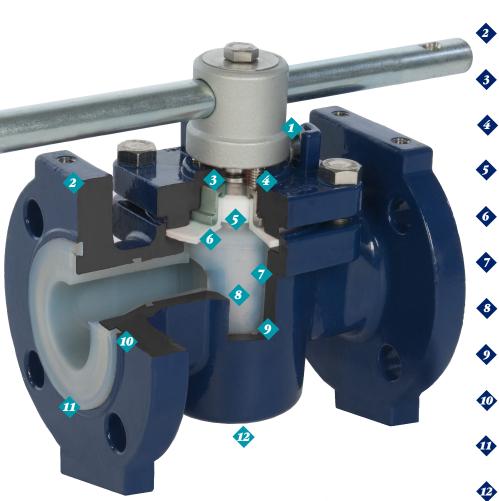
### **ADREM PVL SERIES**

#### **Optional** A-395 Ductile Iron — A-216 WCB & A-351 CF8M Lining **PFA** -PVDF Temperature -40°F to 400°F (PFA) \_\_\_ \_0°F to 275°F (PVDF) Pressure Rating 250 PSIG (A-395 DI) 285 PSIG (A-216 WCB/A-351 CF8M) 1/2" - 8" Application Reliable Isolation & Control of Extremely Hazardous Liquids and Gases Conforming Standards ASME B16.5, ASME B16.10, ASME B16.34, API 598 Stem Sealing Secondary PTFE Chevron Packing Bi-directional, Gas Tested, Bubble Tight per API 598/EN 12266-1-P12 Rate A Process Sealing External Coating 3 Component Epoxy Paint (WCC & LCC) Control Characteristics **Equal Percentage** Connection Type ASME 150# Flanged Flow Direction **Bidirectional**

1 ADREM®

- Innovative Secondary Stem Sealing System
- Mechanically Locked Valve Linings to Body & Plug
- Stainless Steel Lockable Lever Handles
- Cavity Free
- Full Vaccuum Rated

- Bidirectional Zero Leakage
- In line Plug Adjustment
- Double-D Stem Profile
- Maintenance Free Design
- Robust Flange Flat Mounting Pads



Lockable Dual Position Handle Hub

**Integral Actuator Mounting Flange Flats** 

Static Atmospheric Seal

Gland Adjustment Bolts

Secondary/Safety PTFE Packing

Diaphragm Seal

Primary Seal

1 Piece PFA Encapsulated Plug/Stem

**Q** Cavity Free

Securely Anchored & Locked Linings

Chambered Raised Face

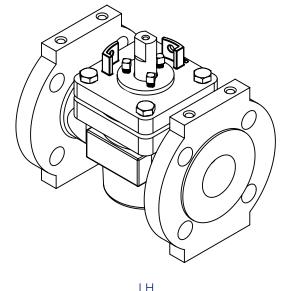
**Vent Hole** 

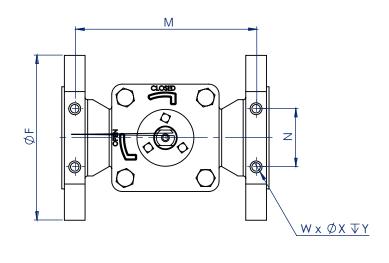
ADREM<sup>®</sup> 2

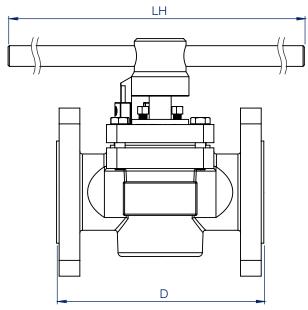
## **ASSEMBLY MODEL**

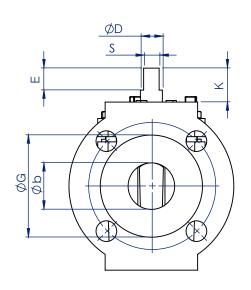


			Optional
Body	1	PFA Lined ASTM A-395 DI/A-216 WCB	PFA Lined ASTM A-351 CF8M
Plug	2	PFA Lined ASTM A-351 CD4MCu	
Diaphragm Seat	3	Virgin PTFE	
Stem Seal - Packing	4	Virgin PTFE	
Diaphragm Seal	5	Virgin PTFE	
Pusher	6	ASTM A-351 CF8M	
Bonnet	7	ASTM A-395 DI/A-216 WCB	ASTM A-351 CF8M
Square Head Bolts	8	316SS	Alloy 20
Lockable Stem Hub	9	ASTM A-351 CF8M	
Handle	10	304SS	
Hub Bolts	n	304SS	
Bonnet Bolts	12	Zinc Plated ASTM A-193 B7	Alloy 20
O-ring	13	Viton	
Name Tag	14	304SS	
			ADREM"









4

SIZE	D	øG	ØF	Øb	øD	S	Е	K	М	Z	W	X	Y	LH
1/2"	4.25	1.37	3.50	0.51	0.47	0.35	0.47	0.55	3.56	N/A	2	5/16"-18	0.47	9.75
3/4"	4.61	1.69	3.90	0.71	0.47	0.35	0.47	0.55	3.92	N/A	2	5/16"-18	0.47	9.75
1''	5.00	2.00	4.25	1.00	0.59	0.43	0.59	0.89	4.19	1.75	4	5/16"-18	0.47	9.75
1-1/2"	6.50	2.87	5.00	1.49	0.67	0.51	0.67	1.06	5.63	1.75	4	5/16"-18	0.47	12.25
2"	7.00	3.62	5.98	1.96	1.02	0.78	1.02	1.30	6.19	2.25	4	5/16"-18	0.47	17.75
3"	8.00	5.00	7.48	3.00	1.14	0.87	1.14	1.54	7.13	3.50	4	3/8"-16	0.63	23
4''	9.00	6.19	9.02	3.93	1.26	0.95	1.26	1.63	8.00	4.00	4	7/16''-14	0.63	23
6''	10.50	8.50	10.98	6.00	1.70	1.34	1.69	2.52	9.45	4.00	4	7/16''-14	0.63	29
8''	11.50	10.62	13.50	7.87	1.97	1.50	1.97	2.95	10.25	7.69	4	1/2"-13	0.63	MG

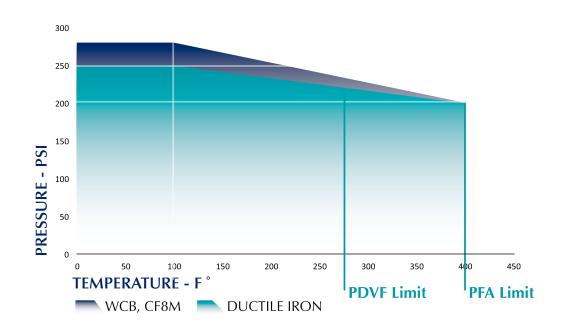
ADREM"

# TORQUE / $C_V$

SIZE	OPERATING	MAX ALLOWABLE	CV
1/2"	318	487	10
3/4"	336	487	12
1"	504	850	40
1-1/2"	864	1,328	86
2"	1,872	4,487	180
3"	2,232	7,567	291
4"	4,118	10,630	542
6"	11,520	24,534	1,076
8"	18,000	44,139	1,611

Inches / Pounds Operating Torque Includes 20% Safety Factor

### **PRESSURE - TEMPERATURE**



### **CONTROL VALVE ACCESSORIES**





Actuator/ Position Indicator with Beacon Indicator



Instrument Enclosure



Actuator/ Pneumatic Positioner



Electro-Pneumatic Positioner with Gauges



Pneumatic Positioner



Digital Positioner with Gauges



Position Indicator with Beacon Indicator



Feedback Module



Pressure Regulator with Gauge

### **ORDERING INFORMATION**

Ordering example: PVL-3-C0-M3-L1-DA-PS-C1

3-Class 1-Valve 2-Size **4-Body Material** 5-Liner PVL 1/2" - 8" CO - 150# Flanged M1 - A216 WCB L1 - PFA (standard) M2 - A395 DI L2 - PVDF M3 - A351 CF8M

**6-Operators** 7-Accessories (optional) **8-Cleaning** (optional) SB - Bare Shaft PS - Proximity Switch C1 - Chlorine HL - Hand Lever PD - Digital Positioner C2 - UPW MG - Manual Gear PP - Pneumatic Positioner C3 - Oxygen DA - DA Actuator EP - Electro Pneumatic Positioner FC - FC Actuator PR - Pressure Regulator FO - FO Actuator SV - Solenoid Valve

Notes:



**ADREM** is a trademark of Severe Service Specialists, Inc.

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