

**OVERVIEW**

**PFA Lined Piston Check Valve (PCV)**

Amresist fully lined piston check valves offer a reliable solution in demanding corrosive and ultrapure applications where prevention of backflow of process media within the piping system is required

Amresist fully lined piston check valves offer unsurpassed resistance to corrosion, permeation and microbial contamination for maximum purity and reliability with minimal maintenance.



**SPECIFICATIONS**

<b>Design Parameters</b>	<b>Standard</b>
Shell Design	ASME B 16.34
Face To Face Dimensions	ASME B 16.10 UP TO 4" 6" and larger MFR'S STANDARD <sup>1</sup>
Flange Connection Rating	ASME B 16.5 150# / DIN PN 10
Testing Standard	BS EN 12266-1
Connection	FLANGED, RF

**Pressure / Temperature Ratings**

½" - 4"	225 psig at 104°F 85 psig at 400°F
6" - 8"	85 psig at 140°F 28 psig at 400°F

**Temperature Range**

ASTM A216 WCB	-20°F to +400°F
ASTM A351 CF8M	-49°F to +400°F

**Tests Performed**

**EN 12266-1**

	1/2"- 4"	6"- 8"
Sizes	1/2"- 4"	6"- 8"
High Pressure Shell Test Hydro	340 PSI	128 PSI
High Pressure Seat Test Hydro	250 PSI	94 PSI
Low Pressure Seat Test Pneumatic	45 PSI	45 PSI

**Spark Test**

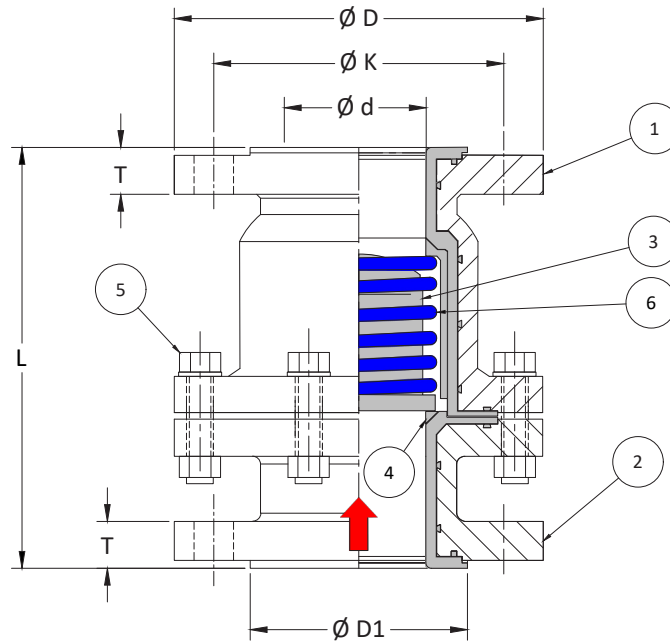
**KVDC**

Testing Done At	20 KVDC
-----------------	---------

**Notes:**

**1** ¾, 1 ¼, 2 ½, 6 and 8 inch per manufacturers standard face to face.

Part No.	Description	Materials of Construction	Qty
1	Body	ASTM A 216 GR. WCB or A351 CF8M PFA LINED, 3mm minimum thickness	1
2	Side Piece	ASTM A 216 GR. WCB or A351 CF8M PFA LINED, 3mm minimum thickness	1
3	Piston	SOLID PTFE / TFM	1
4	Seat	INTEGRAL PFA	1
5	Fasteners	ASTM A 193 GR. B7 / 2H	4-12
6	Spring	Hastelloy C276	1

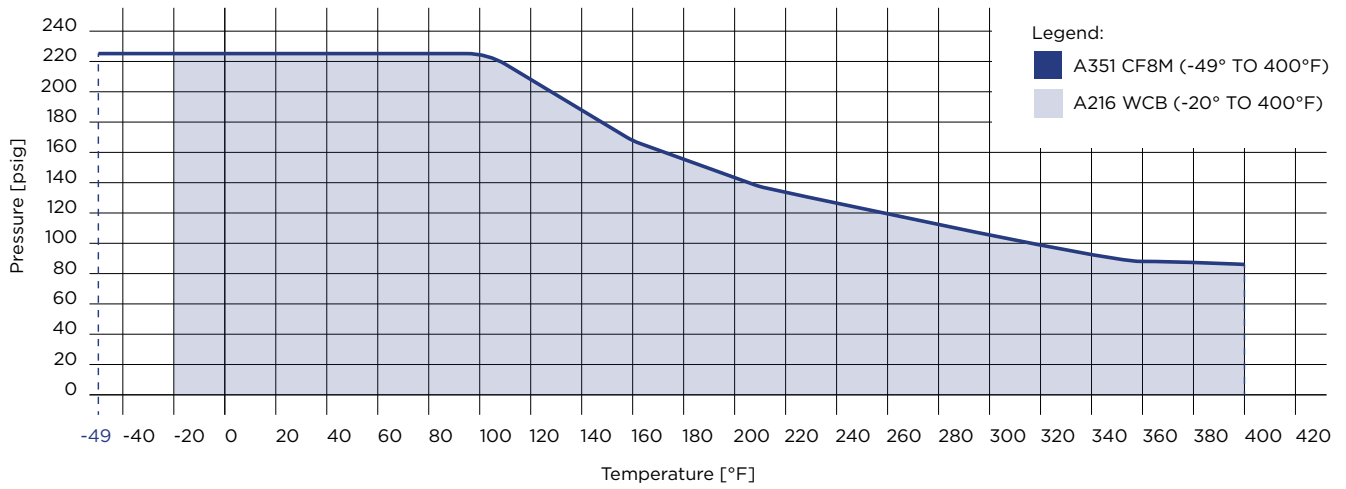


**DIMENSIONS (in)**

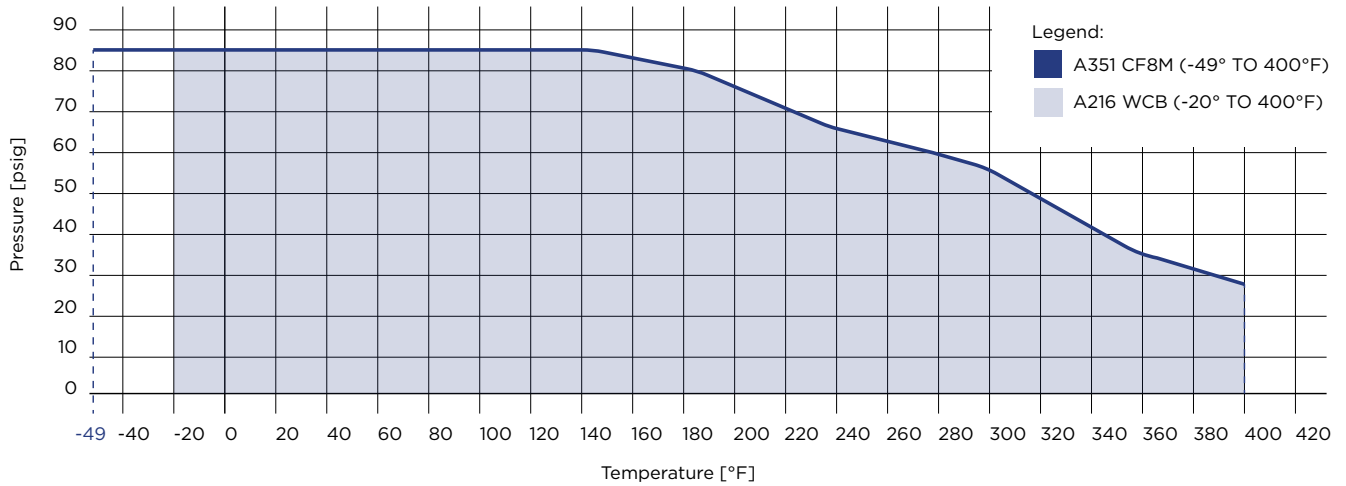
Size	L ±0.12	d ±0.04	D ±0.03	D1 ±0.03	T ±0.11 / -0.00	K ±0.06	Bolt Hole ø	n
½ in	4.25	0.49	3.54	1.38	0.47	2.36	⅝	4
¾ in	5.00	0.70	4.25	1.69	0.59	2.71	⅝	4
1 in	5.00	0.90	4.25	2.00	0.59	3.11	⅝	4
1 ¼ in	6.49	1.20	5.00	2.51	0.74	3.50	⅝	4
1 ½ in	6.49	1.49	5.00	2.87	0.74	3.86	⅝	4
2 in	7.00	1.96	5.98	3.62	0.80	4.76	¾	4
2 ½ in	7.99	2.55	7.51	4.13	0.98	5.51	¾	4
3 in	7.99	2.95	7.51	5.00	0.98	5.98	¾	4
4 in	9.01	3.93	9.00	6.18	0.98	7.51	¾	8
6 in	11.90	5.90	11.02	8.50	0.98	9.48	⅞	8
8 in	16.70	7.87	14.60	10.60	1.10	11.70	⅞	8

**P-T GRAPH | BALL CHECK VALVE (BCV) & PISTON CHECK VALVE (PCV)**

**1/2" - 4"**



**6" - 8"**



DISCOVER HOW ACRIS® VALVES INCREASE RELIABILITY AND REDUCE TOTAL COST OF OWNERSHIP FOR YOUR CRITICAL APPLICATIONS.

VISIT [AMRESIST.COM](https://www.amresist.com) TO LEARN MORE ABOUT PRODUCTS AND LOCATIONS NEAR YOU.

## HEADQUARTERS

2045 Silber Road  
Houston, Texas 77055  
Tel: +1.713.682.0000

All statements, technical information, and recommendations in this bulletin are for general use only. Consult your Amresist representative or factory for the specific requirements and material selection for your intended application. The right to change or modify product design or product without prior notice is reserved. Patents issued and applied for worldwide. Amresist® and Acris® are registered trademarks of Bray International, Inc.

© 2026 BRAY INTERNATIONAL. ALL RIGHTS RESERVED. BRAY.COM

EN\_SDS\_Amresist\_PCV\_20260202



As members of the Chlorine Institute, Amresist is committed to promoting best practices for safe production, handling, and distribution of chlorine and related products.

**Amrēsist**®  
A Bray Company

[WWW.AMRESIST.COM](https://www.amresist.com)