

OVERVIEW

PFA Lined Ball Check Valve (BCV)

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

SPECIFICATIONS

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

Pressure / Temperature Ratings

1/2" - 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
ASTM A351 CF8M	+400°F	-49°F to +400°F

Tests Performed	EN 12266-1			
Sizes	1/2"-	4"	6"-	8"
High Pressure Shell Test Hydro	340	PSI	128	PSI
High Pressure Seat Test Hydro	250	PSI	45	94 PSI
Low Pressure Seat Test Pneumatic	PSI		45	PSI

Spark Test	KVDC
Testing Done At	20 KVDC

Notes:

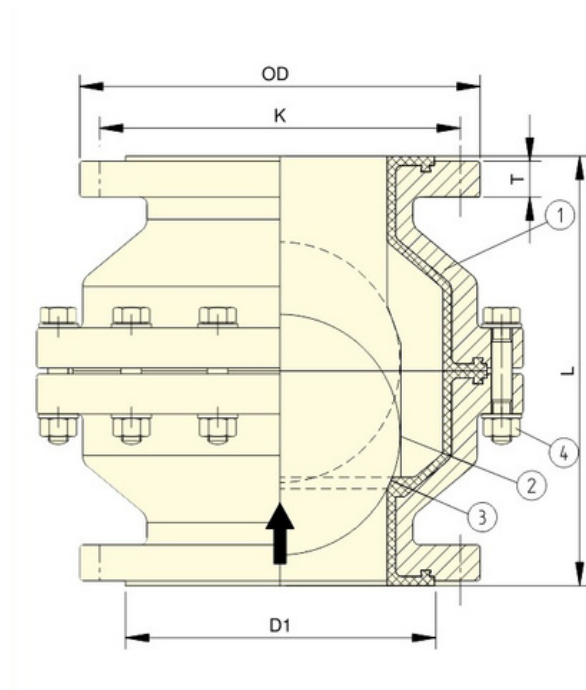
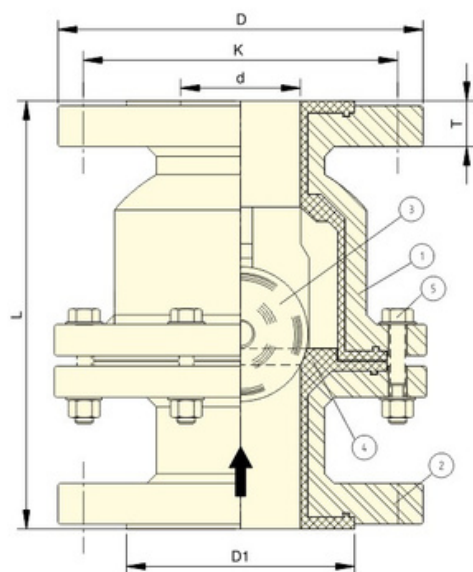
1 3/4, 1 1/4, 2 1/2, 6 and 8 inch per manufacturers standard face to face.



FLANGED ENDS

BALLCHECKVALVE (BCV)

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	Ball	SOLID PTFE / TFM INTEGRAL PFA ASTM A 193 GR. B7 / 2H	1
4	Seat		1
5	Fasteners		4-8

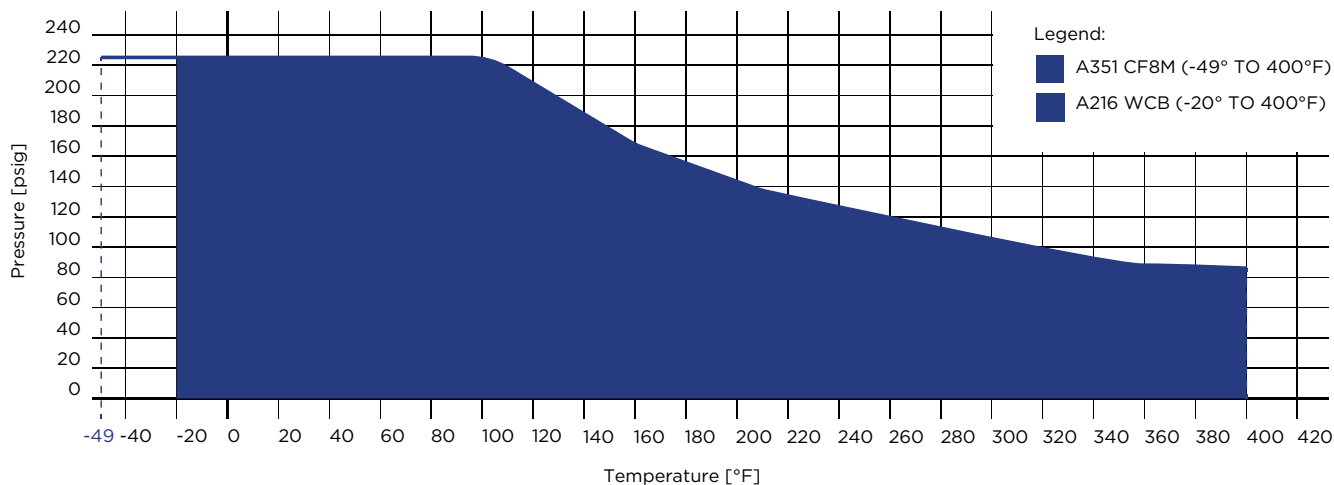


DIMENSIONS (in)

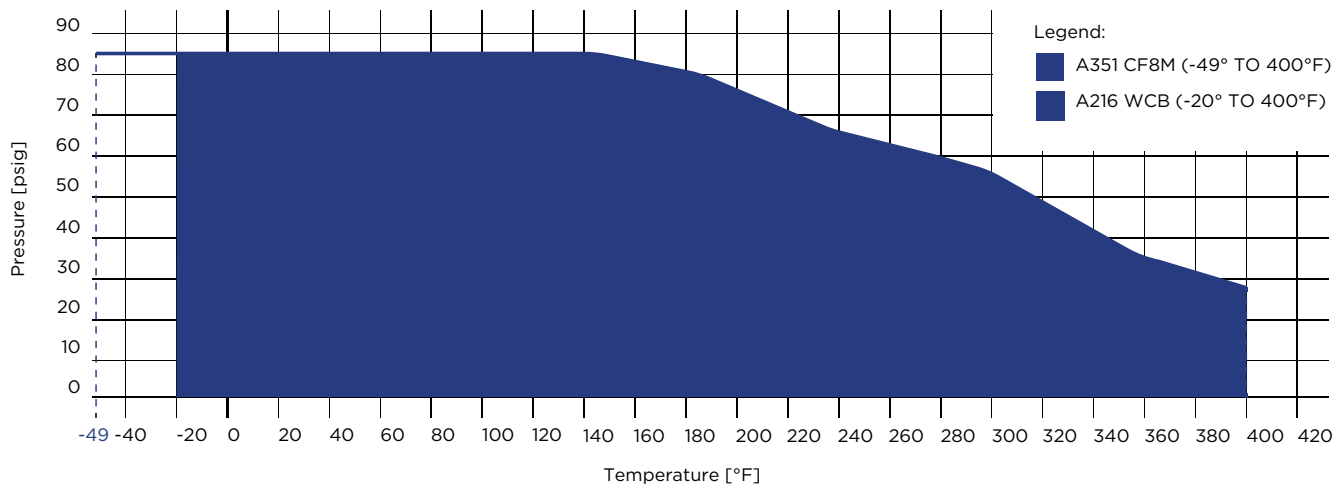
Size	L ±0.12	d ±0.04	D ±0.03	D1 ±0.03	T ±0.11 / -0.00	K ±0.06	Bolt Hole ø	n
1/2 in	4.25	0.49	3.54	1.38	0.47	2.36	5/8	4
3/4 in	5.00	0.70	4.25	1.69	0.59	2.71	5/8	4
1 in	5.00	0.90	4.25	2.00	0.59	3.11	5/8	4
1 1/4 in	6.49	1.20	5.00	2.51	0.74	3.50	5/8	4
1 1/2 in	6.49	1.49	5.00	2.87	0.74	3.86	5/8	4
2 in	7.00	1.96	5.98	3.62	0.80	4.76	3/4	4
2 1/2 in	7.99	2.55	7.51	4.13	0.98	5.51	3/4	4
3 in	7.99	2.95	7.51	5.00	0.98	5.98	3/4	4
4 in	9.01	3.93	9.00	6.18	0.98	7.51	3/4	8
6 in	11.90	5.90	11.02	8.50	0.98	9.48	7/8	8
8 in	16.70	7.87	14.60	10.60	1.10	11.70	7/8	8

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

½" - 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.

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