

ACRIS®

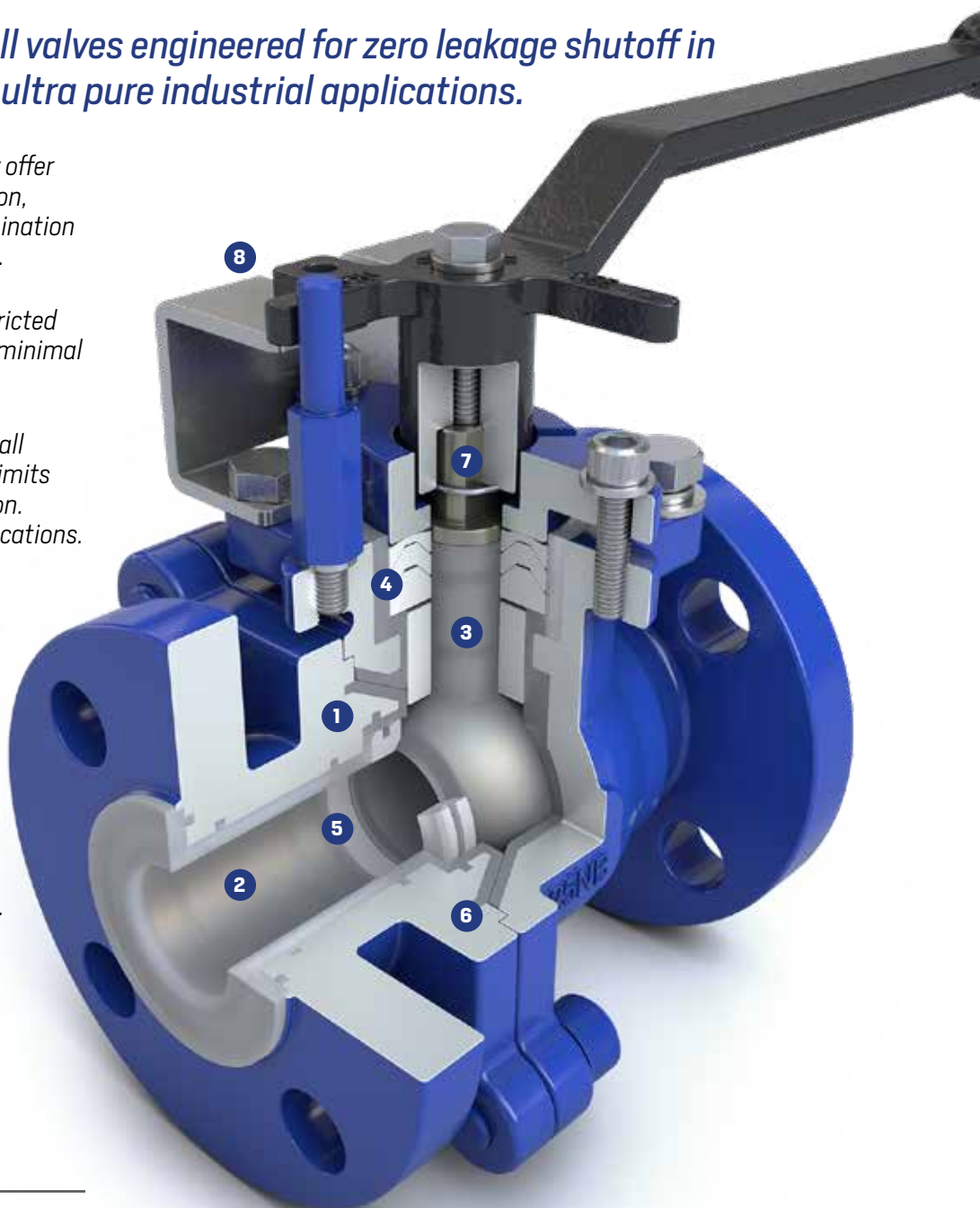
PFA LINED BALL VALVES



Acris® PFA Lined Full Port Ball Valves

Fully PFA lined full port ball valves engineered for zero leakage shutoff in demanding corrosive and ultra pure industrial applications.

- 1 Fully PFA lined ball, stem and body offer unsurpassed resistance to corrosion, permeation and microbial contamination for maximum purity and reliability.
- 2 Full port design ensures an unrestricted flow path for high flow rates with minimal pressure drop.
- 3 Rugged, high strength one piece ball and stem prevents blowouts and limits hysteresis for dependable operation. V-Port ball option for control applications.
- 4 Adjustable PTFE chevron packing eliminates leak paths and reduces fugitive emissions.
- 5 Durable, corrosion resistant TFM seat designed for zero leakage, low torque isolation.
- 6 Metal-to-metal body joints protect the locked-in liner from damage caused by external forces.
- 7 Anti-static grounding device prevents static buildup.
- 8 ISO 5211 top mounting plate for easy actuation.



Material Specifications

Qty.	Description	Material
2	Body Halves	PFA Lined ASTM A-216 WCB PFA Lined ASTM A-351 CF8M (opt.)
1	Ball* & Stem	One Piece 17-4PH, PFA (1/2" to 6") SS 304, PFA (8")
1	Handle	CS Epoxy Coated
1	Gland Packing	PTFE
2	Seats	TFM
-	Fasteners	B7, (18-8 Optional)
1	Gland Covering	SS 304
1	Lock Out/Tag Out	SS 304
1	Ground Spring	SS 304

*Optional vented ball for chlorine gas service.

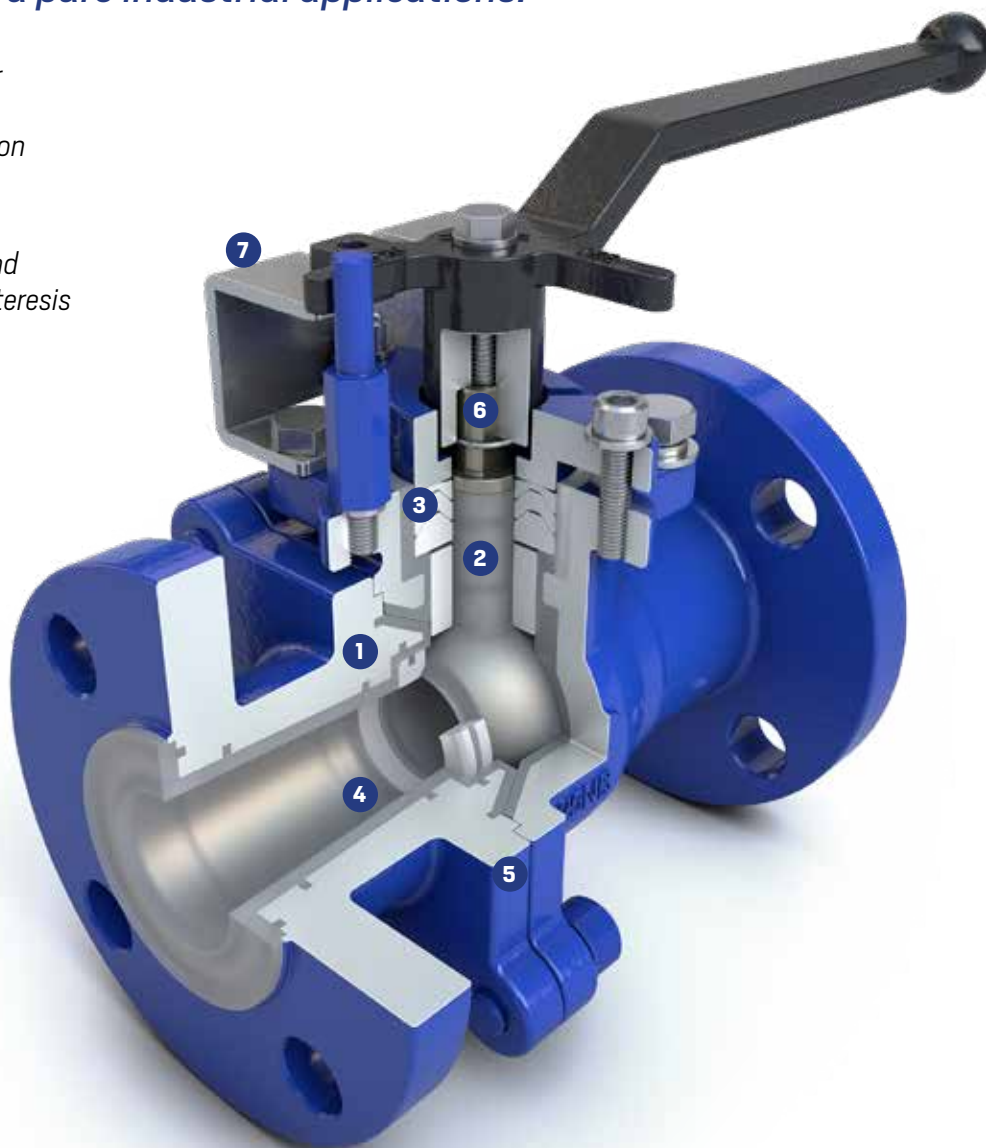
Specifications & Standards

Size Range	1/2" to 8" (15 to 200mm)
Pressure Rating	250psi (17bar) 6" and smaller 150psi (10bar) 8"
Temperature	A216 WCB -20°F to 400°F (-29°C to 204°C) A351 CF8M -49°F to 400°F (-45°C to 204°C)
Body Design	ASME B16.34
Flanges	ASME B16.5 Class 150 RF
Face-to-face	1" to 8" ASME B16.10 1/2" to 3/4" EN558-1

Acris[®] PFA Lined Standard Port Ball Valves

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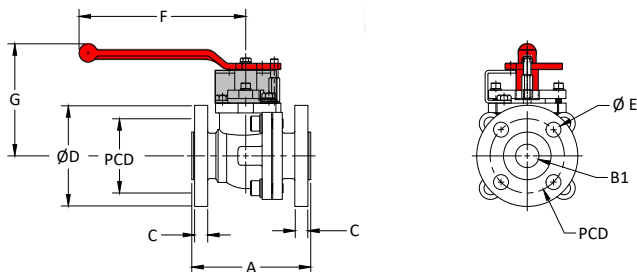
Specifications & Standards

Size Range	1" to 6" (25 to 150mm)
Pressure Rating	250psi (17bar)
Temperature	-20°F to 400°F (-29°C to 204°C)
Body Design	ASME B16.34
Flanges	ASME B16.5 Class 150 RF
Face-to-face	ASME B16.10

Acris Full Port Ball Valve Dimensions

Size [In.]	A	B1	C	ØD	PCD	ØE	F	G	Cv	Torque [lb-in]
1/2	5.12	0.59	0.55	3.50	2.38	0.63	7.00	4.92	15	133
3/4	5.90	0.78	0.55	3.85	2.75	0.63	7.00	4.92	25	177
1	5.00	0.98	0.67	4.25	3.12	0.63	7.00	4.92	50	215
1 1/2	6.50	1.48	0.74	5.00	3.88	0.63	10.00	5.00	185	330
2	7.00	1.97	0.80	6.00	4.75	0.75	10.00	5.60	320	560
3	8.00	3.15	0.98	7.50	6.00	0.75	12.00	7.00	665	865
4	9.00	3.93	0.98	9.00	7.50	0.75	12.00	8.20	1450	1485
6	10.50	5.90	1.10	11.00	9.50	0.88	Gear	Gear	3250	3100
8	18.00	7.87	1.14	13.50	11.75	0.88	Gear	Gear	6025	4820

Dimensions are approximate and subject to change.



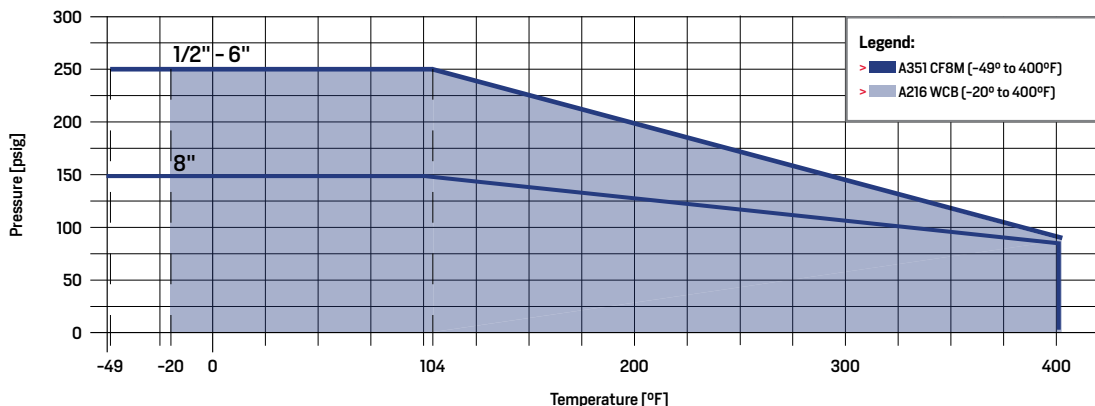
Ordering Information

Ball Full Port (One Piece Stem & Ball)

Size	1/2 to 8 inch
Body Type	FF = Flanged Full Port
Body Material	1f = Carbon Steel PFA Lined, Epoxy Coated 6Mf = PFA Lined ASTM A-351 CF8M
Stem / Ball	6ef = 17-4 PH Stainless over molded with PFA (1/2" to 6") 6f = 304 Stainless over molded with PFA (8")
Seats	T = TFM
Packing	PTFE Chevron
Body Bolts	B7 (9.8 or 10.9 zinc plated)
Operator	Handle (1/2 to 4 inch) w/ LOTO, Gear (6 to 8 inch)
Options	VB = Vented Ball for Chlorine Gas service A2 = 18-8 SS Bolting A4 = 316 SS Bolting OH = Oval Handwheel (2 inch & Smaller) Vxx = V-Port Ball (V15, V30, V45, V60, V90)

Example: 4 inch FF-1f 6ef T = 4 inch Flanged Full Port Ball, Carbon Steel Body PFA Lined, 17-4 PH Stem / Ball PFA over molded, TFM Seats, PTFE Packing, B7 Bolts, Handle w/ LOTO

PRESSURE/TEMPERATURE DIAGRAM | PFA LINED BALL VALVES



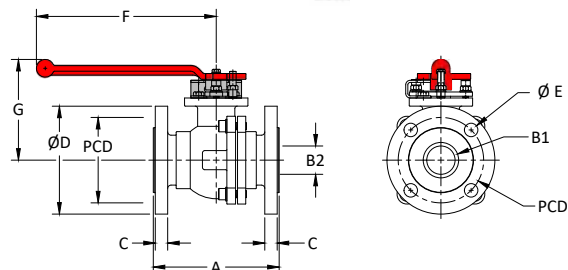
Amrësist®
A **Bray** Company

2045 Silber Road
Houston Texas 77055
Tel: 713-682-0000 • Fax: 713-682-0080
sales@amresist.com
www.amresist.com

Acris Standard Port Ball Valve Dimensions

Size [In.]	A	B1	B2	C	ØD	PCD	ØE	F	G	Cv	Torque [lb-in]
1	5.00	0.98	0.75	0.67	4.25	3.12	0.63	7.00	4.75	30	135
1 1/2	6.50	1.48	0.98	0.74	5.00	3.88	0.63	7.00	4.75	45	180
2	7.00	1.97	1.48	0.80	6.00	4.75	0.75	10.00	5.40	198	250
3	8.00	3.15	2.56	0.98	7.50	6.00	0.75	12.00	6.60	350	375
4	9.00	3.93	3.15	0.98	9.00	7.50	0.75	12.00	7.00	640	535
6	10.50	5.90	3.93	1.10	11.00	9.50	0.88	12.00	8.20	975	1424

Dimensions are approximate and subject to change.



Ordering Information

Ball Standard Port (Floating Ball - Two Piece Ball & Stem)

Size	1 to 6 inch
Body Type	FR = Flanged Standard Port
Body Material	1f = Carbon Steel PFA Lined, Epoxy Coated
Stem/Ball	6ef = 17-4 PH Stainless over molded with PFA
Seats	T = TFM
Packing	PTFE Chevron
Body Bolts	B7 (9.8 or 10.9 zinc plated)
Operator	Handle (1 to 4 inch), Gear (6 inch)
Options	VB = Vented Ball for Chlorine Gas service A2 = 18-8 SS Bolting A4 = 316 SS Bolting OH = Oval Handwheel (2 inch & Smaller)

Example: 3 inch FR-1f 6ef T - A2 = 3 inch Flanged Standard Port Ball, Carbon Steel Body PFA Lined, 17-4 PH SS Stem/Ball PFA over molded TFM Seats, PTFE Packing, 18-8 Bolts, Handle w/ LOTO

60° V-Port Ball Shown



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