



ISV Series No. IA & IC

Two Piece Oilfield Design Floating Ball Valve - Threaded Ends



Series IA—Ductile Iron Body



Series IC—Carbon Steel Body

DESIGN & PRODUCTION FEATURES

- Two Piece Heavy Duty Cast Body Construction
- Standard with heavy wrench operator
- Standard with locking device
- Standard with 316SS ball and Stem
- Lubrication grease fitting in stem
- Blowout proof stem design
- Pressure tested to API 598
- Fire safe designed
- Meets NACE MR-0175 / ISO 15156

Max. Operating Pressures (psi @ 100 Degrees F.)			
Ductile Iron Body		WCB, LCC or CF8M Body	
Series IA:	750— 1500 WOG	Series IC & ICL:	750— 2500 WOG
Series IAH:	2000 WOG	Series ICH, ICLH & ICS:	2000 & 3000 WOG
		Series ICXH:	5000 WOG

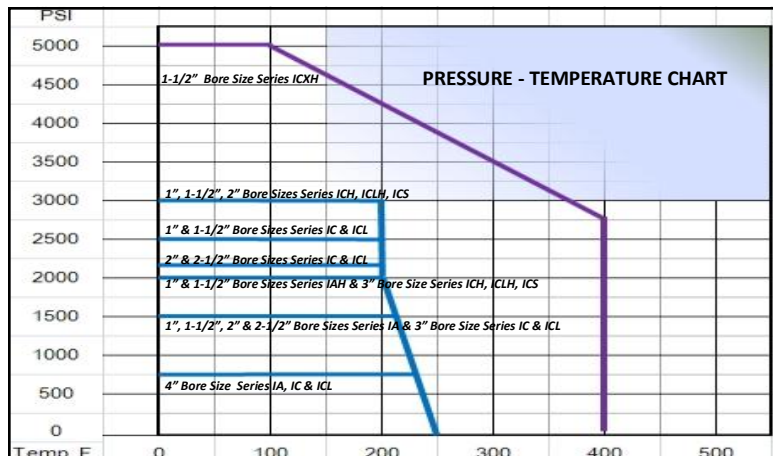
ISV HOW TO IDENTIFY ISV Series IA & IC Cast two piece body Oilfield Floating Ball Valves

I	C	F	-	N	H
ISV Series	Body Design & Material	Port	Seats	Seals	
I ISV Oilfield Design	A, AH 2 PC Body, A395 Ductile Iron	F Full	N Nylon	V Viton	
	C, CH, CXH 2 PC Body, A216 Gr. WCB	R Reduced	P Peek	H HNBR	
	CL, CLH 2 PC Body, A352 Gr. LCC			L (Low Temp.)	
	CS 2 PC Body, A351 Gr. CF8M				

ISV oilfield designed floating ball valve
Figure Number Example: ICF-NH

Describes a Two piece ball valve, ASME A216 Grade WCB body, full port, with Nylon seats, HNBR seals.

Note: The valve working pressure ratings are dependent on the valve port size. Refer to the pressure chart on the opposite page for specific valve working pressures.

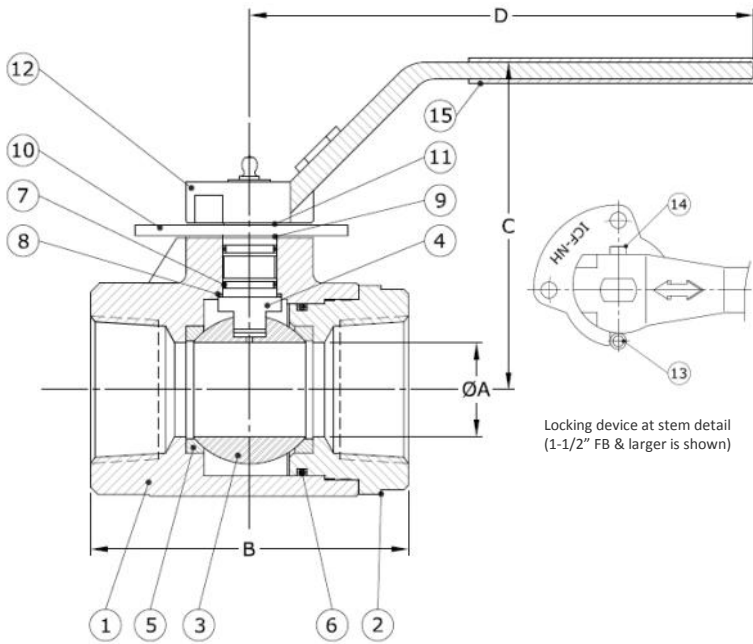


QUALITY MANAGEMENT SYSTEM
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ISO 9001:2008



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DESIGN STANDARDS		
Basic Design		ASME B16.34 (exclude Ductile Iron)
Pressure test		API 598
Ends	Threaded	ASME B16.11, B1.20.1

MATERIALS OF CONSTRUCTION

No.	PART NAME	MATERIAL			
		IA, IAH	IC, ICH, ICXH	ICS	ICL, ICLH
	ISV Series Number:				
1	BODY	A395 Ductile Iron	A216 WCB	A351 CF8M	A352 LCC
2	END CAP				
3	BALL	A276 316 SS			
4	STEM	A276 316 SS			
5	SEAT	NYLON + MoS2 (Series ICXH: PEEK)			
6	BODY/CAP O-RING	HNBR Standard (Viton Available)	L.T. Viton		
7	STEM O-RING	HNBR Standard (Viton Available)	L.T. Viton		
8	THRUST WASHER	PTFE			
9	WASHER	PTFE			
10	STOP PLATE	Steel			
11	RETAINING RING	Steel			
12	LEVER (Wrench)	A216 WCB			
13	STOP SCREW	Steel			
14	BOLT	Steel			
15	LEVER SLEEVE	Vinyl			

Ductile Iron Body	Valve Size (in.)	Pressure (WOG)			A	B	C	D	Break Torque (ft/lbs)	Wt. (lbs)
	Nom. x Bore	IA	IAH							
	1 X 1	1500	2000							
1 ½ X 1 ½	1500	-		1.5	5.5	5.5	8.5	52	14	
2 X 1 ½	1500	2000		38.1	139.7	140.8	216.0	52	15-IA (16-IAH)	
2 X 2	1500	-		2.0	6.0	5.9	8.5	95	21	
2 ½ X 2 ½	1500	-		2.6	7.0	6.6	15.0	120	30	
3 X 2	1500	-		50.8	185.4	152.1	216.0	95	36	
3 X 3	1000	-		3.0	8.8	6.9	15.0	150	45	
4 X 3	1000	-		76.2	222.3	175.0	381.0	150	42	
4 X 4	750	-		4.1	9.4	7.9	18.1	260	69	

Carbon & Stainless Steel Body	Valve Size (in.)	Pressure (WOG)			A	B	C	D	Break Torque (ft/lbs)	Wt. (lbs)
	Nom. x Bore	IC & ICL	ICH, ICLH & ICS	ICXH						
	1 X 1	2500	3000	-						
1 ½ X 1 ½	2500	-	-	1.5	5.5	5.5	8.5	52	15	
2 X 1 ½	2500	3000	5000	38.1	139.7	140.8	216.0	52	15 (17-ICXH)	
2 X 2	2160	3000	-	2.0	6.0	5.9	8.5	95	21	
2 ½ X 2 ½	2160	-	-	2.6	7.0	6.6	15.0	120	30	
3 X 2	2160	3000	-	50.8	185.4	152.1	216.0	95	36	
3 X 3	1500	2000	-	3.0	8.8	6.9	15.0	150	47	
4 X 3	1500	-	-	76.2	222.3	175.0	381.0	150	42	
4 X 4	750	-	-	4.1	9.4	7.9	18.1	260	69	

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