



Metal Seated Ball Valves

Material & Engineering Specifics



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CHAODA'S METAL SEATED BALL VALVES

The Chaoda Group is proud to be able to offer a unique combination in the Metal Seated Ball Valve industry – field proven designs, the latest in processing technology, and high efficiency manufacturing – **to create the highest quality Metal Seated Ball Valve at an extremely affordable price.**

We are a fully integrated manufacturer owning all of the processes required to produce severe service valves. From the design to the foundry to the machining and hard coating processing to the assembly and test, we own it and control it. This streamlined, tightly controlled system generates highly consistent product tailored to your needs at a cost that won't break the budget.

Since 1984, The Chaoda Group has been committed to producing high quality valves for industry at a competitive price. Consistency in ownership has kept this strategy on track and maintained a philosophy of ongoing investment in Research and Development as well as manufacturing efficiencies all aimed at staying ahead of the competition. The result is ultimate blend of high quality Metal Seated Ball Valves that you can afford to buy!



MATERIAL OPTIONS

Chaoda offers our Metal Seated Ball Valves in a variety of material options ensuring optimal performance in virtually any operating environment.

NO.	PART NAME	BILL OF MATERIALS
1	Body/End Connection	Forged or Cast Carbons; Stainless Steels; Duplex, Chrome, and Nickel Alloys
2	Ball	A182 F6a; 316 SS; Duplex Alloys; Inconel™ and other Nickel Alloys
3	Seat	A182 F6a; 316 SS; Duplex Alloys; Inconel™ and other Nickel Alloys; Stellite™
4	Coatings	HVOF Applied Chrome Carbide and Tungsten Carbide; Fused Nickel Alloy; Fused Borides
5	Body Seal	316 SS; Inconel™ Alloys
6	Seat Seal	Graphite; Lapped Metal to Metal
7	High Strength Spring	17-4 PH SS; Inconel™ 718
8	Stem	A182 F6a; 316 SS; 17-4 PH SS; Inconel™ X750; Inconel™ 718
9	Thrust Bearing	Hardened Metal; Graphite
10	Stem Packing	Graphite
11	Packing Gland	A182 F6a; 304 SS; 316 SS

FLOATING METAL SEATED BALL VALVE

A Powerhouse For Any Industry

Employing the latest in processing technology and manufacturing automation, Chaoda offers high quality metal seated ball valves for service conditions where soft seats will not perform.

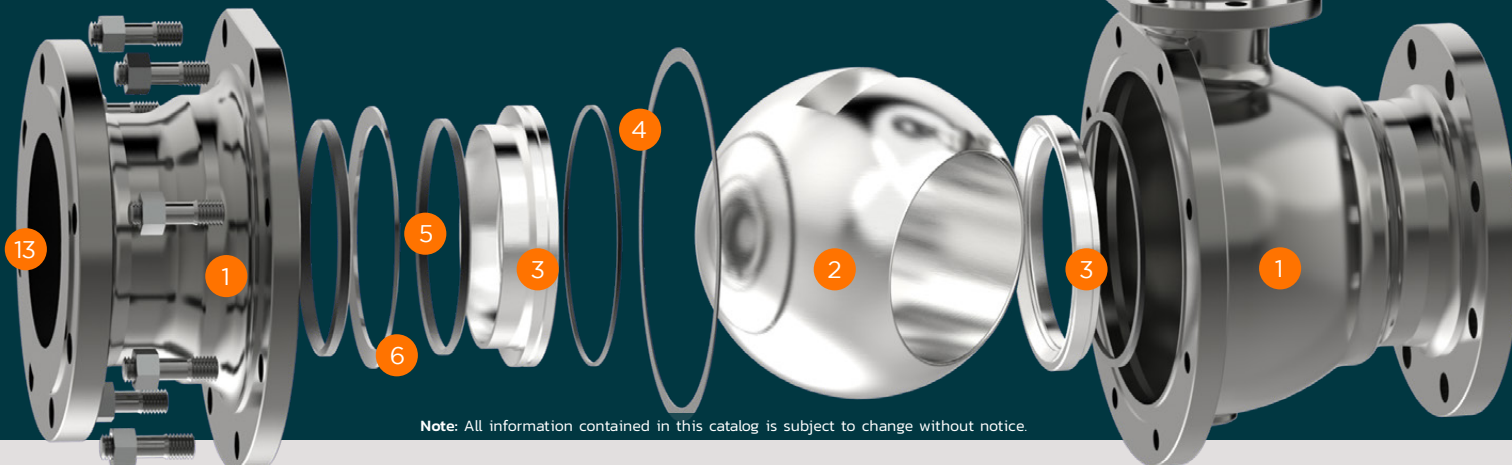
Whether it is temperature or abrasion driven, Chaoda offers a broad range of hard coatings designed for optimal performance. Minimal moving parts with flawless execution make our floating ball valves a more suitable choice for certain applications. Full rotational surface lapping of slurry resistant Scraper Seats make Chaoda valves the most dependable sealing metal seated ball valve available – at an affordable price.

Let Chaoda solve your tough applications today!



TAKE A LOOK INSIDE

- 1. Body** - Designed for maximum abrasion resistance and longevity.
- 2. Precision Hard Surfaced Ball** - Maximized sealing surface for reliable isolation.
- 3. Hard Surfaced Mate Lapped Scraper Seat** - For a perfect seal in abrasive slurries and matched expansion rates in high temperatures.
- 4. Body Seal** - Endures under pressure.
- 5. Seat Seal Gland** - Additional leak prevention measures.
- 6. High Strength Spring** - For a resilient loading of ball to seat.
- 7. Stem** - High strength for maximum safety.
- 8. Thrust Bearing** - Ensures consistent operation and packing life.
- 9. Graphite Stem Packing** - Protects against leakage to atmosphere.
- 10. Packing Gland** - Maximizes stem seal.
- 11. Gland Follower** - Ensures even compression of packing.
- 12. ISO Mounting Bracket** - Standardized to fit most actuators.
- 13. End Connection** - Flanged shown below, other options available.

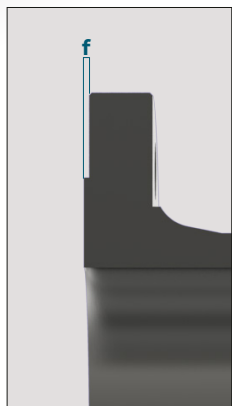
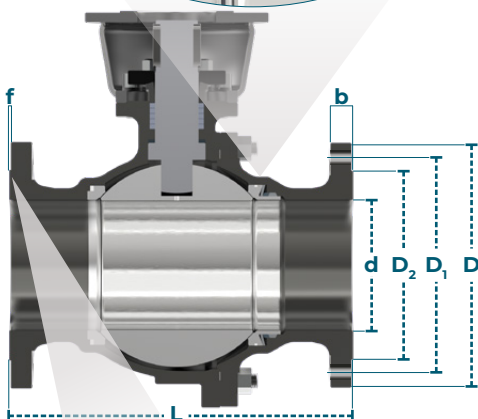
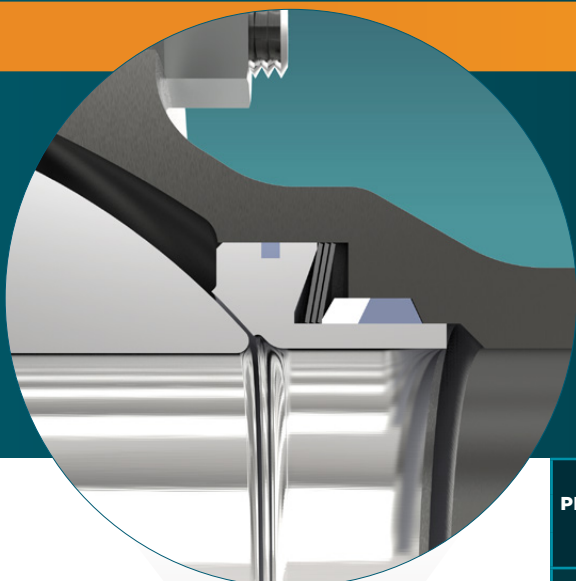


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A unique technique has been employed for the ball grinding, which makes the ball surface reach a perfect roundness. This makes the ball and seat's seal exceed the standard requirements.



Each valve is factory acceptance tested per API Standard 598, with no visible seat leakage. Partial sizes shown. Other sizes and classes available as standard.



A broad range of hardening processes are available to suit the requirements of the application. All are reliably applied with the latest processing techniques.

Our metal seated ball valves are suitable for use in the most critical of working conditions.

PRESSURE CLASS	SIZE		DIMENSIONS (IN)								WEIGHT (LB)	
			L		d	D	D ₁	D ₂	b	f	LEVER	GEAR
	DN	NPS	RF	RTJ								
CLASS 150 PN20	15	½	4.25	4.69	0.55	3.50	2.38	1.38	0.45	0.06	7	-
	20	¾	4.61	5.12	0.75	3.86	2.76	1.69	0.45	0.06	9	-
	25	1	5.00	5.51	0.98	4.25	3.13	2.01	0.45	0.06	11	-
	32	1 ¼	5.51	6.02	1.26	4.61	3.50	2.52	0.51	0.06	15	-
	40	1 ½	6.50	7.01	1.50	5.00	3.88	2.87	0.57	0.06	18	-
	50	2	7.01	7.52	2.01	5.98	4.74	3.62	0.63	0.06	26	-
	65	2 ½	7.48	7.99	2.52	7.36	5.49	4.13	0.69	0.06	40	-
	80	3	7.99	8.50	2.99	7.48	6.00	5.00	0.77	0.06	53	-
	100	4	9.02	9.53	4.02	9.02	7.50	6.18	0.94	0.06	84	117
	125	5	14.02	14.53	5.00	10.00	8.50	7.32	0.94	0.06	132	174
CLASS 300 PN50	15	½	5.51	5.94	0.55	3.74	2.62	1.38	0.57	0.06	7	-
	20	¾	5.98	6.50	0.75	4.61	3.25	1.69	0.63	0.06	11	-
	25	1	6.50	7.01	0.98	4.88	3.50	2.01	0.69	0.06	13	-
	32	1 ¼	7.01	7.52	1.26	5.24	3.88	2.52	0.77	0.06	18	-
	40	1 ½	7.48	7.99	1.50	6.14	4.51	2.87	0.83	0.06	24	-
	50	2	8.50	9.13	2.01	6.50	5.00	3.62	0.89	0.06	35	-
	65	2 ½	9.49	10.12	2.52	7.48	5.87	4.13	1.00	0.06	53	-
	80	3	11.14	11.77	2.99	8.27	6.63	5.00	1.14	0.06	75	115
	100	4	12.01	12.64	4.02	10.00	7.87	6.18	1.26	0.06	123	168
	125	5	15.00	15.63	5.00	10.98	9.25	7.32	1.38	0.06	190	273
CLASS 600 PN110	15	½	6.50	6.46	0.55	3.74	2.62	1.38	0.57	0.25	11	-
	20	¾	7.48	7.48	0.75	4.65	3.25	1.69	0.63	0.25	15	-
	25	1	8.50	8.50	0.98	4.88	3.50	2.01	0.69	0.25	20	-
	32	1 ¼	9.02	9.02	1.26	5.24	3.88	2.52	0.83	0.25	29	-
	40	1 ½	9.49	9.49	1.50	6.14	4.51	2.87	0.89	0.25	37	-
	50	2	11.50	11.61	2.01	6.50	5.00	3.62	1.00	0.25	55	-
	65	2 ½	12.99	13.11	2.52	7.48	5.87	4.13	1.14	0.25	93	-
CLASS 900 PN150	15	½	8.50	8.50	0.55	4.76	3.25	1.38	0.89	0.25	20	-
	20	¾	9.02	9.02	0.79	5.12	3.50	1.69	1.00	0.25	29	-
	25	1	10.00	10.00	0.98	5.87	4.00	2.01	1.14	0.25	35	-
	32	1 ¼	10.98	10.98	1.26	6.26	4.37	2.52	1.14	0.25	53	-
	40	1 ½	12.01	12.01	1.50	7.01	4.87	2.87	1.26	0.25	68	-
CLASS 1500 PN260	15	½	8.50	8.50	0.55	4.76	3.25	1.38	0.89	0.25	22	-
	20	¾	9.02	9.02	0.79	5.12	3.50	1.69	1.00	0.25	31	-
	25	1	10.00	10.00	0.98	5.87	4.00	2.01	1.14	0.25	37	-
	32	1 ¼	10.98	10.98	1.26	6.26	4.37	2.52	1.14	0.25	55	-
	40	1 ½	12.01	12.01	1.50	7.01	4.87	2.87	1.26	0.25	73	-
50	2	14.49	14.61	1.97	8.50	6.15	3.62	1.52	0.25	106	-	

Partial sizes shown. Other sizes available as standard.

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TRUNNION METAL SEATED BALL VALVE

For When Isolation Gets Tough

In applications where operating torque matters, our trunnion ball valves are the answer. Thanks to the trunnion's thrust support, turning on and off is a breeze.

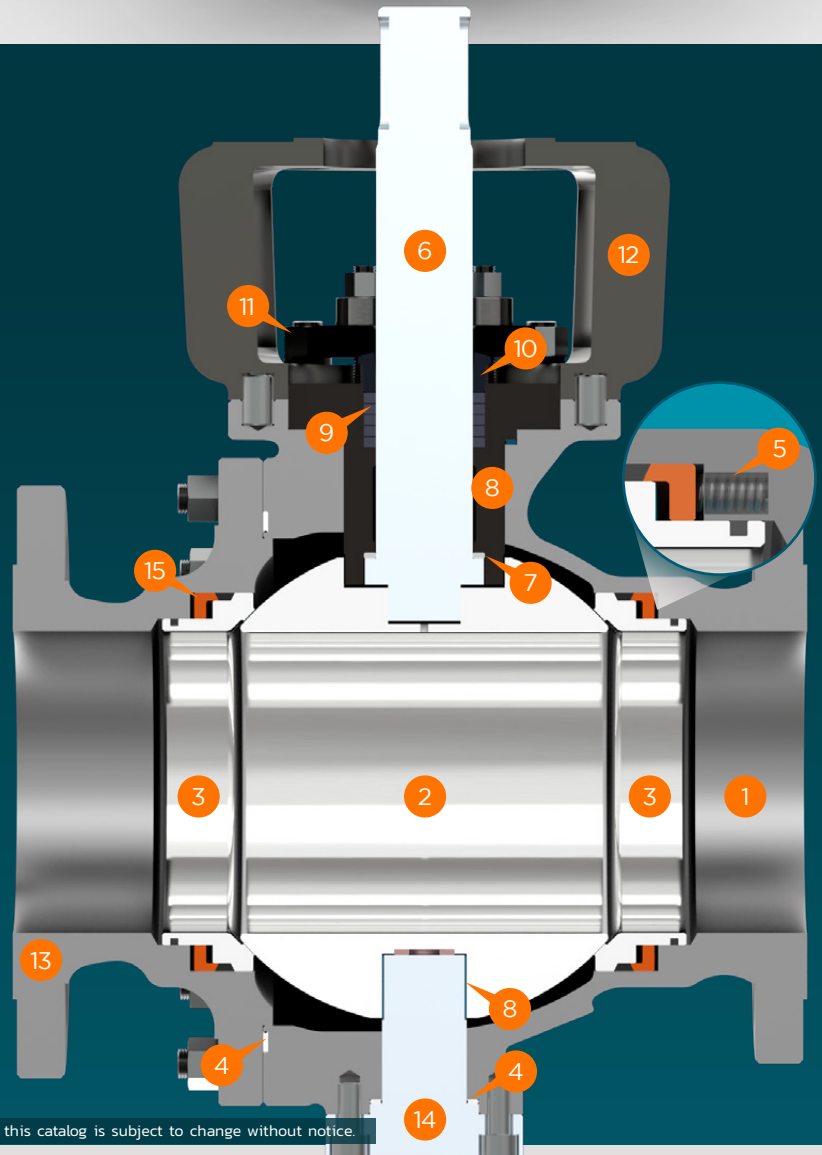
Whether it is temperature or abrasion driven, Chaoda offers a broad range of hard coatings designed for optimal performance. A variety of spring protection designs ensure consistent operating torque and sealing. Full rotational surface lapping of slurry resistant Scraper Seats make Chaoda valves the most dependable sealing metal seated ball valves available - at an affordable price.

Let Chaoda solve your tough applications today!



TAKE A LOOK INSIDE

1. **Body** - Provides structural integrity.
2. **Precision Hard Surfaced Ball** - Maximized sealing surface for reliable isolation.
3. **Hard Surfaced Mate Lapped Scraper Seat** - For a perfect seal in abrasive slurries and matched expansion rates in high temperatures.
4. **Body and Trunnion Seal** - Endures under pressure.
5. **High Strength Spring** - For a resilient loading of ball to seat.
6. **Stem** - High strength for maximum safety.
7. **Thrust Bearing** - Helps ensure consistent operating torque.
8. **Stem and Trunnion Bearing** - Prevents any axial loading that could increase operating torque.
9. **Graphite Stem Packing** - Provides structural integrity.
10. **Packing Gland** - Maximizes stem seal.
11. **Gland Follower** - Ensures even compression of packing.
12. **ISO Mounting Bracket** - Standardized to fit most actuators.
13. **End Connection** - Flanged shown below, other options available.
14. **1-Piece Trunnion** - For vertical support and consistent torque.
15. **Spring Gland** - Compresses spring for additional leak prevention measures.

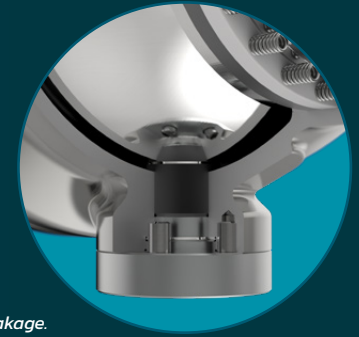


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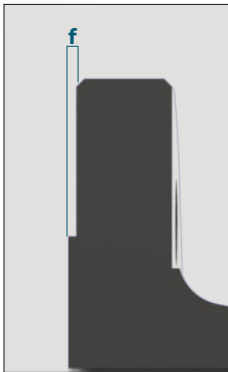
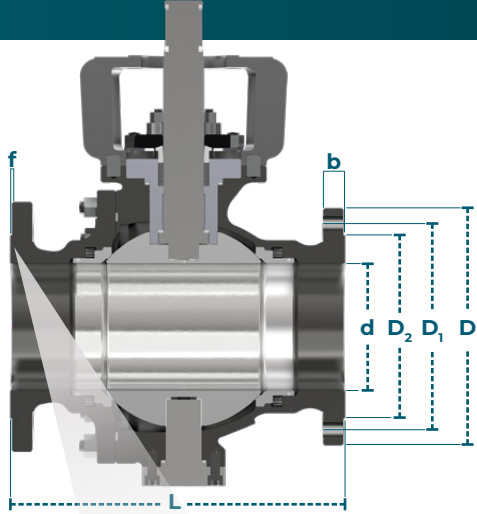
TRUNNION MOUNT



The trunnion support structure relieves the ball of downward stress due to gravity. The pivot point glides the ball with ease for a perfect seal. Trunnion support together with pressure assisted seats ensure reliable sealing with lower operating torques.



Each valve is factory acceptance tested per API Standard 598, with no visible seat leakage.



WELDED ENDS

Some systems require, or prefer, weld end connections. Chaoda offers various weld end configurations in both Floater and Trunnion models. The same high quality internals, just different end connections!

PRESSURE CLASS	SIZE		DIMENSIONS (IN)									WEIGHT (LB)	
			L			d	D	D ₁	D ₂	b	f		
	DN	NPS	RF	RTJ	BW								
CLASS 150 PN20	100	4	9.02	-	12.01	4.02	9.02	7.5	6.18	0.94	0.06	132	
	125	5	14.02	-	15	5	10	8.5	7.32	0.94	0.06	176	
	150	6	15.51	-	17.99	5.98	10.98	9.51	8.5	1	0.06	223	
	200	8	17.99	-	20.51	7.99	13.5	11.75	10.63	1.14	0.06	366	
	250	10	20.98	-	22.01	10	15.98	14.25	12.76	1.22	0.06	624	
	300	12	24.02	-	25	12.01	19.02	17.01	15	1.26	0.06	1021	
	350	14	27.01	-	30	13.27	20.98	18.74	16.26	1.38	0.06	1371	
	400	16	30	-	32.99	15.24	23.5	21.26	18.5	1.46	0.06	1984	
	450	18	34.02	-	35.98	17.24	25	22.76	20.98	1.57	0.06	2535	
	500	20	35.98	-	39.02	19.25	27.52	25	22.99	1.69	0.06	2998	
	600	24	42.01	-	45	23.27	32.01	29.51	27.24	1.89	0.06	5542	
	650	26	45	-	49.02	24.92	30.94	29.31	27.99	1.57	0.06	7055	
	700	28	49.02	-	52.99	26.93	32.95	31.32	30	1.69	0.06	8818	
	750	30	50.98	-	55	28.94	34.92	33.31	32.01	1.69	0.06	10582	
CLASS 300 PN50	100	4	12.01	-	12.01	4.02	10	7.87	6.18	1.26	0.06	154	
	125	5	15	-	15	5	10.98	9.25	7.32	1.38	0.06	209	
	150	6	15.87	-	17.99	5.98	12.52	10.63	8.5	1.46	0.06	282	
	200	8	19.76	-	20.51	7.99	15	12.99	10.63	1.63	0.06	516	
	250	10	22.36	-	22.01	10	17.52	15.26	12.76	1.89	0.06	888	
	300	12	25.51	-	25	12.01	20.51	17.76	15	2.01	0.06	1327	
	350	14	30	-	30	13.27	22.99	20.26	16.26	2.13	0.06	1770	
	400	16	32.99	-	32.99	15.24	25.51	22.5	18.5	2.28	0.06	2806	
	450	18	35.98	-	35.98	17.24	27.99	24.74	20.98	2.4	0.06	3197	
	500	20	39.02	-	39.02	19.25	30.51	27.01	22.99	2.52	0.06	3748	
	600	24	45	-	45	23.27	35.98	32.01	27.24	2.76	0.06	6834	
	650	26	49.02	-	49.02	24.92	34.13	31.63	29.02	3.43	0.06	9921	
	700	28	52.99	-	52.99	26.93	36.26	33.74	30.98	3.43	0.06	13228	
	750	30	55	-	55	28.94	39.02	36.26	33.27	3.62	0.06	16535	
CLASS 600 PN110	100	4	17.01	17.13	17.01	4.02	10.75	8.50	6.18	1.50	0.25	234	
	125	5	20.00	20.12	20.00	5.00	12.99	10.49	7.32	1.77	0.25	375	
	150	6	22.01	22.13	22.01	5.98	14.02	11.50	8.50	1.89	0.25	531	
	200	8	25.98	26.14	25.98	7.99	16.50	13.74	10.63	2.20	0.25	979	
	250	10	30.98	31.14	30.98	10.00	20.00	17.01	12.76	2.52	0.25	1473	
	300	12	32.99	33.11	32.99	12.01	22.01	19.25	15.00	2.64	0.25	2315	
	350	14	35.00	35.12	35.00	13.15	23.74	20.75	16.26	2.76	0.25	2903	
	400	16	39.02	39.13	39.02	15.16	27.01	23.74	18.50	3.03	0.25	3968	
	450	18	42.99	43.11	42.99	17.17	29.25	25.75	20.98	3.43	0.25	5291	
	CLASS 900 PN150	80	3	15.00	15.12	15.00	2.99	9.49	7.50	5.00	1.52	0.25	207
		100	4	17.99	18.11	17.99	4.02	11.50	9.25	6.18	1.75	0.25	311
		125	5	22.01	22.13	22.01	5.00	13.74	11.00	7.32	2.01	0.25	507
		150	6	24.02	24.13	24.02	5.98	15.00	12.50	8.50	2.20	0.25	717
		200	8	29.02	29.13	29.02	7.99	18.50	15.50	10.63	2.50	0.25	1279
250		10	32.99	33.11	32.99	10.00	21.46	18.50	12.76	2.76	0.25	1874	
CLASS 1500 PN260	300	12	37.99	38.11	37.99	12.01	24.02	21.00	15.00	3.13	0.25	2932	
	80	3	18.50	18.62	18.50	2.99	10.51	7.50	5.00	1.89	0.25	287	
	100	4	21.50	21.61	21.50	4.02	12.24	9.50	6.18	2.13	0.25	423	
	125	5	26.50	26.61	26.50	4.92	14.76	11.50	7.32	2.89	0.25	739	
	150	6	27.76	27.99	27.76	5.67	15.51	12.50	8.50	3.27	0.25	1047	
	200	8	32.76	33.11	32.76	7.56	19.02	15.50	10.63	3.62	0.25	1808	
CLASS 2500 PN420	250	10	39.02	39.37	39.02	9.41	23.03	19.00	12.76	4.25	0.25	2910	
	40	1 1/2	15.12	15.24	15.12	1.5	7.99	5.75	2.87	1.75	0.25	159	
	50	2	17.76	17.87	17.76	1.65	9.25	6.75	3.62	2.01	0.25	229	
	65	2 1/2	20	20.24	20	2.05	10.51	7.75	4.13	2.26	0.25	309	
	80	3	22.76	22.99	22.76	2.44	12.01	9	5	2.64	0.25	445	
	100	4	26.5	26.89	26.5	3.43	14.02	10.75	6.18	3.01	0.25	672	
CLASS 2500 PN420	125	5	31.26	31.77	31.26	3.94	16.5	12.75	7.32	3.64	0.25	1168	
	150	6	35.98	36.5	35.98	5.16	19.02	14.5	8.5	4.25	0.25	1676	
	200	8	40.24	40.87	40.24	7.05	21.65	17.25	10.63	5	0.25	2646	
	250	10	50	50.87	50	8.78	26.57	21.25	12.76	6.52	0.25	4586	

Partial sizes shown. Other sizes and classes available as standard.

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END CONNECTION

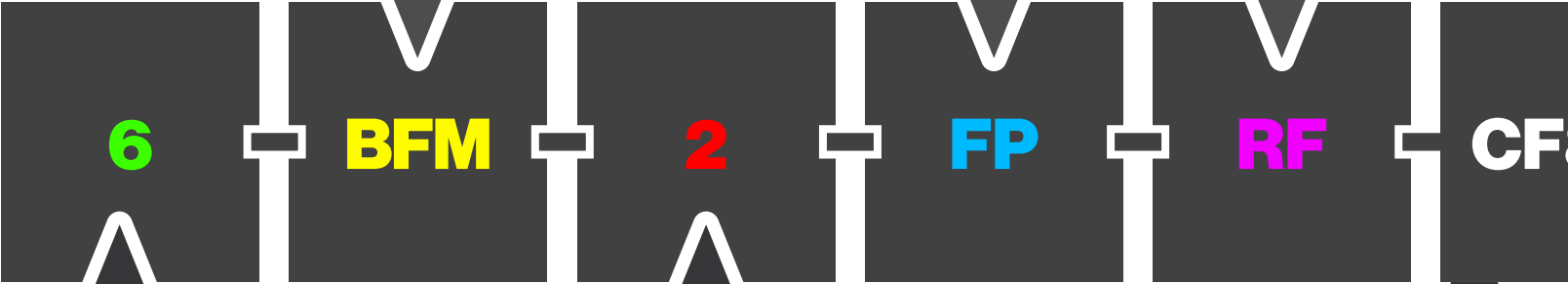
- RF = RAISED FACE **
- RTJ = RING TYPE JOINT
- BW = BUTT WELD *
- SW = SOCKET WELD
- T = THREADED
- W = WAFER
- SWXT = SW X THREADED
- H = HUB END
- EB = EXTENDED BUTT WELD END
- PE = EXTENDED SW PIPE NIPPLES
- FF = FLAT FACE
- FG = GROOVE TYPE FLANGE

VALVE TYPE

- BF = FLOATING BALL
- BT = TRUNNION BALL
- BFM = FLOATING MSBV
- BTM = TRUNNION MSBV
- BFV = V FLOATING BV
- BTV = V TRUNNION BV
- BFMV = V FLOATING MSBV
- BTMV = V TRUNNION MSBV

PORT OPENING

- FP = FULL PORT
- RP = REDUCED PORT



PRESSURE CLASS

- 1 = 150
- 3 = 300
- 6 = 600
- 8 = 800
- 9 = 900
- 15 = 1500
- 25 = 2500
- 45 = 4500
- A = 1000 PSI
- B = 1500 PSI
- C = 2000 PSI
- D = 3000 PSI
- E = 800 PSI
- F = 6000 PSI

BODY CONFIGURATION

- 2 = 2 PC.
- 3 = 3 PC.
- U = UNIBODY
- 3W2P = 3 WAY 2 PORT
- 3W3P = 3 WAY 3 PORT
- BS = BELLOWS SEALED
- CR = CRYOGENIC
- HT = HIGH TEMP EXTENSION
- WJ = WELD-ON JACKET
- BJ = BOLT-ON JACKET
- 2SW = 2 PC. SEAL WELDED
- FW = FULLY-WELDED
- ADD "SP" FOR SHORT PATTERN

BODY MATERIAL

- WCB = CAST A216 WCB
- LCB = CAST A352 LCB
- LCC = CAST A352 LCC
- WC6 = CAST A217 WC6
- WC9 = CAST A217 WC9
- C5 = CAST A217 C5
- C12 = CAST A217 C12
- C12A = CAST A217 C12A
- CF3 = CAST A351 CF3
- CF8 = CAST A351 CF8
- CF3M = CAST A351 CF3M
- CF8M = CAST A351 CF8M
- CN7M = CAST A351 CN7M
- CD4MCU = CAST A890 1A
- CD4MCUN = CAST A890 1B
- CD3MCUN = CAST A890 1C
- CD3MN = CAST A890 4A
- CE3MN = CAST A890 5A
- A105 = FORGED A105 (NORMALIZED)
- LF2 = FORGED A350 LF2
- F11 = FORGED A182 F11
- F22 = FORGED A182 F22
- F5 = FORGED A182 F5
- F9 = FORGED A182 F9
- F91 = FORGED A182 F91
- F51 = FORGED A182 F51
- F53 = FORGED A182 F53
- F316 = FORGED A 182 F316
- F316L = FORGED A182 F316L
- F304 = FORGED A182 F304
- F304L = FORGED A182 F304L
- M = MONEL
- 1800H = INCOLOY 800H
- HC = CW12MW (HASTELLOY C-276)

HOW TO ORDER BALL VALVES

This unique Valve Figure Number system is arranged to cover the basic valve design features. When ordering, please include this basic Figure Number and add any additional design requirements and features in a complete valve description. Valve designs, materials, trims and other features are not limited to those listed below.

* Customer to advise pipe schedule at time of order placement.
 ** Customer to advise end flange design for sizes above 24" at time of order placement.
 *** If required Ball/Stem material is not listed use "ST" and specify desired materials in valve description.
 ^ Specify brand name in product description. Will be MFG standard if no brand is specified.

BALL VALVE METAL SEAT MATERIALS

ENP = ELECTROLESS NICKEL **TC** = TUNGSTEN CARBIDE
CRC = CHROME CARBIDE **NA** = NICKEL ALLOY

OPERATION

L = LEVER (LOCKABLE) **A** = ACTUATED
G = GEAR **LT** = T-HANDLE (LOCKABLE)
OH = OVAL HANDLE **SRH** = SPRING RETURN HANDLE
BS = BARE STEM

8M

17

CRC

G

L

SP

BALL/STEM MATERIAL***

- 1** = 304
- 2** = 316
- 3** = 317
- 4** = 410
- 5** = ALLOY 20
- 6** = C5
- 7** = C12
- 8** = HASTELLOY C
- 9** = INCONEL
- 10** = MONEL
- 11** = 316/17-4PH
- 12** = 316/HAST"C"
- 13** = 316/329
- 14** = MONEL/HAST"C"
- 15** = F53
- 16** = A105+ENP/F6
- 17** = 316/XM-19
- 18** = F55
- 19** = F51
- 20** = 17-4PH/17-4PH
- 21** = 410/17-4PH
- 22** = 316/INCONEL 718
- 23** = 316/630
- 24** = LF2+ENP/F6
- 25** = LF2+ENP/17-4PH
- 26** = LF2+ENP/4140+ENP
- ST** = SPECIAL TRIM COMBINATION

STEM SEAL

- G** = GRAPHITE
- P** = PTFE
- R** = R-PTFE
- V** = VITON
- B** = BUNA-N
- A** = AFLAS
- K** = KALREZ
- E** = EPDM
- H** = HNBR ^
- LP** = LIP SEAL
- VM** = VMQ

OPTIONAL

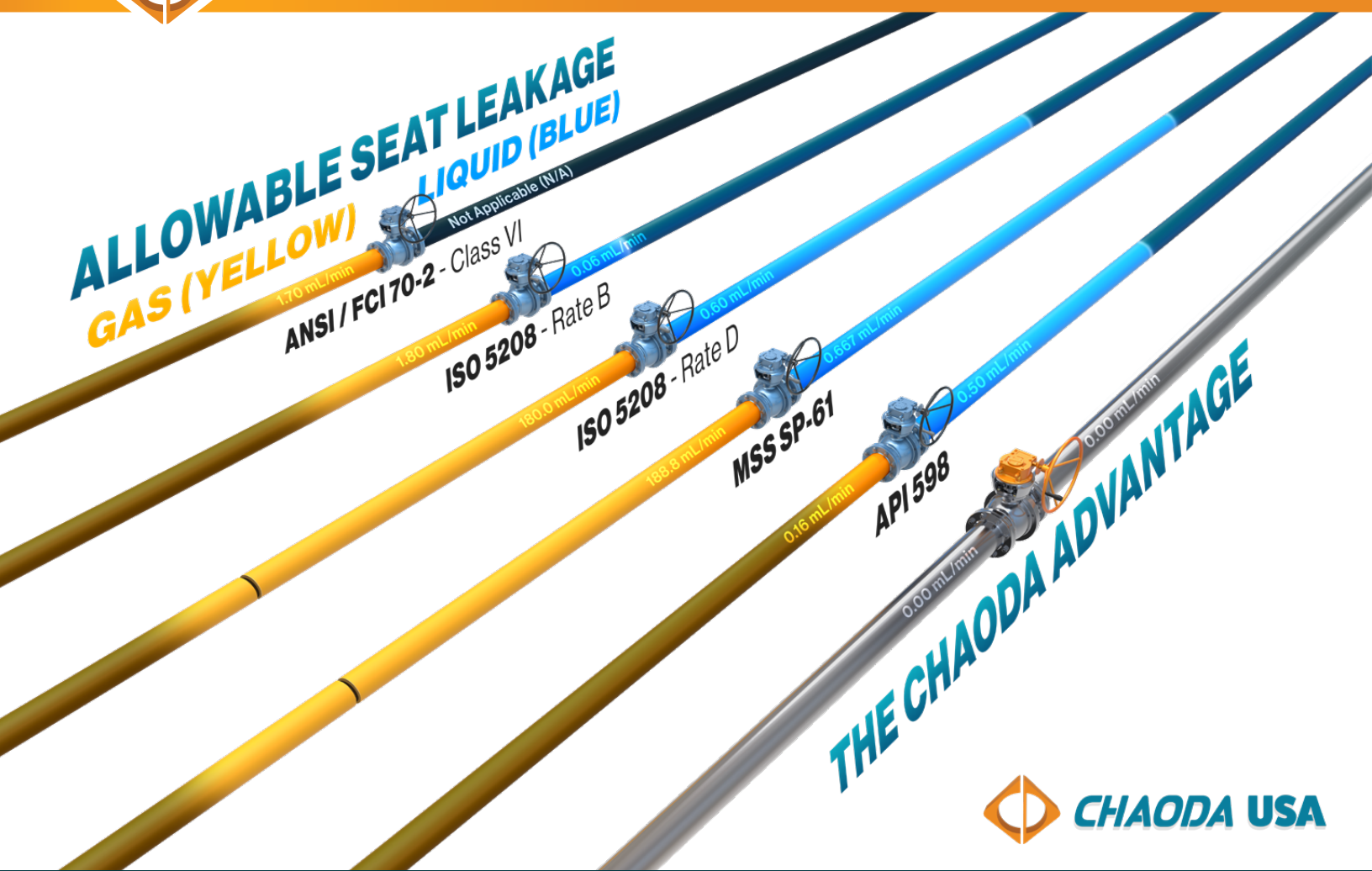
- ES** = EXT STEM (SPECIFY LENGTH)
- SP** = SPECIAL OPTION (PLEASE SPECIFY IN NOTES)
- X** = LIMIT SWITCH

EXAMPLE: Class 600 Floating Ball Valve 2 Piece Body Full Port Raised Face CF8M Body 316 + Chrome Carbide Seats XM-19 Stem Graphite Packing Lever Operated

6-BFM-2-FP-RF-CF8M-17-CR-G-L



ALLOWABLE SEAT LEAKAGE
GAS (YELLOW) **LIQUID (BLUE)**



THE CHAODA ADVANTAGE



INDUSTRY-LEADING METAL-SEATED PERFORMANCE

Generally metal-seated ball valves have an allowable leakage rate when being tested, which is defined by the relevant test standard – API 598, MSS SP61, ANSI/FCI 70-2 and ISO 5208 are some of the more prominent standards. Chaoda cut its teeth on designing metal-seated ball valves for especially severe applications, and found that by investing in the latest cutting-edge processing technologies, we could reliably ensure a higher standard of shutoff performance. As a result, Chaoda’s adopted a standard of ZERO visible seat leakage when tested per the requirements of API 598. This allows us to offer our customers industry-leading performance in reliable, repeat shutoff under difficult operating conditions.

OTHER LITERATURE

Interested in more products?

Chaoda offers a wide variety of valves, soft-seated ball valves included. Please ask our sales staff for any of the below brochures and catalogs if you are interested in learning more about any of our other products.



Chaoda manufactures a wide range of products, including a full line of API 6D Trunnion Ball Valves. Consistency in ownership has kept Chaoda on track and maintained a philosophy of ongoing investment in Research and Development, as well as manufacturing efficiencies all aimed at staying ahead of the competition. For more information, please see our API 6D Trunnion Ball Valve catalog.



For a safe, efficient and reliable pigging operation, Chaoda offers our uniquely designed pigging ball valve. We manufacture 3" through 20" class 150 through 1500. For more information, please reference our pig valve catalog.



Chaoda offers an instrument ball valve with various end connections and materials. Please see the instrument ball valve catalog for more information.



Chaoda offers a unique combination in the Soft Seated Ball Valve industry - field proven designs, the latest in processing technology, and high efficiency manufacturing - to create the highest quality Soft Seated Ball Valve at an extremely affordable price. For more information, please reference our soft seated ball valve catalog.



Chaoda offers a full line of API 594 dual plate check valves. For more information, please see our dual plate check valve catalog.



Chaoda is proud to be able to offer an industry-leading gate, globe and check valve product line. With modern designs, exotic alloy capabilities and the latest in fugitive emissions technology, we are able to manufacture a high quality gate, globe and check valve. For more information, please reference our GGC valve catalog.



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