CHAODA

Instrument Ball Valve

Material & Engineering Specifics

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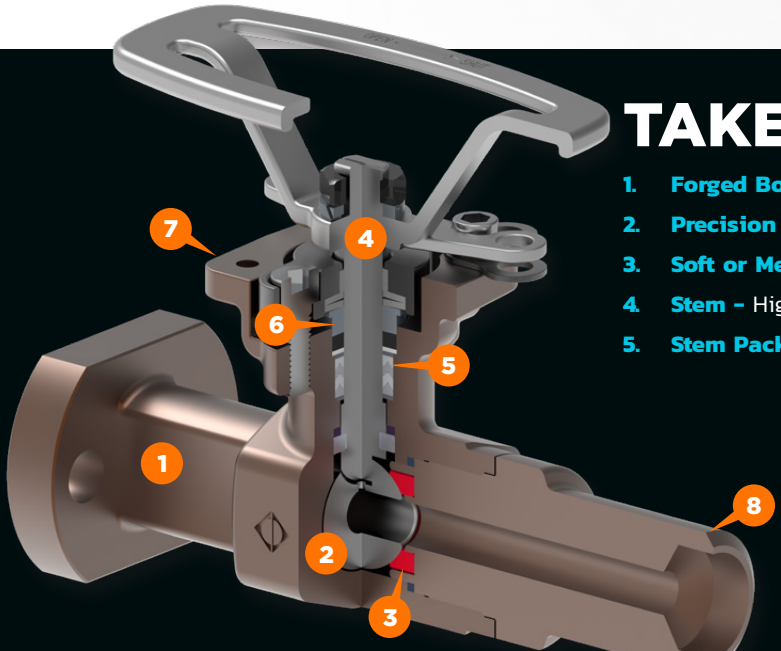
CHAODA INSTRUMENT BALL VALVE

The highest quality and lowest price.

The Chaoda Instrument Ball Valves are specifically engineered to create the highest quality valves at a competitive price. Let Chaoda be your IBV of choice, today and every day.

Design Features

- Various End Connections
- Blowout-Proof Stem
- Fugitive Emissions Bonnet
- High-Strength Forged Body
- API 607 Fire-Safe Design
- ISO Mounting Flange
- Soft and Metal Seated Options
- Oval Safety Handle
- Seal-Weld Body Construction
- Self-Relieving Seat Available
- Adjustable Live Loaded Packing
- Designed In Accordance With API 608
- FE Bonnet Emissions Qualified Per API 641

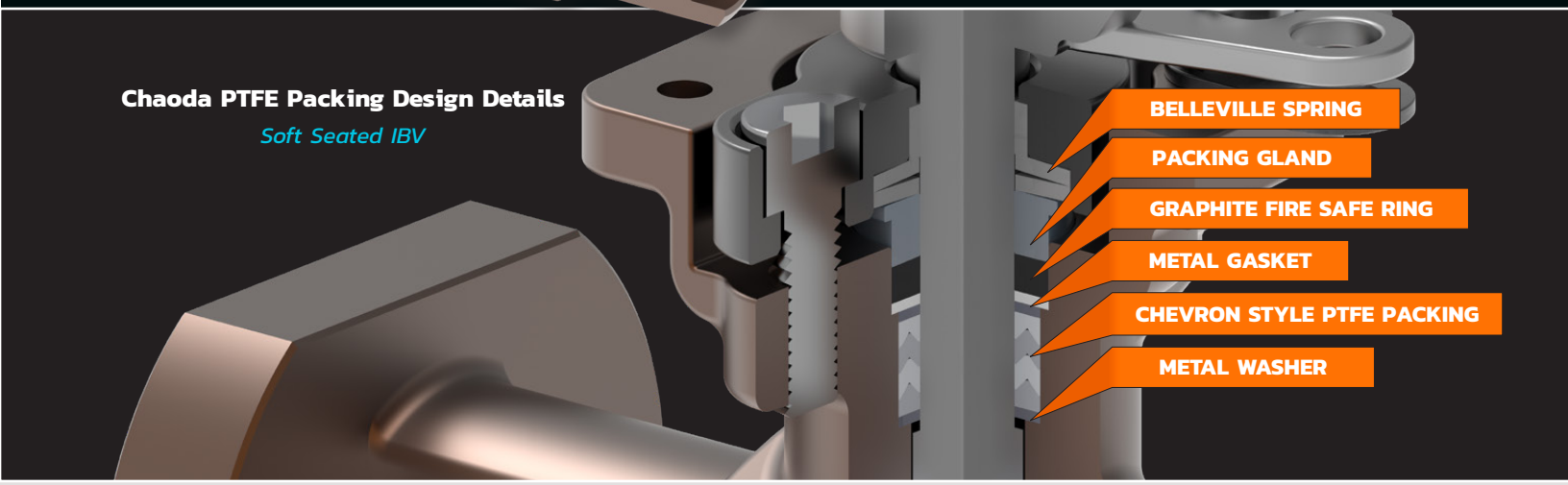


TAKE A LOOK INSIDE

1. **Forged Body –** Provides Structural Integrity
2. **Precision Machined Ball –** Maximized sealing surface for reliable isolation.
3. **Soft or Metal Seat –** For a perfect seal.
4. **Stem –** High strength for maximum safety.
5. **Stem Packing –** Provides emissions-free sealing per API 641.
6. **Packing Gland and Follower –** Provide adjustments for stem sealing ability.
7. **ISO Mounting Flange –** Standardized to fit most actuation mounting.
8. **End Connections –** I-Flange x BW are shown, other designs available.

Chaoda PTFE Packing Design Details

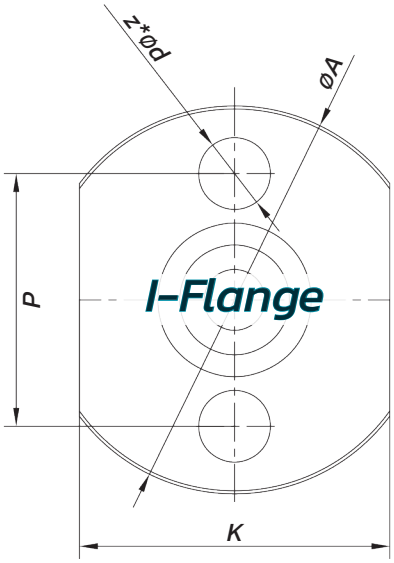
Soft Seated IBV

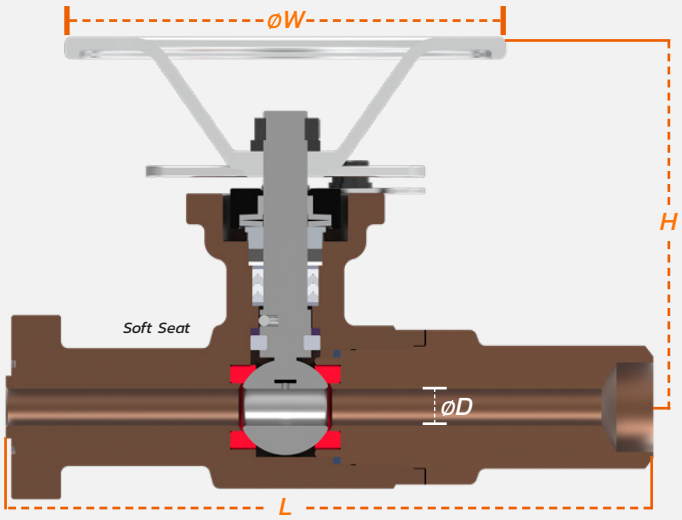


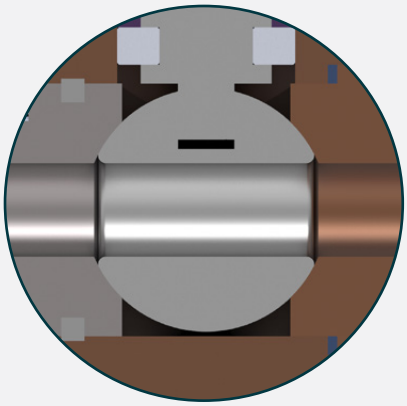
IBV MEASUREMENTS

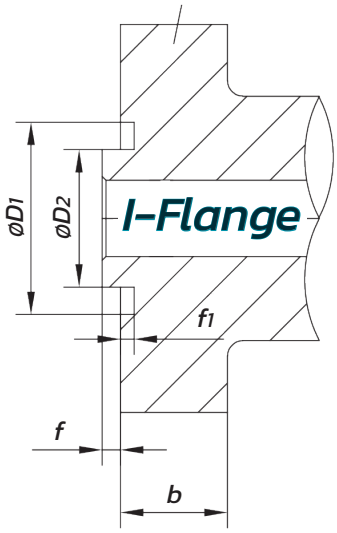
Chaoda offers an optional HVOF coated metal seated IBV for critical service conditions. A unique technique has been employed for the ball grinding, which makes the ball surface reach a perfect roundness. This makes the ball and seat seal exceed the standard requirements.

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



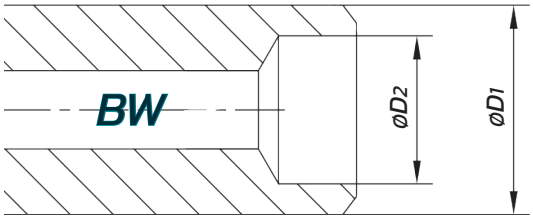






IBV OVERALL DIMENSIONS - MM(IN)

PRESSURE CLASS	END CONNECTIONS	L SOFT/METAL SEATED	D	H	W
CLASS 600 CLASS 900	3/4" MSW * 1/2" FNPT	142(5.6)/166(6.5)	10(0.4)	100(3.9)	120(4.7)
	3/4" BW * 1/2" FNPT	142(5.6)/166(6.5)			
	1" MSW * 3/4" I-FLANGE	201(7.9)/201(7.9)			
	1" BW * 3/4" I-FLANGE	201(7.9)/201(7.9)			
	3/4" I-FLANGE * 3/4" I-FLANGE	176(6.9)/176(6.9)			
	1" MSW * 3 x 1/2" FNPT	220(8.7)/220(8.7)			
	1" BW * 3 x 1/2" FNPT	220(8.7)/220(8.7)			
	3/4" BW * 3/4" I-FLANGE	176(6.9)/176(6.9)			
	1/2" FNPT * 1/2" FNPT	100(3.9)/-			



END CONNECTIONS DIMENSIONS - MM(IN)

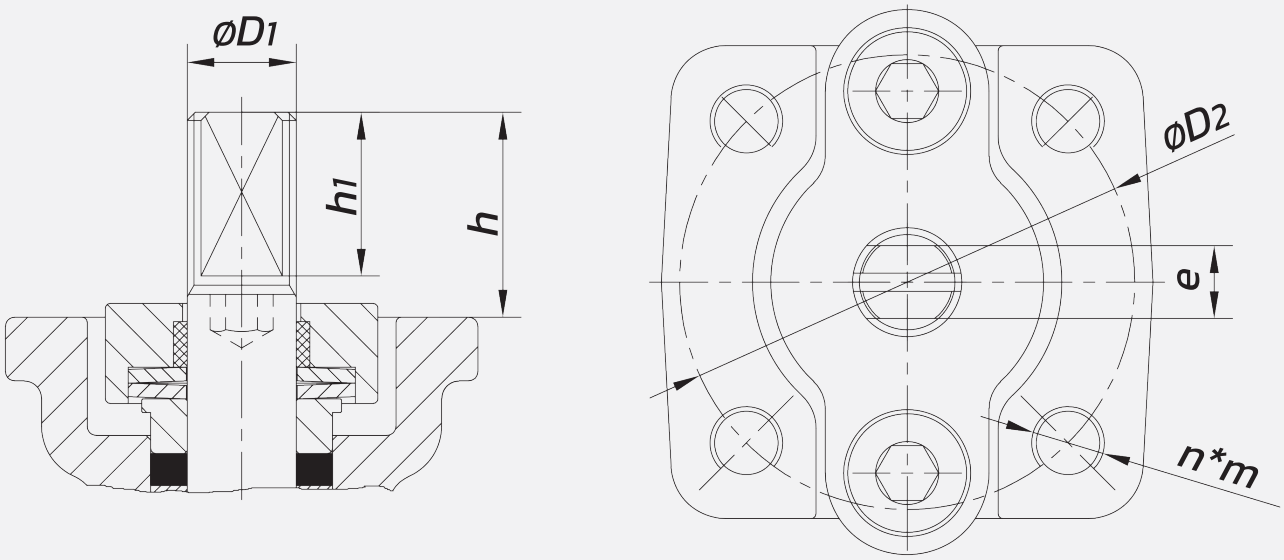
END	D1	D2	A	b	f	f1	z*d	K	P
3/4" MSW	26.7(1.05)	-	-	-	-	-	-	-	-
1" MSW	33.3(1.31)	-	-	-	-	-	-	-	-
3/4" BW (SCH 80)	26.7(1.050)	18.88(0.742)	-	-	-	-	-	-	-
1" BW (SCH 80)	33.4(1.315)	24.3(0.957)	-	-	-	-	-	-	-
3/4" I-FLANGE (IEC 61518 FORM A)	25.2(0.99)	18(0.71)	63.5(2.50)	14(0.55)	2.4(0.09)	1.8(0.07)	2*11.8(0.46)	50.8(2)	41.3(1.63)

IBV TORQUE		
CLASS	**SEAT**	**TORQUE** N.M(IN.LB)
900	RPTFE	14 (124)
900	PTFE	13 (115)
600	PTFE(Self-Relieving)	12 (106)
900	F316/F316L+CrC	15 (132)
900/1500	PEEK	15 (132)

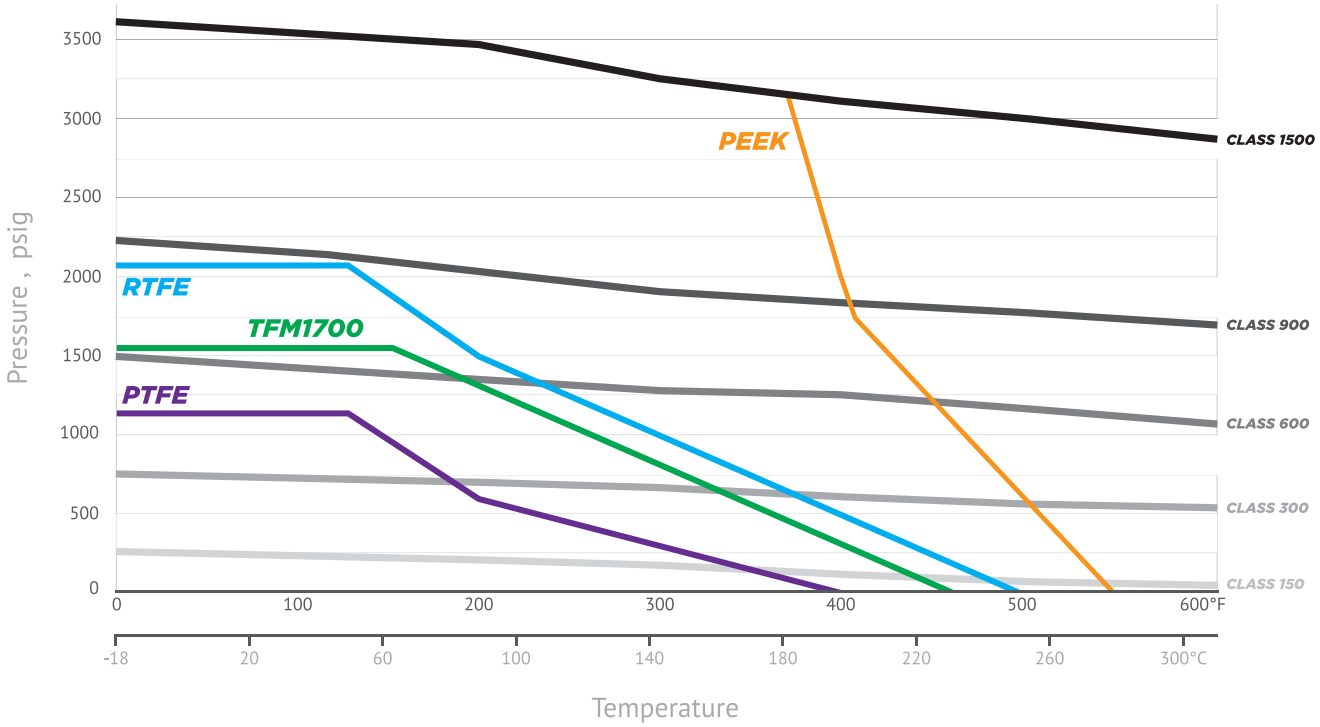
TOP MOUNTING FLANGE DIMENSIONS - MM(IN) ISO 5211 F05					
h	**h1**	**D1**	**D2**	**e**	**n*m**
22.5(0.89)	18(0.71)	M12X1.5	50(1.97)	8(0.31)	4*M6

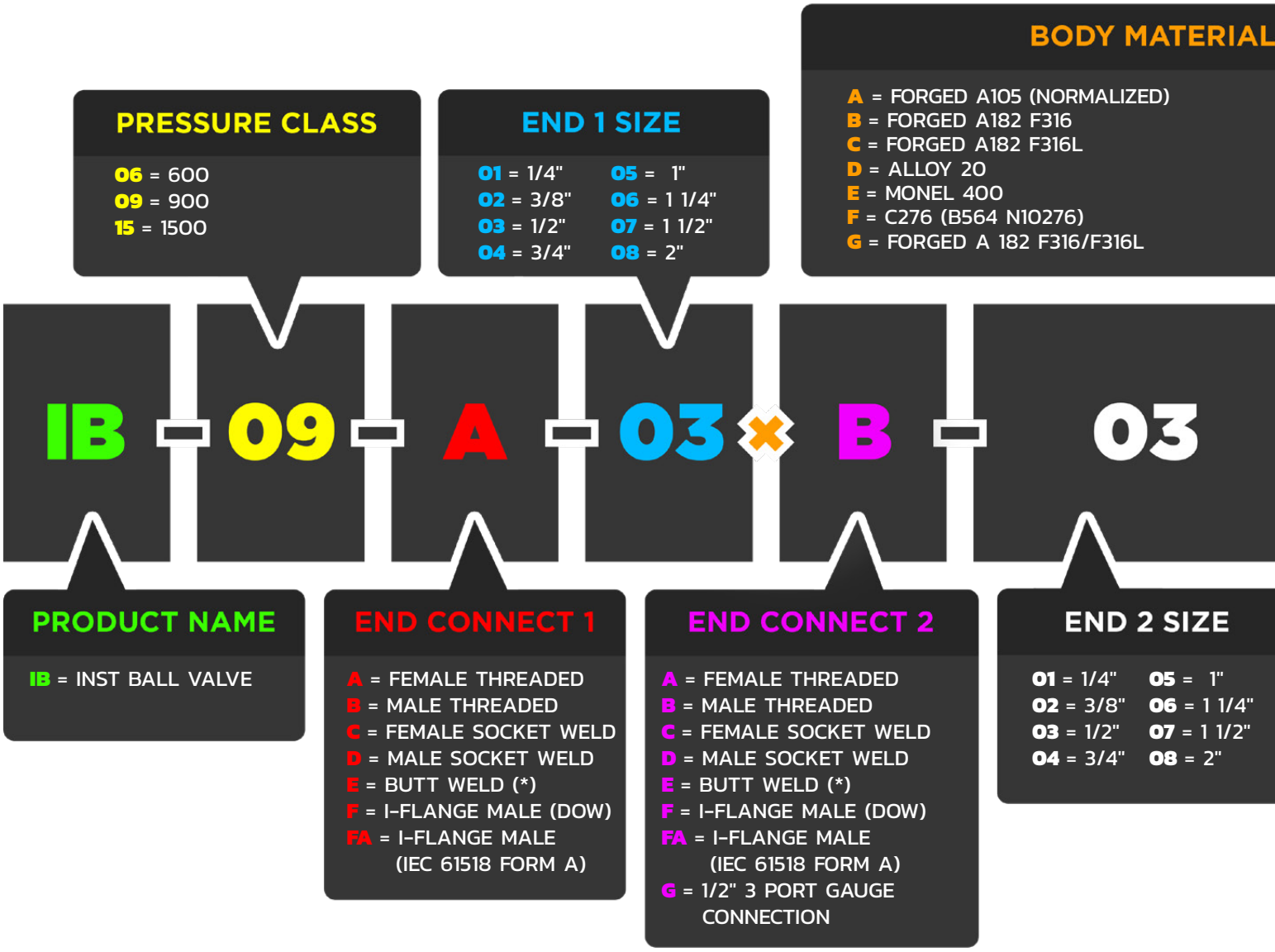
These measurements reference the diagrams below.

ISO 5211 F05 MOUNTING FLANGE



PRESSURE & TEMPERATURE RATINGS FOR INSTRUMENT BALL VALVE



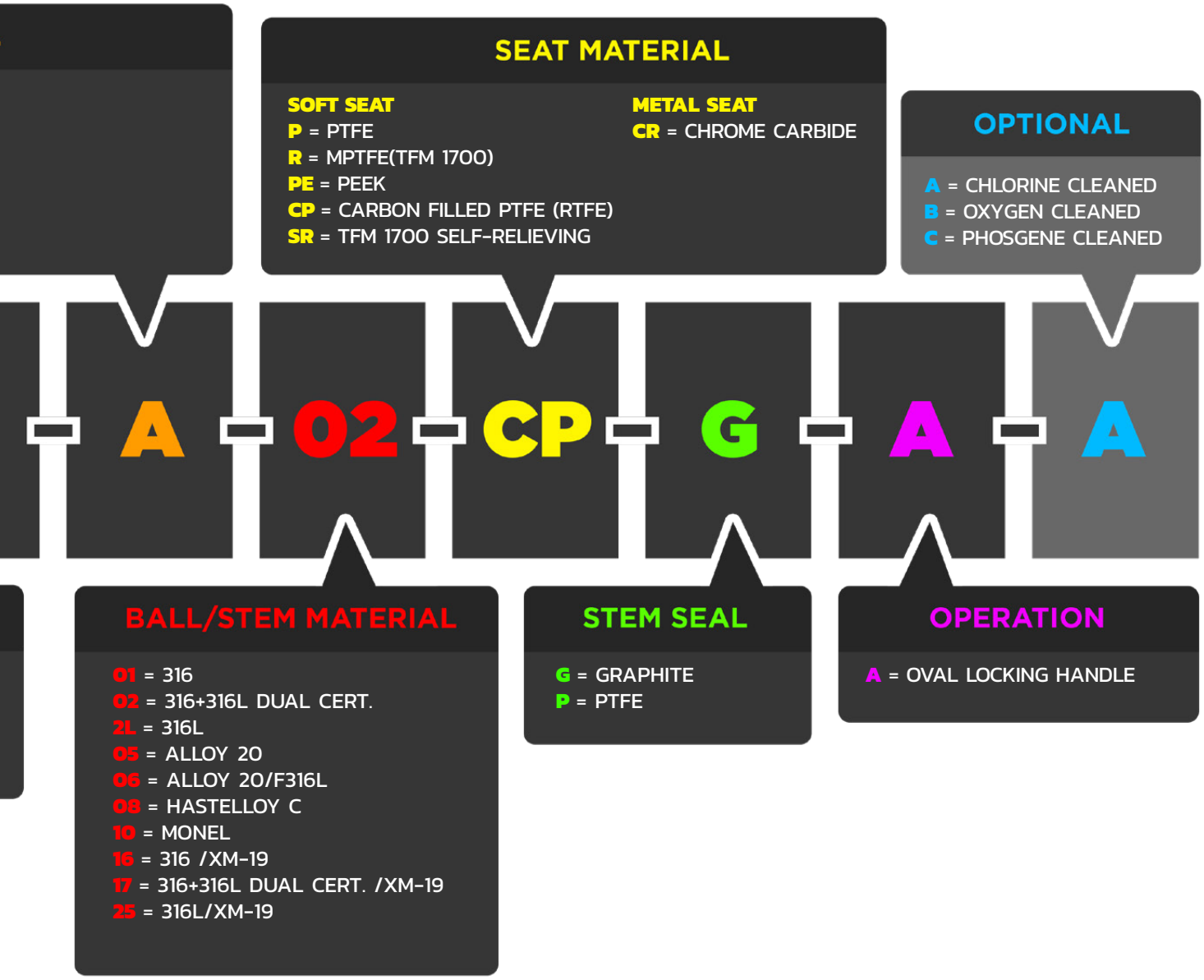


HOW TO ORDER
INSTRUMENT BALL VALVE

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.
** If required Ball/Stem material is not listed use "ST" and specify desired materials in valve description.

(CDUSA Ordering Rev. 2 Date 11/08/2019)



EXAMPLE: **Instrument Ball Valve Class 900, 1/2" Female Threaded X 1/2" Male Threaded, Body A105, Ball/Stem 316/F316L Dual Cert, CFP Seats, Graphite Packing, Oval Locking Handle.**

IB-09-A-03 x B-03-A-02-CP-G-A

EXAMPLE: **Instrument Ball Valve Class 900, 1/2' Female Threaded X 3/4" Male Socket Weld, Body A 182 F316, Ball/Stem 316/F316L Dual Cert. RPTFE Seats, Graphite Packing, Oval Locking Handle.**

IB-09-A-03 x D-04-B-02-R-G-A

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