

CONDENSED VALVE GUIDE

GATE · GLOBE · CHECK · BALL



WHY WARREN VALVE?

For over 30 years, Warren Valve has been focused on servicing the industrial and mechanical markets in North America. We manufacture a high-quality valve designed to meet oil and gas industry standards, satisfying the strict requirements of petroleum refineries, chemical plants, upstream, midstream, and gas transmission applications.

FULL TRANSPARENCY

No other manufacturer is as transparent as Warren when it comes to proving our industry-leading manufacturing and QA/QC process. We're part of the Allied Group – We do what we say, and we stand behind our products 100%.

WE ARE COMMITTED TO QUALITY

Warren Valve maintains the highest quality standards in the industry. Our QA Team performs extensive testing and material inspections throughout the entire manufacturing process to ensure that our customers get only the highest quality products. This commitment and attention to detail not only guarantees a superior product, but it puts Warren Valve in a league of its own.

STRICT QUALITY CONTROL

Our valves are subject to rigorous inspections throughout the manufacturing process. These comprehensive evaluations include on-site audits, inspection at the source, receiving inspections and destructive material testing. These processes are overseen by our Q19th Edition Management Team and our dedicated QA/QC Inspectors. Our strict quality control ensures that each valve is manufactured to endure the most demanding applications. In-House testing assures that valves meet our highest quality standards, and production is certified to ISO standards. Mill test reports are always available.

100% AMERICAN OWNED

When combined with a sales and service culture that is committed to exceeding customer expectations on every order, Warren Valve continues to evolve, innovate and drive excellence into our business. Our history, our ownership, and our leadership demand this from themselves and from every employee. This common purpose will power Warren Valve to become the most highly regarded Tier 1 valve manufacturer in the world.



THREE-PIECE FORGED TRUNNIONS



THREE-PIECE FORGED TRUNNION

Standard Import Series - Carbon Steel

Pressure Range: 150 to 2500 ANSI pressure class

Material Grades: A105N, A350-LF2, A350-LF6

Trim: 3MIL ENP, 316SS, & F51 Duplex

Seat Design: Self Relieving & Double Piston Effect

Seat Material: Devlon (PEEK & others available upon request)

Seal: HNBR 90 DURO, James Walker™ 101/985, FKM GLT, & AFLAS™

Ends: Raised Face, Ring Type Joint, Butt Weld, & Flanged X Butt Weld



THREE-PIECE FORGED TRUNNION

Standard Import Series - Stainless Steel

Pressure Range: 150 to 1500 ANSI pressure class

Material Grades: F316 SS

Trim: 316SS & F51 Duplex

Seat Design: Self Relieving & Double Piston Effect

Seat Material: Devlon (PEEK and others available upon request)

Seal: HNBR 90 DURO, James Walker™ 101/985, FKM GLT, & AFLAS™

Ends: Raised Face, Ring Type Joint, Butt Weld, & Flanged X Butt Weld



WARREN VALVE ENGINEERED PRODUCTS

Assembled in the USA from American & Imported Components

Pressure Range: 150 to 1500
ANSI pressure class

Material Grades: A105N, F316 SS,
A350-LF2 and LF6, & F51 Duplex

Trim: 3MIL ENP, 316SS, & F51 Duplex

Seat Design: Self Relieving &
Double Piston Effect

Seat Material: Devlon (PEEK
and others available upon request)

Seal: HNBR 90 DURO, James Walker™
101/985, FKM GLT, & AFLAS™

Ends: Raised Face, Ring Type Joint,
Butt Weld, & Flanged X Butt Weld



FIRE-SAFE FLOATING BALL

Size Range: 1/2" to 12"
Pressure Range: 150 to 600 ANSI pressure class
Material Grades: WCB, CF8M, Alloy 20, Hastelloy C, & others
Trim: Ball and/or Stem - 316 Stainless Steel & exotic alloys
Seat: RTFE or TFM 1600
Packing & Gasket: Graphite
Ends: Raised Face & Ring Type Joint



6D FLOATING BALL

Size Range: 2" to 8"
Pressure Range: 150 to 600 ANSI pressure class
Material Grades: WCB
Trim: Ball- 316 Stainless Steel & other exotic alloys
Standard Seat Material: TFM 1600
Packing & Gasket: Graphite
O-Ring Material: HNBR or FKM



CAST STEEL GATE, GLOBE, & CHECK

Size Range: 2" to 60"
Pressure Range: 150 to 1500 ANSI pressure class
Material Grades: WCB
Trim: 13Cr, SS 316, & other exotic materials
Packing & Gasket: Graphite
Ends: Raised Face & Ring Type Joint



CAST STAINLESS & ALLOY GATE, GLOBE, & CHECK

Size Range: 1/4" to 60"
Pressure Range: 150 to 1500 ANSI pressure class
Material Grades: CF8M, A20, Hastelloy C, & other exotic materials
Trim: SS 316, A20, Monel, & Hastelloy C
Packing & Gasket: Graphite & PTFE
Ends: Raised Face & Ring Type Joint



PIPELINE SWING CHECK

Size Range: 2" to 42"
Pressure Range: 150 to 2500 ANSI pressure rating
Material Grades: WCB
Trim Materials: 316SS
Seat & Seal: FKM GLT or HNBR
Gasket Material: Graphite
Ends: Raised Face & Ring Type Joint



FORGED STEEL GATE, GLOBE, & CHECK

Size Range: 1/4" to 2"
Pressure Range: 150 to 1500 ANSI pressure class
Material Grades: A105N, F316L, A20, & other exotic materials
Trim Materials: 13Cr, SS 316, A20, Monel, & Hastelloy C stem and wedge
Bonnet Design: Bolted and Welded bonnet offering
Packing & Gasket: Graphite
Ends: Raised Face, RTJ, Socket Weld, Threaded, & Threaded X Socket Weld



TWO-PIECE BALL VALVE

Size Range: 1/4" to 4"
Pressure Range: 1000 WOG to 2000 WOG
Material Grades: CF8M & WCB
Trim Materials: 316 Stainless Steel
Seat Insert Material: RTFE
End Configurations: Threaded



THREE PIECE BALL VALVE

Size Range: 1/4" to 4"
Pressure Range: 1000 WOG, 1500 WOG, 2000 WOG, & 3000 WOG
Material Grades: WCB, CF8M, LF2, A20, Hastelloy C, & other exotic materials
Trim: SS 316, A20, Monel, & Hastelloy C
End Configurations: Socket Weld, Threaded, & Threaded X Socket Weld



ONE-PIECE BALL VALVE

Size Range: 1/4" to 2"
Pressure Range: 800 WOG
Material Grades: CF8M
Trim Materials: 316 Stainless Steel
Seat Insert Material: RTFE
Ends: Threaded



SEAL WELDED BALL VALVE

Size Range: 1/4" to 3"
Pressure Range: 1000 WOG to 6000 WOG
Material Grades: WCB & CF8M
Trim: SS 316
Seat Insert Material: RTFE, Delrin, & PEEK
Ends: Socket Weld, Threaded, & Threaded X Socket Weld



CONTRACTOR SERIES BALL VALVE

Size Range: 1/2" to 4"
Pressure Range: 150 ANSI pressure class
Material Grades: CF8M
Trim: 316 Stainless Steel
Seat Insert Material: RTFE
Ends: Raised Face



NON FIRE-SAFE FLOATING BALL VALVE

Size Range: 1/2" to 6"
Pressure Range: 150 ANSI pressure class
Material Grades: CF8M
Trim: 316 Stainless Steel
Seat Insert Material: RTFE
Ends: Raised Face

WARREN VALVE ENGINEERED PRODUCTS

MODIFICATIONS

In addition to manufacturing, Warren Valve Engineered Products also offer full welding and modification capabilities.

In-house modifications include:

- Welded pup ends
- Stem extensions
- Lube lines
- Bypasses
- End conversions
- Coating systems
- Pinion shaft extension
- Specialized tagging
- Specialized gear operation

ENGINEERED PRODUCTS SERIES OVERVIEW

SIZE RANGE	6" - 48"
PRESSURES	ANSI 150# through ANSI 2500#
MATERIAL GRADES	A105N, F316 SS, A350-LF2, LF6, F51 Duplex
TRIM MATERIALS	3MIL, ENP, 316SS, F51 Duplex
SEAT MATERIAL	Devlon (PEEK available upon request)
SECONDARY SEAL MATERIALS	HNBR 90 DURO, James Walker™ 101/985, FKM, FKM GLT, AFLAS™
END CONFIGURATIONS	Raised Face, Butt Weld, Raised Face X Butt Weld, RTJ
STANDARD UPGRADES	Full stainless steel grease injection fittings per major industry AMLs and specifications
SEAT DESIGN FEATURES	Self Relieving X Self Relieving (Double Block and Bleed), Double Piston Effect (DIB-1) & Any combination of Self Relieving x Double Piston Effect (DIB-2)

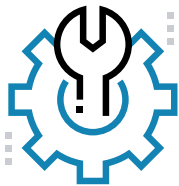


TECHNICAL SERVICES



24/7 FREE SUPPORT & FIELD SERVICES

Field service and technical support are major elements of successful product manufacturing. At Warren Valve, our commitment to providing comprehensive field services and technical support is part of who we are. Therefore, we offer these services at no additional cost to the end user. Warren Valve's technical support team provides 24/7 assistance on all field service issues. Our team treats every service call as an opportunity to improve our customer experience.



EXPERT ISSUE RESOLUTION

Warren Valve's technical support staff are valve experts who have the necessary regional and application-specific experience to provide reliable technical support to our clients. Safety is a top priority for Warren Valve technical support services, and we employ best-in-class practices that keep safety first. We consider issue resolution a top priority, and our aim is to resolve customer concerns in an expedited fashion.



NATIONWIDE SUPPORT

We are here for you when and where you need us. Members of our support team are strategically located throughout the nation to be closer to you!

WARREN VALVE FIGURE NUMBER ORDERING GUIDE

FLANGED GATE, GLOBE, & CHECK

VALVE TYPE	PRESSURE RATING		BODY MATERIAL		TRIM MATERIAL		SPECIAL
1 - Gate	15 - 150#	90 - 900#	5 - Carbon Steel WCB	3 - 347 SS, CF8C	8 - 13 CR / HF	12 - 316 / HF	N - NACE G - Gear
2 - Globe	30 - 300#	50 - 1500#	4 - 304 SS, CF8	7 - 317 SS, CG8M	5 - HF / HF	16 - 316 HF / HF	
3 - Swing Check	60 - 600#	25 - 2500#	6 - 316 SS, CF8M	2 - Alloy 20, CN7M	10 - 316 / 316		

**Additional Materials Available*

THREADED & SOCKET WELD GATE, GLOBE, & CHECK

PRESSURE	MATERIAL	VALVE TYPE	TRIM	ENDS
8 - 800# 15 - 1500#	0 - 316L 5 - A105	1 - Gate 2 - Globe 3 - Swing Check 4 - Piston Check 5 - Ball Check	8 - 13CR/HF to Nace 5 - HF/HF to Nace 12 - 316/HF to Nace 16 - 316HF/HF to Nace	T - THD x THD S - SW x SW TS - THD x SW

ONE, TWO, & THREE PIECE BALL VALVES

DESIGN TYPE	FIGURE NUMBER
One Piece	1010, 1010C
Two Piece	1020, 1022, 1022C, 1050, 1052, 1024C, 1025C
Three Piece	1030, 1030C, 1035C

SEAL WELDED BALL VALVES

VALVE TYPE	
Body Material 316SS	Body Material WCB
W10 - 1000 WOG	W35 - 3600 WOG
W20 - 2000 WOG	W65 - 6000 WOG
W21 - 2160 WOG	
W36 - 3600 WOG	
W60 - 6000 WOG	

THREE PIECE FIRE-SAFE BALL VALVES

DESIGN TYPE	BODY MATERIAL		BALL & STEM MATERIAL		PORT TYPE	SEATS
3 - Three Piece Cast	5 - Carbon Steel WCB	9 - C-276 (CW12MW)	6 - 316 SS, CF8M	9 - C-276 (CW12MW)	Full	T - PTFE
F3 - Three Piece Forged	6 - 316 SS, CF8M	7 - LF2	2 - Alloy 20, CN7M	<i>*Additional Materials Available</i>		R - RTFE
	2 - Alloy 20, CN7M	<i>*Additional Material Available</i>				P - PEEK

FLANGED FLOATING BALL VALVES

PORT TYPE	ANSI CLASS	BODY MATERIAL			SPECIALS
5 - Reduced 6 - Full	15 - 150# 30 - 300# 60 - 600#	2 - CN7M 4 - CF8	5 - WCB 6 - CF8M	7 - LCC <i>*Additional Materials Available</i>	FS - Fire-Safe

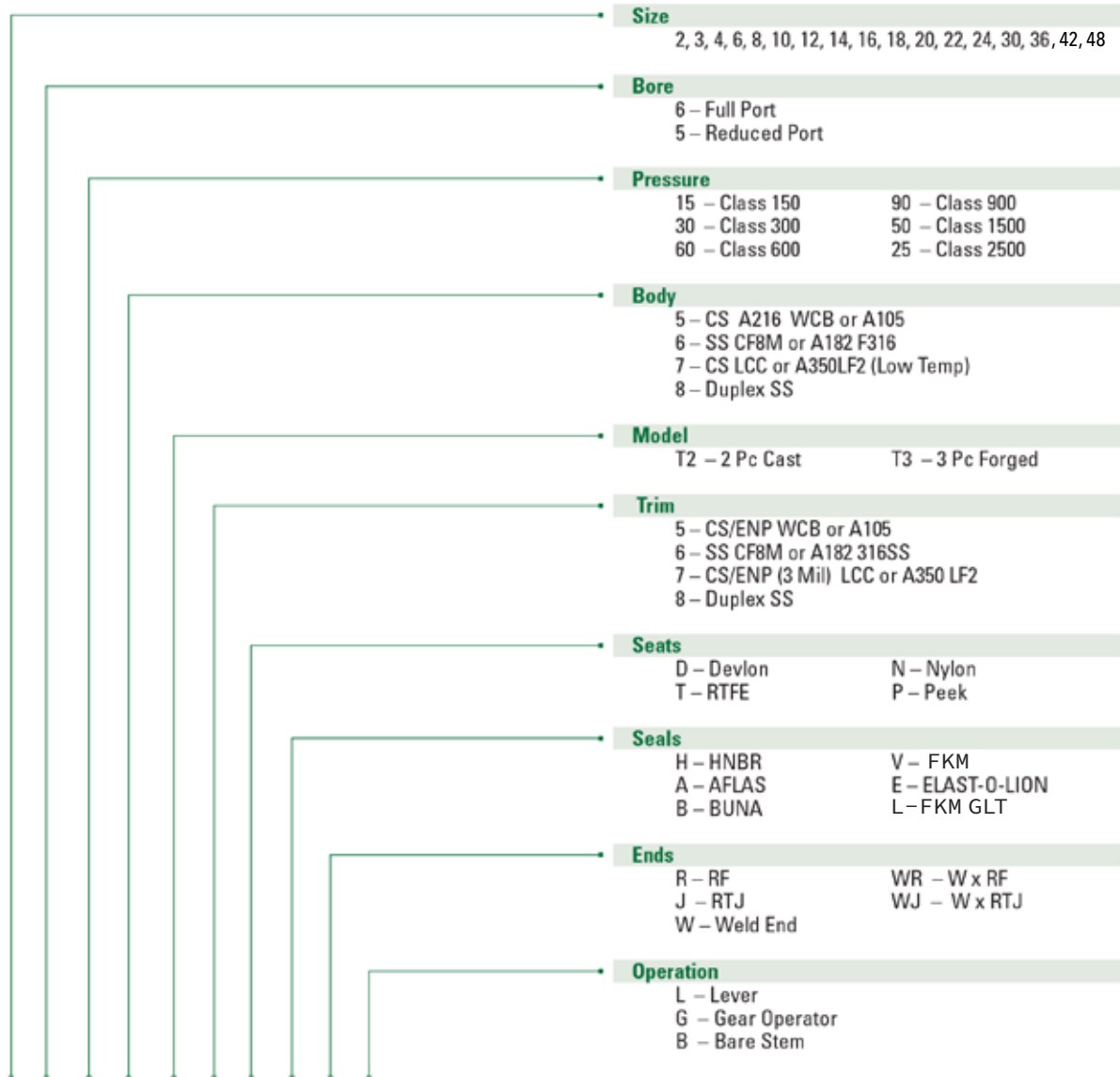
API 6D FLOATING BALL VALVES

PORT TYPE	PRESSURE CODE	BODY MATERIAL		BODY STYLE	TRIM MATERIAL	SEATS	SEAL
5 - Reduced 6 - Full	15 - 150# 30 - 300# 60 - 600#	5 - WCB/A105N 6 - CF8M	7 - LCC	2 - 2 Piece Design 1 - 1 Piece Design	6 - F316 8 - Duplex SS	M - TFM 1600 R - RTFE T - PTFE P - PEEK	O - None H - 90 Duro HNBR V - FKM W - FKM L - GLT Viton

API 6D CHECK VALVES

VALVE TYPE	ANSI CLASS	BODY MATERIAL	TRIM MATERIAL	SEAT TYPE	SEAT INSERT	SEAL	ENDS
3 - Swing Check	15 - 150# 30 - 300# 60 - 600# 90 - 900# 50 - 1500# 25 - 2500#	5 - CS 6 - SS 7 - CS LCC	5 - CS 6 - SS 7 - CS LCC	I - Integral R - Replaceable	H - 90 Duro HNBR V - FKM L - FKM GLT A - AFLAS E - Elast O_Lion	H - 90 Duro HNBR V - FKM L - FKM GLT A - AFLAS	R - Raised Face J - RTJ W - Weld END

WARREN VALVE TRUNNION ORDERING GUIDE



- Size**
2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 30, 36, 42, 48
- Bore**
6 – Full Port
5 – Reduced Port
- Pressure**
15 – Class 150 90 – Class 900
30 – Class 300 50 – Class 1500
60 – Class 600 25 – Class 2500
- Body**
5 – CS A216 WCB or A105
6 – SS CF8M or A182 F316
7 – CS LCC or A350LF2 (Low Temp)
8 – Duplex SS
- Model**
T2 – 2 Pc Cast T3 – 3 Pc Forged
- Trim**
5 – CS/ENP WCB or A105
6 – SS CF8M or A182 316SS
7 – CS/ENP (3 Mil) LCC or A350 LF2
8 – Duplex SS
- Seats**
D – Devlon N – Nylon
T – RTFE P – Peek
- Seals**
H – HNBR V – FKM
A – AFLAS E – ELAST-O-LION
B – BUNA L – FKM GLT
- Ends**
R – RF WR – W x RF
J – RTJ WJ – W x RTJ
W – Weld End
- Operation**
L – Lever
G – Gear Operator
B – Bare Stem

8 6 60 5 T3 5 D H R G

Example

NOTE: All Warren Trunnion Mounted Ball Valves meet NACE MR 0175/ISO 15156 Latest Edition and Fire Safe as a standard.

CONTACT US

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