

International Standard Valve, Inc.

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QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001:2008

Ball Valve Product Summary



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International Standard Valve, Inc. was formed in Houston, Texas to produce the **ISV** brand of industrial valves specifically suitable for oil, gas, petrochemical, mining, power generation and general industrial applications.

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ISV's core competences reside in two key areas of valve manufacturing:

- **Fully code compliant products:** **ISV** offers a variety of valve products designed to be in full compliance with API and ASME piping codes and standards, providing users of **ISV** valves a wide range of choice in meeting DOT and ASME B31 piping code requirements. **ISV** valves for industrial applications are also available.
- **Multi-layered quality assurance:** **ISV's** quality assurance program includes unique levels of in-house pressure testing of our internationally produced valves at the **ISV** Houston facility. **ISV** also maintains material certification data base at the component level for extended product reliability.

The **ISV** product line include valve sizes ranging from 1/4' to 56" with pressures through class 2500 & 6,000 psi working pressures. **ISV** ball valves are produced internationally in the facilities of our well established manufacturing partners located in Taiwan, Czech Republic, Italy and China. Production at **ISV's** Houston facility is planned to commence in the summer of 2011.

MSA a.s. of the Czech Republic is one of Europe's largest producers of industrial valves with production up to 56" in size.

ISV utilizes advanced techniques in operational activities to efficiently achieve continual improvements in product reliability and service quality. Systems include bar coded serialization, material certification, inspection records and material handling. ERP implementation to link all processes is underway and planned for completion in early spring 2011.













ISV Design and Production Standards



- All manufacturing is conducted under ISO 9001 certified Quality Management Systems.
 - Product design and design review is documented under **ISV Design Control File System**.
 - Products are stringently manufactured in accordance with applicable industry standards and to specific **ISV Product Design Specifications**.
 - Product quality assurance includes data monitoring of key production processes for continuous quality improvement.
 - Designs are compliant with ASME B16.34, API 608, API 6D, API 6A and MSS-SP110.
 - Pressure Testing to API 6D, API 598, MSS SP-110 as applicable.
 - Fire test certifications to API 607.
 - All pressure containing components of NACE certified valves meet the predefined material requirements of NACE MR-0175/ISO 15156 or NACE MR-0103.
- Material Test Reports per EN 10204-1991 3.1.B & EN 10204 3.1 are available for each valve.












Valve Type	Pipeline, Oil & Gas Service - Trunnion Mounted Ball Valves		
			
ISV Series	ISV by MSA	BT3EF & BT3ER	BT3BF & BT3BR
Design Standards	API 6D	API 6D / API 608	API 6D / API 608
Standard Design Features	3 Piece, bolted or welded body	3 Piece, bolted body	2 Piece, bolted body
Sizes	2" - 56"	2" - 12"	2" - 12"
Pressure Range	Class 150 – 1500	Class 150 – 900	Class 150 – 1500
Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port
Body Materials	Forged Carbon Steel, Low Temp C.S. or Stainless Steel	Forged Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel
Trim Materials	C.S +ENP, SS or Metal-to-Metal	C.S +ENP, Stainless Steel	C.S +ENP, Stainless Steel
Seat/Seal Materials	Viton or HNBR / Viton or HNBR	Nylon, Devlon or TFM / HNBR	RPTFE, Devlon or TFM / HNBR
End Configurations	Flanged, Weld ends	Flanged, Weld ends	Flanged ends
Locking Device	standard	standard	standard
Actuator Pad	ISO - standard	ISO - standard	ISO - standard
Optional Features	High Head extensions, external coatings, actuator	High Head extensions, external coatings, actuator	External coatings, actuator
Pressure Test	API 6D	API 6D	API 6D
Conformance Standards	API 607/6FA fire safe, ASME B16.5, B16.10, B16.25, B16.34, NACE compliant	API 607/6FA fire safe, ASME B16.5, B16.10, B16.25, B16.34, NACE compliant	API 607/6FA fire safe, ASME B16.5, B16.10, B16.34, NACE compliant

Valve Type	Oil & Gas Service - Floating Ball Valves			
				
ISV Series	BF3BF	IA & IAH	IC & ICH	I-136 & I-138
Design Standards	API 6D / API 608	oilfield design	oilfield design	ASME B16.34
Standard Design Features	2 Piece bolted body, O-Ring stem seal	2 Piece Threaded body, O-Ring stem seal design	2 Piece Threaded body, O-Ring stem seal design	3 Piece Threaded body design
Sizes	2" - 12"	1" - 4"	1" - 4"	1/2" - 2"
Pressure Range	Class 150 – 600	750 –2000 WOG	750 –3000 WOG	2000, 3000, 6000 WOG
Port	Full Port	Full Port & Reduced Port	Full Port & Reduced Port	Full Port & Reduced Port
Body Materials	WCB, LCC or CF8M	Ductile Iron	WCB or LCC	A105N, LF2 or F316SS
Trim Materials	316SS standard	316SS standard	316SS standard	316SS standard
Seat/Seal Materials	PTFE, TFM / HNBR	Nylon / Viton or HNBR	Nylon / Viton or HNBR	Delrin or PEEK / Graphite
End Configurations	Flanged ends	Female NPT	Female NPT	Female Threaded or Female socket weld
Locking Device	standard	standard	standard	standard
Actuator Pad	ISO - standard	optional	optional	optional
Optional Features	External coatings, actuators	PEEK seats	PEEK seats	Oval Handle
Pressure Test	API 6D	API 598	API 598	API 598
Conformance Standards	API 607 fire safe, ASME B16.5, B16.10, B16.34, NACE compliant	NACE compliant	NACE compliant	API 607 fire safe, ASME B16.11, B16.34, NACE compliant

Valve Type	ASME Code Compliant - Floating Ball Valves			
				
ISV Series	BF1BF	BF1AR	BF0EF-FE	BF7EF
Design Standards	API 608 / ASME B16.34	API 608 / ASME B16.34	ASME B16.34	API 608 / ASME B16.34
Standard Design Features	2 Piece bolted body, Adjustable stem packing design	Uni-body construction, Adjustable stem packing Design	3 Piece bolted body, Adjustable stem packing design, In-Line Repairable	3 Piece bolted body, Cryogenic design, In-Line Repairable
Sizes	1/2" - 10"	1" - 8"	1/2" - 4"	1/2" - 2"
Pressure Range	Class 150 - 300	Class 150	Class 150	1500 WOG
Port	Full Port	Reduced Port	Full Port	Full Port
Body Materials	WCB, LCC, CF8M, CN7M, Hastelloy, Duplex	WCB, LCC, CF8M, CN7M, Hastelloy, Duplex	WCB, CF8M, CN7M, Hastelloy or Monel	CF8M
Trim Materials	316SS standard, CN7M, Hastelloy, Duplex or Monel	316SS standard, CN7M, Hastelloy, Duplex or Monel	316SS standard, CN7M, Hastelloy or Monel	316SS standard
Seat/Seal Materials	TFM / PTFE or Graphite	TFM / PTFE or Graphite	TFM / PTFE or Graphite	TFM, Kel-F / Graphite, PTFE
End Configurations	Flanged ends	Flanged ends	Flanged ends	Female NPT, Female socket weld or Butt-weld
Locking Device	standard	standard	standard	standard
Actuator Pad	ISO - standard	ISO - standard	ISO - standard	ISO - standard
Optional Features	External coatings, actuators	External coatings, actuators	Actuator, Oval Handle, body cavity filled	Actuator or Oval Handle
Pressure Test	API 598	API 598	API 598	API 598
Conformance Standards	API 607 fire safe, ASME B16.5, B16.10, B16.34, NACE compliant	API 607 fire safe, ASME B16.5, B16.10, B16.34, NACE compliant	ASME B16.5, B16.10, B16.34, NACE compliant	API 607 fire safe, ASME B16.11, B16.25, B16.34, NACE compliant

Valve Type	ASME Code Compliant - Floating Ball Valves – continued			Industrial Service - Floating Ball Valves
				
ISV Series	BF2ER	BF2EF	BF2DR	BF0AR
Design Standards	API 608 / ASME B16.34	API 608 / ASME B16.34	API 608 / ASME B16.34	MSS SP-110
Standard Design Features	3 Piece bolted body, Adjustable stem packing design	3 Piece bolted body, Adjustable stem packing design, In-Line Repairable	2 Piece Seal Welded body, Adjustable stem packing design	Uni-body construction, Adjustable stem packing design
Sizes	1/2" - 2"	1/2" - 2"	1/2" - 2"	1/2" - 2"
Pressure Range	3600 WOG	1500/2000 WOG	2160-2200 WOG	2000 WOG
Port	Reduced Port	Full Port	Reduced Port	Reduced Port
Body Materials	A105N or F316	WCB, CF8M or CN7M	WCB or CF8M	WCB or CF8M
Trim Materials	17-4PH standard	316SS standard	316SS standard	316SS standard
Seat/Seal Materials	PEEK / Viton	TFM / Graphite	TFM / Graphite	TFM / Graphite
End Configurations	Female NPT, Female socket weld, butt-weld or nipple end	Female NPT, Female socket weld or Butt-weld	Female NPT	Female NPT
Locking Device	standard	standard	standard	standard
Actuator Pad	ISO—standard	ISO - standard	standard	NA
Optional Features	Actuator or Oval Handle	Actuator or Oval Handle	Actuator or Oval Handle	Oval Handle
Pressure Test	API 598	API 598	API 598	MSS SP-110
Conformance Standards	API 607 fire safe, ASME B16.11, B16.25, B16.34, NACE compliant	API 607 fire safe, ASME B16.11, B16.25, B16.34, NACE compliant	API 607 fire safe, ASME B16.34, NACE compliant	API 607 fire safe, NACE compliant

Valve Type	Industrial Service - Floating Ball Valves			
				
ISV Series	BFOCF	BFOEF	BFOEF-CF	BFOCF-UL
Design Standards	MSS SP-110	MSS SP-110	MSS SP-110	MSS SP-110
Standard Design Features	2 Piece Threaded body, Adjustable stem packing design	3 Piece bolted body, Adjustable stem packing design, In-Line Repairable	3 Piece bolted body, Cavity Filled Body, Adjustable stem packing design, In-Line Repairable	2 Piece Threaded body, U.L. Listed, Adjustable stem packing design
Sizes	1/4" - 4"	1/4" - 4"	1/4" - 4"	1/4" - 4"
Pressure Range	1000 WOG	1000 WOG	1000 WOG	1000 WOG
Port	Full Port	Full Port	Full Port	Full Port
Body Materials	WCB or CF8M	WCB, CF8M, CN7M, Hastelloy or Monel	WCB or CF8M	WCB or CF8M
Trim Materials	316SS standard	316SS standard, CN7M, Hastelloy or Monel	316SS standard, Filled Cavity	316SS standard
Seat/Seal Materials	R-PTFE / R-PTFE	R-PTFE / R-PTFE	TFE cavity filler / Graphite	R-PTFE / R-PTFE
End Configurations	Female NPT	Female Threaded or Female socket weld or Butt-weld	Female NPT, Female socket weld or Butt-weld	Female NPT
Locking Device	standard	standard	standard	standard
Actuator Pad	ISO - standard	ISO - standard	ISO - standard	NA
Optional Features	Actuator or Oval Handle	Actuator or Oval Handle	Actuator or Oval Handle	Oval Handle
Pressure Test	MSS SP-110	MSS SP-110	MSS SP-110	MSS SP-110
Conformance Standards	MSS SP-110	API 607 fire safe, MSS SP-110, ASME B16.11, B16.25	API 607 fire safe, ASME B16.11, B16.25, NACE compliant	MSS SP-110

Valve Type	Severe Service – Floating Ball Valves	Severe Service –Trunnion Ball Valves	High Pressure Service – Compact Ball Valves
			
ISV Series	BF4	BT4, BT5, BT6, BT7	BF8
Design Standards	ASME B16.34	API 6D / API 608	API 6A
Standard Design Features	One Piece or Bolted body	3 Piece, bolted body	3 Piece, bolted body,
Sizes	1/2" - 4"	2" - 24"	1" - 4"
Pressure Range	1500 – 4500 WOG	Class 150 – 2500	6,200 - 15,000 psi
Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port
Body Materials	Forged Carbon Steel or Forged Alloy Steel	Forged Carbon Steel, Low Temp C.S., Stainless Steel, Alloy or Alloy overlay	Cast Carbon Steel or Alloy Steels
Trim Materials	HVOF coated carbon or Alloy steels or ceramic	C.S +ENP, SS, Duplex, Tungsten Carbide or Inconel	C.S +ENP, SS or Duplex
Seat/Seal Materials	Metal / Graphite	Metal or PEEK, Nylon or TFM / HNBR or Lip Seals	PEEK or copolymer /HNBR, Viton, Buna, or other
End Configurations	SWE, BWE or THD	Flanged, Weld ends or Hub ends	WE, Swivel ends or Flanged ends
Optional Features	High Head extensions, external coatings, actuator	High Head extensions, external coatings, actuator	External coatings, actuator
Pressure Test	API 598	API 6D or API 598	API 6A
Conformance Standards	ASME B16.5, B16.10, B16.11, B16.25, B16.34	API 607/6FA fire safe, ASME B16.5, B16.10, B16.25, B16.34, NACE compliant	API 6A, 607/6FA fire safe, ASME B16.5, B16.10, B16.34, NACE compliant

