

Three-Piece Ball Valve – Standard Port CO2 Ball Valve

Sizes 1/4" to 3"

Ball Valves feature a high performance design for use in critical, process-quality applications. These valves exceed the pressure and temperature ratings of traditional, general purpose ball valves. They are drilled and vented for CO2 liquid service.

Design Features

- High performance design for process-quality applications
- Encapsulated body seals to facilitate welding without disassembly
- Live-loaded stem packing ensures seal-tight pressure containment even under thermal cycling
- Three-piece "swing out" design offers easy access for in-line maintenance
- ISO 5211 mounting pad for easy actuation
- Standard seat material is TFM1600™
- Blowout proof stem adds safety & reliability
- Stainless steel valves have 316L ends

Materials of Construction

DESCRIPTION	MATERIALS SPECIFICATIONS (Additional options available)
Body	316 Stainless Steel (ASTM A351 CF8M) Carbon Steel (ASTM A216 WCB)
End Connector	316L Stainless Steel (ASTM A351 CF3M) Carbon Steel (ASTM A216 WCB)
Ball	316 Stainless Steel (ASTM A351 CF8M)
Stem	316 Stainless Steel (ASTM A276)
Seat	TFM1600™
Body Seal	PTFE
Stem Seal	SupraLon™
Retainer	316 Stainless Steel
Sizes 2 1/2" & 3"	

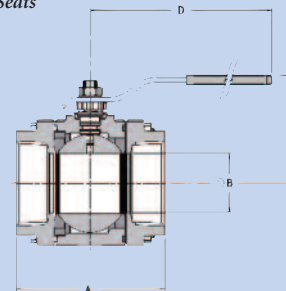


Specification Standards of Compliance

Standard Port Ball Valves are available in designs that meet the following Industry Standards:

- ANSI
- ASME
- API
- DIN
- ISO
- MSS
- BPE
- NACE
- ASTM

* 1/4" and 3/8" are Full Port
 ** At full differential pressure for clean fluids with TFM1600™ Seats



R8 Ball Valve – Dimensions, Weight, CV and Torque

Part Number – Stainless Steel	Part Number – Carbon Steel	Size	A		B		D		L		Weight		Cv	Torque**	
			in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg		in-lbf	Nm
R800-14NPT-SSAT-VR	R800-14NPT-CSAT-VR	1/4"*	2.60	66	0.44	11	5	127	1.8	46	2	0.9	3	45	5
R800-38NPT-SSAT-VR	R800-38NPT-CSAT-VR	3/8"*	2.60	66	0.44	11	5	127	1.8	46	2	0.9	5	45	5
R800-12NPT-SSAT-VR	R800-12NPT-CSAT-VR	1/2"	2.60	66	0.44	11	5	127	1.8	46	2	0.9	8	45	5
R800-34NPT-SSAT-VR	R800-34NPT-CSAT-VR	3/4"	2.81	71	0.56	14	5	127	1.9	48	2	0.9	12	45	5
R800-1NPT-SSAT-VR	R800-1NPT-CSAT-VR	1"	3.70	94	0.81	21	6	152	2.4	61	4	1.8	32	100	11
R800-114NPT-SSAT-VR	R800-114NPT-CSAT-VR	1-1/4"	4.25	108	1.00	25	6	152	2.6	66	5	2.3	57	130	15
R800-112NPT-SSAT-VR	R800-112NPT-CSAT-VR	1-1/2"	4.57	116	1.25	32	7	178	3.2	81	7	3.2	80	280	32
R800-2NPT-SSAT-VR	R800-2NPT-CSAT-VR	2"	5.04	128	1.50	38	7	178	3.3	84	11	5.0	104	360	41
R800-212NPT-SSAT-VR	R800-212NPT-CSAT-VR	2-1/2"	5.95	151	2.00	51	11	279	3.4	86	17	7.7	240	560	63
R800-3NPT-SSAT-VR	R800-3NPT-CSAT-VR	3"	6.68	170	2.50	64	14	356	7.3	185	30	13.6	320	1000	113

Other end connections available.

For Socket Weld replace "NPT" in the part number with "SW". For Butt Weld replace "NPT" in the part number with "SW".

For Oxygen Cleaning add "-OX" to the end of the part number

Three-Piece Fire Safe Ball Valve – Standard Port CO2 Ball Valve

Sizes 3" & 4"

Standard port ball valves are produced in 3" and 4" sizes. They satisfy a wide range of industrial applications for processing and handling flammable fluids. They are drilled and vented for CO2 liquid service.

Design Features

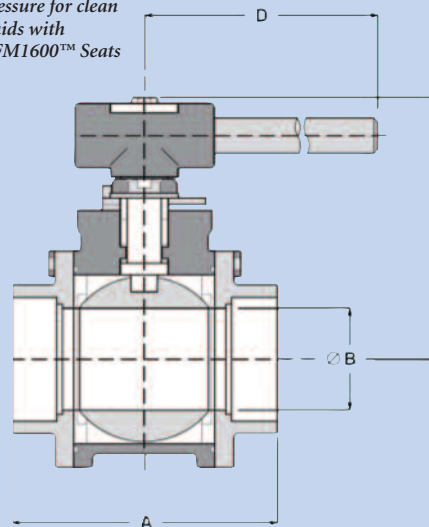
- Fire tested to API-607
- GRAFOIL® Body Seals
- Latch lock handle fully compatible with OSHA clamp for Lock-Out/Tag-Out
- Built-In ISO 5211 mounting pad for easy automation
- ISO 5211 mounting pad for easy actuation
- End connections include SE (Screwed Ends, FNPT), SW (Socket Weld) and BW (Butt Weld)



Materials of Construction

DESCRIPTION	MATERIALS SPECIFICATIONS (Additional options available)
Body	316 Stainless Steel (ASTM A351 CF8M) Carbon Steel (ASTM A216 WCB)
End Connector	316L Stainless Steel (ASTM A351 CF3M) Carbon Steel (ASTM A216 WCB)
Ball	316 Stainless Steel (ASTM A351 CF8M)
Stem	316 Stainless Steel (ASTM A276)
Seat	TFM1600™
Body Seal	GRAFOIL®, PTFE
Stem Seal	GRAFOIL®, TFM1600™, SupraLon™
Seat Retainer	316 Stainless Steel (ASTM A351 CF8M)

* At full differential pressure for clean fluids with TFM1600™ Seats



Specification Standards of Compliance

Standard Port Ball Valves are available in designs that meet the following Industry Standards:

- ANSI
- NACE
- DIN
- ASME
- ASTM
- ISO
- API
- MSS

Fire Safe Ball Valve – Dimensions, Weight, CV and Torque

Part Number – Stainless Steel	Part Number – Carbon Steel	Size	A		B		D		L		Weight		Cv	Torque**	
			in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg		in-lbf	Nm
FS70-3NPT-SSAG-VR	FS70-3NPT-CSAG-VR	3"	8.0	204	2.95	74	13.50	343	6.6	168	36	16.3	580	987	112
FS70-4NPT-SSAG-VR	FS70-4NPT-CSAG-VR	4"	9.5	240	3.78	96	13.50	343	7.1	181	56	25.4	2400	1009	114

Other end connections available.

For Socket Weld replace "NPT" in the part number with "SW". For Butt Weld replace "NPT" in the part number with "BW". For Oxygen Cleaning add "-OX" to the end of the part number.