



SERIES 66 THREE-PIECE FULL PORT FIRESAFE BALL VALVE

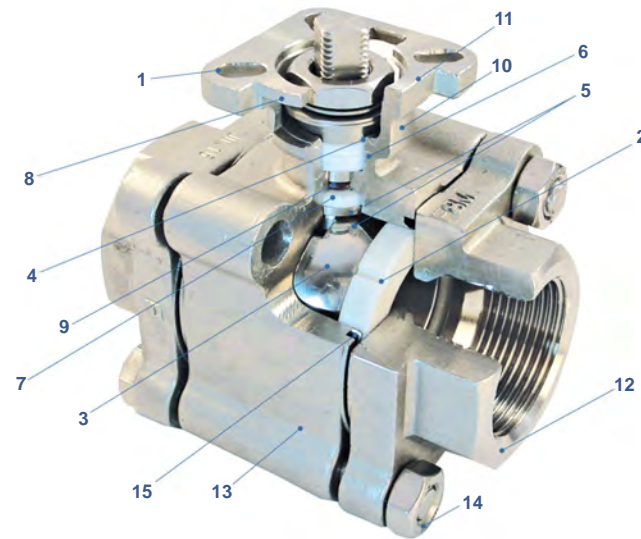
Series 66



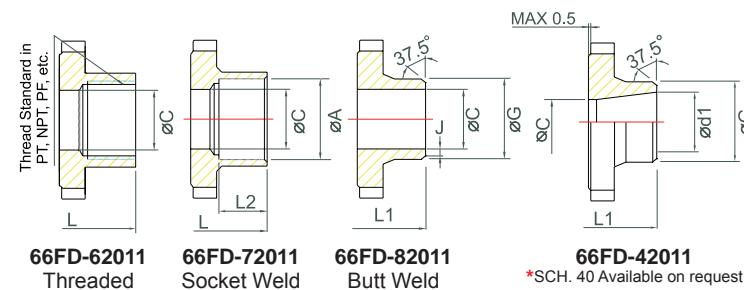
SIL3
Safety Integrity Level

SERIES 66 THREE-PIECE FULL PORT FIRESAFE BALL VALVE

- Dual Pattern ISO 5211 Mounting Pad with Square Shaft**
Brackets are not required for actuation.
- Seats**
Relief slots are designed to relieve pressure in upstream piping reducing seat wear and valve torque.
- Ball**
Precisely machined, mirror polished solid ball for bubble tight shutoff with less operating torque.
- Blow-Out Proof Stem**
For maximum safety.
- Anti-Static Device**
Spring loaded stem to ball and stem to body anti-static device.
- Super Smooth Stem Surface**
To prolong service life, the smooth stem surface reduces seal friction and operating torque.
- Pyramidal Stem Design**
Provides optimum stem seal and extremely long cycle life.
- Patented Leak-Watching Window**
Standard on all sizes as an early detection of stem leak while preventing potential accidents.
- O-Ring Stem Seal**
Extends service life by enhancing the stem wear and maintains stem alignment.
- Extended Valve Neck**
Offers adequate room between the mounting pad and valve body for easy mounting of actuators.
- Locking Device**
Standard
- Stainless Steel Welded Ends are Optional in 316L**
Reduces inter-granular corrosion in welding.
- 3-Piece Swing-Out Design**
Prompt and straightforward in line maintenance.
- Encapsulated Body Bolts (up to 2")**
Enhance environment protection essential for API 607 Fire-Safe qualification.
- Fully Contained Body Seals**
Maintains sealing integrity from high vacuum to high pressure and temperature applications.



Flex Metal™ High Performance Seat Material
A proprietary highly filled polymer seat. Offers abrasion resistance of metal with significantly higher pressure and temperature than RTFE. Temperature: -50°F to 470°F. Bubbletight shutoff.



Dimension "S" .67 / .75 (Standard .67 Optional .75)
H & B1 Dimensions ± 0.02 in.

SIZE	ØA	B1	B2	ØC	Ød1	#ØG	E	S	ØG	H	J
1/4"	0.56	0.30	1.68	0.25	0.36	0.54	5.47	0.35	0.85	3.03	0.13 #0.06
3/8"	0.69	0.30	1.68	0.38	0.49	0.69	5.47	0.35	0.85	3.03	0.11 #0.06
1/2"	0.86	0.30	1.68	0.50	0.62	0.85	5.47	0.35	0.85	3.03	0.06
3/4"	1.07	0.34	1.84	0.75	0.83	1.07	5.47	0.35	1.07	3.23	0.06
1"	1.33	0.41	2.33	1.00	1.05	1.34	6.50	0.43	1.34	3.88	0.06
1-1/4"	1.69	0.41	2.46	1.25	1.38	1.68	6.50	0.43	1.68	4.02	0.06
1-1/2"	1.93	0.53	3.11	1.50	1.61	1.91	8.46	0.55	1.91	5.04	0.06
2"	2.41	0.53	3.45	2.00	2.07	2.38	8.46	0.55	2.38	5.39	0.06
2-1/2"	2.91	0.66	4.28	2.50	2.56	2.87	11.81	.67/.75	3.00	6.57	0.08
3"	3.54	0.70	4.63	3.00	3.15	3.50	14.57	.67/.75	3.54	6.93	0.08
4"	4.55	0.66	5.26	4.00	4.02	4.49	14.57	.67/.75	4.57	7.56	0.14 #.08

*L - Dimension for DIN 3202-M3 Length
*L1 - Dimension for S13 Length
- Dimension for SCH.40

Inspection and Test: API 598, BS6755 Part 1

Compliance Standards: ANSI B16.34, ANSI B16.25, ANSI B1.20, API 6D, API 598, API 607, ISO 5209, ISO 5211, ISO 5752

Options: NACE MR-0175

API 598, BS6755 Part 1

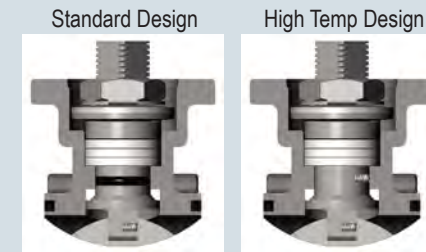
ANSI B16.34, ANSI B16.25, ANSI B1.20, API 6D, API 598, API 607, ISO 5209, ISO 5211, ISO 5752

CE

SERIES 66 THREE-PIECE FULL PORT FIRESAFE BALL VALVE

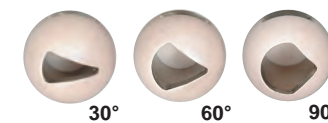
PYRAMIDAL MACHINED STEM WITH STEM SEAL

All valves come standard with direct mount actuator capabilities and our patented live loaded high cycle pyramidal stem seal design. The wedging action of the stem is far superior to flat stem design when it comes to effective wear compensation. For more information on this design please request Triad's Pyramidal Stem Design data sheet.



V Ball Options

The Triad V Ball provides unlimited control options for all process applications. For more information please request the Triad V Ball Control Valves data sheet.

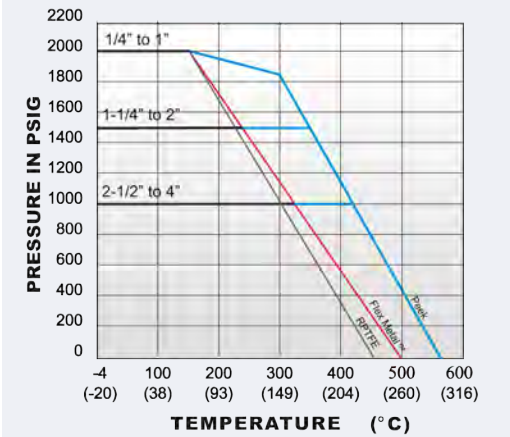


Metal Seated Option

The Triad metal seat option is available for elevated temperatures and abrasive conditions. For more information please request the Triad Metal Seated Valves data sheet.

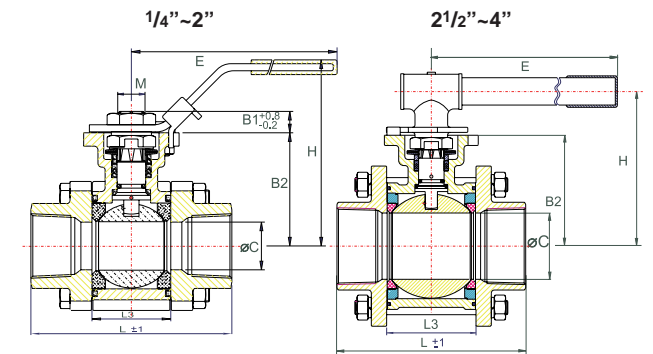
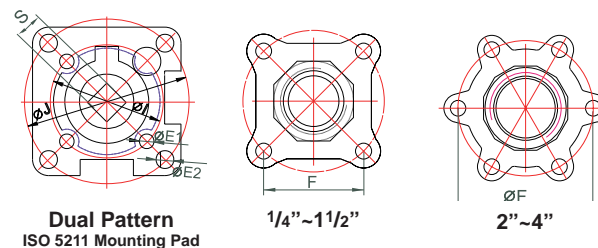


Pressure Vs. Temperature Chart



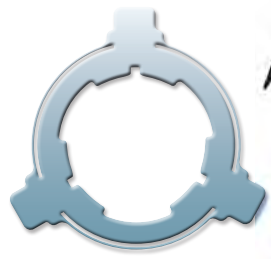
Optional Seat Material

Tri-Fill™, Delrin, Virgin PTFE and UHMWPE seats available. Please consult factory.



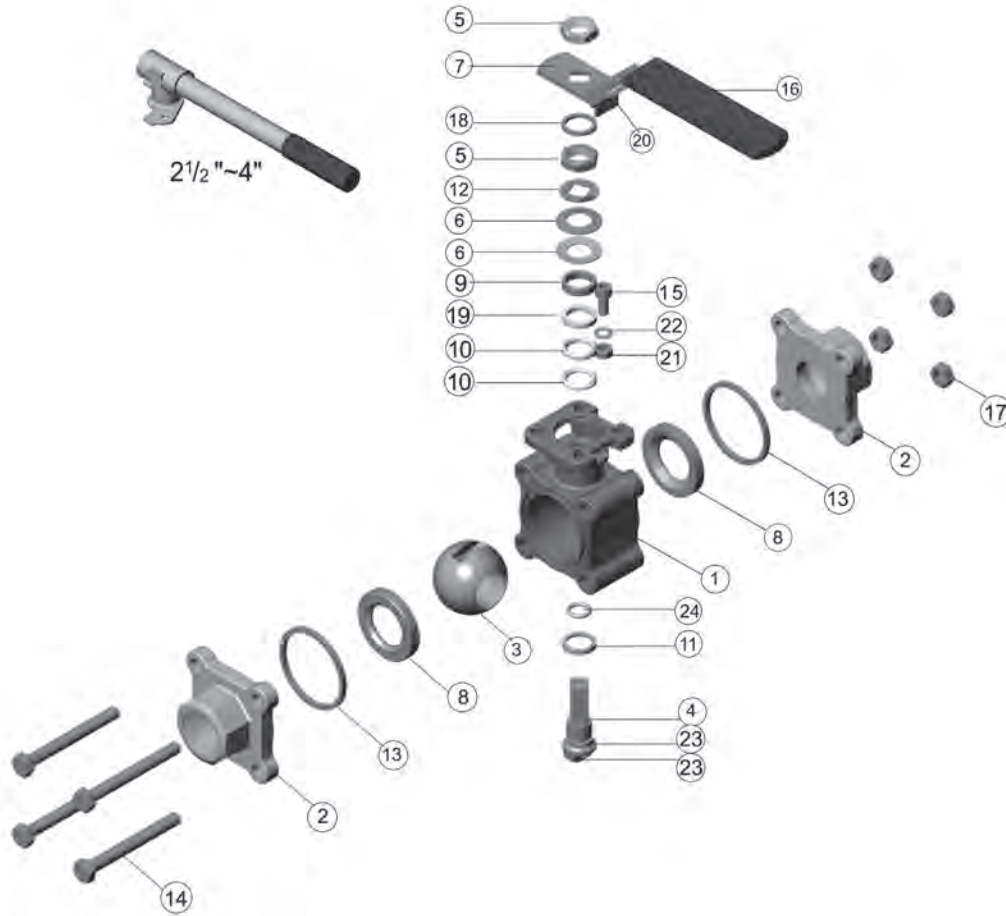
L	*L	*L1	L1	L2	Ø1	ØJ	ØE1	ØE2	M	L3	ØF	ØD1	ØD2	T	LA	ISO5211	WT. (lb)
2.95	2.36	2.76	2.95	0.39	1.42	1.65	0.24	0.24	7/16"-20UNF	0.96	1.50					F03/F04	1.96
2.95	2.36	2.76	2.95	0.39	1.42	1.65	0.24	0.24	7/16"-20UNF	0.96	1.50	0.50	0.68	0.08	4.72	F03/F04	1.94
2.85	2.95	2.95	2.95	0.39	1.42	1.65	0.24	0.24	7/16"-20UNF	0.96	1.50	0.59	0.84	0.08	5.51	F03/F04	1.81
3.36	3.15	3.54	3.54	0.51	1.42	1.65	0.24	0.24	7/16"-20UNF	1.24	1.74	0.79	1.06	0.08	5.51	F03/F04	2.84
4.15	3.54	3.94	4.33	0.51	1.65	1.97	0.24	0.28	9/16"-18UNF	1.63	1.97	0.98	1.33	0.09	5.98	F04/F05	4.43
4.37	4.33	4.33	4.53	0.51	1.65	1.97	0.24	0.28	9/16"-18UNF	1.91	2.25	1.26	1.67	0.10	6.50	F04/F05	6.08
5.01	4.72	4.92	5.12	0.51	1.97	2.76	0.30	0.35	3/4"-16UNF	2.22	2.62	1.50	1.90	0.10	7.48	F05 & F07	9.28
5.62	5.51	5.91	5.62	0.63	1.97	2.76	0.30	0.35	3/4"-16UNF	2.81	4.49	1.97	2.37	0.12	7.99	F05 & F07	12.85
7.28	7.28	7.48	7.28	0.63	2.76	4.02	0.39	0.47	M24	3.41	5.47	2.56	3.00	0.14	10.00	F07/F10	26.46
8.07	8.07	8.66	8.07	0.63	2.76	4.02	0.39	0.47	M24	3.90	6.30	3.15	3.50	0.14	11.02	F07/F10	35.71
9.45	9.45	10.63	9.45	0.79	2.76	4.02	0.39	0.47	M24	5.00	7.60	3.94	4.50	0.14	12.48	F07/F10	56.88

© Size 1/4" to 1/2" ISO 5211 standard configuration is F03/F04, F03/F04/F05 & F04/F05 as option
Size 3/4" ISO 5211 standard configuration is F03/F04, F03/F04/F05 & F05/F07 as option
Size 1" to 1-1/4" ISO 5211 standard configuration is F04/F05, F05/F07 as option



SERIES 66 THREE-PIECE FULL PORT FIRESAFE BALL VALVE

Parts List



NO.	PART NAME	MATERIAL	Q'TY
1	Body	ASTM A351 Gr. CF8M	1
2	End Cap	ASTM A351 Gr. CF8M [Ⓜ]	2
3	Ball	316SS	1
4	Stem	316SS	1
5	Stem Nut	304SS	2
6	Belleville Washer	301SS	2
7	Handle	304SS	1
8	Seat	FlexMetal™	2
9	Gland	304SS	1
10	Stem Packing	PTFE	◇
11	Stem Seal	RPTFE	1
12	Lock Saddle	304SS	1

[Ⓜ] Socket weld and butt weld uses CF3M material
 ◇ For 1/4"-2"-2pcs, 2 1/2"-4"-3pcs.

NO.	PART NAME	MATERIAL	Q'TY
13	Joint Gasket	GRAPHITE	2
14	Bolt	304SS	*
15	Stop Pin	304SS	1
16	Handle Sleeve	Vinyl	1
17	Bolt Nut	304SS	f
18	Stem Washer	304SS	1
19	Stem Packing	25% Glass Fiber Filled + PTFE	1
20	Locking Device	304SS	1
21	Pin Nut	304SS	1
22	Washer	304SS	1
23	Antistatic - Device	316SS	@
24	O-RING	VITON	1

* For 1/4" to 1 1/2"- 4pcs; For 2"-4" - 6pcs
 f For 1/4" to 1 1/2"- 4pcs; For 2"-6pcs, For 2 1/2"-4"-12pcs
 @ 1/4"-1/2"-1pcs, 3/4"-4"-2pcs.