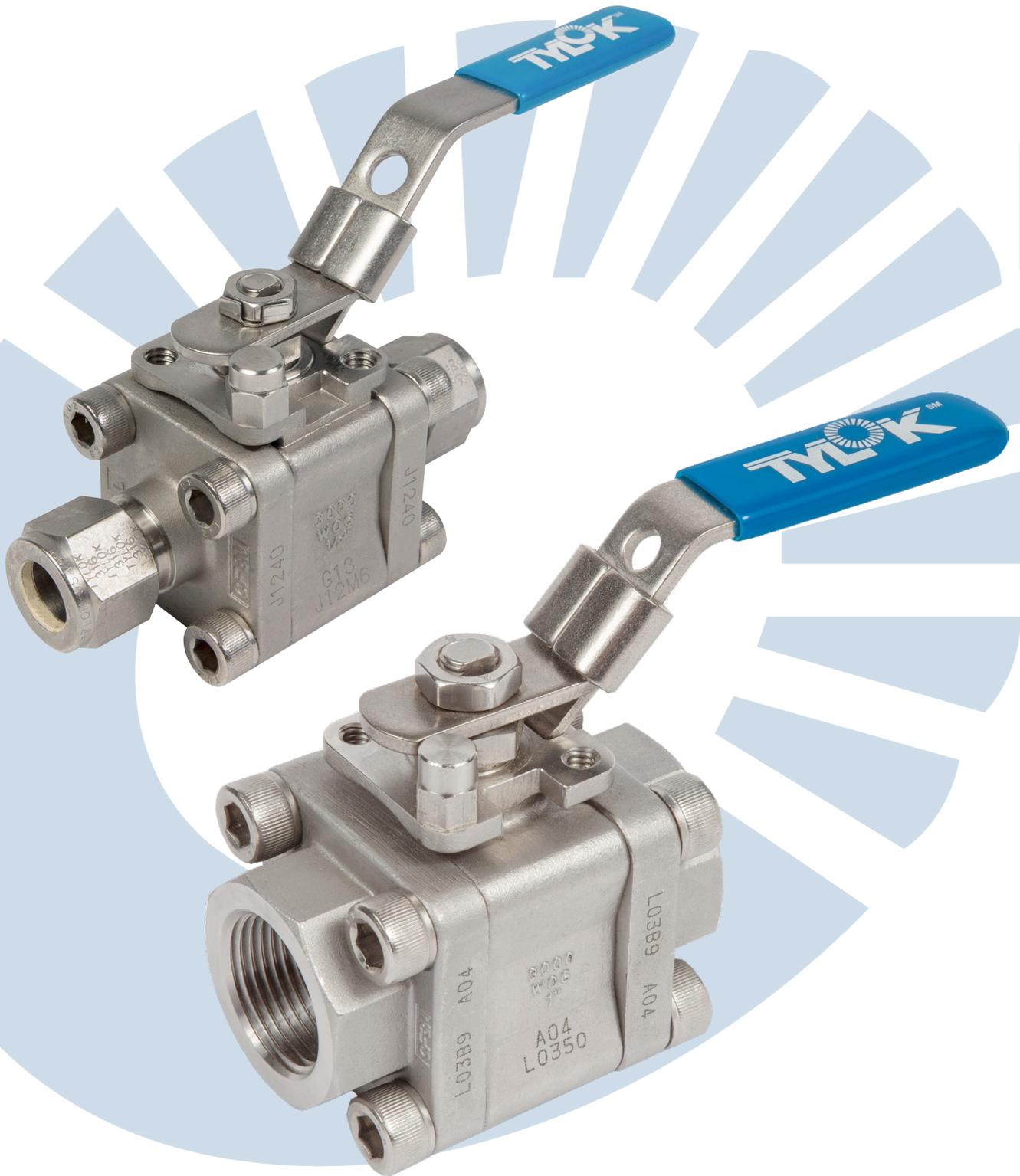
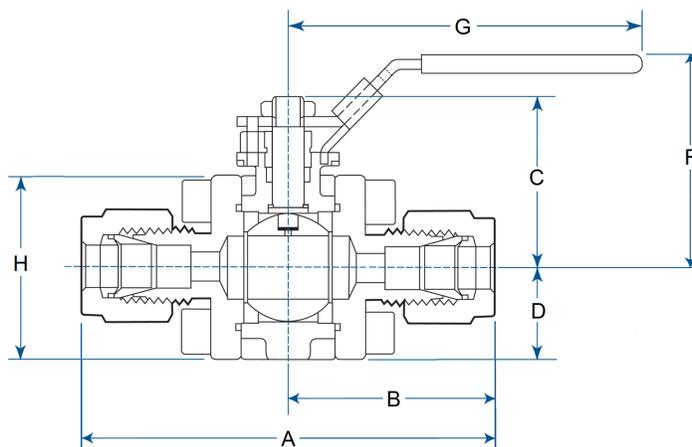
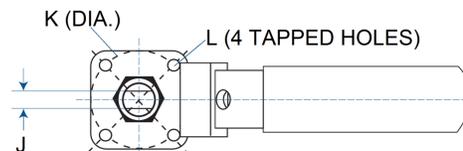
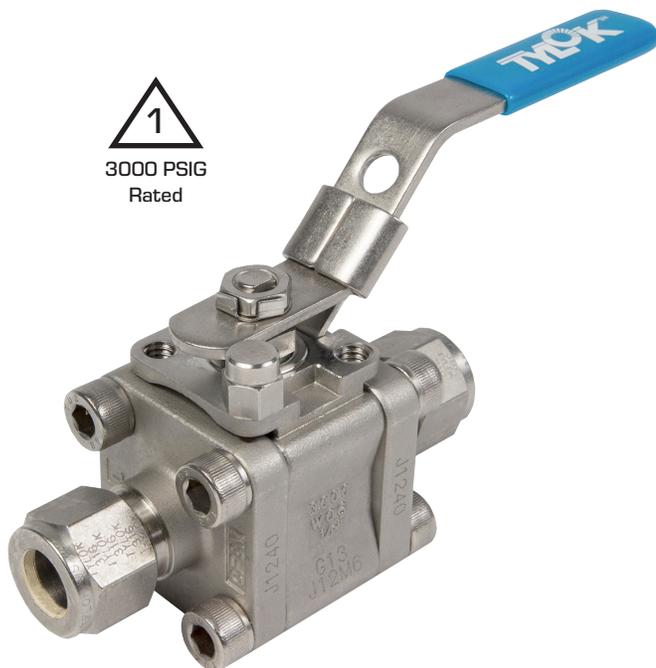


# 3 Piece Ball Valves

Ball Valves



# 3 Piece Ball Valves

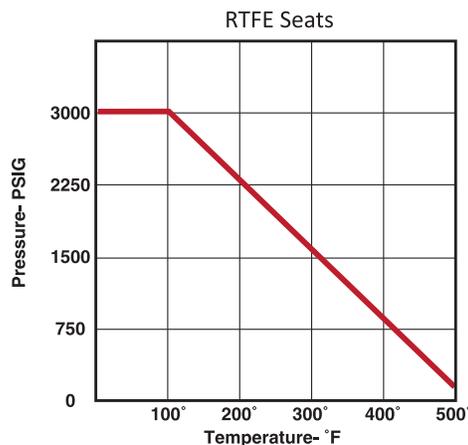


## Features

- 3 Piece, 8-Bolt construction
- Fire Safe to API 607 4th Edition & ISO 10497
- ISO 5211 4-Bolt actuator mounting pad
- NACE MRO175 Rev 2000 compliant
- Minimum 3.2 to 1 hydrostatic safety factor
- Tube ended valves come standard with -RR (Reinforced PTFE Seats & Seal).

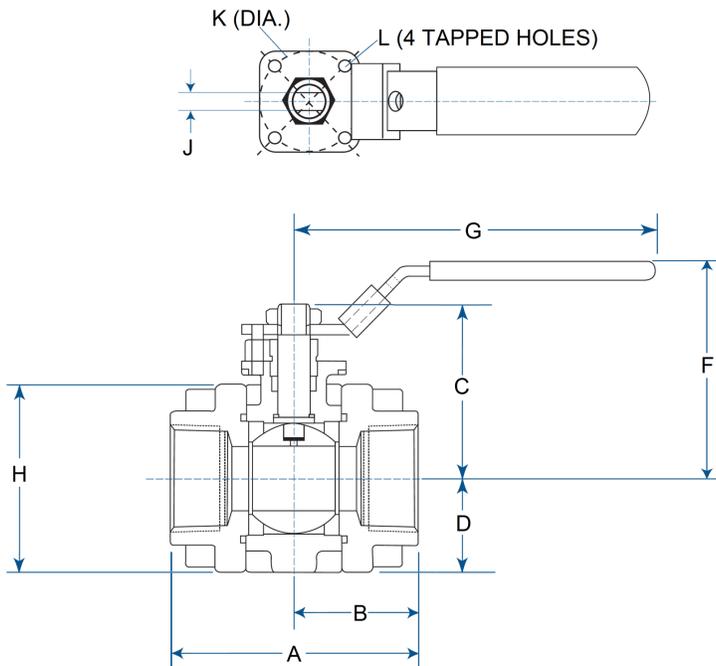
## Pressure Ratings

- CF8M with 316SS Trim. 3000 psig at 100°F
- 250 psig Saturated Steam Rating



Part Number	Connection	A	B	C	D	F	G	H	Orifice	Cv	J	K	L	PTFE Seats (in-lbs.)	PEEK Seats (in-lbs.)
4-5TT-4	1/4" CBC-LOK	3.19	1.60	1.71	0.9	2.5	4.0	1.8	0.19	1.2	0.20	1.42	1/4"20 /UNC	100	130
4-5ZZ-4	1/4" CS-LOK														
6-5TT-6	3/8" CBC-LOK	3.19	1.60	1.71	0.9	2.5	4.0	1.8	0.28	3.8				100	130
6-5ZZ-6	3/8" CS-LOK														
8-5TT-8	1/2" CBC-LOK	4.04	2.02	1.71	0.9	2.5	4.0	1.8	0.41	7.5				100	130
8-5ZZ-8	1/2" CS-LOK														
12-5TT-12	3/4" CBC-LOK	4.04	2.02	1.83	1.1	2.6	4.0	2.1	0.57	18.0				200	250
12-5ZZ-12	3/4" CS-LOK														
16-5TT-16	1" CBC-LOK	5.36	2.68	2.34	1.2	3.0	4.8	2.4	0.81	40.0	0.28	1.65	230	300	
16-5ZZ-16	1" CS-LOK														

# 3 Piece Ball Valves



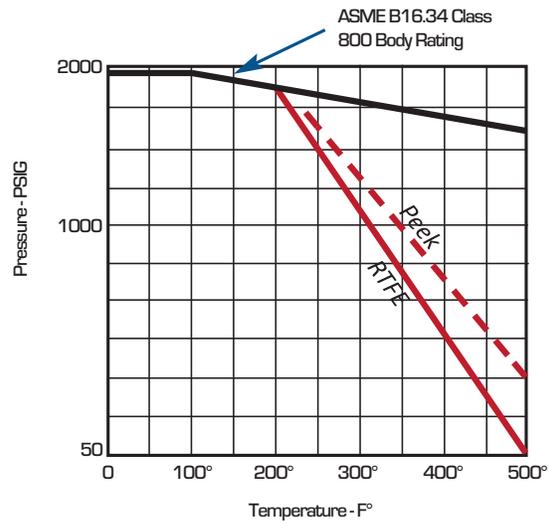
**2**  
ASME  
B16.34  
Compliant

## Features

- 3 Piece, 8-Bolt construction
- ASME B16.34, Class 800 Compliant
- Fire Safe to API 607 4th Edition & ISO 10497
- ISO 5211 4-Bolt mounting
- NACE MR0175 Rev 2000 compliant
- Pipe ended valves come standard with -RG (Reinforced PTFE Seats & Seals).

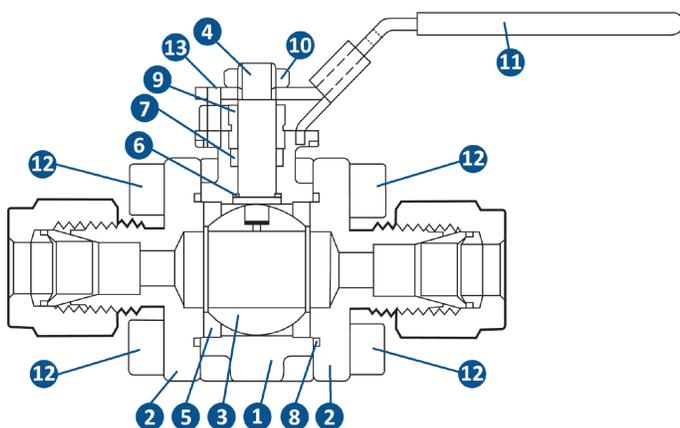
## Pressure Ratings

- CF8M with 316SS Trim. 1920 psig at 100°F
- 250 psig Saturated Steam Rating



Part Number	Port Type	Connection	A	B	C	D	F	G	H	Orifice	Cv	J	K	L	PTFE Seats (in-lbs.)	PEEK Seats (in-lbs.)
4-5FF-4	Full	1/4" Female NPT	2.70	1.35	1.71	0.9	2.5	4.0	1.8	0.43	10.0	0.20	1.42	1/4"-20 UNC	100	130
6-5FF-6	Full	3/8" Female NPT														
8-5FF-8	Reduced	1/2" Female NPT	2.70	1.35	1.71	0.9	2.5	4.0	1.8	0.43	10.0	0.20	1.42		100	130
	Full (-L)		2.80	1.40	1.83	1.1	2.6	4.0	2.1	0.57	16.0	0.20	1.42		200	250
12-5FF-12	Reduced	3/4" Female NPT	3.00	1.50	1.83	1.1	2.6	4.0	2.1	0.57	25.0	0.20	1.42		200	250
	Full (-L)		3.20	1.60	2.34	1.2	3.0	4.8	2.4	0.81	40.0	0.28	1.65		230	300
16-5FF-16	Reduced	1" Female NPT	3.50	1.75	2.34	1.2	3.0	4.8	2.4	0.81	42.0	0.28	1.65		230	300
	Full (-L)		3.80	1.90	2.69	-	3.4	5.8	-	1.00	62.0	0.32	1.65		250	-

# 3 Piece Ball Valves



Materials of Construction (STD)			
Part	Quantity	Description	Standard Material
1	1	Body	CF8M Stainless Steel
2	2	Tailpiece	CF3M Stainless Steel
3	1	Ball	316 or CF8M Stainless Steel
4	1	Stem	316 or CF8M Stainless Steel
5	2	Seat	Peek or Reinforced PTFE
6	1	Thrust Washer	Reinforced PTFE
7	1	Packing Set	Graphite or Reinforced PTFE
8	2	Body Seal	Graphite or Reinforced PTFE
9	1	Packing Nut	316 Stainless Steel
10	1	Handle Nut	304 Stainless Steel
11	1	Handle Assy	304 Stainless Steel
12	8	Body Bolt	Stainless Steel
13	1	Handle Stop	304 Stainless Steel

3 Piece Ball Valves are ordered as listed in this catalog by inserting the material code before the part number. The standard Ball & Stem are in Stainless Steel unless otherwise requested. Full Port is only available in NPT configurations and Special cleaning and packaging is available. Contact authorized Tylok Representative for more information.

**Example:** A Stainless Steel, 1/2" Inlet to 1/2" Outlet, 3 Piece Ball Valve, with CBC-Lok Instrumentation Tube Ends, Reinforced PTFE Seats & Seals, with the following option: ASME B16.34 compliant is designated as follows:

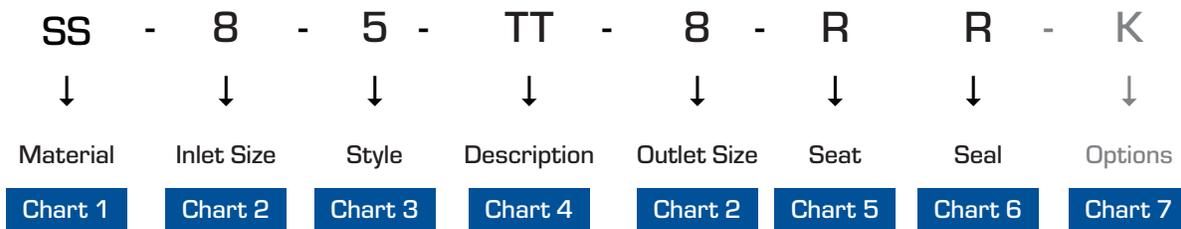


Chart 1- Material	
SS	Stainless Steel

Chart 2- Valve Series	
Designator	Valve Size
4	1/4"
6	3/8"
8	1/2"
12	3/4"
16	1"

Chart 3- Style	
5	3 Piece Ball Valve, 2 way, Bi-Directional flow

Chart 4- Description		
Code	End Description	Size Range
EE	Extended Butt Weld (Schedule 80)	1/4"-1"
FF	Female NPT	1/4"-4"
ll	Pipe Socket Weld	1/4"-1"
TT	Instrumentation Tube End (CBC-Lok®)	1/4"-1"
XX	Extended Pipe Socket Weld	1/4"-4"
ZZ	Instrumentation Tube End (CS-Lok®)	1/4"-1"

Chart 5- Seat	
R	Reinforced PTFE
P	PEEK

Chart 6- Seal	
G	Graphite
R	Reinforced PTFE

Chart 7- Options	
I	Oval Handle
K	ASME B.16.34 Compliant
L	* Full Port

\* Tube ended valves come standard with -RR (Reinforced PTFE Seats & Seal). Pipe ended valves come standard with -RG (Reinforced PTFE Seats & Graphite Seals).