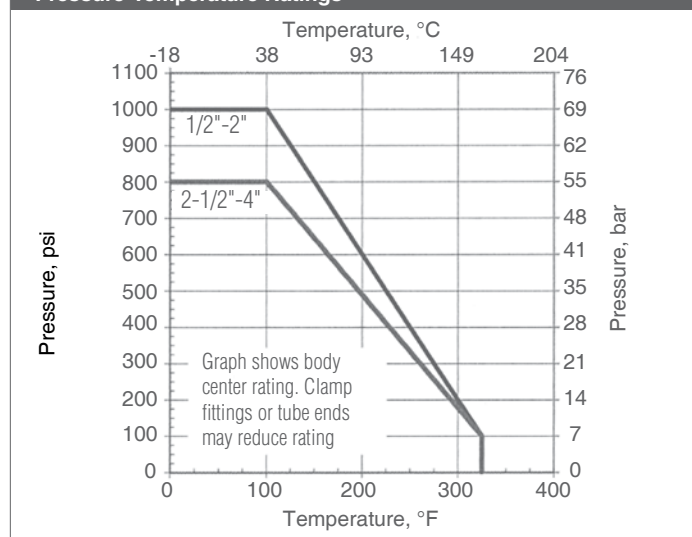




### Features

- In sizes from 1/2" (DN15) through 4" (DN100) with a true tube bore design, to provide unobstructed flow and better drainage
- Pressure ratings up to 1000 psi (68,9 bar) for 1/2" - 2"; and 800 psi (55,2 bar) for 2-1/2" - 4"
- PTFE cavity filler seats
- Internal finish 20 Ra
- Lockable handle prevents accidental opening or closing of valve
- ISO 5211 actuator mounting flange
- Designed for simple maintenance with swing-out for repair feature
- Anti-blowout stem
- Live-loaded stem seal - no threads in packing chamber
- No sharp internal fillet radius - for smooth finish
- Tri-clamp or tube weld ends
- Available as manual or actuated (pneumatic/electric) valve

### Pressure-Temperature Ratings



### CF8901F-XXX-SS Series Full Port Valve

Quick Spec	
Product Scope	
Size Range	1/2" - 4"
Body Type	3-Piece
Pressure Rating	1000 psi WOG (69 bar) 1/2" - 2"; 800 psi (55,2 bar) 2-1/2" - 4"
Temperature Range / WSP	325°F (160°C) / 80 psi (5,5 bar)
Body	Stainless Steel Body
Ball & Stem	Stainless Steel
Ball Seats	PTFE
Stem Packing & Seals	PTFE
Operator/Mounting Pad	Manual Locking Lever / ISO 5211
Design Standards	
Design	ASME B16.34, Class 400/300
End Connections	ASME BPE
Testing Standards	
Pressure Testing	API 598
Approvals	
CRN0C5539.5	

### Standard Materials of Construction

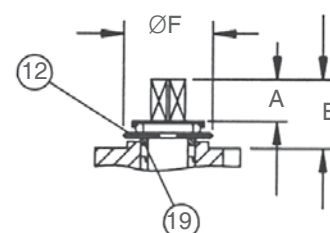
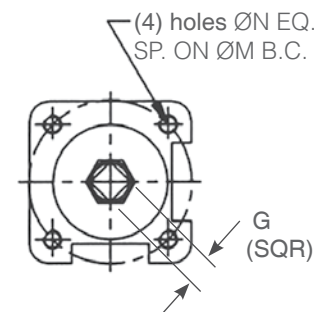
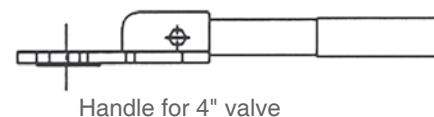
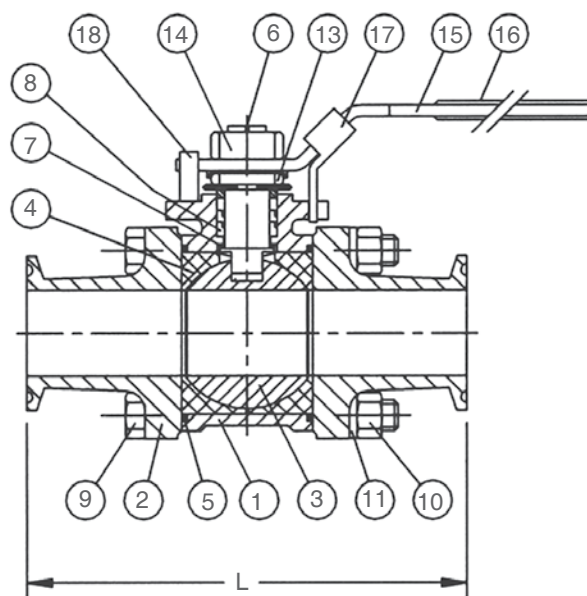
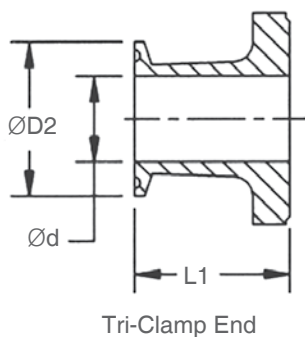
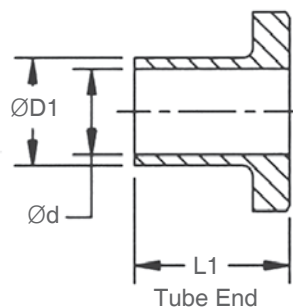
Part	Stainless Steel
Body	ASTM-A351-CF3M
End Cap	
Ball	
Seat	
Gasket	PTFE
Stem	ASTM A276 316
Thrust Washer	PTFE
Stem Packing	PTFE
Bolt	AISI 304
Hex Nut	AISI 304
Bolt Washer	
Bevel Washer	
Nut	
Handle	Vinyl
Plastic Cover	
Lock Device	AISI 304
Stop Pin	

### Technical Specifications

Valve Size Inches	Operating Torque, in-lb	Cv	Weight (Lb)	
			Clamp End	Tube End
1/2"	80	9	1.58	1.54
3/4"	100	26	1.98	1.90
1"	125	61	2.7	2.6
1-1/2"	290	193	5.8	5.6
2"	400	432	8.5	8.4
2-1/2"	600	728	17.6	17.1
3"	900	1125	25	25
4"	1300	1986	46	46

### Technical Specifications

Valve Size DN	Operating Torque, Nm	Kv	Weight (Kg)	
			Clamp End	Tube End
1/2"	9,1	7,7	0,72	0,70
3/4"	11,3	22,4	0,90	0,86
1"	14,1	52,5	1,24	1,17
1-1/2"	33	166	2,6	2,6
2"	45	372	3,8	3,8
2-1/2"	68	626	8	8
3"	102	968	11	11
4"	147	1708	21	21



ART1237

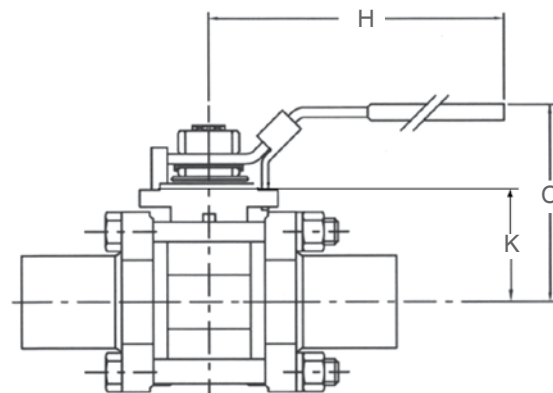
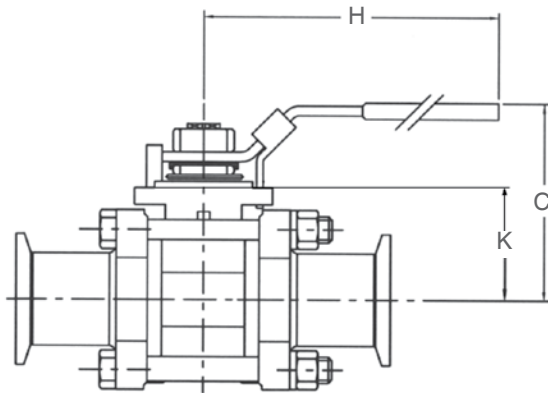
### Valve Plate Ratings

Size, NPS	Body Pressure Rating	Valve Name Plate Pressure Rating, PSI	
		Clamp End <sup>1</sup>	Tube End <sup>1</sup>
1/2"	1000	500	1000
3/4"	1000	500	1000
1"	1000	500	1000
1-1/2"	1000	500	1000
2"	1000	450	750
2-1/2"	800	400	50
3"	800	350	625
4"	800	300	600

<sup>1</sup> Clamp end name plate pressure rating is based on Tri-Clover A13MHM Tri-Clamp (hinged 2-segment clamp with wing nut)

<sup>2</sup> Tube end name plate pressure rating is the lesser of the body rating or the tube end rating calculated with ANSI B31.3 using Sy=20ksi Y=0.4 and E=0.8

No.	Part	Material	Qty
1	Body	ASTM-A351-CF3M	1
2	Cap	ASTM-A351-CF3M	2
3	Ball	ASTM-A351-CF3M	1
4	Seat	PTFE / TF 1641	2
5	Gasket	PTFE / TF 1641	2
6	Stem	ASTM A276 316	1
7	Thrust Washer	PTFE / TF 1641	1
8	Stem Packing	PTFE / TF 1641	1
9	Bolt	AISI 304	4
10	Hex Nut	AISI 304	4
11	Bolt Washer	AISI 304	4
12	Bevel Washer	AISI 304	2
13	Nut	AISI 304	1
14	Nut	AISI 304	1
15	Handle	AISI 304	1
16	Handle Cover	Vinyl	1
17	Lock Device	AISI 304	1
18	Stop Pin	AISI 304	1
19	Gland	AISI 304	1



ART1238

- Tri-Clamp / Butt Weld Ends Dimensions, inches

Size	ISO-5211	H	C	L	K	A	B	ØM	G±0.004	ØN	ØF
1/2"	F03	5.6	2.64	3.50	1.19	0.34	0.69	1.417	0.354	10-24UNC	0.99
3/4"	F03	5.6	2.81	4.00	1.38	0.49	0.84	1.417	0.354	10-24UNC	0.99
1"	F04	6.3	3.19	4.50	1.39	0.66	1.15	1.654	0.433	10-24UNC	1.18
1-1/2"	F05	7.4	4.04	5.51	1.84	0.63	1.24	1.968	0.551	1/4-20UNC	1.41
2"	F05	7.4	4.35	6.14	2.14	0.63	1.24	1.968	0.551	1/4-20UNC	1.41
2-1/2"	F07	12.2	5.79	7.76	3.00	0.61	1.48	2.756	0.669	5/16-18UNC	1.77
3"	F07	12.2	6.16	9.02	3.36	0.61	1.48	2.756	0.669	5/16-18UNC	1.77
4"	F10	15.8	6.46	9.57	4.11	0.86	1.55	4.016	0.866	3/8-16UNC	1.97

- Tri-Clamp / Butt Weld Ends Dimensions, metric

Size	ISO-5211	H	C	L	K	A	B	ØM	G±0.1	ØN	ØF
DN15	F03	143	67	89	30,2	8,6	17,6	36,0	9,0	10-24UNC	26
DN20	F03	143	71,5	101	34,9	12,4	21,4	36,0	9,0	10-24UNC	26
DN25	F04	160	81	114	35,4	16,9	29,2	42,0	11,0	10-24UNC	30
DN40	F05	187	102,5	140	46,5	16,1	31,5	50,0	14,0	1/4-20UNC	36
DN50	F05	187	110,5	156	54,5	16,1	31,5	50,0	14,0	1/4-20UNC	36
DN65	F07	310	147	197	76,0	15,4	37,5	70,0	17,0	5/16-18UNC	45
DN80	F07	310	156,5	229	85,4	15,4	37,5	70,0	17,0	5/16-18UNC	45
DN100	F10	400	164	243	104,3	21,8	39,3	102,0	22,0	3/8-16UNC	51

- Tube End Dimensions, inches

Size	d	D1	L1
1/2"	0.374	0.500	1.29
3/4"	0.622	0.752	1.44
1"	0.874	1.000	1.58
1-1/2"	1.378	1.504	1.72
2"	1.874	2.000	1.80
2-1/2"	2.374	2.500	2.20
3"	2.874	3.000	2.54
4"	3.835	4.000	2.39

- Tube End Dimensions, metric

Size	d	D1	L1
DN15	9,5	12,7	32,8
DN20	15,8	19,1	36,5
DN25	22,2	25,4	40,0
DN40	35,0	38,2	43,5
DN50	47,6	50,8	45,8
DN65	60,3	63,4	56,0
DN80	73,0	76,2	64,5
DN100	97,4	101,6	60,6

- Clamp End Dimensions, inches

Size	d	D2	L1
1/2"	0.374	1.00	1.29
3/4"	0.622	1.00	1.44
1"	0.874	1.98	1.58
1-1/2"	1.378	1.98	1.72
2"	1.874	2.52	1.80
2-1/2"	2.374	3.05	2.20
3"	2.874	3.58	2.54
4"	3.835	4.68	2.39

- Clamp End Dimensions, metric

Size	d	D2	L1
DN15	9,5	25,40	32,8
DN20	15,8	25,40	36,5
DN25	22,2	50,29	40,0
DN40	35,0	50,29	43,5
DN50	47,6	64,01	45,8
DN65	60,3	77,47	56,0
DN80	73,0	90,93	64,5
DN100	97,4	118,9	60,6

Series	
CF8901F	3-Piece Cavity-Filled

	Size
05A	1/2"
07A	3/4"
10A	1"
15A	1-1/2"
20A	2"
25A	2-1/2"
30A	3"
40A	4"

Body Material	
S6	A351 CF3M 316L

1	Packing / Seat
A	PTFE/PTFE

2	End Connections
K	Clamp
J	Tube (Butt Weld)

3&4	Operation
HL	Lever
NN	None
P1	UT-0A-DA
P2	UT-0-DA
P3	UT-1-DA
P4	UT-2-DA
P5	UT-2.5-DA
P6	UT-3-DA
P7	UT-3.5-DA
P8	UT-4-DA
PF	UT-4.5-DA
P9	UT-5-DA
S1	UT-0-SR
S2	UT-1-SR
S3	UT-2-SR
S4	UT-2.5-SR
S5	UT-3-SR
S6	UT-3.5-SR
S7	UT-4-SR
SF	UT-4.5-SR
S8	UT-5-SR
M1	ER-1-2.5-4 110 VAC
M2	ER-2-5-4 110 VAC
M3	ER-3-5-4 110 VAC
M8	ER-4-10-4 110 VAC
M4	ER-6-15-4 110 VAC
M5	ER-10-15-4 110 VAC
M9	ER-15-30-4 110 VAC
ZZ	Non-Standard

5&6	Actuator Pressure
40	40 psi
60	60 psi
80	80 psi
NN	N/A (no pneumatic actuator)
ZZ	Non-Standard

7&8	Solenoid Feature	Act. Type
00	None	
3A	3W 8551-120VAC N4 UT-0/5	SR
3C	3W EF8551-120VAc N7 UT-0/5	SR
3J	3W 8317G35-120VAC N4 UT-0/2.5	SR
3M	3W 8321G1-120VAC N4 UT-3/5	SR
3Q	3W EF8317G35-120VAC N7 UT-0/2.5	SR
3R	3W EF8321G1-120VAC N7 UT-3/5	SR
4A	4W 8551-120VAC N4 UT-0A	DA
4B	4W 8551-120VAC N4 UT-0/5	DA
4D	4W EF8551-120VAC N7 UT-0A	DA
4E	4W EF8551-120VAC N7 UT0/5	DA
ZZ	Non-Standard	

9&10	Limit Switch
00	None
AA	LS FMYB-5120-N4 to UT-0/3
AB	LS FMYB-5120-N4 to UT-3.5/7
AC	LS AMYB-5120-N7 to UT-0/3
AD	LS AMYB-5120-N7 to UT-3.5/7
ZZ	Non-Standard

11&12	Fail Position
NN	Fail Position N/A (No "SR" Actuator)
01	Fail Closed
02	Fail Open

13&14	Positioner
00	None
AA	Siemens 760P (3-15 psi), for UT-0/3
AB	Siemens 760P (3-15 psi), for UT-3.5/7
AC	Siemens 760E (4-20 mA), for UT-0/3
AD	Siemens 760E (4-20 mA), for UT-3.5/7
AE	Siemens 2-IQ (4-20 mA), for UT-0/3 DA
AF	Siemens 2-IQ (4-20 mA), for UT-3.5/7DA
AQ	Siemens 2-IQ (4-20 mA), for UT-0/3 SR
AR	Siemens 2-IQ (4-20 mA), for UT-3.5/7SR
ZZ	Non-Standard

15	Miscellaneous Features
0	None
03	SST Tube & Fittings for Automation
04	Air Filter Reg. 4Z030A to UT-0 thru 2 SST
Z	Non-Standard