

FS7 and FSB7

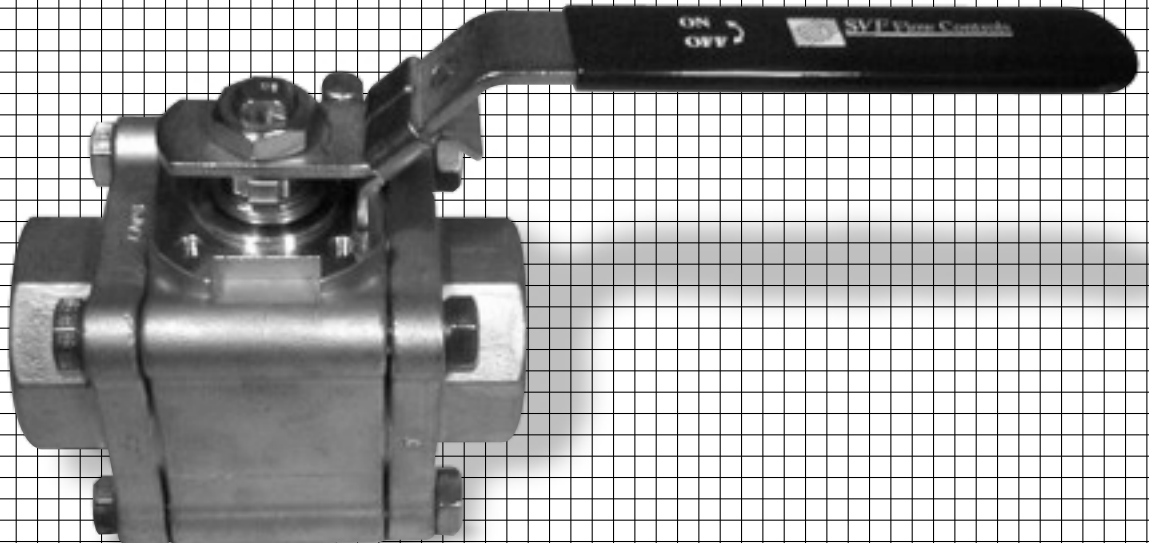
ANTI-STATIC
API-607-4th EDITION

**Fire Tested
Ball Valves**

Size Range:	Standard Port 1/4" - 2" Full Port 1/4" - 2"
End Connections:	NPT, SW, ANSI 150# - 300#
Valve Materials:	316SS, CS
Ball & Stem Materials:	316SS
Seat Materials:	RPTFE, PTFE
Stem seal:	Graphoil
Body seal:	Graphoil

Service Applications

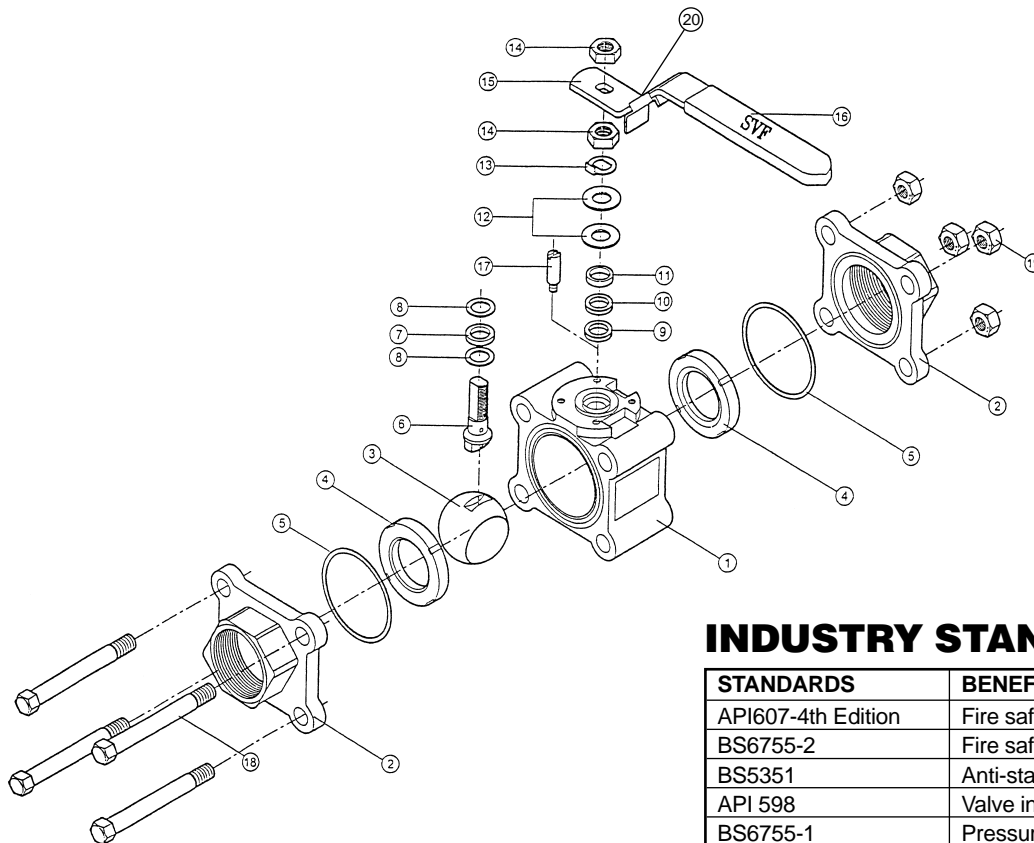
For petroleum and other flammable applications throughout the refining, chemical and petro-chemical industries.



FS7 AND FSB7 VALVE COMPONENTS

Item #	Part Name	Material	Qty.
1	Body	CF8M/WCB	1
2	End Cap	CF3M/WCB	2
3	Ball	SS316	1
4	Seat	RTFE	2
5	Body Seal	Graphite	2
6	Stem	SS316	1
7	Thrust Washer	Graphite	1
8	Thrust Washer	RTFE	2
9	Stem Packing	Graphite	1
10	Stem Packing	RTFE	1

Item #	Part Name	Material	Qty.
11	Follower	SS304	1
12	Belleville Washer	SS301	2
13	Tab Washer	SS304	1
14	Stem Nut	SS304	2
15	Handle	SS304	1
16	Handle Cover	Plastic	1
17	Stop Pin	SS304	1
18	Bolt	SS304	4
19	Nut	SS304	4
20	Latch Lock	SS304	1



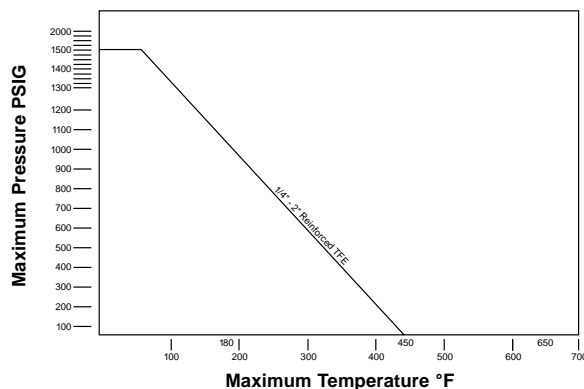
INDUSTRY STANDARDS

STANDARDS	BENEFITS
API607-4th Edition	Fire safe
BS6755-2	Fire safe
BS5351	Anti-static
API 598	Valve inspection and testing
BS6755-1	Pressure testing of valves
MSS-SP72	Ball valves for general service
ANSI B16-34	Wall thickness
NACE MR1075	

PERFORMANCE DATA

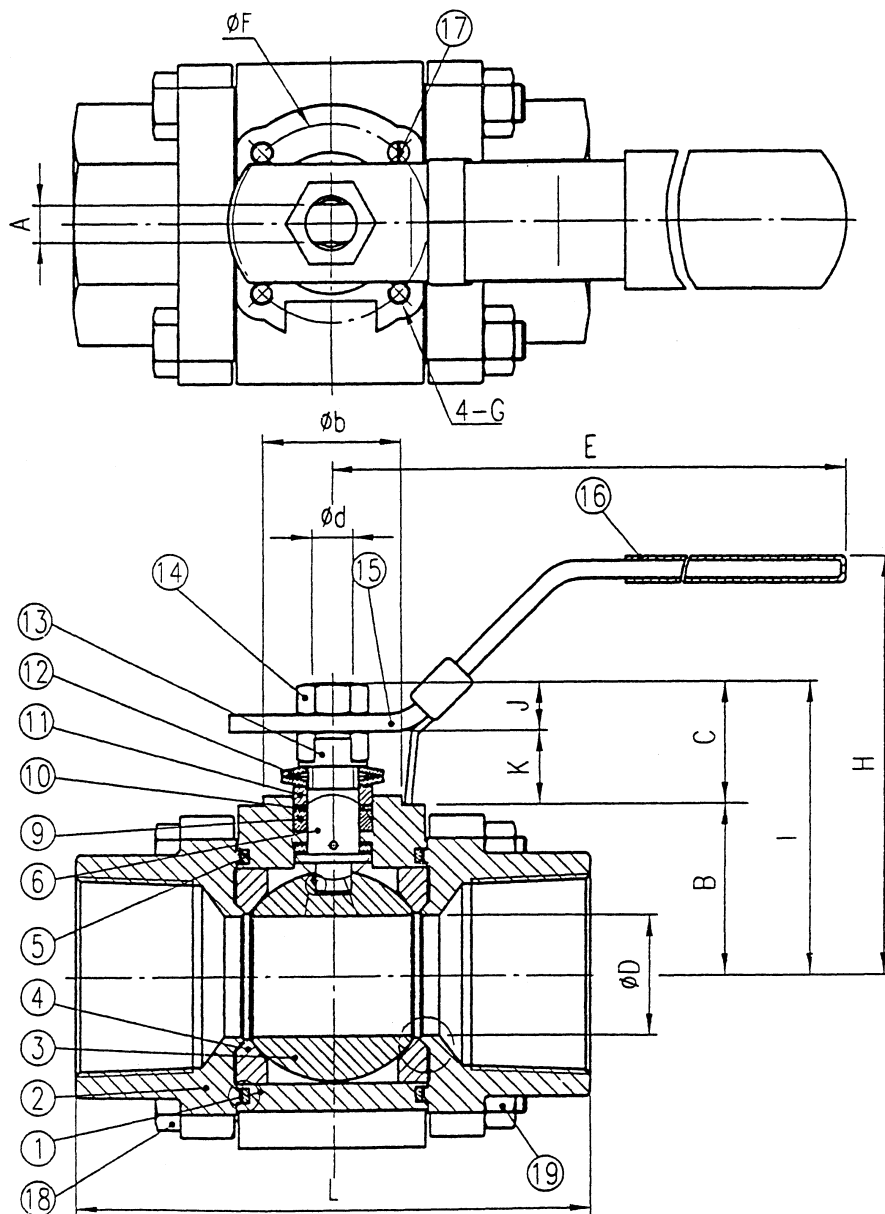
Valve Size		Approximate Flow Coeff. Cv	Equiv. Length of Sched. 40 Pipe Feet
FS7	FSB7		
1/4	--	8	1.9
3/8	--	8	1.9
1/2	--	8	1.9
3/4	1/2	12	5.5
1	3/4	32	3.0
1 1/4	1	57	3.1
1 1/2	1 1/4	80	3.9
2	1 1/2	104	7.5
--	2	240	5.0

PRESSURE-TEMPERATURE DATA



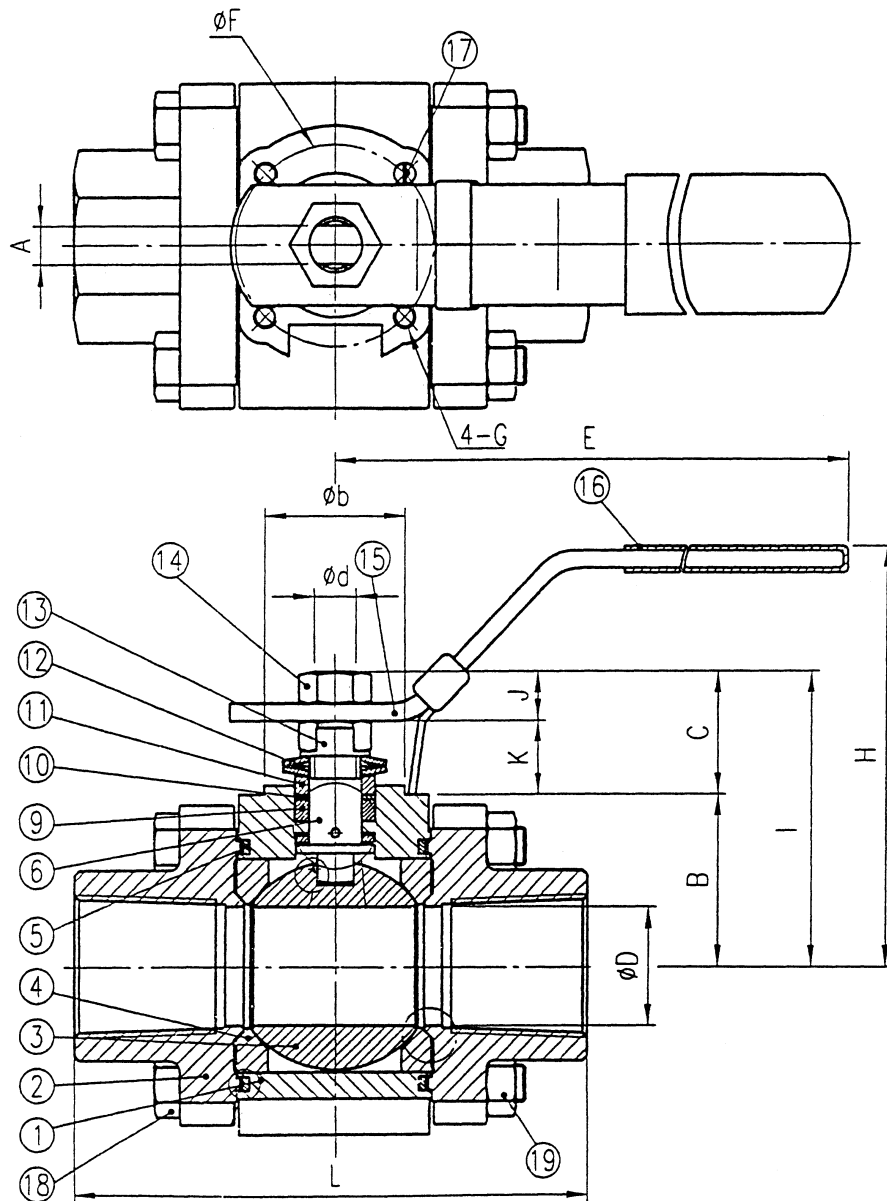
Due to continuous development of our product range, we reserve the right to change the information contained in this leaflet as required.

FS7 DIMENSIONS & WEIGHTS 1/4" - 2" (Standard Port)



Size	ϕD	A	B	C	E	ϕF	G	H	I	J	K	L	ϕb	ϕd	ISO5211	Approx. Wt. (lbs)
1/4-1/2"	0.39	0.26	1.16	0.31	5.12	36	M5	2.5	1.54	0.22	0.1	2.71	0.98	0.37	FOR F03	1.8
3/4"	0.59	0.26	1.14	0.67	5.12	36	M5	2.73	1.85	0.31	0.36	2.85	0.98	0.37	FOR F03	2.1
1"	0.79	0.26	1.3	0.73	5.12	36	M5	2.91	2.13	0.36	0.37	3.36	0.98	0.37	FOR F03	3.9
1-1/4"	0.98	0.31	1.42	1.03	6.5	42	M5	3.44	2.44	0.41	0.62	4.15	1.18	0.44	FOR F04	5.2
1-1/2"	1.26	0.31	1.57	0.96	6.5	42	M5	3.64	2.64	0.29	0.67	4.37	1.18	0.44	FOR F04	7.6
2"	1.5	0.38	1.86	1.23	7.48	50	M6	4.13	3.11	0.51	0.72	5.01	1.38	0.56	FOR F05	11

FSB7 DIMENSIONS & WEIGHTS 1/4" - 2" (Full Port)



Size	ØD	A	B	C	E	F	G	H	I	J	K	L	Øb	Ød	ISO5211	Approx. Wt. (lbs.)
1/4	0.39	0.26	1.16	0.31	5.12	1.42	M5	2.5	1.54	0.22	0.1	2.72	0.98	0.37	FOR F03	1.8
3/8	0.39	0.26	1.16	0.31	5.12	1.42	M5	2.5	1.54	0.22	0.1	2.71	0.98	0.37	FOR F03	1.8
1/2	0.59	0.26	1.14	0.67	5.12	1.42	M5	2.73	1.85	0.31	0.36	2.85	0.98	0.37	FOR F03	2.1
3/4	0.79	0.26	1.3	0.73	5.12	1.42	M5	2.91	2.13	0.36	0.37	3.36	0.98	0.37	FOR F03	3.9
1	0.98	0.31	1.42	1.03	6.5	1.65	M5	3.44	2.44	0.41	0.62	4.15	1.18	0.44	FOR F04	5.2
1-1/4	1.26	0.31	1.57	0.96	6.5	1.65	M5	3.64	2.64	0.29	0.67	4.37	1.18	0.44	FOR F04	7.6
1-1/2	1.5	0.38	1.86	1.23	7.48	2	M6	4.13	3.11	0.51	0.72	5.01	1.38	0.56	FOR F05	11
2	1.97	0.38	2.74	1	7.48	2	M6	4.82	3.76	0.45	0.55	5.71	1.38	0.56	FOR F05	13

SVF FIRE TESTED BALL VALVES MEET THE LATEST STANDARDS OF API-607-4TH EDITION

Design Features

Metal-to-Metal Secondary Seats - In the enormous heat of an industrial fire the soft seat is totally sublimated. The floating ball moves down stream and seats against the metal secondary seat to form a tight seal.

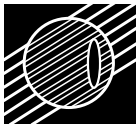
Beveled Stem Seal - This specially designed configuration assures that there is no external leakage. Our beveled stem design provides metal to metal sealing as pressurized fluids in the valve force the stem into the stem opening of the body.

Graphite Body Seal - Graphite is a remarkable, high temperature body seal material capable of withstanding the heat of a fire. To assure body seal integrity during and after a fire, graphite seals are used in all of our fire-tested ball valves.

Anti-static feature - All SVF fire tested ball valves are designed with positive grounding to eliminate static charges from the energy of the flowing media or from external sources.

The API-607 4th Edition Standard - This is the designation for a fire test developed by the American Petroleum Institute for soft seated valves. The test measures the ability of a ball valve to withstand and to retard the propagation of a fire. SVF series FS7 and FSB7 valves are tested and pass this standard.

DESIGN FEATURES OF THE SVF FIRE TESTED BALL VALVE



AUTOMATED PRODUCTS

SVF three-piece fire tested valve design readily lends itself to automation with either factory assembly or in-field retrofit.

Pneumatic Actuators

- Double Acting
- Spring Return
- Solenoids
- Limit Switches
- Positioners 3-15 PSI
- Positioners 4-20 MA

Electric Actuators

- 120 VAC
- 12/24 VDC
- NEMA 4/7
- Positioners 4-20 MA
- Reversing

Manual Valves

- Oval Handle
- Spring-Return
- Stem Extensions
- Fusible Link
- Locking Device

HOW TO ORDER

SIZE	STYLE	BODY & END MATERIAL	BALL & STEM MATERIAL	SEAT	SEAL	ENDS
1/4"	Standard Port	4 - Carbon Steel	6 - 316 Stainless Steel	R - Reinforced Teflon	G-Graphoil	SE - Screwed
3/8"	FS7	6 - Stainless Steel		T - Teflon*		SW-Socket Weld
1/2"		316 Body (316L ends)				150 - 150 ANSI Flanged
3/4"	Full Port					300 - 300 ANSI Flanged
1"	FSB7					(All stainless steel ends are 316L)
1-1/4"						
1-1/2"						
2"						

*Teflon® is a registered TM of EI DUPONT.