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Publication S7400-101E Issue 05/16

SERIES 7400

Body

- Stainless Steel (A351-CF8M)
- Carbon Steel (A216-WCB)

Stem

- 316 Stainless Steel

ISO 5211 Mounting Plate

Seat

- TFM*
- RPTFE
- PEEK
- ALTA

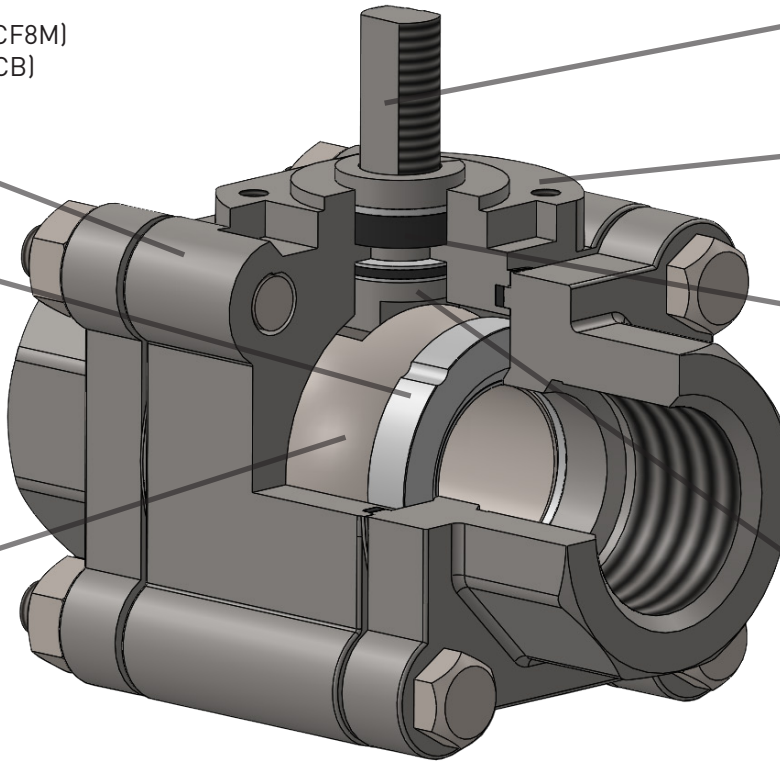
Packing

- RPTFE

Ball

- 316 Stainless Steel

Anti-Static Stem



DESIGN CHARACTERISTICS

BODY:

The three piece body allows the valve to be easily disassembled. In addition, the body is designed for high pressure applications.

MOUNTING PLATE:

The mounting plate is designed to the ISO 5211 standard for the direct mounting of actuators, most gear operators and accessories.

ANTI-STATIC STEM

The stem is designed with an anti-static ball device that maintains constant metal contact with body and ball/stem assembly. This constant contact illuminates the possibility of static spark, if the body and pipe are properly grounded.

SEATS:

The seats can easily be replaced if the need arises. There are multiple seats available for different high performance applications.

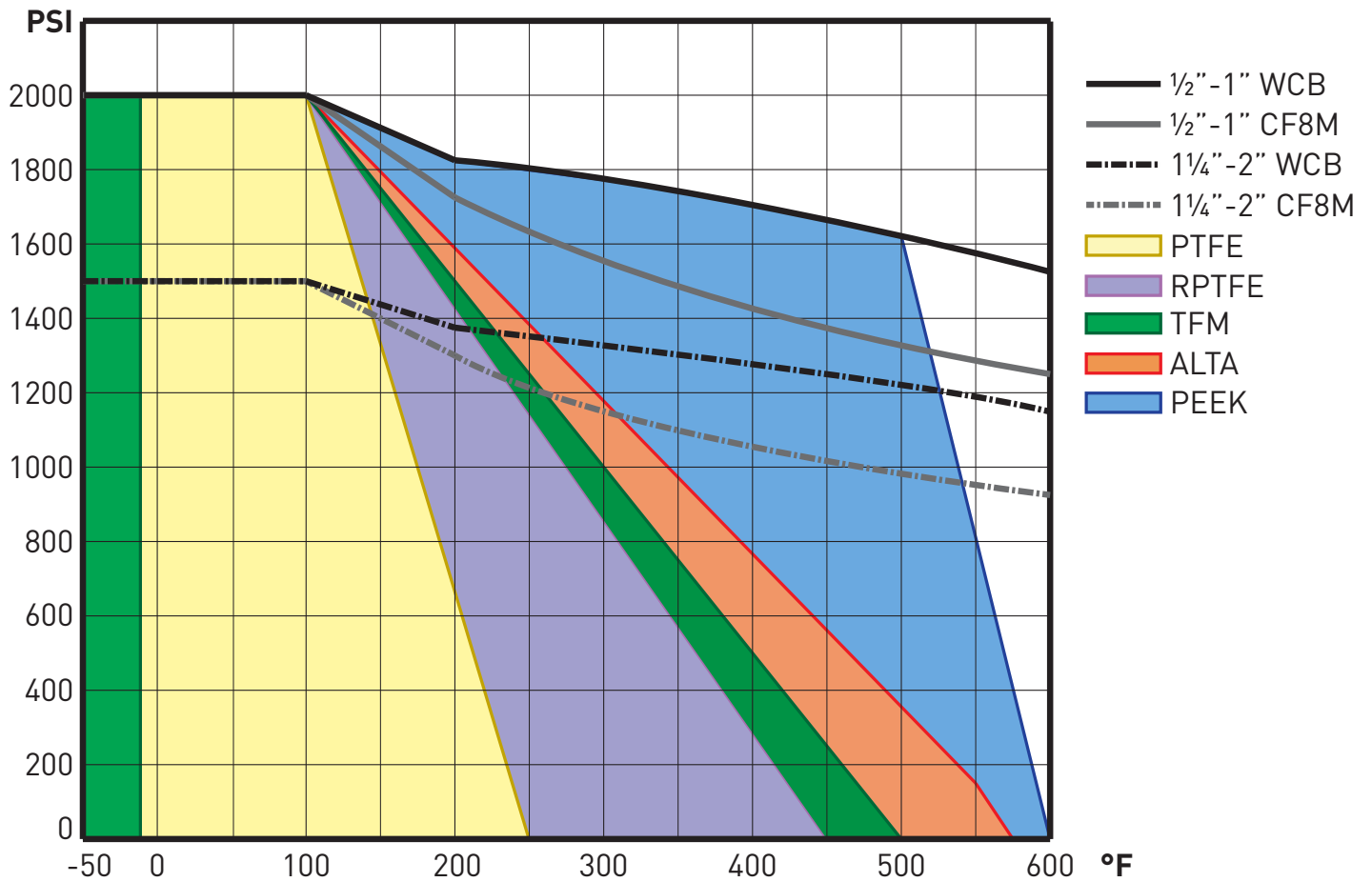
PACKING:

The packing offers proper alignment for the stem in the valve body and reduces the torque of the valve. The V-cup packing design offers great sealing properties with the stem and body. Different materials are offered for the packing rings.

BI-DIRECTIONAL SERVICE:

The Series 7100 ball valves are qualified for bi-directional use in ANSI Class 150 and 300 service.

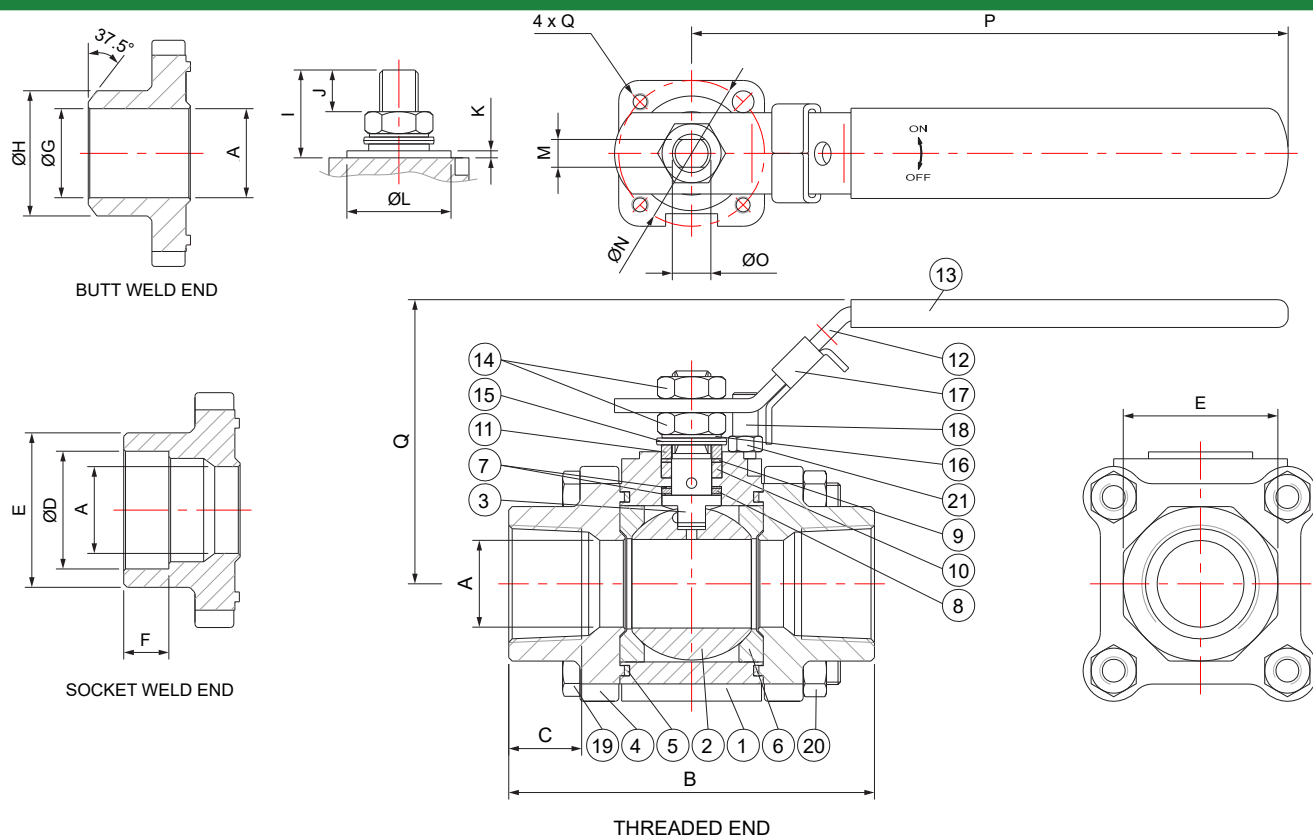
SEAT PRESSURE / TEMPERATURE RATING



SEAT TEMPERATURE RATINGS

Material	Temperature Rating °C (°F)
PTFE	4 to 121 (40 to 250)
RPTFE	-20 to 232 (-4 to 450)
TFM	-50 to 260 (-58 to 500)
PEEK	-20 to 315 (-4 to 600)
ALTA	-20 to 302 (-4 to 575)

Class 150 1/4" to 2" Valves



CLASS 150																			
PORT		DIMENSIONS (INCH)																	
IN	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	ISO
1/4"	0.39	2.55	0.63	0.56	1.16	0.39	0.39	0.70	0.33	0.25	0.02	0.98	0.26	1.42	0.37	5.23	2.45	M5X0.8	F03
3/8"	0.39	2.55	0.63	0.69	1.16	0.39	0.49	0.70	0.33	0.25	0.02	0.98	0.26	1.42	0.37	5.23	2.45	M5X0.8	F03
1/2"	0.59	2.85	0.66	0.85	1.18	0.39	0.59	0.86	0.65	0.31	0.08	0.98	0.26	1.42	0.37	5.23	2.72	M5X0.8	F03
3/4"	0.79	3.36	0.71	1.07	1.42	0.51	0.79	1.07	0.70	0.35	0.08	0.98	0.26	1.42	0.37	5.23	2.89	M5X0.8	F03
1"	0.98	4.15	0.83	1.33	1.75	0.51	0.98	1.33	1.00	0.47	0.08	1.18	0.31	1.65	0.44	6.76	3.22	M5X0.8	F04
1 1/4"	1.26	4.37	0.87	1.69	2.13	0.51	1.26	1.69	1.02	0.46	0.08	1.18	0.31	1.65	0.44	6.76	3.42	M5X0.8	F04
1 1/2"	1.50	5.01	0.98	1.92	2.36	0.51	1.50	1.92	1.25	0.59	0.09	1.38	0.38	1.97	0.56	8.04	3.84	M6X1.0	F05
2"	1.97	5.72	1.07	2.41	2.87	0.63	1.97	2.41	1.13	0.61	0.07	2.17	0.47	2.76	0.74	8.35	5.00	M8X1.25	F07

TORQUE AND WEIGHTS

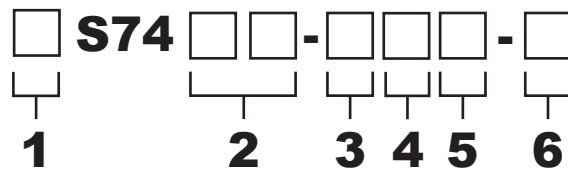
IN	DIN	TORQUE (in-lb)	WEIGHT (lb)
		CLASS 150	CLASS 150
1/4"	10	70	2.4
3/8"	10	70	2.4
1/2"	15	70	2.0
3/4"	20	130	3.0
1"	25	175	4.5
1-1/4"	32	305	6.1
1-1/2"	38	400	9.0
2"	50	575	15.6

VALVE MATERIAL LIST (1/4"-2")

NO.	PART	MATERIAL		QTY.
		STAINLESS STEEL	CARBON STEEL	
1	BODY	A351-CF8M	A216-WCB	1
2	BALL	A351-CF8M	A351-CF8M	1
3	STEM	SS316	SS316	1
4	CAP	A351-CF8M	A216-WCB	2
5	GASKET	GRAPHITE		2
6	SEAT	TFM*		2
7	THRUST WASHER	RPTFE		2
8	THRUST WASHER	GRAPHITE		1
9	STEM PACKING	RPTFE	RPTFE +25%GRAPHITE	1
10	STEM PACKING	GRAPHITE		1
11	SLEEVE	SS304		1
12	LEVER	SS304		1
13	LEVER COVER	PLASTIC		1
14	THIN NUT	SS304		2
15	BELLEVILLE WASHER	SS301		2
16	LOCK WASHER	SS304		1
17	LEVER LOCK	SS304		1
18	LEVER STOP	SS304		1
19	BOLT	B8	B7M	4
20	NUT	8	2HM	4
21	LEVER STOP NUT	SS304		1

*Standard Material - Seat Options Available

MODEL NUMBER BUILDER



1. Size
.25"
.375"
.5"
.75"
1"
1.25"
1.5"
2"

2. Body Rating	Code
NPT	00
Butt Weld End	01
Socket Weld End	02
Flange Class 150	15
Flange Class 300	30

3. Body Mtrl.	Code
Stainless Steel CF8M-A	S
Carbon Steel WCB-A216	C

4. Seat	Code
TFM	1
RPTFE	2
PEEK	3
ALTA	4
PTFE	5

5. Operator	Code
Handle *	0
Gear Operator	1
Extended Handle	2

6. Option	Code
Fire Safe	FS
Secondary Packing	2P

Please contact VSI for more information on other available options.

Other materials available via special order.



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A large, stylized 'VSI' logo in a bold, italicized font. The letters are white with a thick green outline, set against a green background with a repeating hexagonal pattern.

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