SVF Flow Controls

Series R81 Ball Valve

Three-Piece Forged Brass Ball Valve, Sizes 1/4" ~ 2"



The SVF Series R81 Standard Port Ball Valves represent the next generation in design and performance. These process-quality, high performance valves have been engineered and manufactured to meet all of the industry standards for quality and performance.

SERIES R81 DESIGN FEATURES

- High performance design for process-quality applications
- \checkmark Encapsulated body seals to facilitate welding without disassembly
- Live-loaded stem packing ensures seal-tight pressure containment even under thermal cycling
- Three-piece "swing out" design offers easy access for in-line maintenance
- ✓ ISO 5211 mounting pad for easy actuation
- ✓ Standard seat material is TFM1600[™]
- Blowout proof stem adds safety & reliability
- Stainless Steel externals hardware, stem and handle
- ✓ 316 Stainless Steel Ball and Stem

MATERIALS OF CONSTRUCTION

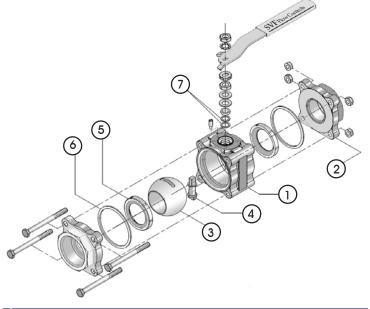
ITEM	DESCRIPTION	MATERIALS SPECIFICATIONS (Additional options available)
1	Body	Forged Brass (ASTM B283 C3770)
2	End Connector	Forged Brass (ASTM B283 C3770)
3	Ball	316 Stainless Steel (ASTM A351 CF8M)
4	Stem	316 Stainless Steel (ASTM A276)
5	Seat	TFM1600™, Delrin®, UHMWPE, SupraLon™
6	Body Seal	PTFE, Buna "N″, SupraLon™ ,
		UHMWPE, Viton [®] , EPDM
7	Stem Seal	SupraLon™











SPECIFICATION STANDARDS OF COMPLIANCE

SVF Series R81 Ball Valves are available in designs that meet the following Industry Standards:							
 ANSI 	• DIN	• BPE					
ASME	• ISO	NACE					
• API	• MSS	ASTM					
Contact SVF for specific applications							



www.**SVF**.net

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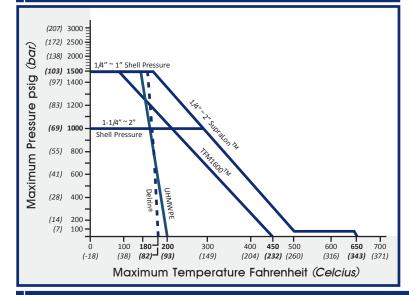
R81

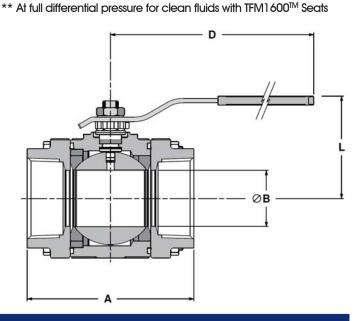
DIMENSIONS, WEIGHT, CV, TORQUE

Size	in.	A mm	in.	3 <i>mm</i>	in.	⊃ ∣mm	in.	L mm	Wei Ibs	ght. ⊨ <i>kg</i>	Cv	Torqu in-Ib _f	Je** Nm
1/4″ *	2.60	66	0.44	11	5	127	1.8	46	2	0.9	3	45	5
3/8" *	2.60	66	0.44	11	5	127	1.8	46	2	0.9	5	45	5
1/2″	2.60	66	0.44	11	5	127	1.8	46	2	0.9	8	45	5
3/4"	2.81	71	0.56	14	5	127	1.9	48	2	0.9	12	45	5
]"	3.70	94	0.81	21	6	152	2.4	61	4	1.8	32	100	11
1-1/4″	4.25	108	1.00	25	6	152	2.6	66	5	2.3	57	130	15
1-1/2″	4.57	116	1.25	32	7	178	3.2	81	7	3.2	80	280	32
2″	5.04	128	1.50	38	7	178	3.3	84	11	5.0	104	360	41

* 1/4" and 3/8" are Full Port

R81 - PRESSURE/TEMPERATURE CHART





HOW TO ORDER SERIES R81 BALL VALVES

SERIES	BODY & END MATERIAL	BALL & STEM MATERIAL	SEAT	BODY SEAL	ENDS	SIZE		
R8 = Standard Port	11 = Forged Brass ASTM B283 C3770	ASTM A351 CF8M Ball	$A = TFM1600^{TM}$		Screwed Ends (FNPT)	02 = 1/4"* 10 = 1"		
		A276 316 Stem	D = Delrin®	B = Buna "N"	TE =	03= 3/8"* 12= 1-		
			$\mathbf{U} = \mathbf{U}\mathbf{H}\mathbf{M}\mathbf{W}\mathbf{P}\mathbf{E}$	$\mathbf{S} = \mathrm{SupraLon}^{\mathrm{TM}}$	Sweat Ends	05 = 1/2" 15 = 1-		
			$\mathbf{S} = \mathbf{SupraLon}^{\mathrm{TM}}$	$\mathbf{U} = \mathbf{U}\mathbf{H}\mathbf{M}\mathbf{W}\mathbf{P}\mathbf{E}$		07 = 3/4" 20 = 2"		
				$V = Viton^{\ensuremath{\mathfrak{R}}}$				
				$\mathbf{E} = EPDM$		*1/4" and 3/8" are Full Port		
Order Example: (R81166ATSE05)							
Example Description: Forged Brass Body & Ends, 316 Stainless Steel Ball & Stem, TFM1600™ Seat, PTFE Body Seal, Screwed Ends (FNPT), ½″ Size								
R8	11	66	A	Т	SE	05		
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