

Triac 90 Series Flanged Ball Valves feature a split body design. The high quality investment castings feature a fully machined bore. The superior live-loaded packing system is accomplished with Bellville washers, "V" ring packing and a unique primary pyramidal stem seal. This advanced sealing system provides for protection against stem leaks experienced by ordinary ball valves.



VALVE SIZE	VALVE Cv
1/2"	15
3/4"	45
1"	85
1-1/2"	275
2"	460
2-1/2"	700
3"	1100
4"	2200
6"	5150
8"	10000

Reinforced RTFE seats are standard, but various options are available for seat materials. The 50/50 seat option is excellent for services that call for higher temperatures and more difficult applications including steam. Call us for details.

Easy to Automate!

See automated data sheets for pre-sized assemblies



Pneumatic



Electric



Series 90/93* Split Body Flanged Ball Valve

Sizes 1/2" - 12" Available in 316SS or WCB ANSI Class 150# **Full port design** Superior live-loaded packing system ISO5211 actuator mounting pad Anti-static device Each valve traceable**

STANDARDS Design Face to Face ANSI B16.34 ANSI B16.10 Flange Dimensions Pipeline Valves ANSI B16.5 Pressure Testing Mounting Pad Marking System for Valves Material Ceryification Quality Assurance



API 6D API 598 ISO 5211 MSS SP-25 EN 10204 ISO 9001 **HOW TO ORDER**

MANUAL VALVES SAMPLE PART # 90C-F1-0300-XXX



See part number matrix for itemized options

*Series 93 denotes sand cast 6" and above TA-Luft certification applies to Series 90 only

**MTRs available - call for details

A-T Controls, Inc. Triac Division 11363 Deerfield Rd. Cincinnati, Ohio 45242

PHONE(513) 247-5465 FAX (513) 247-5462 e-mail: sales@a-tcontrols.com www.a-tcontrols.com

Series 90/93

High Performance, Full Port Split Body Flanged Ball Valve Series 90 (ANSI Class 150#)





Pressure vs. Temperature Chart



NOTE: Dotted line shows the rating for valve body. Solid line shows the rating for valve seat. Both ratings need to be consulted when determining the limitation of the valve for specific application.

Consult factory for other seat material.

MATERIALS LIST



NOTE: RTFE Seats Consult factory when using other seat material.

NO.	PART NAME	QTY.	MATE Stainless Steel	RIAL Carbon Steel
1	Body	1	CF8M	WCB
2	End Cap	1	CF8M	WCB
3	Ball	1	SS316	SS316
4	Seat	2	RTFE	RTFE
5	Joint Gasket	1	PTFE	PTFE
6	Stem	1	SS316	SS316
7	Stem Seal	1	RTFE	RTFE
8	Gland Packing	&	PTFE	PTFE
9	Gland Packing	1	RTFE	RTFE
10	Gland Bush	1	SS304	SS304
11	Belleville Washer	2	SS301	SS301
12	Locking Plate	1	SS304	SS304
13	Stop Washer	1	SS304	SS304
14	Stem Nut	2	SS304	SS304
15	Locking Device	1	SS304	SS304
16	Handle	1	SS304	SS304
17	Handle Sleeve	1	Vinyl	Vinyl
18	Stop Pin	1	SS304	SS304
19	Bolt	*	SS304	SS304
20	Nut	*	SS304	SS304
21	O-Ring	1	Viton®	Viton®
22	Handle Nut	1	SS304	SS304
23	Anti-Static Device	@	SS304	SS304

& For 1/2" - 1", Qty.=2
& For 1-1/2" - 12", Qty.= 3
* For 1/2" - 2", 4 pcs. of studs and nuts
* For 2-1/2" - 8", 8 pcs. of studs and nuts
@ For 1/2" - 8", 8 pcs. of studs and nuts

DIMENSIONS (IN) INVESTMENT CAST BODY

ØQ x NN

SIZE	А	В	С	D	Е	F	I	J	L	N	Q	W	W1	Y	Z	AB	AC	AD	DD	NN	(LBS)	ISO 5211
1/2"	0.59	0.315	6.69	1.34	0.92	3.15	1.47	2.38	4.26	3.50	0.63	0.44	0.06	0.36	M5	1.82	1.17	0.43	1.654	4	3.7	F04
3/4"	0.79	0.315	6.69	1.65	0.94	3.43	1.82	2.75	4.62	3.88	0.63	0.44	0.06	0.40	M5	2.17	1.17	0.43	1.654	4	4.6	F04
1"	0.98	0.382	8.05	1.95	0.94	3.85	2.08	3.13	5.00	4.26	0.63	0.44	0.06	0.42	M6	2.20	1.37	0.56	1.969	4	3.1	F05
1-1/2"	1.50	0.472	10.28	3.08	1.37	6.02	2.88	3.88	6.50	5.00	0.63	0.56	0.06	0.58	M8	2.81	2.17	0.75	2.756	4	13.6	F07
2"	1.97	0.472	10.28	3.40	1.37	6.38	3.62	4.75	7.02	6.00	0.75	0.63	0.06	0.58	M8	3.38	2.17	0.75	2.756	4	19.2	F07
2-1/2"	2.56	0.472	10.28	3.83	1.37	6.81	4.12	5.50	7.49	7.00	0.75	0.69	0.06	0.58	M8	3.02	2.17	0.75	2.756	4	30.0	F07
3"	3.15	0.591	13.94	4.23	1.81	6.95	5.00	6.00	8.01	7.50	0.75	0.75	0.06	0.93	M10	4.01	2.76	0.94	4.016	4	41.0	F10
4"	3.94	0.591	13.94	4.82	1.79	7.52	6.19	7.50	9.04	9.00	0.75	0.94	0.06	0.93	M10	4.06	2.76	0.94	4.016	8	65.0	F10

SAND CAST BODY

12																					_		_
	6"	6.00	0.910	21.00	6.61	2.64	11.25	8.50	9.50	15.51	10.98	0.87	1.00	0.06	1.57	1/2-13	7.06	CF	1.34	4.921	8	168.0	F12
I	8"	8.00	0.910	N/A	8.86	2.40	13.26	10.63	11.75	17.99	13.50	0.87	1.13	0.06	1.26	1/2-13	8.40	CF	1.34	4.921	8	232.0	F12
I	10"	9.84	1.181	N/A	10.43	3.94	15.86	12.76	14.25	20.98	15.98	0.98	1.21	0.06	1.42	5/8-11	CF	CF	1.97	5.512	12	430.0	F14
	12"	11.81	1.378	N/A	12.83	4.09	18.18	15.00	17.00	24.02	19.02	0.98	1.25	0.06	1.50	5/8-11	CF	CF	1.97	5.512	12	551.0	F14

20120215_90_93M

Viton® is a registered trademark of E.I. DuPont de Nemours. A-T Controls reserves the right to change product designs and technical/dimensional specifications without notice.



Triac Division A-T Controls, Inc. 11363 Deerfield Rd. Cincinnati, Ohio 45242

PHONE (513) 247-5465 FAX (513) 247-5462 e-mail: sales@a-tcontrols.com www.a-tcontrols.com