



Ball Valves in investment cast stainless 2-way, 3-piece construction

Can be combined with...



Type 205x
Pneumatic
actuator



879x
Positioner



Type 3003
Electric
actuator



Type 3004
Electric
Actuator Ex



Type 3005
Electric
actuator

- 1000 / 800 PSI WOG
- Thread, socket and butt weld ends
- Full Port to Schedule 40 pipe
- Semi lugged body
- Blow-out proof stem with adjustable packing
- Anti-Static device

This Bürkert ball valve design is an industry proven three piece investment cast body with PTFE/FKM sealing. It finds wide use in fluid media while offering higher cycle life with reduced torque. The self-adjusting packing gland is a dual sealing type with an alignment collar for superior tightness.

The Type 2654 is automation ready with an ISO 5211 mounting pad for direct coupling of the actuator. A full range of actuators, pilot valves, digital positioners, feedback switches and bus network options are available for integration into plant control systems.

For maintenance, this design allows removal of all seals with just four bolts. The semi lugged body provides for easy re-assembly without the debris pockets of enclosed bolt designs. The ball is full port style, presenting a Kv and pressure drop similar to an open line, without restriction to high flow or entrained solids.

Technical data

Valve Size	½" – 4" (DN15 – DN100)
Valve body material	ASTM A351 CF8M
Port Diameter class	Full port, schedule 40 pipe
Ball Seal Material	PTFE / TFM 1600/4215
Media	Compatible with materials of construction and pressure/temperature limits of seals
Viscosity	As torque effect allows
Packing Gland	Self-adjusting RPTFE, PTFE and FKM with 304SS guide
Media Temperature	-20°C - 190°C (PTFE), 230°C (TFM1600), 280°C (PEEK)
End Connections	BSPP NPT Socket Weld to schedule 40 pipe OD Butt Weld to schedule 40 pipe ID and OD
Flow Direction	Bi-Directional Seats
Control Option	Size to conditions or V-Port Ball
Pressure Class	1000 PSI / PN63 - ¼" - 2" 800 PSI / PN55 - 2½" - 4"
Options	Seats: RPTFE / PEEK / PTFE+50%St.St. PTFE / PFA Coating (40-70 um) V-Notch Ball for control valve in 15°, 30°, 60° and 90° slot Hastalloy C / Super duplex / Alloy 20 / Monel Fugitive emissions extension bonnet

2654
3-piece direct mount

Ordering chart for ASTM A351 Gr. CF8M (316 SS) PTFE Seats

Size	Orifice [mm]	Seat material	Break torque (Nm)*		ISO 5211 mounting	Stem Size (mm ²)	Item no.			
			Greased	Non-Greased			BSP	NPT	BW	SW
¼"	11.0	PTFE	3.5	5.0	F03 & F04	9	93951479	93951545	93951523	93951501
3/8"	12.5	PTFE	3.5	5.0	F03 & F04	9	93951480	93951546	93951524	93951502
½"	15.0	PTFE	5.0	6.0	F03 & F04	9	93951481	93951547	93951525	93951503
¾"	20.0	PTFE	5.5	7.0	F03 & F04	9	93951482	93951548	93951526	93951504
1"	25.0	PTFE	7.0	9.5	F04 & F05	11	93951483	93951549	93951527	93951505
1¼"	32.0	PTFE	11.0	16.0	F04 & F05	11	93951484	93951550	93951528	93951506
1½"	38.0	PTFE	17.0	27.0	F05 & F07	14	93951485	93951551	93951529	93951507
2"	50.0	PTFE	23.0	30.0	F05 & F07	14	93951486	93951552	93951530	93951508
2½"	65.0	PTFE	35.0	68.0	F07 & F10	17	93951487	93951553	93951531	93951509
3"	80.0	PTFE	46.0	85.0	F07 & F10	17	93951488	93951554	93951532	93951510
4"	100.0	PTFE	72.0	105.0	F10 & F12	22	93951489	93951555	93951533	93951511

Ordering chart for ASTM A351 Gr. CF8M (316 SS) TFM1600 Seats

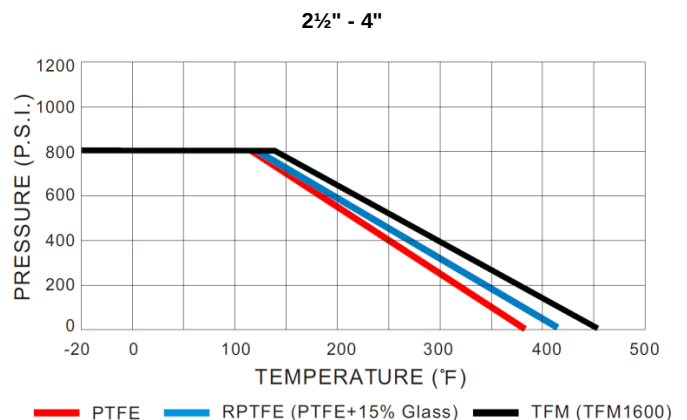
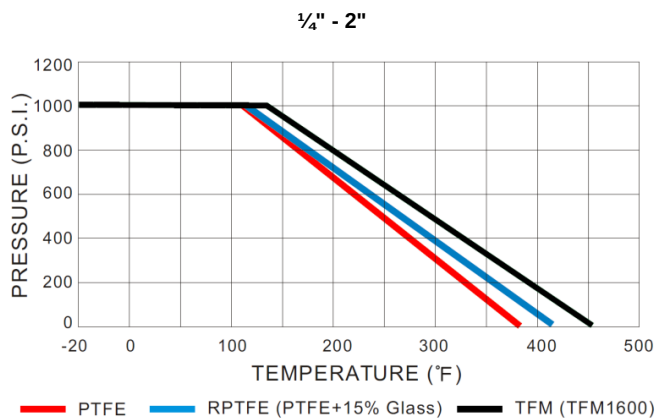
Size	Orifice [mm]	Seat material	Break torque (Nm)*		ISO 5211 mounting	Stem Size (mm ²)	Item no.			
			Greased	Non-Greased			BSP	NPT	BW	SW
¼"	11.0	TFM1600	3.7	5.3	F03 & F04	9	93951744	93951810	93951788	93951766
3/8"	12.5	TFM1600	3.7	5.3	F03 & F04	9	93951745	93951811	93951789	93951767
½"	15.0	TFM1600	5.3	6.3	F03 & F04	9	93951746	93951812	93951790	93951768
¾"	20.0	TFM1600	5.8	7.4	F03 & F04	9	93951747	93951813	93951791	93951769
1"	25.0	TFM1600	7.4	10.0	F04 & F05	11	93951748	93951814	93951792	93951770
1¼"	32.0	TFM1600	11.6	16.8	F04 & F05	11	93951749	93951815	93951793	93951771
1½"	38.0	TFM1600	17.9	28.4	F05 & F07	14	93951750	93951816	93951794	93951772
2"	50.0	TFM1600	24.2	31.5	F05 & F07	14	93951751	93951817	93951795	93951773
2½"	65.0	TFM1600	36.8	71.4	F07 & F10	17	93951752	93951818	93951796	93951774
3"	80.0	TFM1600	48.3	89.3	F07 & F10	17	93951753	93951819	93951797	93951775
4"	100.0	TFM1600	75.6	110.3	F10 & F12	22	93951754	93951820	93951798	93951776

Ordering chart for ASTM A351 Gr. CF8M (316 SS) TFM4215 Seats

Size	Orifice [mm]	Seat material	Break torque (Nm)*		ISO 5211 mounting	Stem Size (mm ²)	Item no.			
			Greased	Non- Greased			BSP	NPT	BW	SW
¼"	11.0	TFM4215	3.9	5.5	F03 & F04	9	93953183	93953249	93953227	93953205
3/8"	12.5	TFM4215	3.9	5.5	F03 & F04	9	93953184	93953250	93953228	93953206
½"	15.0	TFM4215	5.5	6.6	F03 & F04	9	93953185	93953251	93953229	93953207
¾"	20.0	TFM4215	6.1	7.7	F03 & F04	9	93953186	93953252	93953230	93953208
1"	25.0	TFM4215	7.7	10.5	F04 & F05	11	93953187	93953253	93953231	93953209
1¼"	32.0	TFM4215	12.1	17.6	F04 & F05	11	93953188	93953254	93953232	93953210
1½"	38.0	TFM4215	18.7	29.7	F05 & F07	14	93953189	93953255	93953233	93953211
2"	50.0	TFM4215	25.3	33.0	F05 & F07	14	93953190	93953256	93953234	93953212
2½"	65.0	TFM4215	38.5	74.8	F07 & F10	17	93953191	93953257	93953235	93953213
3"	80.0	TFM4215	50.6	93.5	F07 & F10	17	93953192	93953258	93953236	93953214
4"	100.0	TFM4215	79.2	115.5	F10 & F12	22	93953193	93953259	93953237	93953215

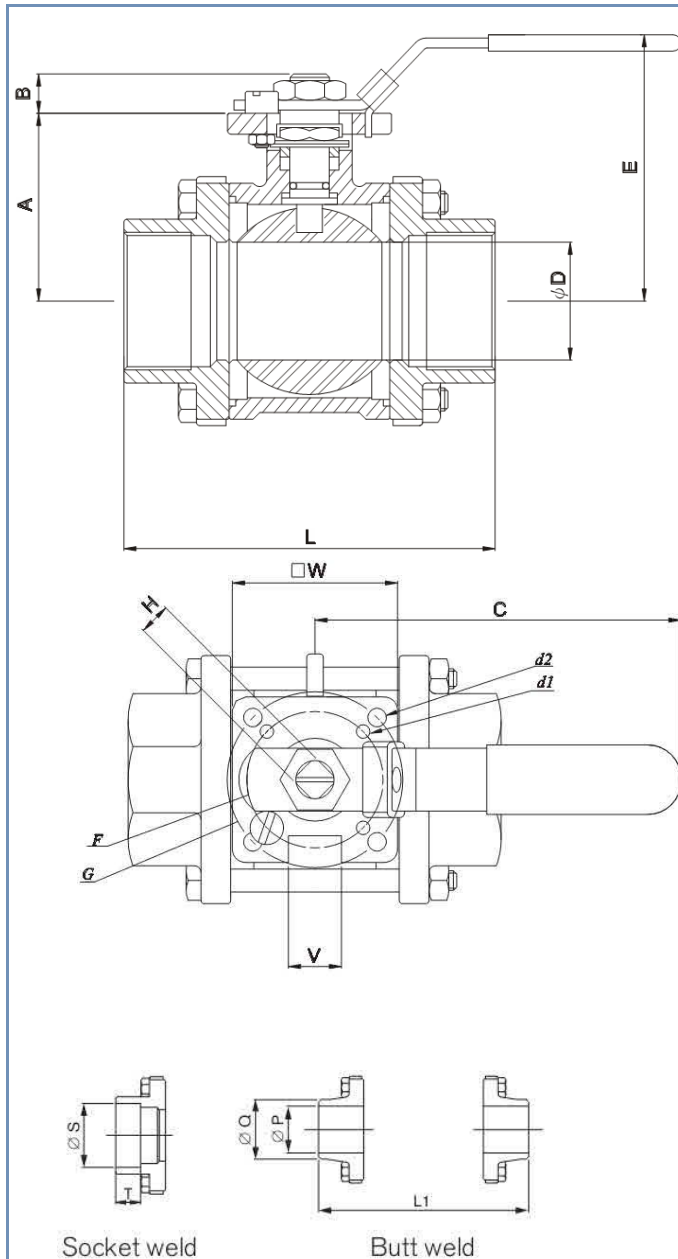
* Break Torque at Opsi - 30-100% should be added for actuation. depending on media

Pressure-temperature limits

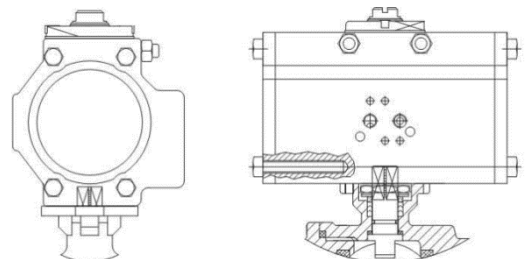


2654
3-piece direct mount

Parts list



Item	Part Name	Materials
1	End Cap	CF8M
2	Body	CF8M
3	Ball	SS 316
4	Seat	PTFE
5	Gasket	PTFE
6	Bolts	SS 304
7	Thrust Washer	RPTFE
8	O-Ring	FKM
9	Stem packing	PTFE
10	Stem	SS 316
11	Gland	SS 304
12	Disk Washer	SS 304
13	Stem nut	SS 304
14	Nut stop	SS 304
15	Space washer	SS 304
16	Handle nut	SS 304
17	Handle	SS 304
18	Handle Cover	Plastic
19	Stop pin	SS 304
20	Nut	SS 304



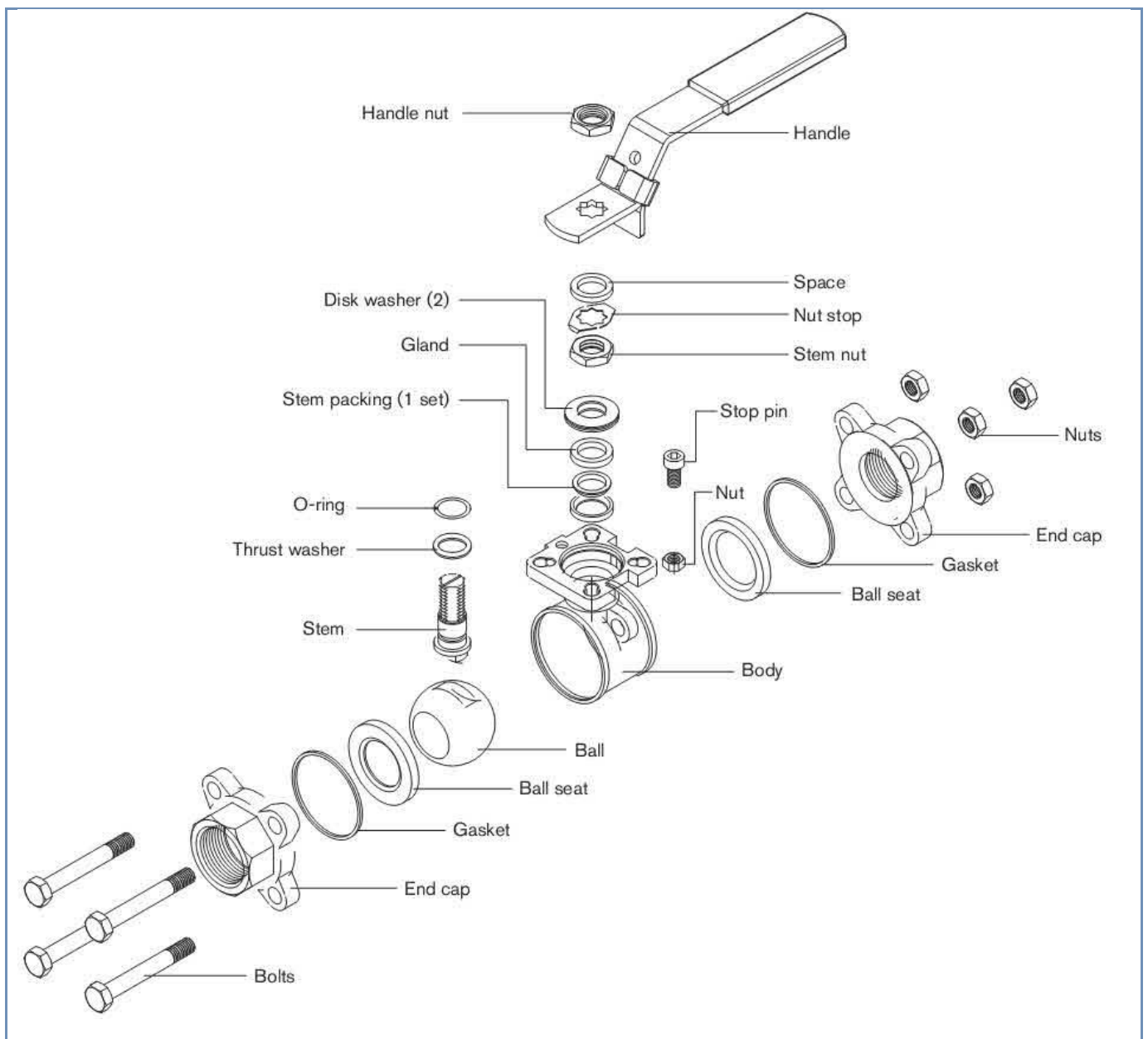
ISO direct mount for directly assembling actuator.

- Pneumatic (DA or SR) – Electric actuator
- Solenoid valve – Limit Switch Box – EP

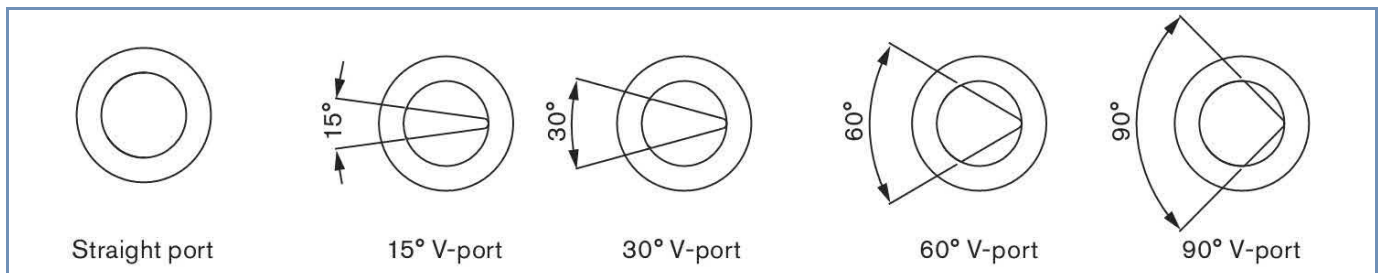
Dimensions [mm]

Size	A	B	C	D	d1	d2	E	F	G	H	L	S	T	P	Q	L1	V	W
1/4"	37	11	130	11	6.0	6.0	58	36	42	9	60.5	14.2	11.1	10	17	60.5	19	44
3/8"	37	11	130	12.5	6.0	6.0	58	36	42	9	60.5	17.5	11.1	13.1	19	60.5	19	44
1/2"	37	11	130	15	6.0	6.0	58	36	42	9	63.5	21.8	12.7	15.5	21.5	63.5	19	44
3/4"	40	11	130	20	6.0	6.0	64	36	42	9	75.5	27.1	14.3	20.6	27.5	75.5	19	44
1"	48	14	155	25	6.0	7.0	77	42	50	11	86	33.8	15.9	26.7	34.5	86	24	52
1 1/4"	53.5	14	155	32	6.0	7.0	83	42	50	11	96	42.5	17.5	35.1	42.8	104	24	52
1 1/2"	63.5	18	205	38	7.0	9.0	92	50	70	14	111	48.7	19.1	40.5	49	117	28	53
2"	72	18	205	50	7.0	9.0	100	50	70	14	129	61.1	22.2	52.4	61	138	28	53
2 1/2"	92	22	290	65	9.0	11.3	140	70	102	17	152.5	73.9	22.2	65	77	170	-	-
3"	102	22	290	80	9.0	11.3	150	70	102	17	168.5	89.9	25.4	80	91	192	-	-
4"	132	26	335	100	11.3	13.5	195	102	125	22	212.5	115.2	32	100	115	226	-	-

Exploded view



V-ball for modulating controller



2654
3-piece direct mount

Ordering Chart for Accessories & Spares

Size	Repair Kit, complete set			Lockable Hand-Lever	End Caps			
	PTFE	TFM1600	TFM4215		BSP	NPT	BW#40	SW
1/4"	93920117	93920128	93920854	93920501	93920049	93920060	93920071	93920082
3/8"	93920118	93920129	93920855		93920050	93920061	93920072	93920083
1/2"	93920119	93920130	93920139		93920051	93920062	93920073	93920084
3/4"	93920120	93920131	93920140		93920052	93920063	93920074	93920085
1"	93920121	93920132	93920141	93920658	93920053	93920064	93920075	93920086
1 1/4"	93920122	93920133	93920142		93920054	93920065	93920076	93920087
1 1/2"	93920123	93920134	93920143	93920659	93920055	93920066	93920077	93920088
2"	93920124	93920135	93920144		93920056	93920067	93920078	93920089
2 1/2"	93920125	93920136	93920145	93920660	93920057	93920068	93920079	93920090
3"	93920126	93920137	93920146		93920058	93920069	93920080	93920091
4	93920127	93920138	93920147	93920661	93920059	93920070	93920081	93920092