

Ball Valves in cast 316 SS multi-port, bolted construction



- 800 PSI WOG
- Thread, socket and butt weld ends
- Full port to Sch 40 pipe
- 3/4/5 ports in L, X, T or I pattern
- Range of seal options
- Blow-out proof stem with self adjust packing
- ISO 5211 direct actuator mount

Type 2651 can be combined with...



Stem Extensions

Fugitive emissions bonnet



Type 2051

Pneumatic rotary actuator



Type 3003

Electric rotary actuator



Type 3004

Electric explosion proof actuator



Type 3005

Electric rotary actuator



Type 8792

Positioner


This Burkert ball valve design is an industry proven bolted investment cast body with PTFE/FKM sealing. It finds wide use in mixing, blending and diverting applications at reduced torque. The self-adjusting packing gland is a dual sealing type with an alignment collar for superior tightness.

The Type 2651 is automation ready with an ISO 5211 mounting pad for direct coupling of the actuator. A full range of actuators, pilots, digital positioners, feedback switches and bus network options are available for integration into plant control systems.

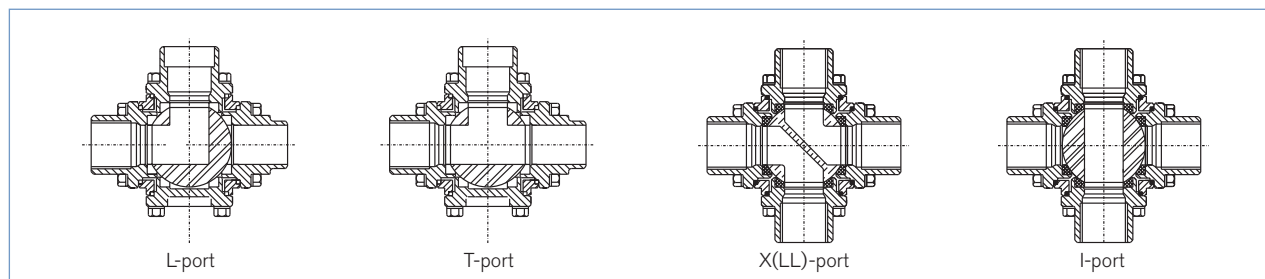
For maintenance, this design allows removal of all seals through four sides. The removable sides provide for clear seal access, and easy assembly by bolts directly inserted to the body. The ball is a full port style, presenting a C_v and pressure drop complimentary to high flow and entrained solids process applications.

Technical data	
Valve size	1/2" to 4"
Body materials	CF8M (cast 316 SS)
Ball material	316 SS
Stem material	316 SS
Port diameter class	Full port to Sch 40 pipe size
Ball seal material	PTFE (others to application)
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/follower
Media temperature	-20°F to 375°F (PTFE), 450°F (TFM)
End connections	NPT – National pipe thread tapered Socket weld – to schedule pipe OD Butt weld – to schedule 40 pipe ID and OD
Installation	As required
Flow direction	Seals to rated pressure in all directions
Control option	Size to conditions
Pressure rating	800 PSI – 1/2" to 4"
Flow pattern	"L" port standard, others on application

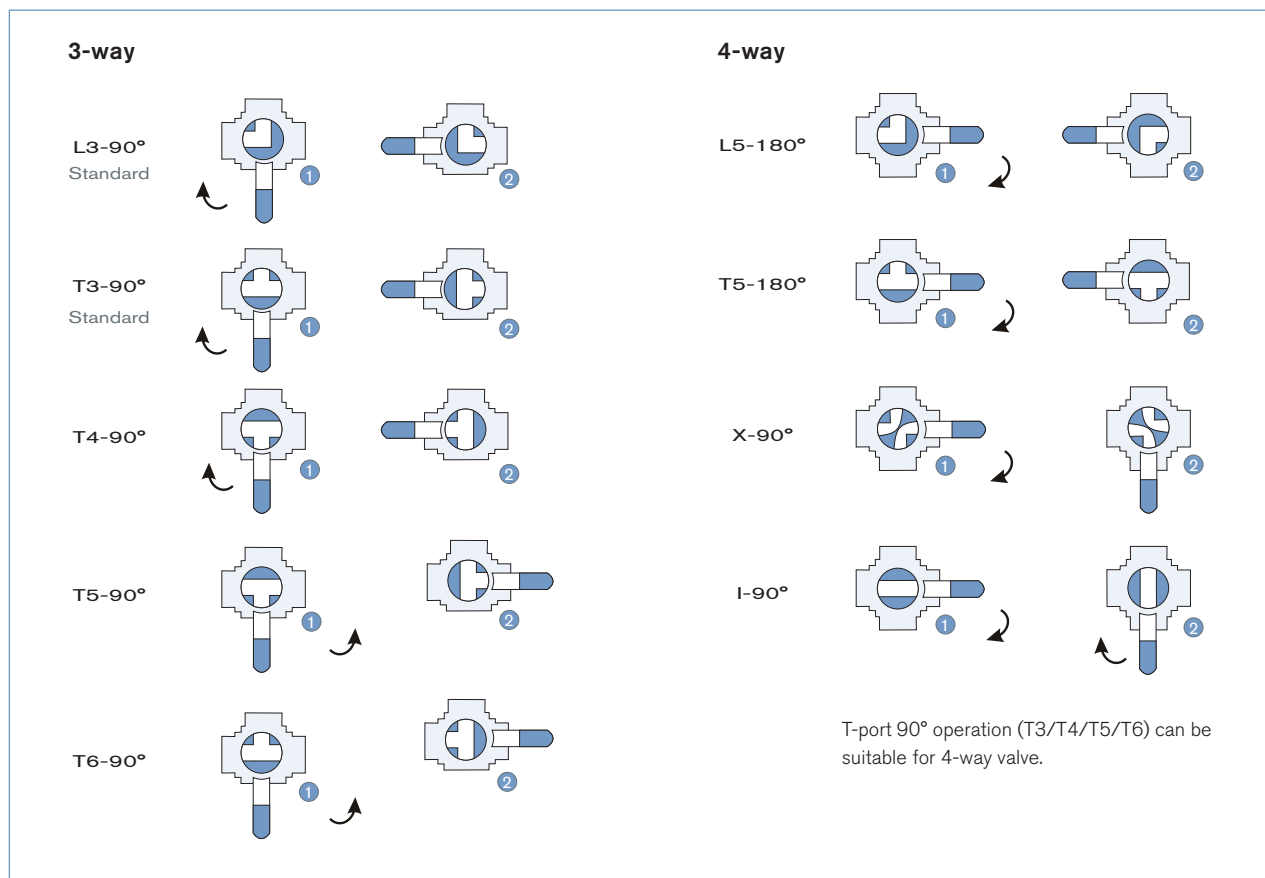
Ordering chart

	Type	Pressure class	Design	Valve size	End connection	Body material	Seal material	Option
	EXAMPLE 2651	800	4 port L	1"	SW	CF8M	PTFE	

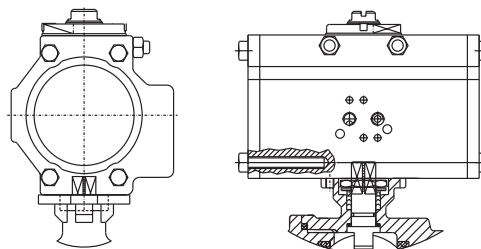
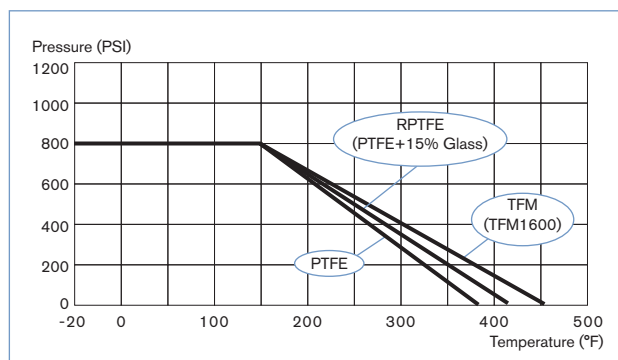
Port options



Flow patterns



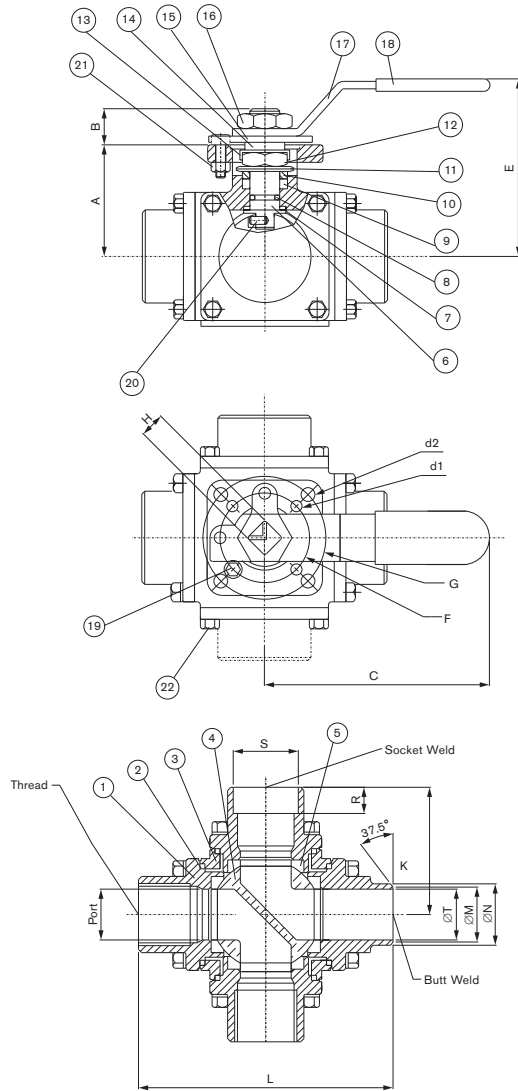
Pressure-temperature limits



ISO direct mount for directly assembling actuator.

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

Dimensions 1/4" – 2" [mm]

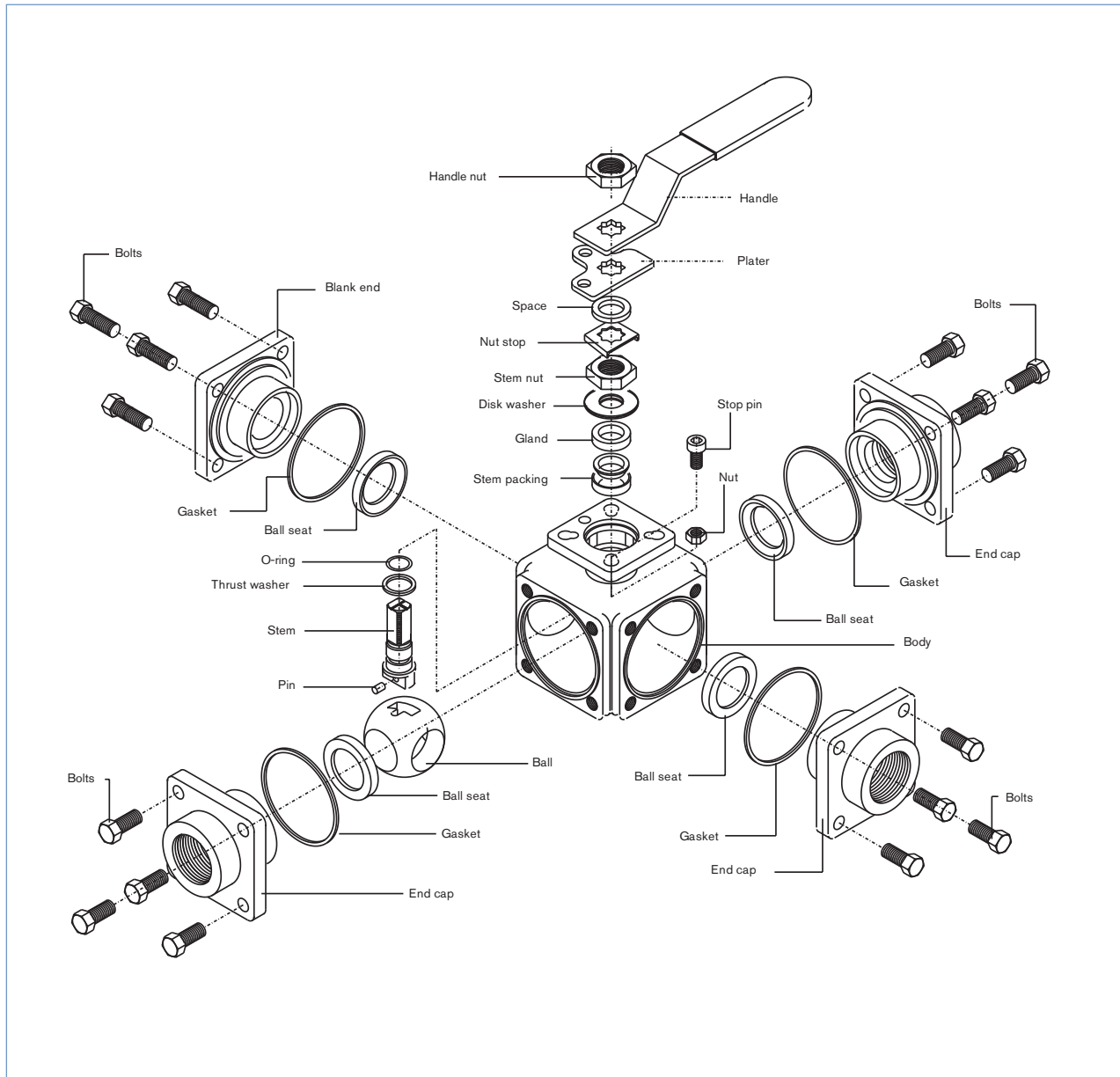


Item	Part Name	Materials
1	End cap	CF8M
2	Gasket	PTFE
3	Body	CF8M
4	Ball	SS 316
5	Seat	PTFE
6	Thrust washer	RPTFE
7	Stem	SS 316
8	O-ring	FKM
9	Stem packing	PTFE
10	Gland	SS 304
11	Disk washer	SS 301
12	Stem nut	SS 304
13	Nut stop	SS 304
14	Space washer	SS 304
15	Stopper plate	SS 304
16	Handle nut	SS 304
17	Handle	SS 304
18	Sleeve	Plastic
19	Stop pin	SS 304
20	Insert pin	SS 316
21	Stop pin nut	SS 304
22	Bolts	SS 304

Standard port	A	B	C	d1	d2	E	F	G	H	K	L	R	S	Port	3-way W (lb.)	4-way W (lb.)
1/2"	37.5	9.5	130	6.0	6.0	62	36	42	9	44	87	12.7	21.7	12.5	2.86	2.93
3/4"	42	11	130	6.0	6.0	64	36	42	9	52.5	104	14.3	27.1	15	4.49	4.60
1"	49	14	165	6.0	7.1	82	42	50	11	55.5	111	15.9	33.9	20	5.84	5.93
1 1/4"	55	14	165	6.0	7.1	89	42	50	11	64	127	17.5	42.5	25	8.77	9.03
1 1/2"	63	17	205	7.1	9.2	98	50	70	14	69	138	19.1	48.6	32	11.70	11.77
2"	74	16	205	7.1	9.2	108	50	70	14	79	158	22.2	61.1	38	18.45	18.56

Full port	A	B	C	d1	d2	E	F	G	H	K	L	R	S	Port	T	M	N	3-way W (lb.)	4-way W (lb.)
1/4"	37.5	9.5	130	6.0	6.0	62	36	42	9	44	87	11.1	14.2	10	10	12.5	17	2.86	2.91
3/8"	37.5	9.5	130	6.0	6.0	62	36	42	9	44	87	11.1	17.5	12.5	12	14.5	19	2.86	2.91
1/2"	42	11	130	6.0	6.0	64	36	42	9	52.5	104	12.7	21.7	15	15	17.5	21.5	4.45	4.51
3/4"	49	14	165	6.0	7.1	82	42	50	11	55.5	111	14.3	27.1	20	20	22.5	27.5	5.77	5.95
1"	55	14	165	6.0	7.1	89	42	50	11	64	127	15.9	33.9	25	25	28	34.5	8.17	8.28
1 1/4"	63	17	205	7.1	9.2	98	50	70	14	69	138	17.5	42.5	32	32	35	42.8	12.05	12.23
1 1/2"	74	16	205	7.1	9.2	108	50	70	14	79	158	19.1	48.6	38	38	41	49	18.60	18.78
2"	92	21	325	9.2	11.4	140	70	102	17	95	190	22.2	61.1	50	50	54	61	33.86	34.08

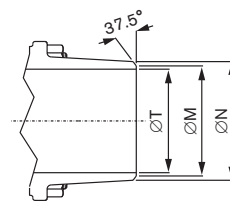
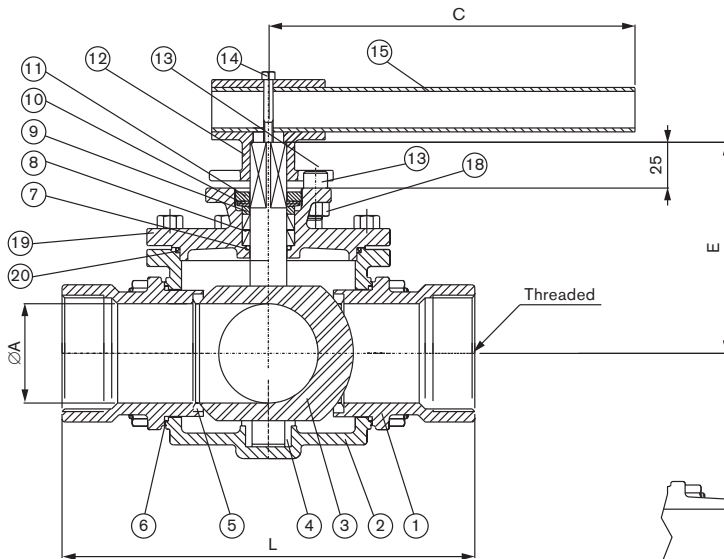
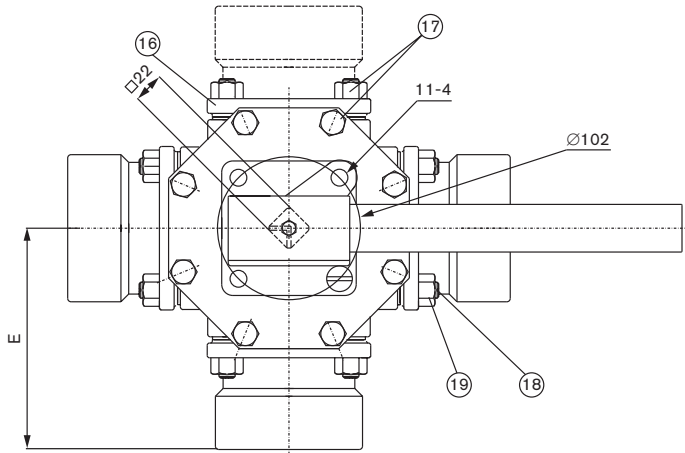
Exploded view 1/4" – 2"



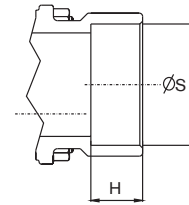
2651 **multi-port**

bürkert

Dimensions 2½" – 4" [mm]



Butt Weld



Socket Weld



180° stop plate

The Type 2651 multi-port ball valve is available for 180° operation. This design allows for more flow patterns to be used in your piping. Users simply have to change a 180° stop plate for this option.

Item	Part Name	Materials
1	End cap	CF8M
2	Body	CF8M
3	Ball and stem	SS 316
4	Housing	PTFE + Stainless
5	Seats	PTFE
6	Gasket	PTFE
7	O-ring	FKM
8	Stem packing	PTFE
9	Gland washer	SS 304
10	Disk washer	SS 301
11	Gland	SS 304
12	Handle head	A351 Gr.CF8
13	Stop pin	SS 304
14	Bolt	SS 304
15	Handle	Steel pipe
16	Blank cap	CF8M
17	Bolt	SS 304
18	End cap bolts	SS 304
19	Bolt nuts	SS 304
20	Stop pin nut	CF8M
21	Bonnet	SS 304
22	Bonnet gasket	PTFE

Size	A	B	C	E	L	L(BW)	H	S	T	M	N	3-way W (lb.)	4-way W (lb.)
2½"	62	65	400	144	294	265	23	73.9/77 (DIN)	65	70	77	50.0	52.0
3"	76	80	500	162	317	290.6	23	89.6	80	85	91	68.7	70.1
4"	96	100	650	182	369	345	29	115	100	100	115	117.7	119.4

Exploded view 2½" – 4"

