burkert
FLUID CONTROL SYSTEMS

DTS 1000154231 EN Version: - validé) printed: 11.05.2011 Status: RL (released I freigegeben I

Ball Valves in cast 316 SS
2–way, split body construction

- 400 PSI WOG
- 150lb RF ANSI flange
- Full port to Sch 40 pipe
- Bolted split body
- Range of seal options
- Blow-out proof stem with self adjust packing
- ISO 5211 direct actuator mount (6"+ indirect)

Type 2651 can be combined with…

Stem Extensions
Fugitive emmissions 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 two piece investment cast body with PTFE/FKM sealing. It finds wide use in fluid media while offering higher cycle life and 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 with just four bolts. The split body provides for easy re-assembly, and more compact than three piece bolted designs. The ball is full port style, presenting a C_V and pressure drop similar to an open line, without restriction to high flow or entrained solids.

Technical data	
Valve size	½" to 12"
Body materials Ball material Stem material	CF8M (cast 316 SS) 316 SS 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 for 6"+) with 304SS guide/follower
Media temperature	-20°F to 375°F (PTFE), 450°F (TFM)
End connections	150lb raised face flange ANSI face to face dimensions
Installation	As required
Flow direction	Seals to rated pressure in both directions
Control option	Size to conditions or V port ball
Pressure rating	400 PSI – ½" to 12"

Ordering chart

	Type		Pressure class		Design		Valve size		End connection		Body material		Seal material		Option
EXAMPLE	2651	–	400	–	2–way	–	1"	–	150# flg	–	CF8M	–	PTFE	–	

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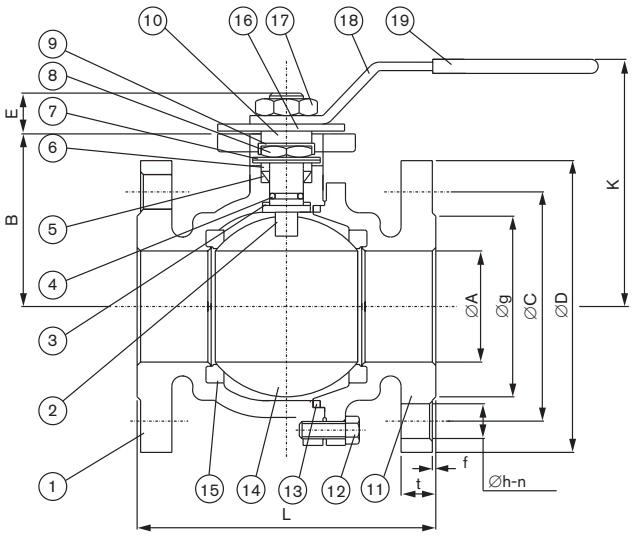
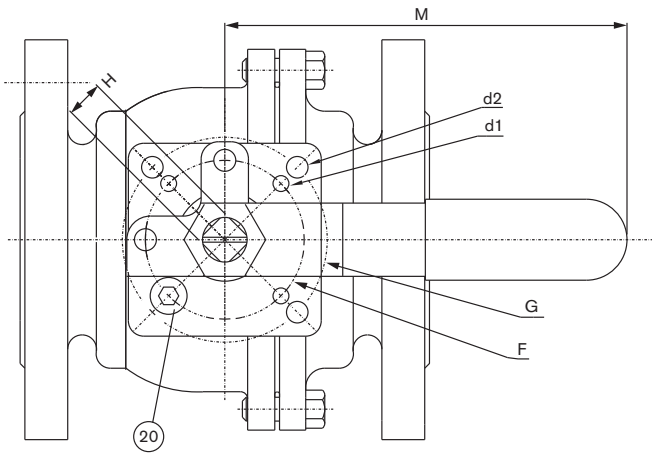
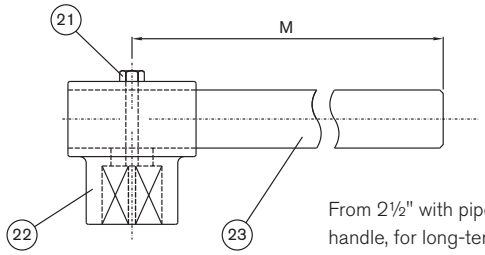
Dimensions ½" – 4" [mm]

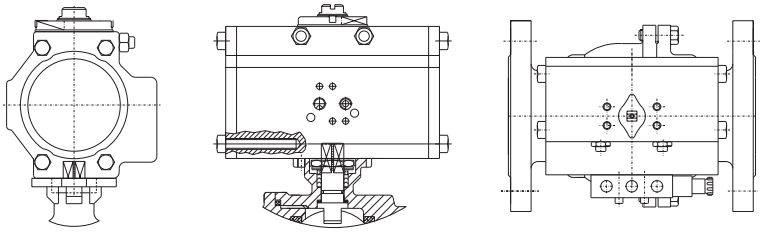


Item	Part Name	Materials
1	Body	CF8M/WCB
2	Stem	SS 316/SS 304
3	Thrust washer	RPTFE
4	O-ring	FKM
5	Stem packing	PTFE
6	Gland	SS 304
7	Disk washer	SS 301
8	Stem nut	SS 304
9	Nut stop	SS 304
10	Washer	SS 304
11	Flanged end	CF8M/WCB
12	Bolt	SS 304
13	Gasket	PTFE
14	Ball	SS 316/SS 304
15	Ball seat	PTFE/RPTFE
16	Stopper plate	SS 304
17	Handle Nut	SS 304
18	Handle	SS 304
19	Sleeve	Plastic
20	Stop pin	SS 304
21	Set bolt	SS 304
22	Lever head	CF8
23	Pipe handle	Steel pipe





From 2½" with pipe handle, for long-term smooth usage.



ISO direct mount for directly assembling actuator.
- Pneumatic (DA or SR) – Electric actuator
- Solenoid valve – Limit Switch Box – EP

Size	A	B	E	L	H	K	M	F	G	d1	d2	D	C	h	N	t	g	f	W (lb)
½"	15	48	11	108	9	80	130	36	42	6	6	89	60.5	16	4	11.5	35	1.6	3.81
¾"	20	53	11	117	9	80	130	36	42	6	6	98	70	16	4	11.5	43	1.6	4.69
1"	25	59	14	127	11	90	165	42	50	6	7	108	79.5	16	4	11.5	51	1.6	6.43
1¼"	32	71	14	140	11	102	165	42	50	6	7	117	89	16	4	12.7	64	1.6	8.86
1½"	38	76	18	165	14	110	205	50	70	7	9.2	127	98.5	16	4	14.3	73	1.6	13.00
2"	50	85	18	178	14	120	205	50	70	7	9.2	152	120.5	19	4	15.9	92	1.6	19.22
2½"	65	93.5	23	190	17	140	300	70	102	9.2	11.4	178	139.5	19	4	17.8	105	1.6	29.38
3"	80	103	23	203	17	150	340	70	102	9.2	11.4	190	152.5	19	4	19.1	127	1.6	37.54
4"	100	132	25	229	22	180	420	102	125	11.4	13.5	229	190.5	19	8	24.0	157	1.6	63.88

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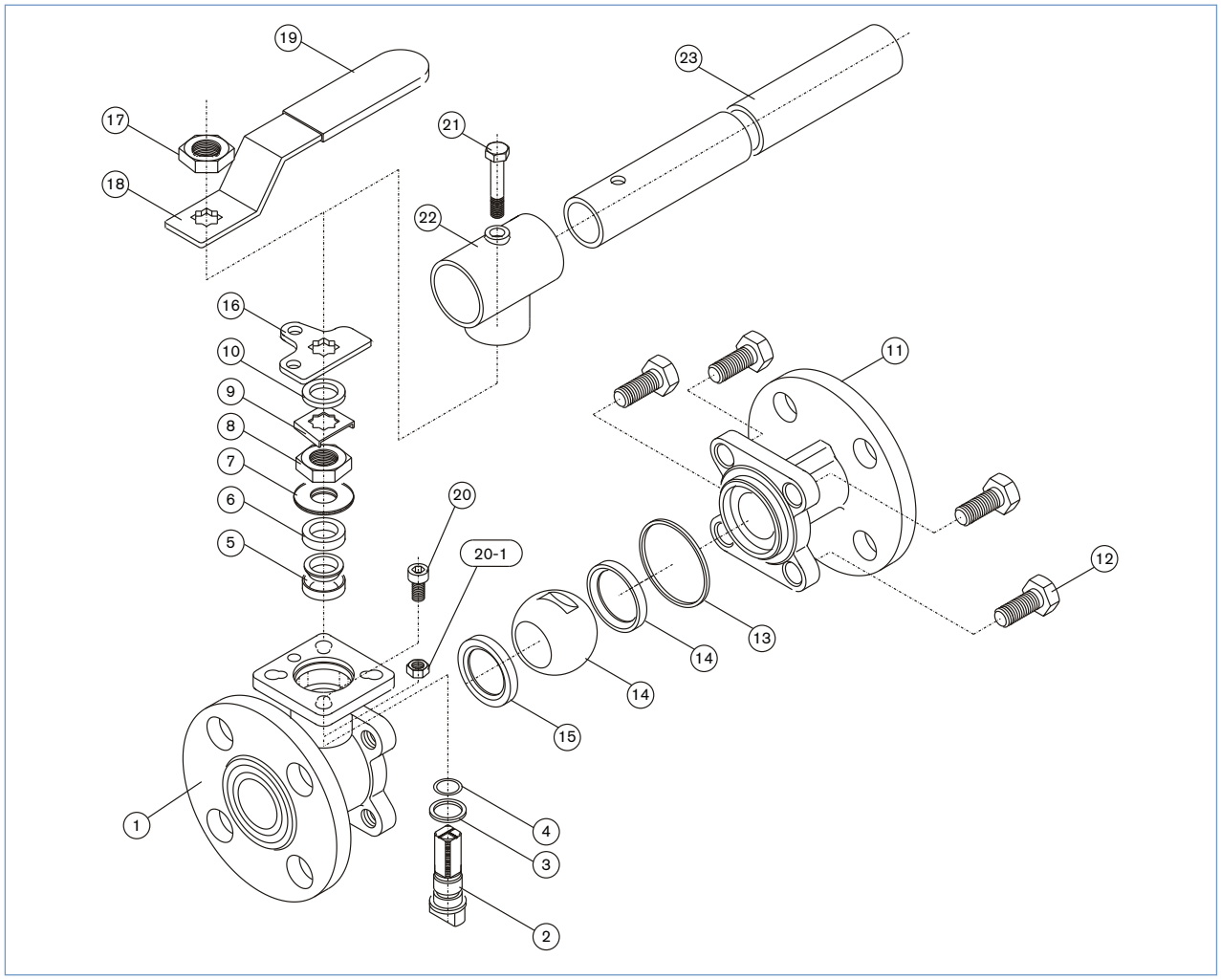
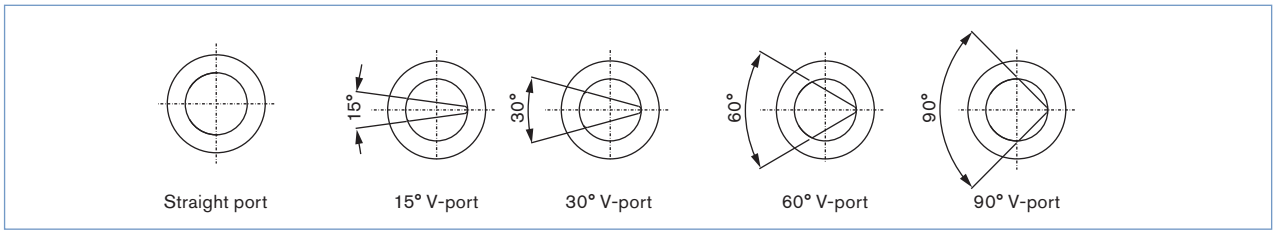
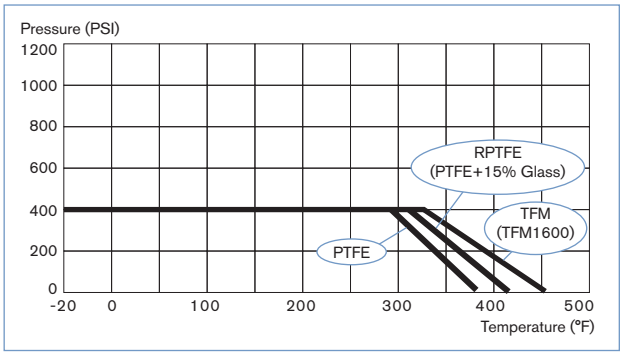
Exploded view ½" – 4"



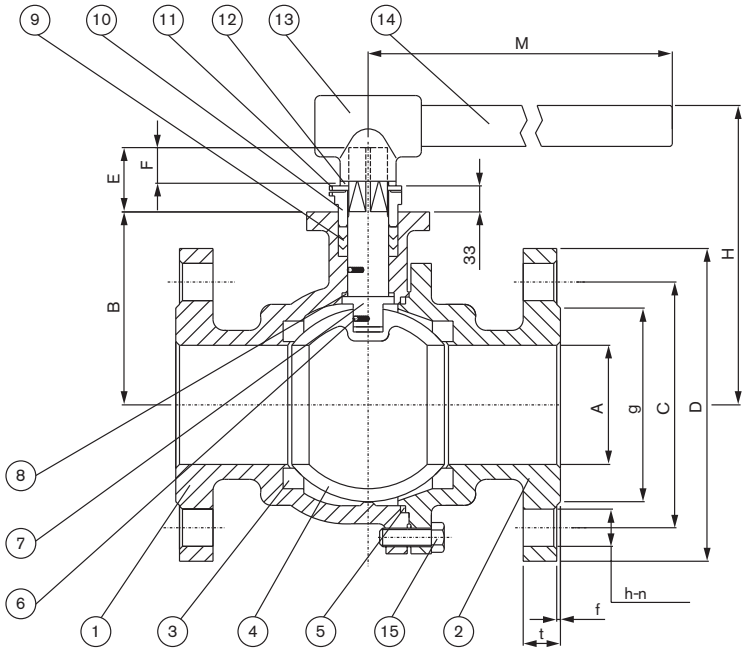
V-ball for modulating controller



Pressure-temperature limits

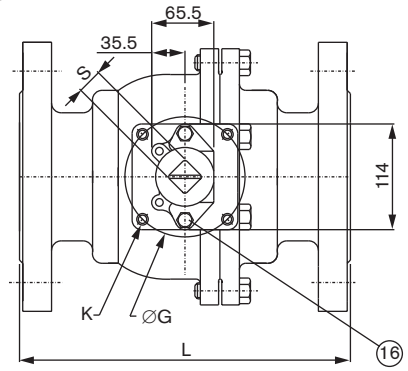


Dimensions 6" – 12" [mm]

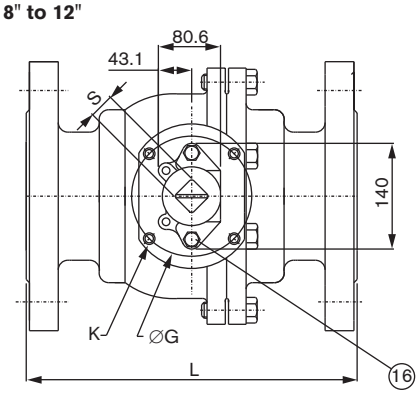


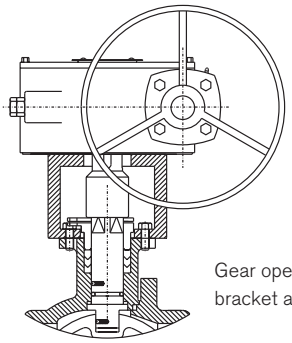
Item	Part Name	Materials
1	Body	CF8M/WCB
2	Flanged end	CF8M/WCB
3	Ball seat	PTFE/RPTFE
4	Ball	SS 316/SS 304
5	Gasket	PTFE
6	Anti-static	SS 316
7	Stem	SS 316/SS 304
8	Thrust washer	RPTFE
9	Stem packing	PTFE
10	Gland	SS 304
11	Stopper	SS 304
12	Stopper plate	SS 304
13	Lever head	FCD45
14	Pipe handle	Steel pipe
15	Bolt	SS 304
16	Gland bolt	SS 304

6"

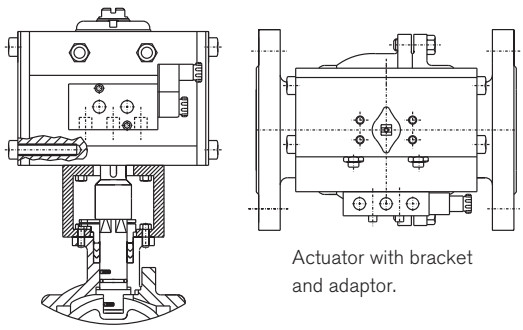


8" to 12"





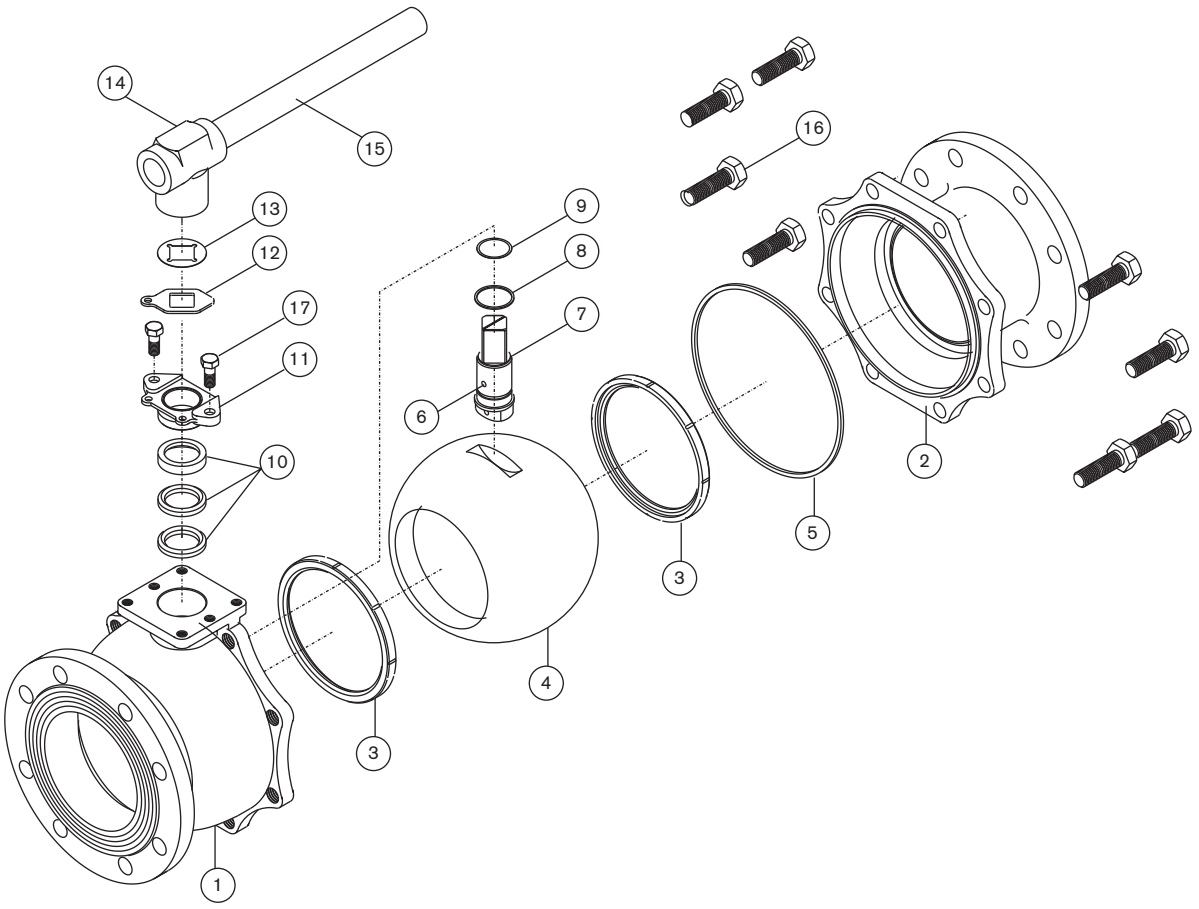
Gear operator with bracket and adaptor.



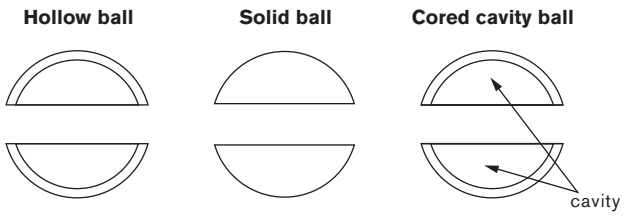
Actuator with bracket and adaptor.

Size	A	B	E	F	G	H	M	L	K	S	D	C	n	h	g	t	f
6"	150	170	58	34	125	285	850	394	M12	28	279	241.5	8	22	216	25.4	1.6
8"	200	219	64	38	125	354	1100	457	M12	36	343	298.5	8	22	270	28.6	1.6
10"	250	255	64	38	125	390	1200	533	M12	36	406	362	12	25	324	30.2	1.6
12"	300	307	79	46	140	442	1500	610	M16	36	483	432	12	25	381	31.8	1.6

Exploded view 6" – 12"



Ball type options 6" – 12"



- 6" and 8" – hollow and solid ball
- 10" and 12" – hollow ball and cored cavity ball

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