

# BALL VALVES

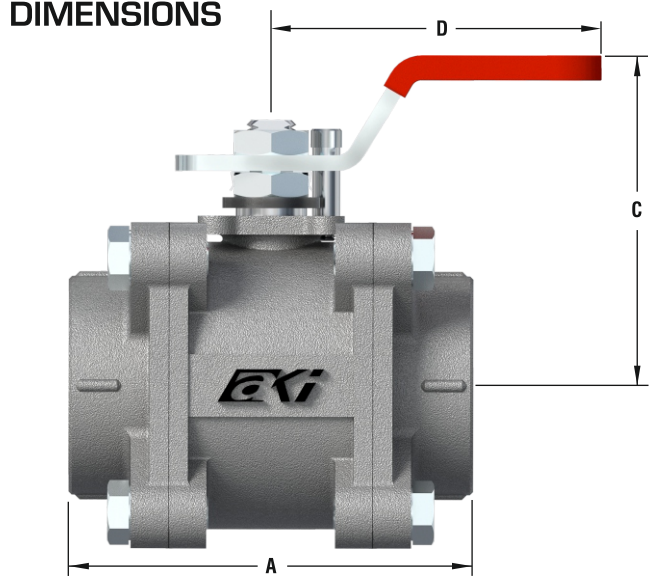


**AKAY INDUSTRIES PVT LTD**

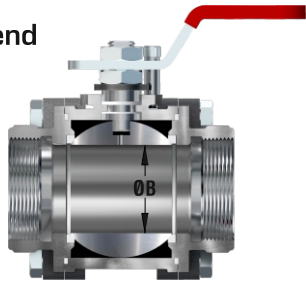
# TYPE BV 201 FEATURES

- Three piece construction
- Designed to BS EN 17292
- Blow-out proof stem
- Bubble tight sealing
- Low pressure drop & Low Torque
- “Swing-away”, Easy Maintenance

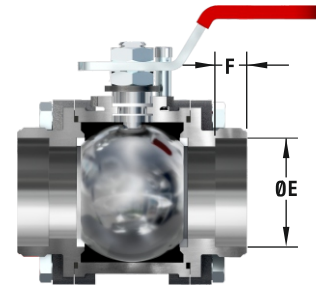
## DIMENSIONS



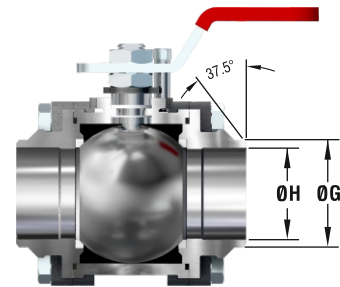
### Screwed end



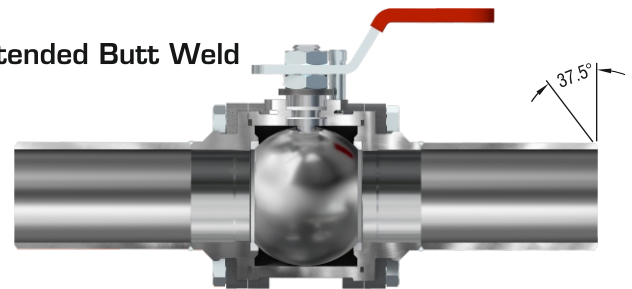
### Socket end



### Butt Weld end



### Extended Butt Weld



## VALVE DIMENSIONS

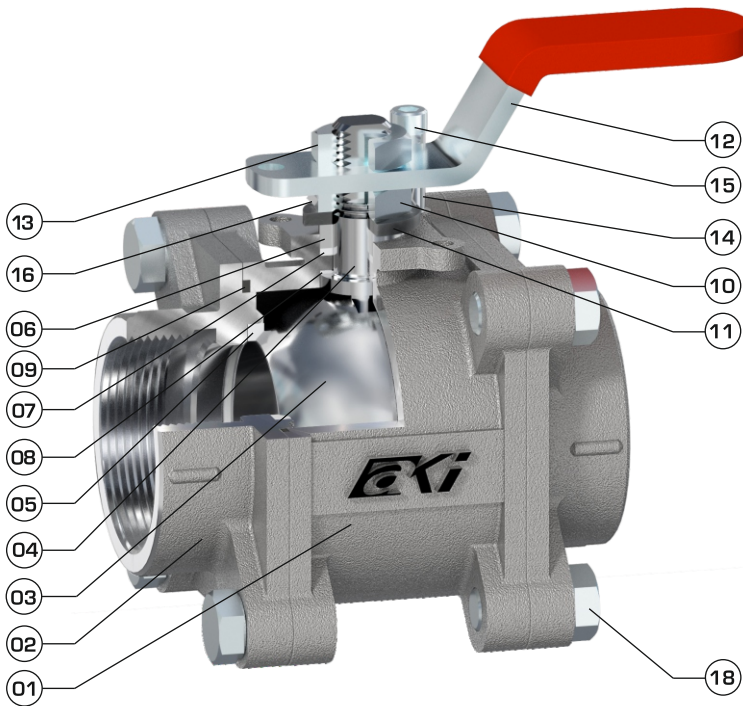
Valve Size DN		A		B	C	D	Weight kg
RP	FB	SE, SW, BW	XW				
15	---	58	258	11	75	110	0.60
20	15	65	265	14	80	110	0.63
25	20	80	280	20	85	110	1.20
32	25	90	290	25	105	125	1.50
40	32	100	300	32	108	125	2.80
50	40	115	315	38	113	160	3.75
65	50	130	330	51	128	225	5.50

## SOCKET & BUTT WELD END DIMENSIONS

Valve Size DN	E	F	G	H		
				Sch 5S	Sch 10S	Sch 40
15	21.7	16.5	22	18.0	17.0	16.0
20	27.1	17.0	27	23.5	22.5	21.0
25	33.8	20.0	34	30.0	28.0	26.5
32	42.5	22.0	43	39.0	36.5	35.0
40	48.6	22.0	49	45.0	43.0	41.0
50	61.1	25.0	61	57.0	55.0	52.5
65	73.8	25.0	74	70.0	67.5	63.0

“BETTER... BY DESIGN!”

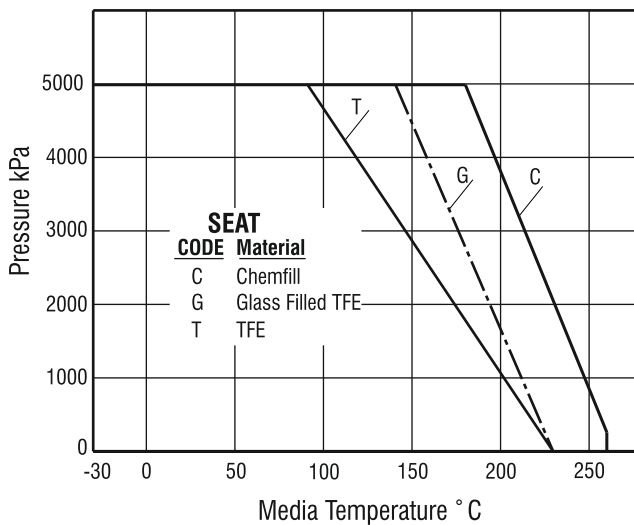
# PART LIST AND MATERIAL OF CONSTRUCTION



Part No	Qty	Part Name	Material
1	1	Body	CS,304,316,A20
2	2	Pipe End	CS,304,316,A20
3	1	Ball	304,316,A20
4	1	Stem	304,316,A20
5	2	Seat	PTFE / GFT / CFT
6	1	Gland	304,316 A20
7	2	Stem Seal	TFE / GRAFOIL
8	1	Stem Bearing	CFT
9	2	Body Seal	TFE / GRAFOIL
10	1	Retaining Nut	Steel
11	2	Belleville Washer	Spring Steel
12	1	Lever	Steel
13	1	Lever Nut	Steel
14	1	Stopper Bush	Steel
15	1/2	Cap Screw	Steel
16	1	Lock clip	Steel
18	8	Body Bolt / Nut	STEEL , 304,316,A20
19	1	Name Plate	304

Part No 19 not illustrated

## Pressure Temperature Ratings



## BREAKAWAY TORQUE

### TORQUE VALUES IN Nm

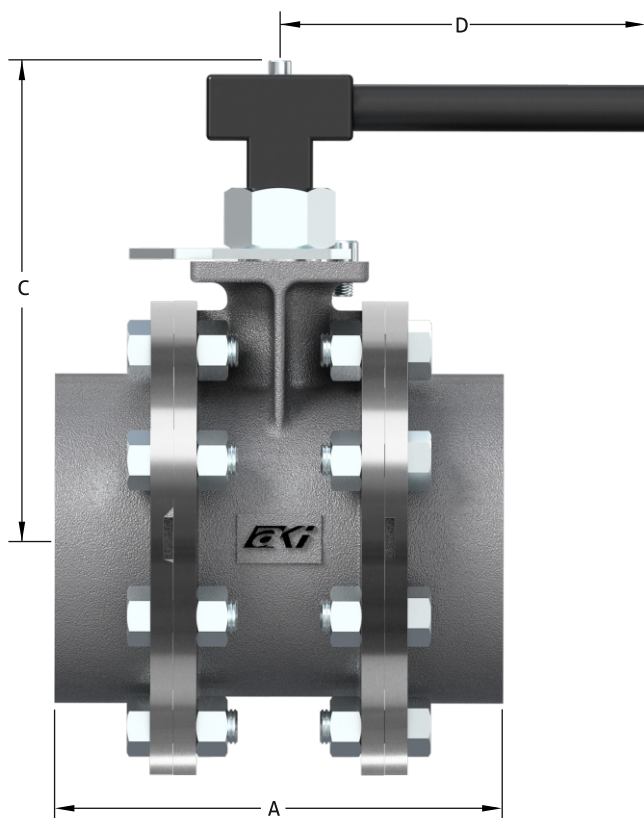
SIZE		$\Delta P=20$ bar CLASS 150#	$\Delta P=50$ bar CLASS 300#
RP	FB		
15	-----	3.0	3.0
20	15	3.0	3.0
25	20	4.0	4.5
32	25	10.5	13.5
40	32	15	16
50	40	17	18
65	50	35	40

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# TYPE BV 700 FEATURES

- Three piece construction
- Blow - out proof stem
- Bubble tight sealing
- Low pressure drop
- Low torque
- "Swing-away", Easy Maintenance

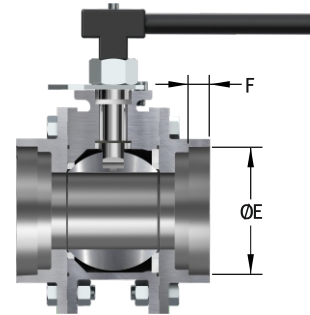
## DIMENSIONS



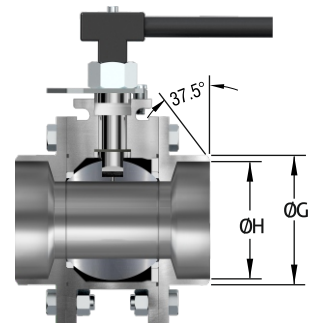
### Screwed end



### Socket end



### Butt Weld end



## REGULAR PORT

Valve Size DN	A		B	C	D	Weight kg
	SE	SW BW				
80	162	160	64	178	580	12
100	196	194	76	188	580	19
150	256	254	102	261	860	46

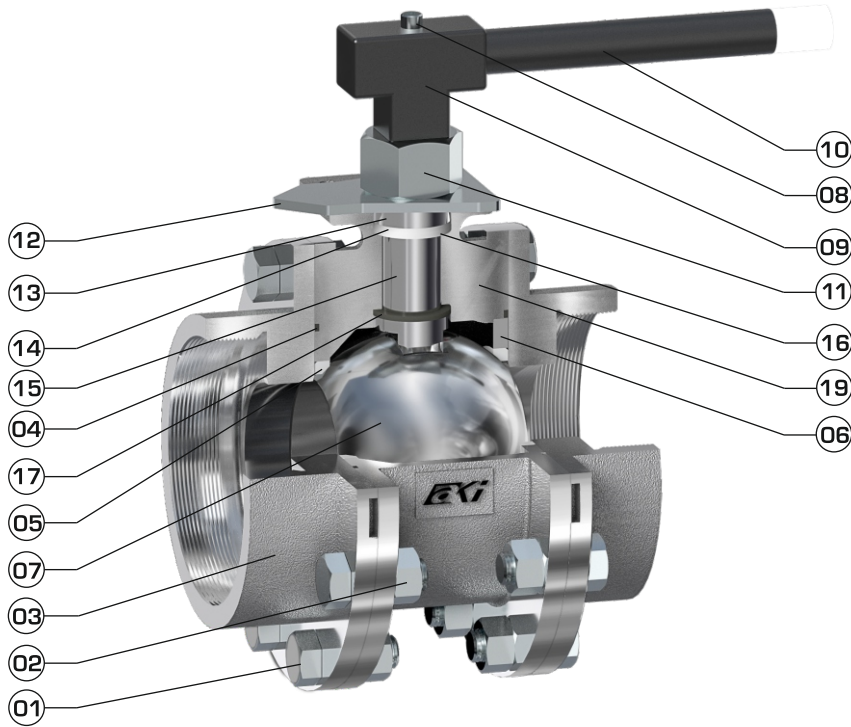
## FULL BORE

Valve Size DN	A		B	C	D	Weight kg
	SE	SW BW				
65	150	148	64	178	580	12
80	176	174	76	188	580	18
100	228	226	102	261	860	45

## SOCKET & BUTT WELD END

Valve Size DN	E	F	G	H	
				Sch 10S	Sch 40
65	74	22	73	67	64
80	90	24	89	83	78
100	115	26	114	108	103
150	169	28	168	162	154

# PART LIST AND MATERIAL OF CONSTRUCTION

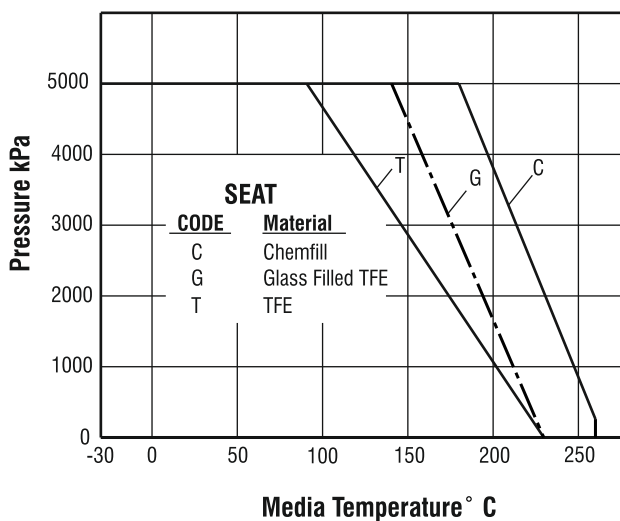


## Part list and material of construction

Part No	Qty	Part Name	Material
@ 1	6-8	Body Bolt	STEEL
@ 2	6-8	Body Nut	STEEL
* 3	2	Pipe Connector	CS, SS316, A20, HC, HB
4	2	Body Seal	TFE
* 5	2	Seat	TFE, REINFORCED TFE
* 6	1	Retainer	CS, SS316, A20, HC, HB
* 7	1	Ball	SS316, A20, HC, HB
@ 8	1	Cap Screw	STEEL
9	1	Adapter	STEEL
10	1	Lever Extn	STEEL
@ 11	1	Retaining Nut	STEEL
@ 12	1	Stop	STEEL
13	1	Gland	SS316, A20, HC, HB
14	3	Stem Seal	REINFORCED TFE
15	1	Stem	SS316, A20, HC, HB
16	2	Stem Washer	SS316, A20, HC, HB
17	1	Stem Bearing	CHEMFILL
@ 18	1	Pin	STEEL
* 19	1	Body	CS, SS316, A20, HC, HB

\* As selected see ordering code. @ Cadmium plated.  
Part No. 18 not illustrated.

## Pressure Temperature Ratings



## BREAKAWAY TORQUE

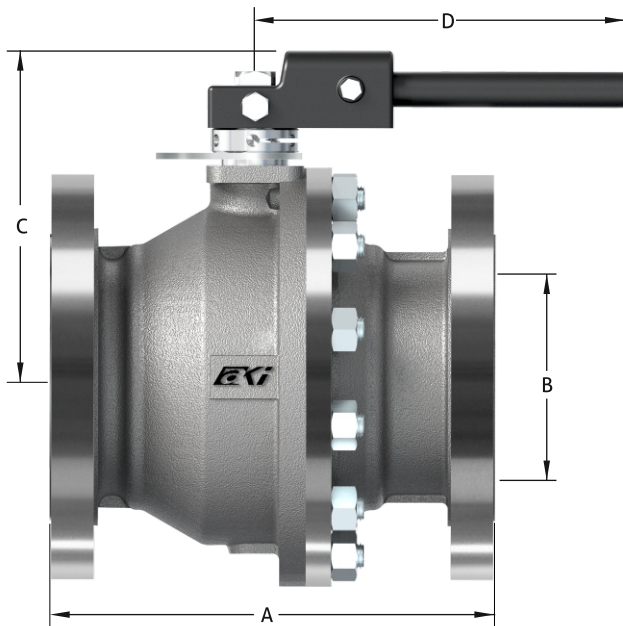
Valve Size DN		Breakaway Torque Nm
80	65	135
100	80	225
150	100	540

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# TYPE BV 300 FEATURES

- Two piece construction
- Designed to BS EN 17292
- Face to face dimensions to ASME B16.10
- Blow - out proof stem
- Bubble tight sealing
- Low pressure drop & Low torque

## DIMENSIONS



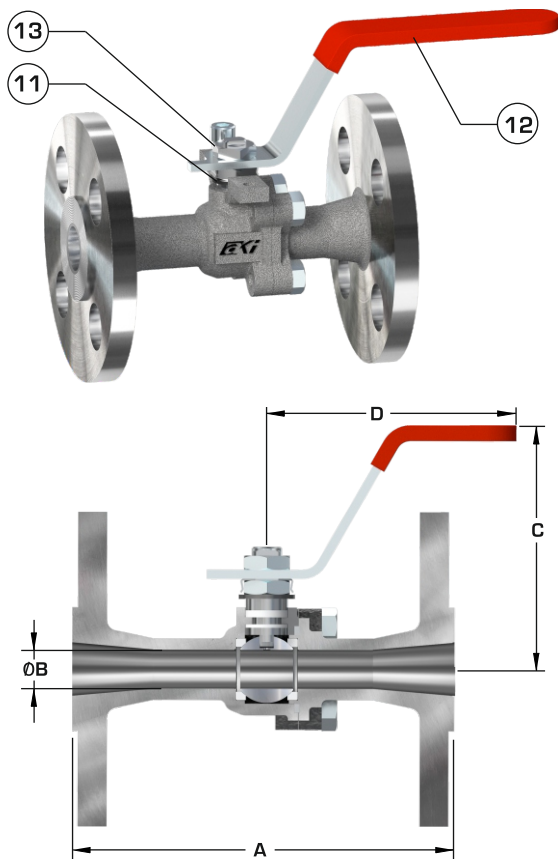
## REGULAR PORT

Valve Size DN	B	C	D	Class 150		Class 300	
				A	Weight kg	A	Weight kg
15	11	75	110	108	1.2	140	2.4
20	14	80	110	117	1.6	152	3.0
25	20	85	110	127	2.5	165	4.0
32	25	105	125	140	3.5	178	5.2
40	32	108	125	165	5.0	190	8.8
50	38	113	160	178	7.8	216	10.8
65	51	128	225	190	10.5	241	12.9
80	57	135	300	203	16.0	283	20.0
100	76	160	350	229	22.0	305	33.5
150	98	190	400	267	39.0	403	58.0
200	144	240	580	292	77.0	419	102.0
250	188	310	800	330	122.0	457	138.0

## FULL BORE

Valve Size DN	B	C	D	Class 150		Class 300	
				A	Weight kg	A	Weight kg
15	14	80	110	108	1.3	140	2.6
20	20	85	110	117	1.8	152	3.5
25	25	105	125	127	2.8	165	4.5
32	32	108	125	140	3.9	178	6.3
40	38	113	160	165	5.5	190	8.5
50	51	128	225	178	8.5	216	14.0
65	64	135	300	190	13.5	241	18.0
80	76	160	350	203	17.5	283	22.0
100	98	190	400	229	25.0	305	45.0
150	148	240	580	267	48.0	403	94.0
200	198	310	800	292	85.0	419	140.0

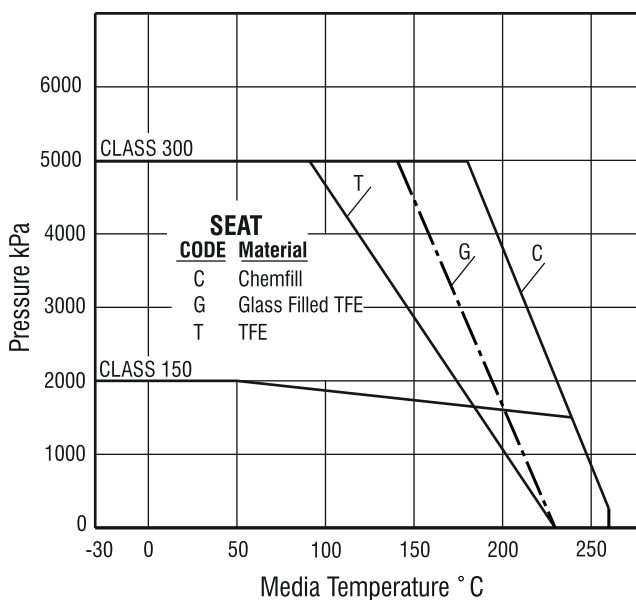
# PART LIST AND MATERIAL OF CONSTRUCTION



Part No	Qty	Part Name	Material
1	1	Body	CS, 304, 316, A20
2	2	Tail Piece	CS, 304, 316, A20
3	1	Ball	304, 316, A20
4	1	Stem	304, 316, A20
5	2	Seat	TFE / GFT / CFT
6	1	Gland	304, 316, A20
7	2	Stem Seal	TFE / GRAFOIL
8	1	Stem Bearing	CFT
9	1	Body Seal	TFE / GRAFOIL
10	1	Retaining Nut	Steel
11	2	Belleville Washer	Spring Steel
12	1	Lever	Steel
13	1	Lever Nut #	Steel
14	1	Stopper Bush	Steel
15	1/2	Cap Screw	Steel
16	1	Lock clip	Steel
18	8	Body Bolt / Nut	Steel, 304, 316, A20
19	1	Name Plate	304
22	1	Adaptor	Steel
24	1/1	Adaptor Bolt/Nut	Steel
25	-	Set Screw	Steel
26	1	Stop	Steel

Part No 14,15,16,19 & 25 not illustrated

## Pressure Temperature Ratings



## BREAKAWAY TORQUE

TORQUE VALUES IN Nm

SIZE		$\Delta P=20$ bar CLASS 150#	$\Delta P=50$ bar CLASS 300#
RP	FB		
15	----	3.0	3.0
20	15	3.0	3.0
25	20	4.0	4.5
32	25	10.5	13.5
40	32	15	16
50	40	17	18
65	50	35	40
80	65	48	60
100	80	60	75
150	100	160	170
200	150	200	400
250	200	750	1065
300	250	1050	1900

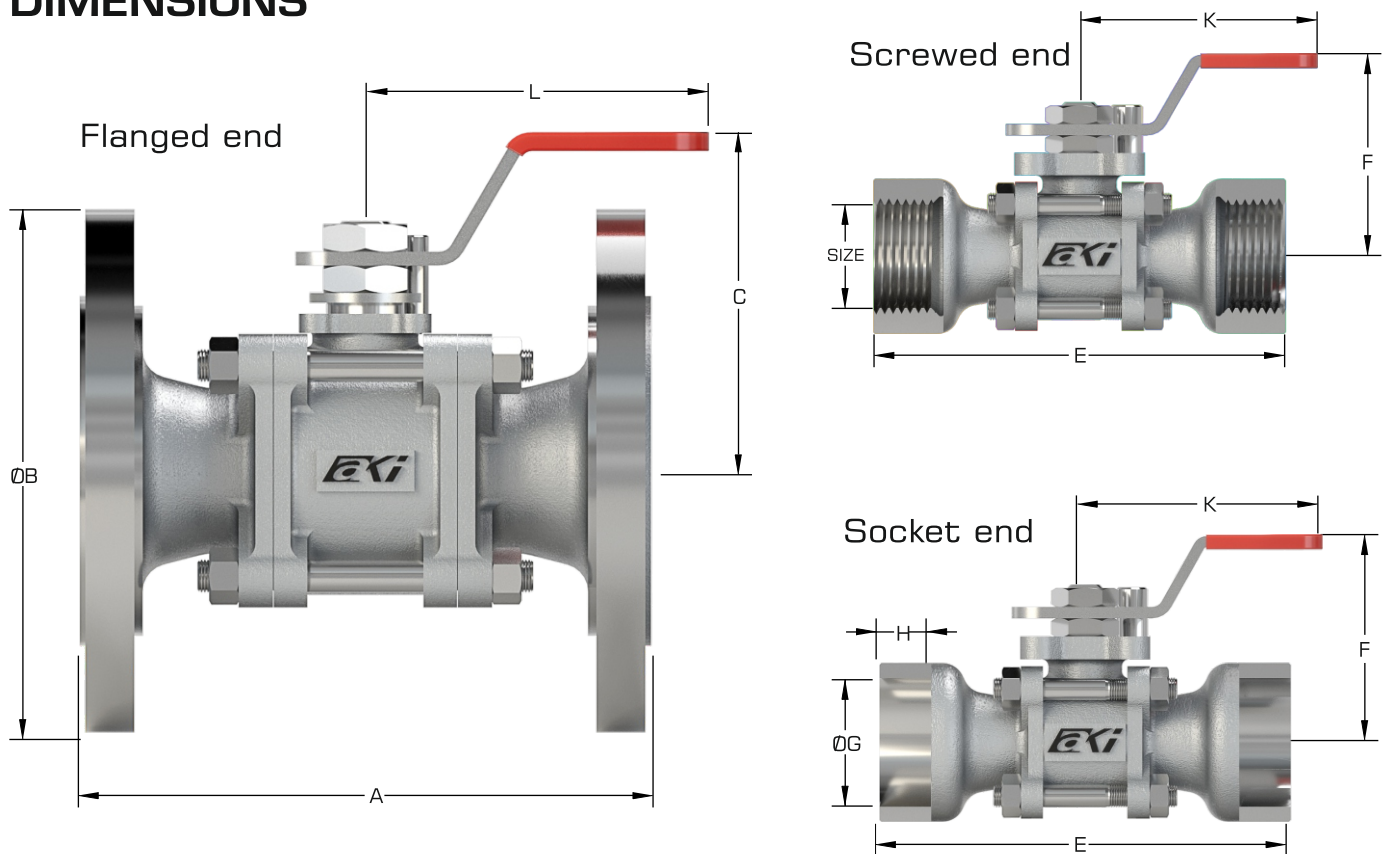
“BETTER... BY DESIGN!”

# TYPE BV ECO FEATURES

- Three piece valve, Floating type design
  - Face to Face Dimensions to ASME B16.10
  - Testing BS - EN 12266-1 / API 598

  - Bubble tight sealing
  - Low pressure drop & Low Torque
  - End Flanges to suit ASME B 16.5 CL. 150

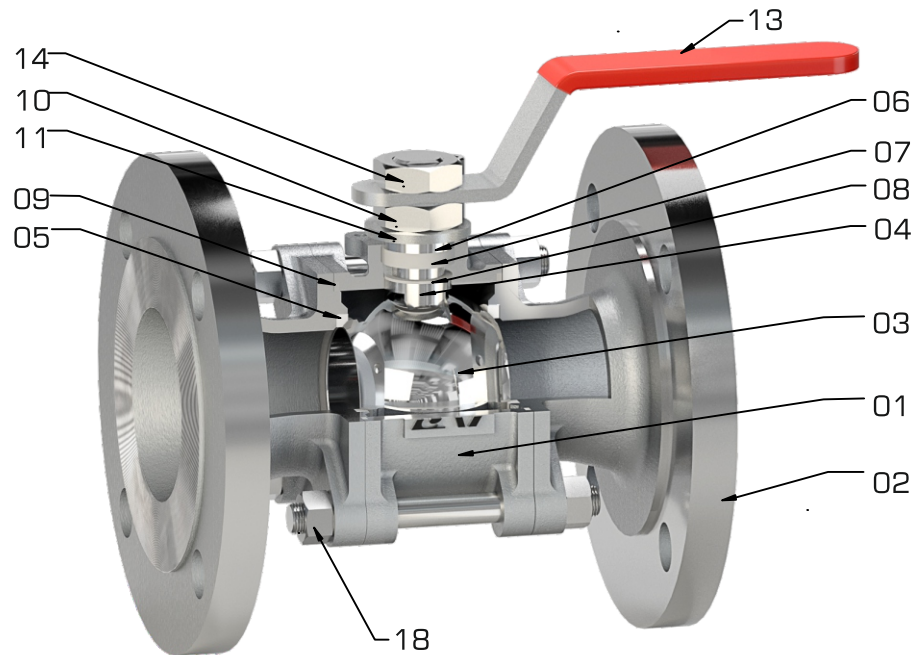
## DIMENSIONS



SIZE	FLANGED END				SCREWED & SOCKET WELD END					ISO ACTUATOR MOUNTING DETAILS			
	A	ØB	C	L	E	F	ØG	H	K	FLANGE TYPE	PCD	HOLE Ø	Nos
DN 25 (1")	127	110	65	125	112	65	33.8	14	125	F03	36	M5	4
DN 40 (1-1/2")	165	125	82	125	139	82	48.6	14	125	F04	42	M5	4
DN 50 (2")	178	150	98	160	182	98	61.1	18	160	F05	50	M6	4
DN 65 (2-1/2")	190	180	105	165	205	105	73.8	18	165	F05	50	M6	4
DN 80 (3")	203	190	125	225	230	125	89.8	18	225	F05	50	M6	4
DN 100 (4")	229	230	180	315	---	---	---	--	---	F07	70	M8	4
DN 150 (6")	267	280	195	315	---	---	---	--	---	F07	70	M8	4

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# PART LIST AND MATERIAL OF CONSTRUCTION



PART No	PART NAME	MATERIAL
01	BODY	CS, 304, 316
02	TAIL PIECE	CS, 304, 316
03	BALL	304, 316
04	STEM	304, 316
05	SEAT	PTFE / GFT / CFT
06	GLAND	304, 316
07	STEM SEAL	PTFE / GRAFOIL
08	STEM BEARING	CFT
09	BODY SEAL	PTFE / GRAFOIL
10	RETAINING NUT	STEEL
11	BELLEVILLE WASHER	SPRING STEEL
12*	ADAPTER	STEEL
13	LEVER	STEEL
14	LEVER NUT / SCREW	STEEL
15*	STOPPER BUSH	STEEL
16*	CAPS SCREW	STEEL
17*	LOCK CLIP	STEEL
18	BODY STUD / NUT	STEEL, 304, 316
19*	NAME PLATE	304

\* Not illustrated

## BREAKAWAY TORQUE

Valve size DN	Breakaway torque Nm
25	8
40	17
50	25
65	40
80	62
100	85
150	135

- The running torque is equal to approximately 1/3 of the breakaway torque.
- Torque values are without factor of safety.

## OPTIONAL FEATURES

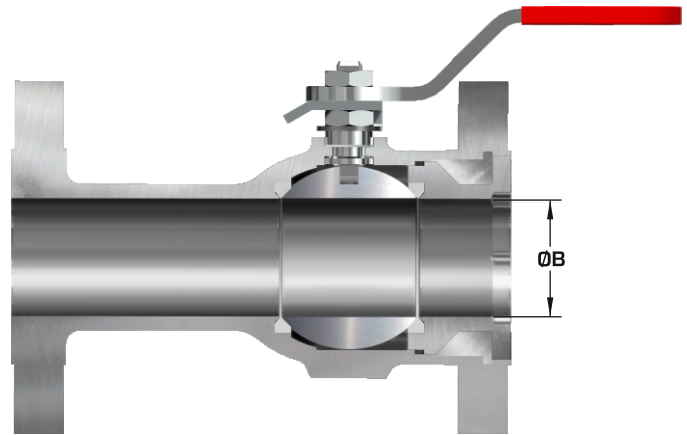
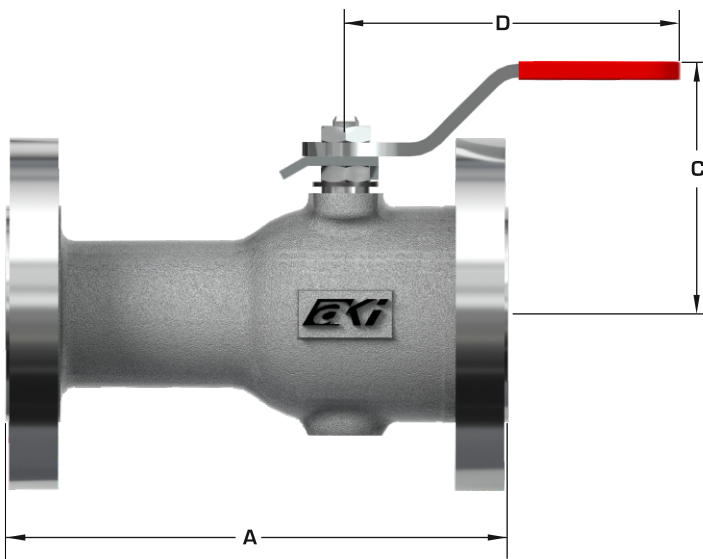
Extended Bonnet	Worm gear operator
ASTM Body Stud & Nut	Pneumatic Actuator
SS 316 Body Stud & Nut	Locking Device

“BETTER... BY DESIGN!”

# TYPE BV 400 FEATURES

- Single piece design to BS EN 17292
- One Face to face dimension for Cl. 150 & 300
- Face to face dimension to ASME B16.10
- Fire safe to API 607
- Low pressure drop
- Low Torque
- Bubble tight sealing
- Blow-out proof stem

## DIMENSIONS



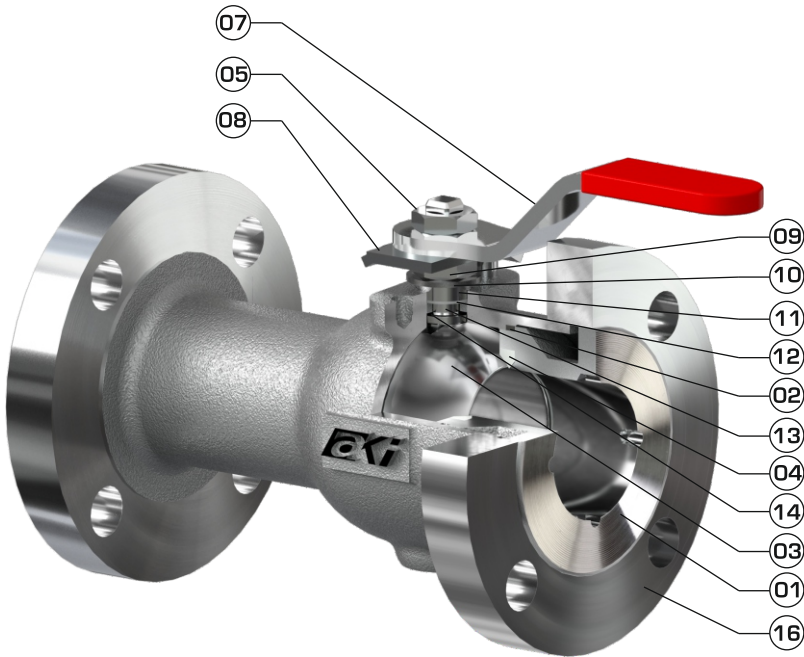
### REGULAR PORT

Valve Size DN	A		B	C	D	Weight kg	
	Class 150 & 300	Class 150 & 300				Class	
						150	300
15	108	11	73	115	1.5	2.7	
20	117	14	76	115	2.2	3.6	
25	127	20	87	145	3.4	4.9	
32	140	25	91	145	4.3	6.0	
40	165	32	104	180	5.3	9.1	
50	178	38	109	180	7.4	10.4	
65	190	51	127	255	11.8	14.2	
80	203	63.5	183	400	23	35	
100	229	76	193	400	33	45	

### FULL BORE

Valve Size DN	A		B	C	D	Weight kg	
	Class 150 & 300	Class 150 & 300				Class	
						150	300
15	108	14	76	115	1.6	3.3	
20	117	20	87	145	2.9	5	
25	127	25	91	145	3.8	6.1	
32	140	32	104	180	5.5	8.7	
40	165	38	109	180	7.5	12	
50	178	51	127	255	8.8	17	
65	203	63.5	183	400	24	36	
80	229	229	193	400	34	46	

# PART LIST AND MATERIAL OF CONSTRUCTION

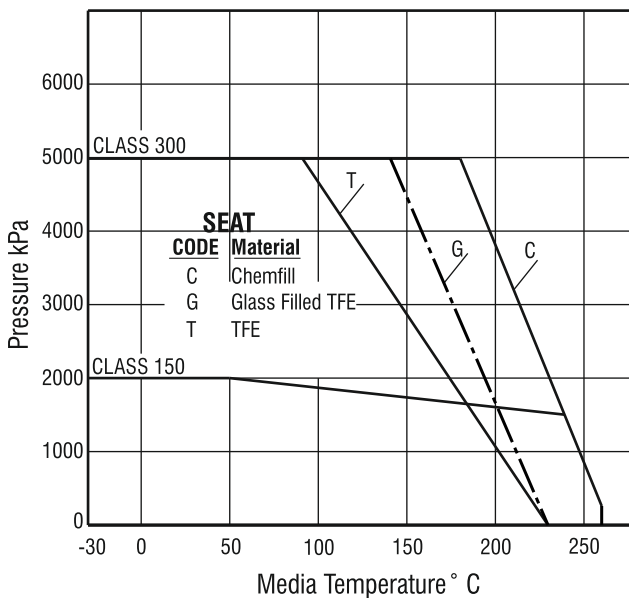


## Part list and material of construction

Part No	Qty	Part Name	Material
* 1	1	Cap	CS, SS316, A20, HC,HB
2	1	Body Seal	TFE
* 3	1	Ball	SS 316, A20, HC, HB
* 4	2	Seat	TFE, REINFORCED TFE
@ 5	1	Lever Nut	STEEL
6	1	Name Plate	SS304
@ 7	1	Lever	STEEL
@ 8	1	Stop	STEEL
@ 9	1	Retaining Nut	STEEL
10	2	Belleville Washer	SS420
* 11	1	Gland	SS 316, A20, HC,HB
* 12	1	Stem Seal	REINFORCED TFE, CHEMFOIL
* 13	1	Stem	SS 316, A20, HC,HB
14	1	Stem Bearing	CHEMFILL
15	1	Pin	SS304
* 16	1	Body	CS, SS316, A20, HC, HB

\* As selected see ordering code.@ Cadmium plated.  
Part No 6 & 15 not illustrated

## Pressure Temperature Ratings

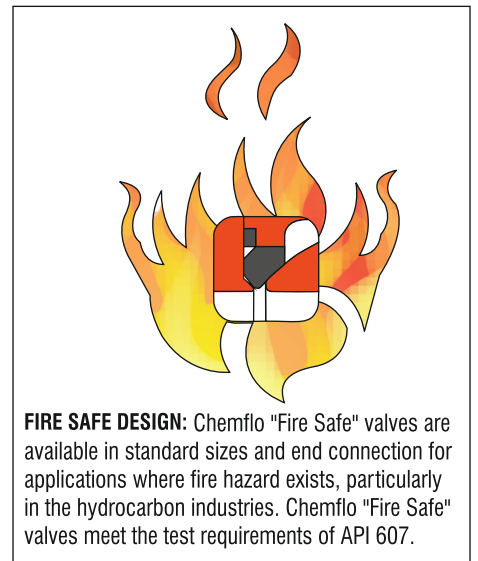


## Breakaway Torque

Valve Size DN		Breakaway Torque N. m
BV 25	BV 26	
6,10,15	---	3.5
20	15	5.0
25	20	11.5
---	25	22.5
40	32	34.0
50	40	45.0
---	50	90.0

The running torque is normally equal to approximately 1/3 of the breakaway torque.

## Fire Safe Design

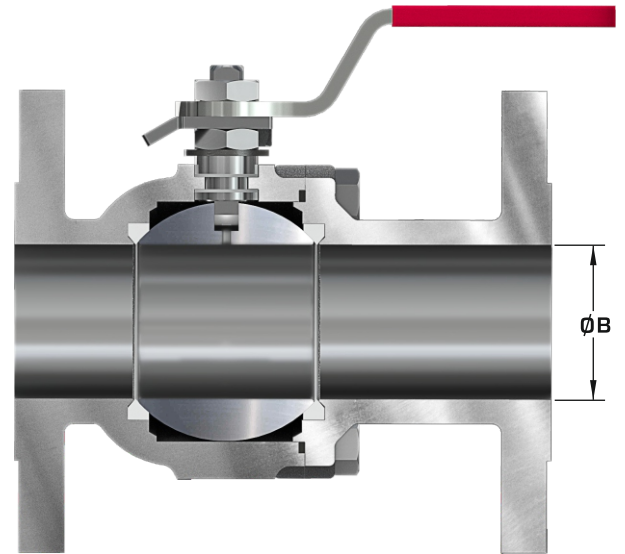
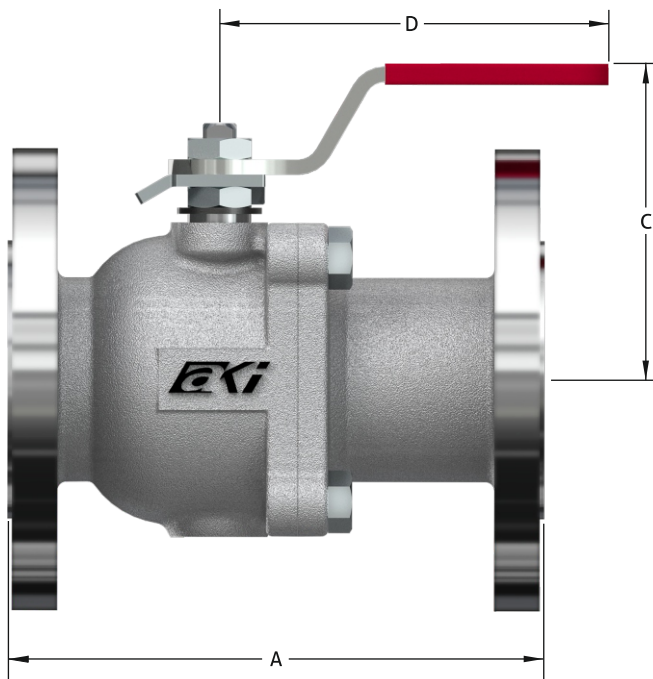


"BETTER... BY DESIGN!"

# TYPE BV 600 FEATURES

- Two piece design to BS EN 17292
- Flanges to ASME B 16.5
- Face to face dimension to ASME B16.10
- Fire safe to API 607
- Low pressure drop
- Low Torque
- Bubble tight sealing
- Blow-out proof stem

## DIMENSIONS



### FULL BORE

Valve Size DN	A	B	C	D	Weight kg
	CL.150				CL.150
25	127	25	125	225	3
32	140	32	132	225	4
40	165	38	148	275	5.5
50	178	50	163	275	9
65	190	63	198	350	14.5
80	203	75	195	325	18
100	229	101	242	400	30
150*	267	151	-	-	70
200*	457	203	-	-	140

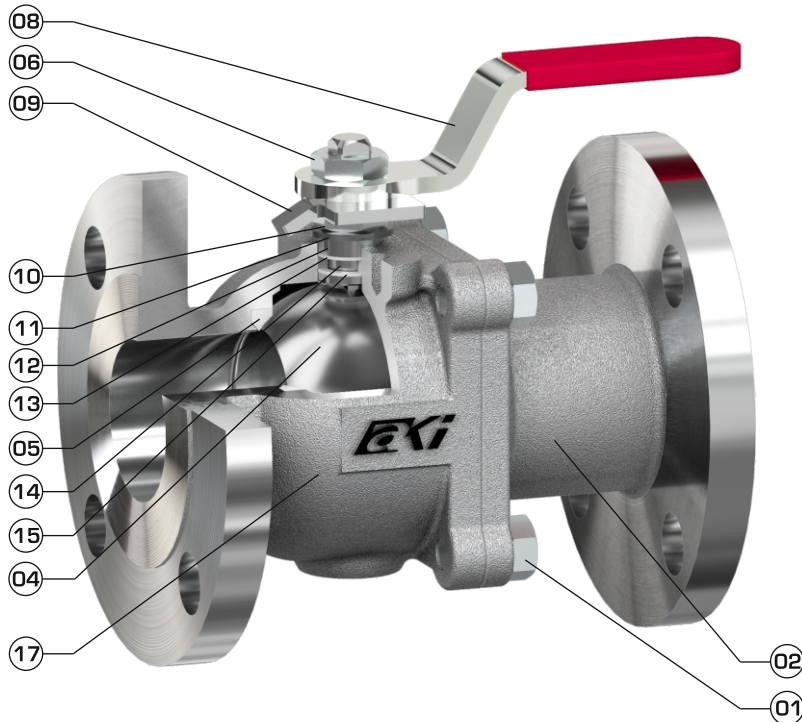
### FULL BORE

Valve Size DN	A	B	C	D	Weight kg
	CL.300				CL.300
25	165	25	127	225	4.5
32	178	32	133	225	5.5
40	190	38	155	275	8.5
50	216	50	190	350	12
65	241	63	187	325	20
80	282	75	221	350	28
100	305	101	245	450	52
150*	403	151	-	-	110
200*	419	203	-	-	175

\* Gear Operated valves.

“BETTER... BY DESIGN!”

# PART LIST AND MATERIAL OF CONSTRUCTION

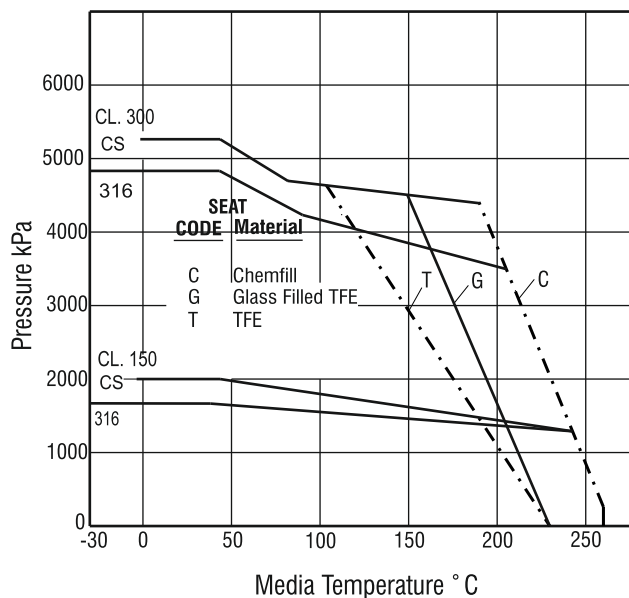


## Part list and material of construction

Part No	Qty	Part Name	Material
1	4	Body Bolt	STEEL
* 2	1	Tail Piece	CS, SS316, A20, HC, HB
3	1	Body Seal	TFE, CHEMFILL, CHEMFOIL
* 4	1	Ball	SS 316, A20, HC, HB
* 5	2	Seat	TFE, REINFORCED TFE
@ 6	1	Lever Nut	STEEL
7	1	Name Plate	SS304
@ 8	1	Lever	STEEL
@ 9	1	Stop	STEEL
@10	1	Retaining Nut	STEEL
11	2	Belleville Washer	SS420
* 12	1	Gland	SS 316
* 13	1	Stem Seal	REINFORCED TFE
* 14	1	Stem	SS 316, A20, HC, HB
15	1	Stem Bearing	CHEMFILL
16	1	Pin	SS304
* 17	1	Body	CS, SS316, A20, HC, HB

\* As selected see ordering code.@ Cadmium plated.  
Part No 3, 7 & 16 not illustrated

### Pressure Temperature Ratings

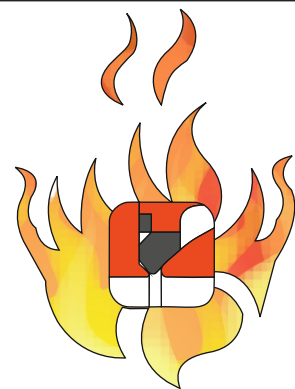


### Breakaway Torque

Valve size DN	Breakaway Torque in Nm	
	CL.150	CL.300
25	12	17
32	20	26
40	26	36
50	32	46
65	48	68
80	75	115
100	152	188
150	365	572
200	830	1040

The running torque is normally equal to approximately 1/3 of the breakaway torque.

### Fire Safe Design



**FIRE SAFE DESIGN:** Chemflo "Fire Safe" valves are available in standard sizes and end connection for applications where fire hazard exists, particularly in the hydrocarbon industries. Chemflo "Fire Safe" valves meet the test requirements of API 607.

**"BETTER... BY DESIGN!"**

# **TYPE BV 900 TRUNNION MOUNTED BALL VALVES**

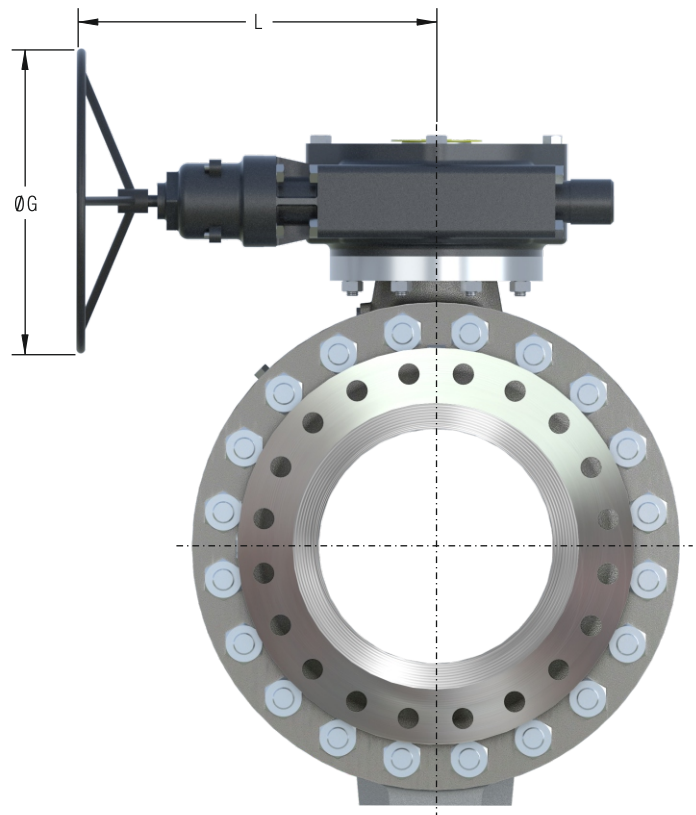
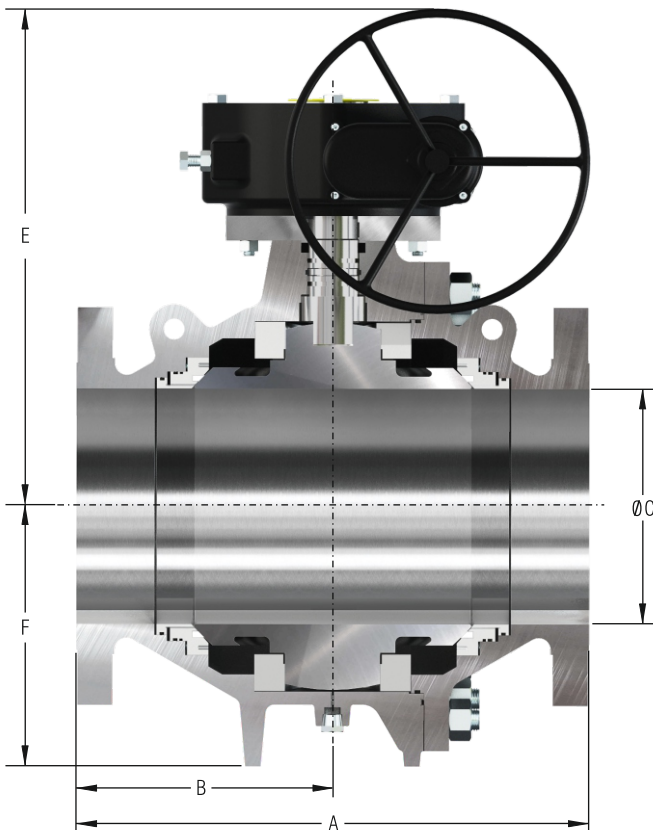


**“BETTER... BY DESIGN!”**

# TYPE BV 900 FEATURES

- ❑ Two piece valve, Trunnion mounted design
- ❑ Fire Safe to API 607
- ❑ Designed to BS EN 17292, Flanges to B16.5
- ❑ Bubble tight upstream sealing
- ❑ Face to Face Dimensions to ASME B16.10
- ❑ Low pressure drop & Low Torque
- ❑ Wall thickness to ASME B16.34
- ❑ Mounting for actuator drilled to ISO 5211

## DIMENSIONS



### FULL BORE CLASS 150

Valve size	A	B	C	E	F	G	L	Wt (Kg)	Torque Nm
50*	178	74	49	191	85	N/A	351	18	72
80*	203	90	74	221	115	N/A	360	34	168
100	229	100	100	336	128	300	226	45	255
150	394	197	150	458	217.5	400	268	135	439
200	457	228.5	201	547	270.5	450	325	233	859
250	533	266.5	252	670	312	600	363	345	1150
300	610	305	303	702	350	600	364	525	1483
350	686	343	334	825	392	700	349	670	2608
400	762	381	385	843	430	700	355	850	3549
450	864	432	436	927	450	700	365	1265	4748
500	914	457	487	977	490	700	420	1610	6018
600	1067	533.5	589	1080	570	700	711	2445	10972

### FULL BORE CLASS 300

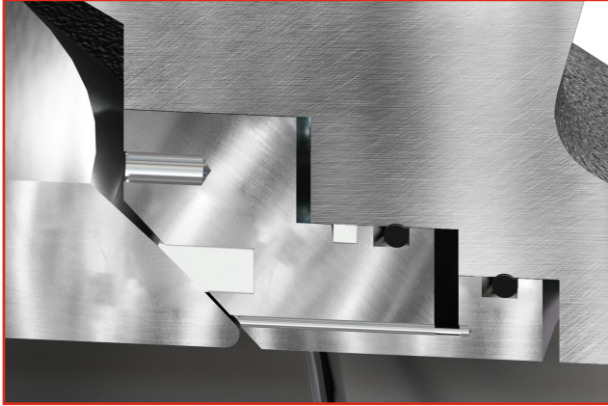
Valve size	A	B	C	E	F	G	L	Wt (Kg)	Torque Nm
50*	216	90	49	202	106	N/A	351	25	90
80*	282	131	74	233	116	N/A	450	42	231
100	305	145	100	350	132.5	300	226	72	357
150	403	201.5	150	498	185	450	272	175	698
200	502	251	201	640	273	600	363	275	1395
250	568	284	252	694	320	600	364	435	1798
300	648	324	303	783	366	700	343	650	2150
350	762	381	334	828	400	700	355	880	3653
400	838	419	385	897	425	700	420	975	5019
450	914	457	436	960	460	700	597	1595	7476
500	991	495.5	487	1000	500	700	711	2000	10356
600	1143	571.5	589	1187	605	800	704	2975	17295

\* DN 50 & 80 SIZE'S ARE LEVER OPERATED VALVES.  
WHERE, L = LENGTH OF LEVER

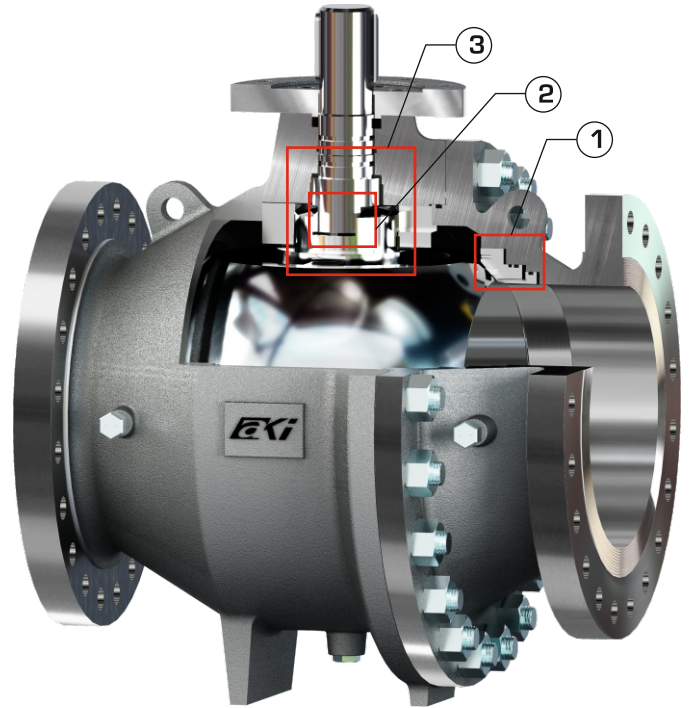
**"BETTER... BY DESIGN!"**

# BV 900 SPECIAL FEATURES

## 1) FIRE SAFE FEATURE



During fire, the Resilient seats decompose and spring loaded seat retainer having metallic seat seals the valve.

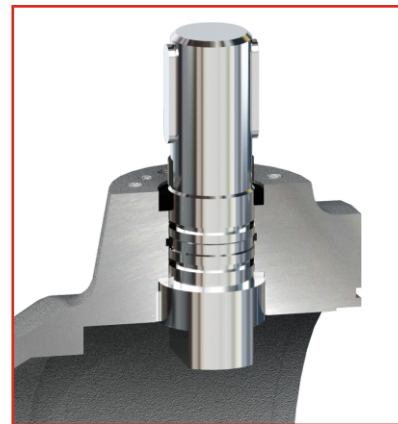


## 2) ANTI-STATIC FEATURE



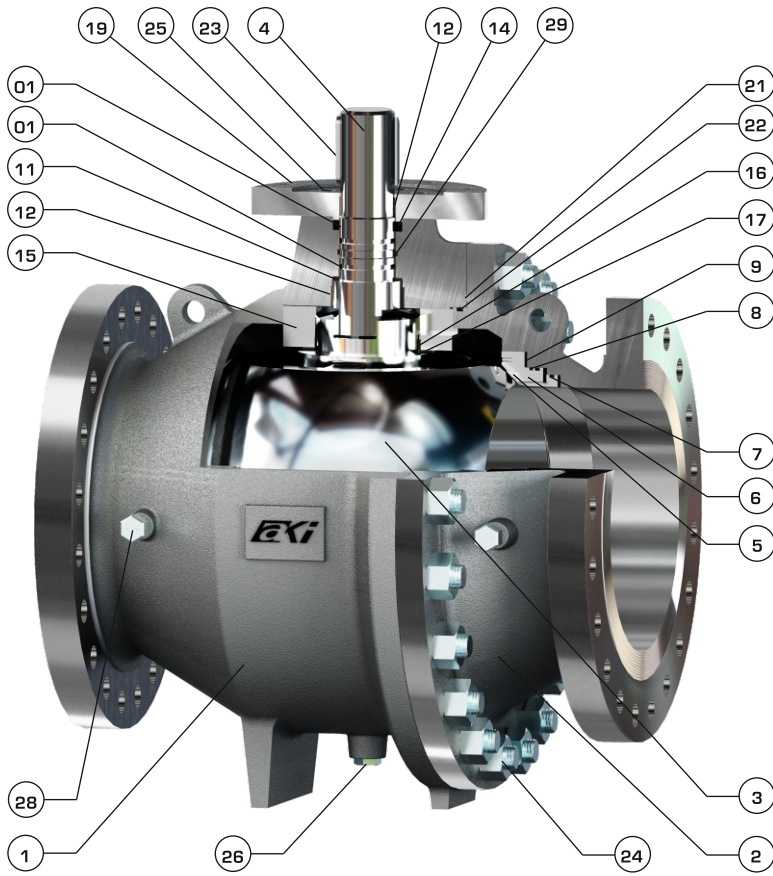
Electrical continuity being maintained from ball to stem to body to avoid buildup of static electric charge across the ball and body.

## 3) BLOWOUT PROOF STEM



The stem of BV 900 Ball valve has collar which locks in the body to make it blowout proof. This feature enables onsite replacement of packing rings during an emergency.

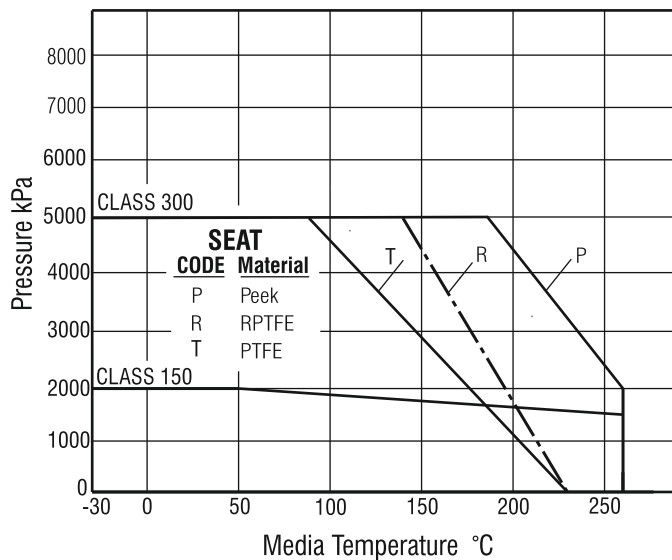
# PART LIST AND MATERIAL OF CONSTRUCTION



Part No	Qty	Part Name	Material
1	1	Body	WCB, CF8M, CF3M, LCB, LCC
2	2	Tail Piece	WCB, CF8M, CF3M, LCB, LCC
3	3	Ball	WCB+ENP, CF8M, CF3M, CA15
4	4	Stem	410, 316, 316L
5	2	Seat	PTFE, RPTFE, PEEK, DEVLON
6	2	Seat Retainer	CF8M, CF3M, CA15
7	4	Seat Retainer O-ring	VITON
8	2	Fire Seal Gasket	GRAPHITE
9	-	Coil Spring	INCONEL X-750
10	2	Anti Static Device	SS
11	1	Stem Washer	GLASS FILLED TEFLON
12	2	Stem Bearing	SS BACKED PTFE, PTFE, CFT
13	2	Stem O-Ring	VITON
14	3-5	Gland Packing	GRAPHITE
15	2	Trunnion	WCB, CF8M, CF3M, LCB, LCC
16	2	Trunnion Bearing	SS BACKED PTFE, PTFE, CFT
17	2	Trunnion Pad	PTFE, CFT
18	8	Trunnion Pin	SS
19	1	Top Plate	SS BACKED PTFE, PTFE, CFT
20	2	Dowel Pin	SS
21	1	Body Gasket	SPW 316 + GRAPHITE FILLED
22	1-2	Tail Piece O-Ring	VITON
23	2	Stem Key	En8
24	4-24	Body Stud/Nut	B7/2H,B7M/7M,B8M/8MH,L7/7,L7M/7M
25	6-8	Top Plate Screw	B7,B7M,B8M,L7,L7M
26	1	Drain Plug	SS
27	1	Air Vent Plug	SS
28	2	Seat Sealant Plug	SS
29	1	Stem Sealant Plug	SS

Part No 10,18,20, & 27 not illustrated.

## Pressure Temperature Ratings



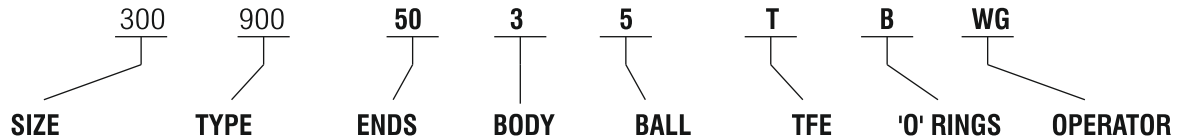
## Fire Safe Design



**"BETTER... BY DESIGN!"**

# HOW TO ORDER

**ORDERING EXAMPLE** To order a chemflo trunnion mounted type, worm gear operated ball valve size DN 300, full port Type 900, flanged to Pn50 (Class 300) carbon steel body, 316 ball, TFE Seats with BUNA 'O' Rings, Specify 300-9F50-TB-WG



DESCRIPTION	CODE		
<b>VALVE SIZE</b>	50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600		
<b>TYPE</b>	900 RP - 900R 900 FB - 900F		
<b>ENDS</b>	Flanged end class 150 - 20      Flanged end class 600 - 100 Flanged end class 300 - 50		
<b>MATERIAL OF CONSTRUCTION</b>	<b>Body</b>	<b>Ball &amp; Stem</b>	<b>Seats &amp; Seals</b>
	CS - 3 304 - 15 316 - 5 304L- 19 316L- 20 A20 - 07 410 - 04		TFE - T RPTFE - R PEEK - P DEVLON - D GFT - G CFT - C

**Special service Ball Valve Code :** The Code for the type is to be prefixed with the Valve Code

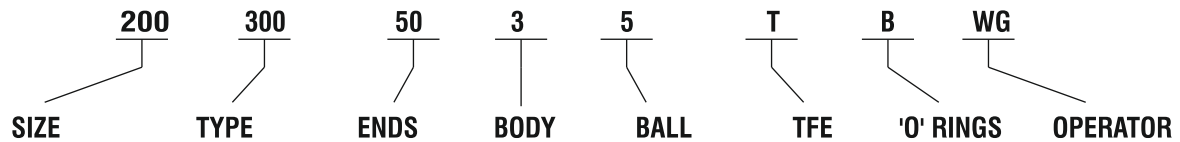
OPTIONAL FEATURE	CODE	OPERATORS	CODE
Fire - Safe	FS	Worm gear operator	WG
Extended Bonnet	EB	Pneumatic Actuator	PA
ASTM Body Bolt & Nut	AS	Electric Actuator	EA
SS316 Body Bolt & Nut	S6	Chainwheel Operator	CO
Locking Device	LD		

**Ordering Variations :** To Order special Chemflo series Ball Valves not covered by the above coding system, please write out a full description of the valve required.

**"BETTER... BY DESIGN!"**

# HOW TO ORDER

**ORDERING EXAMPLE** To Order a chemflo **floating type, worm gear** operated ball valve size DN**200** , regular port Type **300**, flanged to PN50 ( Class 300 ) Carbon steel body, 316 ball, TFE Seats with BUNA 'O' Rings, Specify **200-3R50-35TB-WG**



DESCRIPTION	CODE		
<b>VALVE SIZE</b>	15, 20, 25, 32, 40, 50, 65, 80, 100, 150, 200, 250		
<b>TYPE</b>	200RP - 200R 200FB - 200F	201RP - 201R 201FB - 201F	300RP - 300R 300FB - 300F
<b>ENDS</b>	Screwed end BSPT - B Screwed end NPT - N Socket weld - SW	Butt weld - BW Ext Butt weld - X W	Flange end class 150 - 20 Flange end class 300 - 50
<b>MATERIAL OF CONSTRUCTION</b>	<b>Body</b>	<b>Ball &amp; Stem</b>	<b>Seats &amp; Seals</b>
	CS - 3 304 - 15 316 - 5 304L- 19 316L- 20 A20 - 07 410 - 04		TFE - T GFT - G CFT - C

**Special service Ball Valve Code** : The Code for the type is to be prefixed with the Valve Code

OPTIONAL FEATURE	CODE	OPERATORS	CODE
Fire - Safe	FS	Worm gear operator	WG
Extended Bonnet	EB	Pneumatic Actuator	PA
ASTM Body Bolt & Nut	AS	Electric Actuator	EA
SS316 Body Bolt & Nut	S6	Chainwheel Operator	CO
Locking Device	LD		

**Ordering Variations** : To Order special Chemflo 300 series Ball Valves not covered by the above coding system, please write out a full description of the valve required.

**"BETTER... BY DESIGN!"**

# INDUSTRIAL VALVES



Ball Valve



Butterfly Valve



Knife Gate Valve



Piston Valve



**AKAY INDUSTRIES PVT LTD**

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