Guva

Guva Flow Control

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Flanged Ball Valves

B215/B230(DN15-DN250)

Flanged Ball Valves

B215/B230(DN15-DN250)

FEATURES

B215/B230 Flanged Series ball valves feature a floating ball design for low torque and increased cycle life.As standard,larger sized valves feature trunnion-type ball support.These rugged ball valves are ideal for industrial applications.Flanged Series valves with graphite stem seals have been thoroughly fire tested and meet these standards.Flanged Series valves offer ease of automation due to an integrally cast actuator mounting pad which complies with ISO 5211 through 3" valve sizes.

STEM SEAL

B215/B230 Flanged Series 1/2"-3" valves feature live-loaded,self-adjusting primary and secondary sealing.Utilizing belleville washers,the stem seal automatically adjusts to compensate for changes in temperature and normal wear.4"-10" valves utilize an independent packing gland which can be easily adjusted without removing mounting hardware or operator.The packing gland is contoured to more uniformly distribute the load across the packing.The stem packing is composed of RPTFE V-rings as standard-graphite stem packing is standard on all Fire Safe valves.

BALL

B215/B230 Flanged Series balls are precision machined and mirror finished for bubbletight shut off and les operating torque.As an added safety feature,a hole in the stem slot of each ball equalizes pressure between the body cavity and the line media flow.

BODY

B215/B230 Flanged Series bodies are normalized for the highest quality and added strength.

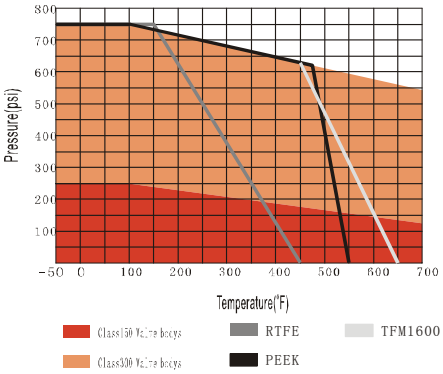
SEAT

B215/B230 Flanged Series seat design ensures bi-directional,bubble-tight sealing with low operating torque.All resilient seats feature relief slots or seat O.D. cleaance to relieve pressure past the upstream seat,and positive preloading to ensure low pressure/vacuum sealing.

SEAT SELECTION

A wide range of set materials are available to meet most applications.TFM1600,RPTFE, PTFE, UHMWPE, full metal seats and Cavity Fillers.PEEK seats offer high pressure/temperature capability.

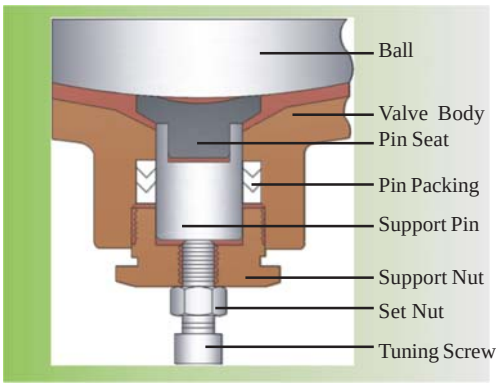
Pressure/Temperature



Note:Carbon Steel valve limited to-20°F(-29°C)

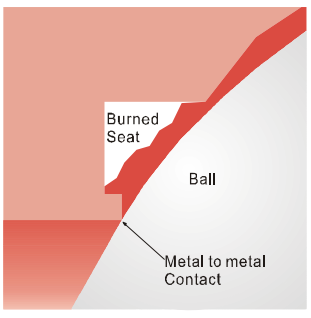
Ball Support

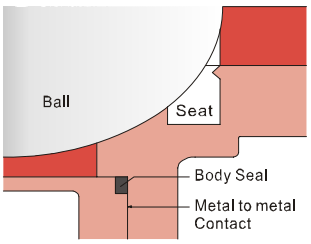
For larger valve sizes,B215/B230 Flanged Series unique trunnion-type mouting supports the ball.This support maintains a constant seat profile,preventing seat damage and blow-by.The results are less seat wear,lower torque and a longer service life.The B215/B230¡¯ ball support dramatically improves valve performance at a much lower cost than traditional trunion mounting.



Fire Safe:API607-4 Certified

B215/B230 Flanged Series valves with graphite stem packing meet the highest fire safety standards under extreme conditions.In the event of a fire,after heat destroys the primary resilient seat,the ball makes contact with the secondary metal seat,forming a secure seal.The body seal,composed of stainless steel and graphite wound into a spiral,prevents external leakage.The graphite stem rings prevent stem leakage.All valves have anti-static devices as standard-ball and stem are positively grounded.

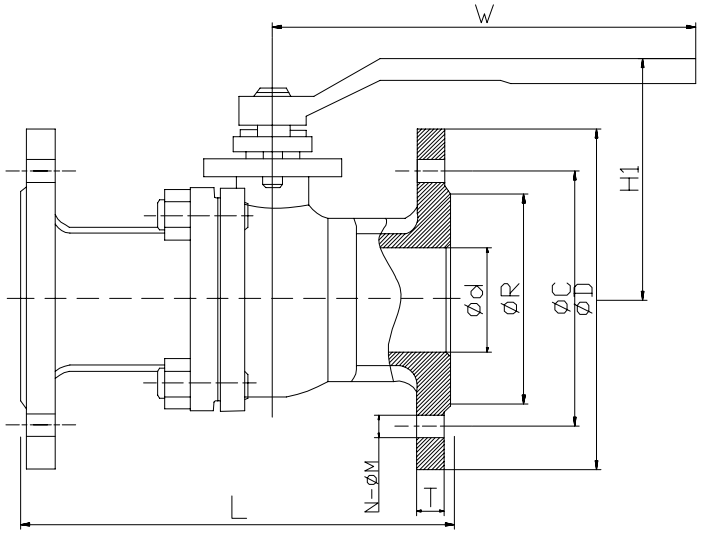


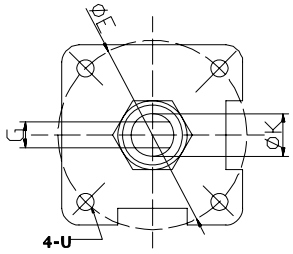


ANSI CLASS 150/300

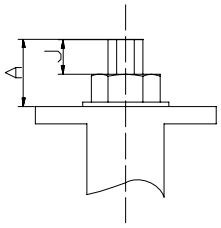
APPLICABLE STANDARDS

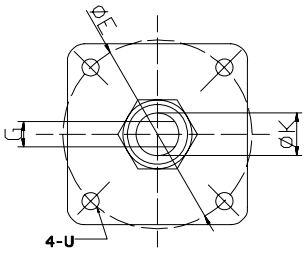
Design: ASME B16.34,API 608
Structure Length: ASME B16.10
Wall Thickness: ASME B16.34
End Flange: ASME B16.5
Inspection&Testing: API 598,API 6D
Media: water, oil, gas, Nitric acid, Acetic Acid
Temperature Range: -40~260°C





1/2"~3"





4"~10"

B215 - CLASS 150

UNIT:mm

Size		Φd	L	ΦR	ΦD	ΦC	T	H1	N	ΦM	W	G	A	J	ΦK	U	ΦE	Cv
15A	1/2	15	108	51	95	70	12	86	4	15	135	6.3	20	10	12	M5	42	32
20A	3/4	20	117	56	100	75	14	90	4	15	135	6.3	20	10	12	M5	42	60
25A	1	25	127	67	125	90	14	96	4	19	170	9	24	11	15	M6	50	115
32A	1-1/4	32	140	76	135	100	16	102	4	19	170	9	24	11	15	M6	50	180
40A	1-1/2	38	165	81	140	105	16	114	4	19	200	10	27	16	16	M8	70	275
50A	2	50	178	96	155	120	16	127	4	19	200	10	27	16	16	M8	70	500
65A	2-1/2	64	190	116	175	140	18	177	4	19	250	16	42.5	21	24	M10	102	870
80A	3	76	203	126	185	150	18	183	8	19	250	16	42.5	21	24	M10	102	1160
100A	4	100	229	151	210	175	18	214	8	19	400	18	47.5	25	29	M10	102	2100
125A	5	125	356	182	250	210	20	272.5	8	23	600	23	76.5	45	36	M10	102	3400
150A	6	150	394	212	280	240	22	313.5	8	23	800	23	76.5	45	36	M12	125	5000
200A	8	200	457	262	330	290	22	–	12	23	–	26	86	53	42	M12	125	9800
250A	10	250	533	324	400	355	24	–	12	25	–	30	107	65	51	M16	140	15000

B230 - CLASS 300

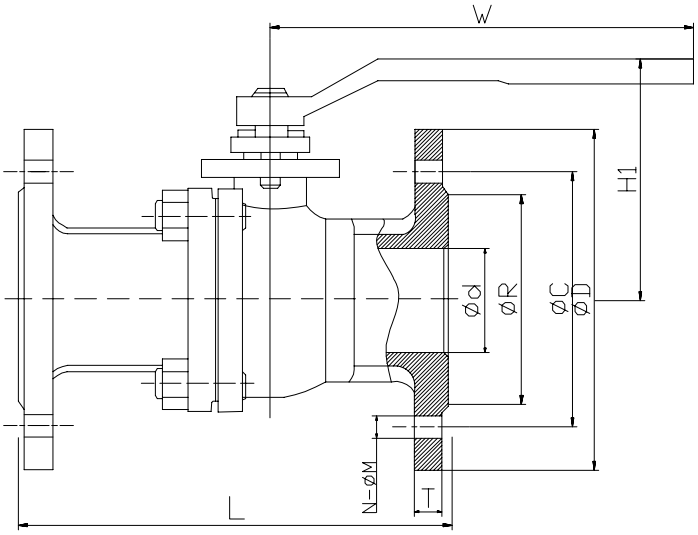
UNIT:mm

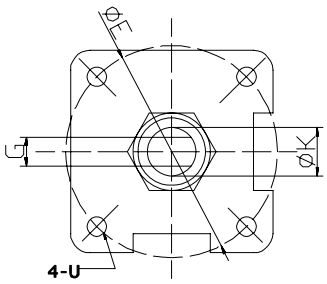
Size		Φd	L	ΦR	ΦD	ΦC	T	H1	N	ΦM	W	G	A	J	ΦK	U	ΦE	Cv
15A	1/2	15	140	51	95	70	14	86	4	15	135	6.3	20	10	12	M5	42	32
20A	3/4	20	152	56	100	75	16	90	4	15	135	6.3	20	10	12	M5	42	60
25A	1	25	165	67	125	90	16	96	4	19	170	9	24	11	15	M6	50	115
32A	1-1/4	32	178	76	135	100	18	102	4	19	170	9	24	11	15	M6	50	180
40A	1-1/2	38	190	81	140	105	18	114	4	19	200	10	27	16	16	M8	70	275
50A	2	50	216	96	155	120	18	127	8	19	200	10	27	16	16	M8	70	500
65A	2-1/2	64	241	116	175	140	20	177	8	19	250	16	42.5	21	24	M10	102	870
80A	3	76	283	132	200	160	22	183	8	23	250	16	42.5	21	24	M10	102	1160
100A	4	100	305	160	225	185	24	214	8	23	400	18	47.5	25	29	M10	102	2100
125A	5	125	381	195	270	225	26	272.5	8	25	600	23	76.5	45	36	M10	102	3400
150A	6	150	403	230	305	260	28	313.5	12	25	800	23	76.5	45	36	M12	125	5000
200A	8	200	502	275	350	305	30	–	12	25	–	26	86	53	42	M12	125	9800
250A	10	250	568	345	430	380	34	–	12	27	–	30	107	65	51	M16	140	15000

DINPN10/PN16/PN25/PN40

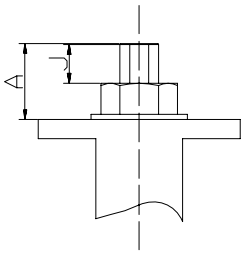
APPLICABLE STANDARDS

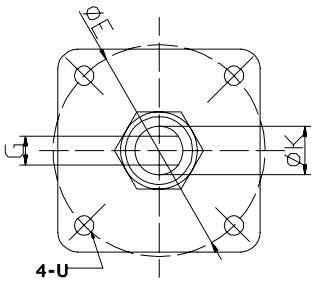
Design: DIN 3357/1,2, EN 12516-1
Structure Length:
DIN3202 F1(15mm-100mm)/F7(125mm-250mm)/F17,F4(15mm-100mm)/F5(125mm-250mm)/F18
Wall Thickness: ASME B16.34, EN12516-1
End Flange: DIN 2542-DIN 2545, EN1092
Connection: DIN 2501/1 PN10-PN40
Inspection&Testing: DIN 3230/3, EN 12266
Media: water, oil, gas, Nitric acid, Acetic Acid
Temperature Range: -40~260°C





DN15~DN80





DN100~DN250

DIN PN 10/PN16/25/40

UNIT:mm

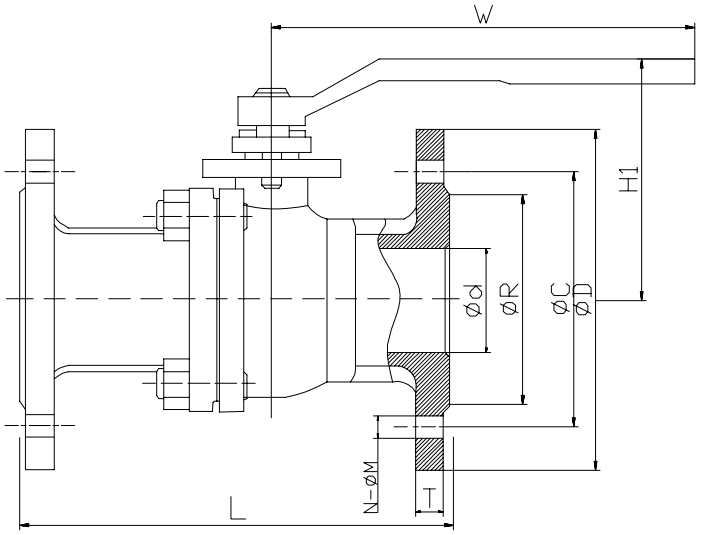
SIZE		PN	Φd	L	*L	ΦR	ΦD	ΦC	T	H1	N	ΦM	W	G	A	J	ΦK	U	ΦE	Cv
DN	Ins																			
15	1/2	10	15	115	130	45	95	65	16	86	4	14	135	6.3	20	10	12	M5	42	32
20	3/4	16	20	120	150	58	105	75	18	90	4	14	135	6.3	20	10	12	M5	42	60
25	1	25	25	125	160	68	115	85	18	96	4	14	170	9	24	11	15	M6	50	115
32	1-1/4	40	32	130	180	78	140	100	18	102	4	18	170	9	24	11	15	M6	50	180
40	1-1/2		38	140	200	88	150	110	18	114	4	18	200	10	27	16	16	M8	70	275
50	2		50	150	230	102	165	125	20	127	4	18	200	10	27	16	16	M8	70	500
65	2-1/2	10/16	64	170	290	122	185	145	18	177	4	18	250	16	42.5	21	24	M10	102	870
		25/40							22		8									
80	3	10/16	76	180	310	138	200	160	20	183	8	18	250	16	42.5	21	24	M10	102	1160
		25/40							24											
100	4	10/16	100	190	350	158	220	180	20	214	8	18	400	18	47.5	25	29	M10	102	2100
		25/40				162	235	190	24			22								
125	5	10/16	125	325	400	188	250	210	22	272.5	8	18	600	23	76.5	45	36	M10	102	3400
		25/40					270	220	26			26								
150	6	10/16	150	350	450	212	285	240	22	313.5	8	22	800	23	76.5	45	36	M12	125	5000
		25/40				218	300	250	28			26								
200	8	10	200	400	550	268	340	295	24	–	8	22	–	26	86	53	42	M12	125	9800
		16																		
		25				278	360	310	30		12	26								
		40				285	375	320	34			30								
250	10	10	250	450	650	320	395	350	26	–	12	22	–	30	107	65	51	M16	140	15000
		16					405	355				26								
		25				335	425	370	32			30								
		40				345	450	385	38			33								

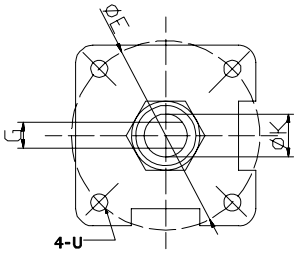
*For F1/F17

JIS10K/20K

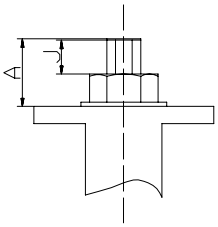
APPLICABLE STANDARDS

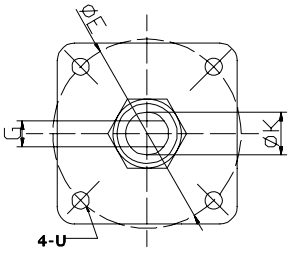
Design: ASME B16.34, API 608
Structure Length: JIS B2002 (ASME B16.10)
Wall Thickness: ASME B16.34
End Flange: JIS B2238
Inspection&Testing: JIS B2003, API 6D
Media: water, oil, gas, Nitric acid¡¢Acetic Acid
Temperature Range: -40~260°C





15A~80A





100A~250A

B215 - JIS 10K

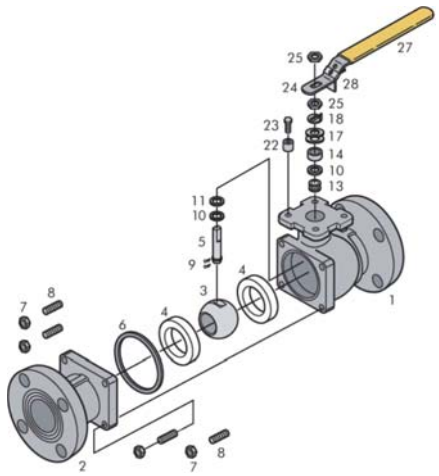
UNIT:mm

Size		Φd	L	ΦR	ΦD	ΦC	T	H1	N	ΦM	W	G	A	J	ΦK	U	ΦE	Cv
15A	1/2	15	108	51	95	70	12	86	4	15	135	6.3	20	10	12	M5	42	32
20A	3/4	20	117	56	100	75	14	90	4	15	135	6.3	20	10	12	M5	42	60
25A	1	25	127	67	125	90	14	96	4	19	170	9	24	11	15	M6	50	115
32A	1-1/4	32	140	76	135	100	16	102	4	19	170	9	24	11	15	M6	50	180
40A	1-1/2	38	165	81	140	105	16	114	4	19	200	10	27	16	16	M8	70	275
50A	2	50	178	96	155	120	16	127	4	19	200	10	27	16	16	M8	70	500
65A	2-1/2	64	190	116	175	140	18	177	4	19	250	16	42.5	21	24	M10	102	870
80A	3	76	203	126	185	150	18	183	8	19	250	16	42.5	21	24	M10	102	1160
100A	4	100	229	151	210	175	18	214	8	19	400	18	47.5	25	29	M10	102	2100
125A	5	125	356	182	250	210	20	272.5	8	23	600	23	76.5	45	36	M10	102	3400
150A	6	150	394	212	280	240	22	313.5	8	23	800	23	76.5	45	36	M12	125	5000
200A	8	200	457	262	330	290	22	–	12	23	–	26	86	53	42	M12	125	9800
250A	10	250	533	324	400	355	24	–	12	25	–	30	107	65	51	M16	140	15000

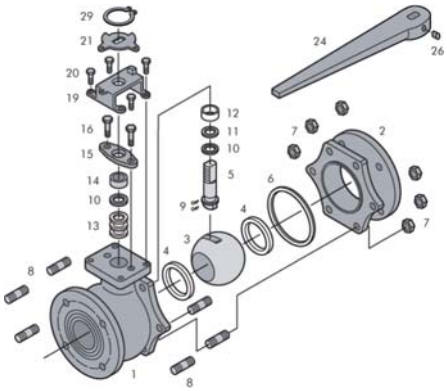
B230 - JIS 20K

UNIT:mm

Size		Φd	L	ΦR	ΦD	ΦC	T	H1	N	ΦM	W	G	A	J	ΦK	U	ΦE	Cv
15A	1/2	15	140	51	95	70	14	86	4	15	135	6.3	20	10	12	M5	42	32
20A	3/4	20	152	56	100	75	16	90	4	15	135	6.3	20	10	12	M5	42	60
25A	1	25	165	67	125	90	16	96	4	19	170	9	24	11	15	M6	50	115
32A	1-1/4	32	178	76	135	100	18	102	4	19	170	9	24	11	15	M6	50	180
40A	1-1/2	38	190	81	140	105	18	114	4	19	200	10	27	16	16	M8	70	275
50A	2	50	216	96	155	120	18	127	8	19	200	10	27	16	16	M8	70	500
65A	2-1/2	64	241	116	175	140	20	177	8	19	250	16	42.5	21	24	M10	102	870
80A	3	76	283	132	200	160	22	183	8	23	250	16	42.5	21	24	M10	102	1160
100A	4	100	305	160	225	185	24	214	8	23	400	18	47.5	25	29	M10	102	2100
125A	5	125	381	195	270	225	26	272.5	8	25	600	23	76.5	45	36	M10	102	3400
150A	6	150	403	230	305	260	28	313.5	12	25	800	23	76.5	45	36	M12	125	5000
200A	8	200	502	275	350	305	30	–	12	25	–	26	86	53	42	M12	125	9800
250A	10	250	568	345	430	380	34	–	12	27	–	30	107	65	51	M16	140	15000



1/2"~3"



4"~10"

PART MATERIALS OF CONSTRUCTION

Item	Name	Stainless Sleel	Carbon Steel	Qty.
1	Body	ASTMA351 Gr CF8M	ASTMA216 Gr WCB	1
2	End Cap	ASTMA351 Gr CF8M	ASTMA216 Gr WCB	1
3	Ball	ASTMA351 Gr CF8M	ASTMA351 Gr CF8M	1
4	Seal	TFM 1600	TFM 1600	2
5	Stem	ASTM A479 Type 316	ASTM A479Type 316	1
6	Body Seal	Spiral Wound (316/Graphite)	Spiral Wound (316/Graphite)	1
7	Body Nut	ASTM Al94 Gr 8	ASTMA194 2H	*
8	Body Stud	ASTM A193 B8	ASTMA193B7	*
9		SS304	SS304	2
10A	Pacting Protector	PEEK	PEEK	1
10B	Thrust Washer Protector	PEEK	PEEK	1
11	Thrust Washer	50%SS316 + 50% PTFE	50%SS316 + 50% PTFE	1
12	Stem Bearing	15%RPTFE	15% RPTFE	1
13	Stern Packing	PPTFE/Graphite	RPTFE/Graphite	3
14	Packing Gland	ASTMAl67Type 304	ASTM Al 67 Type 304	1
15	Packing Follower	ASTM A564Gr 630 (17-4ph)	ASTM A216 Gr WCB	1
16	Gland Belt	SS304	SS304	2
17	Belleville Washer	SS301	SS301	2
18	Tab Lock Washer	SS30O	SS300	1
19	Travel Stop Housing	CF8M	WCB	1
20	Housing Bolt	SS300	SS300	4
21	Travel Stop	SS304	Zinc Plated Carbon Steel	1
22	Travel Stop Sleeve	ASTM A167 Type 304	ASTM Al 67 Type 304	1
23	Travel Stop Bolt	SS30O	SS300	1
24	Handle	SS304/Ductile Iron	SS304/Ductile Iron	1
25	Lock Nut	ASTM Al67 Type 304	ASTM Al 67 Type 304	2
26	Handle Bolt	Carbon Steel	Carbon Steel	1
27	Handle Sleeve	Vinyl through 3"	Vinyl through3"	1
28	locking Device	SS304	Ss304	1
29	Snap Ring	Nickel Plated Carbon Steel	Nickel Plated Carbon Steel	2

Need more information, contact with GUVA manufacturers and leaders.

(*Quantity depends on valve size.)

All the instructions, technical information and specifications in this article are only suitable for general application. As for the special requirements material selection you need, please consult GUVA manufacturer.

Guva International, Inc

U.S. Valves and Flow Controls Manufacturers