



岸上バルブ株式会社
KISHIGAMI VALVE CO., LTD.



本社・八尾工場

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大阪府八尾市老原 4-12

中国事務所

〒116006
大連市中山区世紀街26号1单元時代
広場B座908室

Product catalog

INDEX

- P.02 **F7427 (F7301, F7303)** Marine Bronze 5K, 16K Globe Valves
F7427 (F7302, F7304) Marine Bronze 5K, 16K Angle Valves
- P.03 **F7427 (F7334)** Marine Bronze Hose Globe Valves
F7425 (F7333) Marine Cast Iron Hose Globe Valves
- P.04 **F7427 (F7334)** Marine Bronze Hose Angle Valves
F7425 (F7333) Marine Cast Iron Hose Angle Valves
- P.05 **F7370 (F7343)** Marine Bronze 20K Pressure Gauge Cocks
F7427 (F7346, F7347, F7348, F7349) Marine Bronze 5K, 16K Globe Valves & Angle Valves (Union Bonnet Type)
- P.06 **F7427 (F7351, F7352, F7409, F7410)** Marine Bronze 5K, 16K Screw-down Check Globe Valves & Angle Valves
F7427 Marine Bronze 5K Lift Check Globe Valves & Angle Valves
F7427 (F7367, F7368) Marine Bronze 5K, 10K Rising Stem Type Gate Valves
- P.07 **F7427 (F7371)** Marine Bronze 5K Swing Check Valves
F7379 Brass 30K Stop Valves With Bite Joint
F7370 (F7381) Marine Bronze 5K Flanged Cocks
- P.08 **F7370 (F7387)** Marine Bronze 16K Cocks
F7427 (F7388) Marine Bronze 20K Globe Valves
F7427 (F7389) Marine Bronze 20K Angle Valves
- P.09 **F7370 (F7390)** Marine Cocks With Lock
F7398 Marine Fuel Oil Tank Self-Closing Drain Valves
- P.10 **F7399** Marine Fuel Oil Tank Emergency Shut-off Valves
- P.11 **F7427 (F7403, F7404 etc.)** Marine Hull Bronze Globe Valves & Angle Valves (With Indicator or Limit Switch)
F7427 (F7411, F7412, F7413, F7414) Marine Bronze 5K, 16K Screw-down Check Globe Valves & Angle Valves (Union Bonnet Type)
- P.12 **F7216** Marine Self Closing Valves for Oil Level Gauges
F7427 (F7415, F7416, F7417, F7418) Marine Bronze 5K, 16K Lift Check Globe Valves & Angle Valves (Union Bonnet Type)
- P.13 **F7505 (F7490, F7491, F7494, F7496, F7498, F7500)** Marine Spheroidal Ductile Iron 5K, 10K, 16K Globe Valves & Angle Valves
F7505 (F7492, F7493, F7495, F7497, F7499, F7504) Marine Spheroidal Ductile Iron 5K, 10K, 16K Screw-down Check Globe Valves & Angle Valves
- P.14 **F7426 (F7319, F7320, F7313, F7314)** Marine Cast Steel 10K, 20K Globe Valves & Angle Valves
F7426 (F7471, F7472, F7473, F7474) Marine Cast Steel 10K, 20K Screw-down Check Globe Valves & Angle Valves (Stem-Guide Type)
- P.15 **F3019** Self-Closing Gate Valve Heads for Short Sounding Pipe
 Quasi-JIS Flanged Globe Valves
 Ordinary-Sized Flanged Stop Valves
- P.16 Ships Drain Plugs (B Type)
 Ships Drain Plugs (D Type)
 Caps For Sounding Pipe
 Caps For Filling Pipe
- P.17 Water Jet Eductor
 Window Washer 3/8 For Wheel House
 Surface Valves
 Storm Valves
- P.18 **NDS F7372B, NDS F7373B** 5K, 10K Flanged Globe Valves & Angle Valves
NDS F7378B, NDS F7379B 5K, 10K Flanged Gate Valves
- P.19 **B2011** 10K Flanged Globe Valves
 10K Flanged Angle Valves
 5K, 10K Screwed Globe Valves
- P.20 **F7425 (F7305, F7306, F7307, F7308, F7309, F7310)** Marine Cast Iron 5K, 10K, 16K Globe Valves & Angle Valves
- P.21 **F7425 (F7353, F7354, F7375, F7376, F7377, F7378)** Marine Cast Iron 5K, 10K, 16K Screw-down Check Globe Valves & Angle Valves
- P.22 **F7425 (F7358, F7359)** Marine Cast Iron 5K Lift Check Globe Valves & Angle Valves
F7425 (F7372, F7373) Marine Cast Iron 5K, 10K Swing Check Valves
- P.23 **F7425 (F7363, F7364)** Marine Cast Iron 5K, 10K, 16K Gate Valves
- P.24 バルブの取扱いに関する注意事項
- P.25-26 テクニカルドキュメント

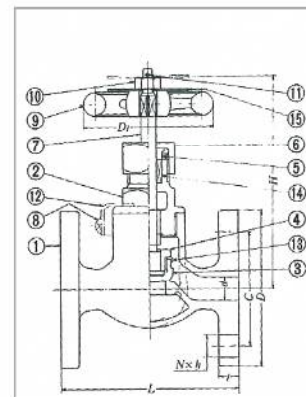
CORPORATE PROFILE

Name of Company	KISHIGAMI VALVE CO., LTD.	
Capital	Japanese Yen 80,750,000	
Established	3rd.Nov.1927	
Location	Head office / Yao works Okayama works Oihara works China office	2-54, Minamikinomoto, Yao-shi, Osaka, 581-0042, Japan TEL.+81-72-923-1663 FAX.+81-72-992-1263 375, Kusama, Niimi-shi, Okayama, 719-2641, Japan TEL.+81-867-74-2070 FAX.+81-867-74-2071 4-12, Oihara, Yao-shi, Osaka, 581-0092, Japan RM, 908, Unit1, Shidai Guangchang B Bldg, 26 Century St, Zhongshan Dist, Dalian, 116006, China
Board of Directors	President Director Director Director Auditor	Yoshihiro Kishigami Katsunobu Kishigami Kazuaki Yamamoto Sakiyo Kishigami Hiroo Sawai
Bank Reference	MUFG Bank, Ltd. Osaka shoko shinkin Bank. Sumitomo Mitsui Banking Corporation. Mizuho Bank, Ltd.	
Business Item	Marine Valves (Bronze,Cast Steel, Ductile Iron, Cast Iron Stainless Steel etc.) Valves for Vessels. Valves and Fittings for Power Station and Nuclear Power Station etc.	
Employee	90	
Qualification	Japanese Industrial Standards(HKJP06003) Lloyd's Register DNV GL AS	
Membership	Japan Ship Machinery and Equipment Association (JSMEA) Japan Valve Manufacturers' Association(JVMA) Yao Chamber Of Commerce And Industry	
URL	http://www.kishigami-valve.co.jp	
Mail	info@kishigami-valve.co.jp	
商号	岸上バルブ株式会社	
資本金	8,075万円	
創立	昭和2年11月3日	
所在地	本社・八尾工場 岡山工場 老原工場 中国事務所	〒581-0042 大阪府八尾市南木の本 2-54 TEL: 072(923)1663(代) FAX: 072(992)1263 〒719-2641 岡山県新見市草間 375 TEL: 0867(74)2070(代) FAX: 0867(74)2071 〒581-0092 大阪府八尾市老原 4-12 〒116006 大連市中山区世紀街26号1单元時代広場B座908室
会社役員	代表取締役社長 専務取締役 取締役 取締役 監査役	岸上好廣 岸上勝信 山元和秋 岸上幸世 澤井宏郎
主要取引銀行	三菱UFJ銀行、大阪商工信用金庫、三井住友銀行、みずほ銀行	
営業品目	船用青銅弁、鑄鋼弁、ダクタイル弁、鑄鉄弁、ステンレス弁 他 艦船用青銅弁(NDS規格)、原子力・火力発電所等プラント用青銅弁 他 フランジ(銅合金製特殊フランジ等) 船用ギ装品 等	
従業員数	90名 (令和2年6月現在)	
認証及び承認	JIS認証許可工場(HKJP06003) LR製造認定工場 DNV・GL製造認定工場 プラントメーカー殿より品質保証体制の認定	
加入団体	一般社団法人日本船用工業会 一般社団法人日本バルブ工業会 八尾商工会議所	
ホームページ	http://www.kishigami-valve.co.jp	
メールアドレス	info@kishigami-valve.co.jp	

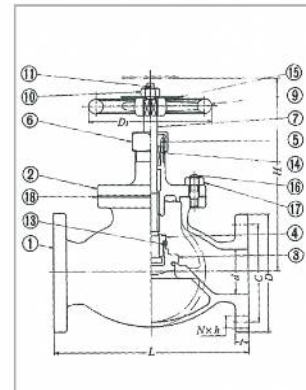
F7427 (F7301, F7303)

Marine Bronze 5K, 16K Globe Valves

Nominal Dia 15 to 40



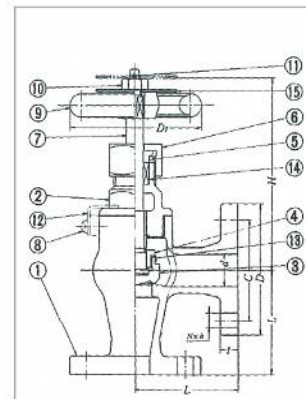
Nominal Dia 50 to 65



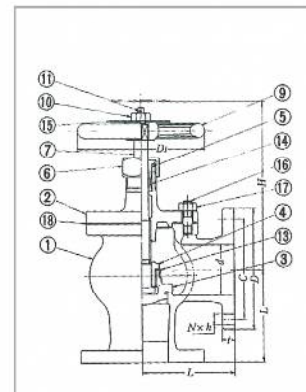
F7427 (F7302, F7304)

Marine Bronze 5K, 16K Angle Valves

Nominal Dia 15 to 40



Nominal Dia 50 to 65



Nominal Pressure		5K					16K			
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)					3.3MPa(33kgf/cm ²)			
	Seat	0.77MPa(7.7kgf/cm ²)					2.42MPa(2.42kgf/cm ²)			
Nominal		d	L	D	C	N	h	t	H	D
Press.	Dia									
5K (F7301)	15	15	100	80	60	4	12	9	130	80
	20	20	110	85	65	4	12	10	140	100
	25	25	120	95	75	4	12	10	160	125
	32	32	140	115	90	4	15	12	170	125
	40	40	160	120	95	4	15	12	190	140
	50	50	210	130	105	4	15	14	235	140
16K (F7303)	65	65	250	155	130	4	15	14	260	160
	15	15	110	95	70	4	15	12	130	80
	20	20	120	100	75	4	15	14	140	100
	25	25	130	125	90	4	19	14	160	125
	32	32	160	135	100	4	19	16	170	125
40	40	180	140	105	4	19	16	190	140	

No.	Item	Material	No.	Item	Material
1	Body	CAC406	10	Hexagon Nut	C3604BD
2	Bonnet	CAC406 or	11	Split Pin	C2600W
3	Disc	C3771BD	12	Lock Plate	C2600P
4	Disc Nut	C3604BD	13	Lock Washar	C2600P
5	Gland	C3604BD	14	Packing	JIS F7102
6	Gland Nut	C3604BD	15	Name Plate	C2801P
7	Stem	C3771BD	16	Stud Bolt	C3771BD
8	Set Screw	C2700W	17	Hexagon Nut	C3604BD
9	Hand Wheel	FC200	18	Gasket	JIS F7102

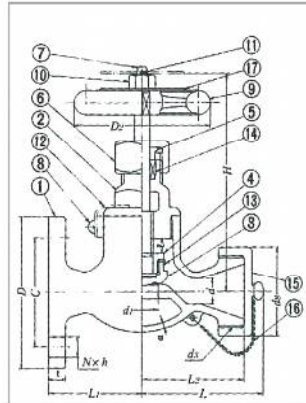
Nominal Pressure		5K					16K			
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)					3.3MPa(33kgf/cm ²)			
	Seat	0.77MPa(7.7kgf/cm ²)					2.42MPa(24.2kgf/cm ²)			
Nominal		d	L	D	C	N	h	t	H	D1
Press.	Dia									
5K (F7302)	15	15	55	80	60	4	12	9	120	80
	20	20	60	85	65	4	12	10	130	100
	25	25	65	95	75	4	12	10	145	125
	32	32	80	115	90	4	15	12	150	125
	40	40	85	120	95	4	15	12	165	140
16K (F7304)	50	50	100	130	105	4	15	14	200	140
	65	65	115	155	130	4	15	14	220	160
	15	15	70	95	70	4	15	12	120	80
	20	20	75	100	75	4	15	14	130	100
	25	25	85	125	90	4	19	14	145	125
	32	32	95	135	100	4	19	16	150	125
	40	40	100	140	105	4	19	16	165	140

No.	Item	Material	No.	Item	Material
1	Body	CAC406	10	Hexagon Nut	C3604BD
2	Bonnet	CAC406 or C3771BD	11	Split Pin	C2600W
3	Disc		12	Lock Plate	C2600P
4	Disc Nut	C3604BD	13	Lock Washar	C2600P
5	Gland	C3604BD	14	Packing	JIS F7102
6	Gland Nut	C3604BD	15	Name Plate	C2801P
7	Stem	C3771BD	16	Stud Bolt	C3771BD
8	Set Screw	C2700W	17	Hexagon Nut	C3604BD
9	Hand Wheel	FC200	18	Gasket	JIS F7102

F7427 (F7334)

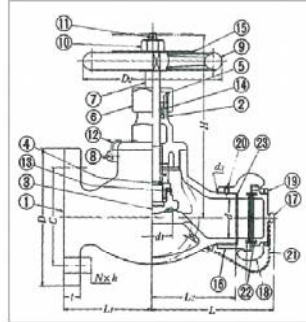
Marine Bronze Hose Globe Valves

Nominal Dia
15 and 25



Nominal Pressure				5K								10K								
Hydraulic Inspection	Body			1.05MPa(10.5kgf/cm ²)								2.1MPa(21kgf/cm ²)								
	Seat			0.77MPa(7.7kgf/cm ²)								1.54MPa(15.4kgf/cm ²)								
Nominal Dia	Press.	d	d1	L	D	C	N	h	t	H	ℓ	D2	d3	a	L1	L2	d8			
15	5K	15	20	73	80	60	4	12	9	130	5	80	M42×2	3	50	60	52			
	10K	15	20	73	95	70	4	15	12	130	5	80	M42×2	4	55	60	52			
25	5K	25	30	78	95	75	4	12	10	160	8	125	M42×2	4	60	65	52			
	10K	25	30	83	125	90	4	19	14	160	8	125	M42×2	4	65	70	52			
No.	Item	Material					No.	Item	Material					No.	Item	Material				
1	Body	CAC406					7	Stem	C3771BD					13	Lock Washer	C2600P				
2	Bonnet	CAC406 or					8	Set Screw	C2700W					14	Packing	JIS F7102				
3	Disc	C3771BD					9	Hand Wheel	FC200					15	Cap	CAC406				
4	Disc Nut	C3604BD					10	Hexagon Nut	C3604BD					16	Chain	SUS304				
5	Gland	C3604BD					11	Split Pin	C2600W					17	Name Plate	C2801P				
6	Gland Nut	C3604BD					12	Lock Plate	C2600P					-	-	-				

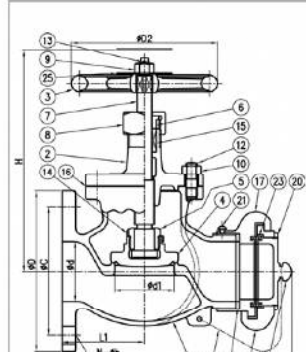
Nominal Dia 40



Nominal		d	d1	L	D	C	N	h	t	H	ℓ	D2	d3	a	L1	L2
Dia	Press.															
40	5K	40	45	128.5	120	95	4	15	12	190	14	140	M52×2	5	80	80
	10K	40	45	133.5	140	105	4	19	16	190	14	140	M52×2	6	90	85

No.	Item	Material	No.	Item	Material	No.	Item	Material
1	Body	CAC406	9	Hand Wheel	FC200	17	Cap	CAC406
2	Bonnet	CAC406 or	10	Hexagon Nut	C3604BD	18	Coupling Ring	CAC406
3	Disc	C3771BD	11	Split Pin	C2600W	19	Set Ring	CAC406
4	Disc Nut	C3604BD	12	Lock Plate	C2600P	20	Set Screw	C2700W
5	Gland	C3604BD	13	Lock Washar	C2600P	21	Chain	SUS304
6	Gland Nut	C3604BD	14	Packing	JIS F7102	22	Gasket	Rubber
7	Stem	C3771BD	15	Name Plate	C2801P	23	Gasket	Rubber
8	Set Screw	C2700W	16	Base Connection	CAC406	-	-	-

Nominal Dia
50 and 65



Nominal		d	d1	L	L1	D	C	N	h	t	H	D2	W (kg)
Dia	Press.												
50	5K	50	50	160	105	130	105	4	15	14	230	140	11.6
	10K	50	50	165	110	155	120	4	19	15	230	140	12.5
65	5K	65	65	160	90	155	130	4	15	14	250	160	13.7
	10K	65	65	160	90	175	140	4	19	15	250	160	15.5

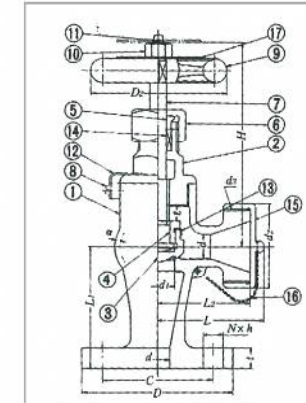
No.	Item	Material	No.	Item	Material	No.	Item	Material
1	Body	CAC406	10	Hexagon Nut	C3604BD	19	Coupling Ring	CAC406
2	Bonnet	CAC406	11	-	-	20	Set Ring	CAC406
3	Hand Wheel	FC200	12	Stud Bolt	C3771BD	21	Set Screw	C2700W
4	Disc	CAC406	13	Split Pin	C2600W	22	Chain	SUS304
5	Disc Nut	C3604BD	14	Lock Washar	C2600P	23	Gasket	Rubber
6	Gland	C3771BD	15	Packing	JIS F7102	24	Gasket	Rubber
7	Stem	C3771BD	16	Gasket	JIS F7102	25	Name Plate	C2801P
8	Gland Nut	C3604BD	17	Base Connection	CAC406	-	-	-
9	Hexagon Nut	C3604BD	18	Cap	CAC406	-	-	-

Inside Screw Stem Type

F7427 (F7334)

Marine Bronze Hose Angle Valves

Nominal Dia
15 and 25



Nominal Pressure						5K							10K						
Hydraulic Inspection	Body					1.05MPa(10.5kgf/cm ²)							2.1MPa(21kgf/cm ²)						
	Seat					0.77MPa(7.7kgf/cm ²)							1.54MPa(15.4kgf/cm ²)						
Nominal		d	d1	L	D	C	N	h	t	H	ℓ	D2	d3	a	L1	L2	d8		
Dia	Press.																		
15	5K	15	20	68	80	60	4	12	9	120	5	80	M42×2	3	55	55	52		
	10K	15	20	73	95	70	4	15	12	120	5	80	M42×2	4	70	60	52		
25	5K	25	30	78	95	75	4	12	10	145	8	125	M42×2	4	65	65	52		
	10K	25	30	83	125	90	4	19	14	145	8	125	M42×2	4	85	70	52		
No.	Item	Material					No.	Item	Material					No.	Item	Material			
1	Body	CAC406					7	Stem	C3771BD					13	Lock Washar	C2600P			
2	Bonnet	CAC406 or					8	Set Screw	C2700W					14	Packing	JIS F7102			
3	Disc	C3771BD					9	Hand Wheel	FC200					15	Cap	CAC406			
4	Disc Nut	C3604BD					10	Hexagon Nut	C3604BD					16	Chain	SUS304			
5	Gland	C3604BD					11	Split Pin	C2600W					17	Name Plate	C2801P			
6	Gland Nut	C3604BD					12	Lock Plate	C2600P					-			-		

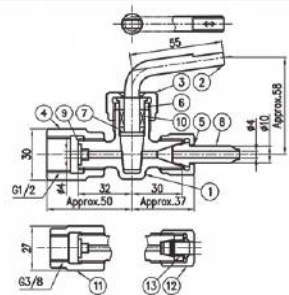
F7370 (F7343)

Marine Bronze 20K Pressure Gauge Cocks

3/8



1/2

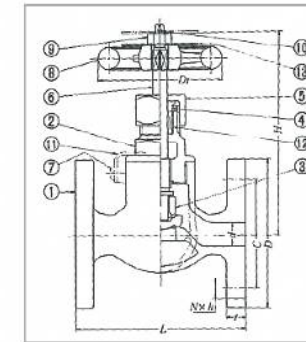


Hydraulic Inspection	Body	3.0MPa(30kgf/cm ²)
	Plug	2.2MPa(22kgf/cm ²)
No.	Item	Material
1	Body	CAC406
2	Plug	CAC406
3	Gland Nut	C3771BD or CAC406
4	Type 1/2 Union Nut	C3771BD
5	Union Nut For Nipple	C3771BD
6	Packing Gland	C3771BD
7	Seat Ring	C3771BD
8	Nipple	C3771
9	Gasket	C1100BD
10	Packing	JIS F7102
11	Type 3/8 Union Nut	C3771BD
12	Union Nut	C3604BD
13	Sleeve	C3604BD

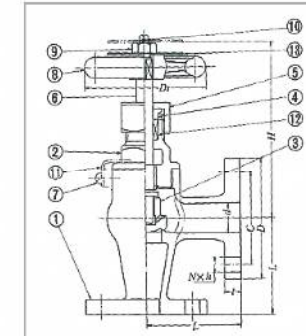
F7427 (F7351, F7352, F7409, F7410)

Marine Bronze 5K, 16K Screw-down Check Globe Valves & Angle Valves

Globe Type



Angle Type



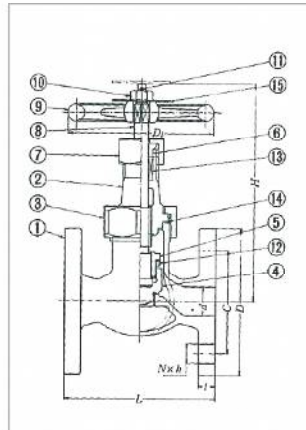
Nominal Pressure			5K					16K			
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)					3.3MPa(33kgf/cm ²)				
	Seat	0.77 to 0.4MPa(7.7 to 4kgf/cm ²)					2.42 to 0.4MPa(24.2 to 4kgf/cm ²)				
Type	Nominal Press.	Dia	d	L	D	C	N	h	t	H	D1
Globe Check Valve	5K (F7351)	15	15	100	80	60	4	12	9	130	80
		20	20	110	85	65	4	12	10	140	100
		25	25	120	95	75	4	12	10	155	125
		32	32	140	115	90	4	15	12	165	125
	16K (F7409)	40	40	160	120	95	4	15	12	185	140
		15	15	110	95	70	4	15	12	130	80
		20	20	120	100	75	4	15	14	140	100
		25	25	130	125	90	4	19	14	155	125
		32	32	160	135	100	4	19	16	165	125
		40	40	180	140	105	4	19	16	185	140
Angle Check Valve	5K (F7352)	15	15	55	80	60	4	12	9	120	80
		20	20	60	85	65	4	12	10	125	100
		25	25	65	95	75	4	12	10	140	125
		32	32	80	115	90	4	15	12	145	125
	16K (F7410)	40	40	85	120	95	4	15	12	160	140
		15	15	70	95	70	4	15	12	120	80
		20	20	75	100	75	4	15	14	125	100
		25	25	85	125	90	4	19	14	140	125
		32	32	95	135	100	4	19	16	145	125
		40	40	100	140	105	4	19	16	160	140

No.	Item	Material	No.	Item	Material
1	Body	CAC406	8	Hand Wheel	FC200
2	Bonnet	CAC406 or C3771BD	9	Hexagon Nut	C3604BD
3	Disc	C3771BD	10	Split Pin	C2600W
4	Gland	C3604BD	11	Lock Plate	C2600P
5	Gland Nut	C3604BD	12	Packing	JIS F7102
6	Stem	C3771BD	13	Name Plate	C2801P
7	Set Screw	C2700W	-	-	-

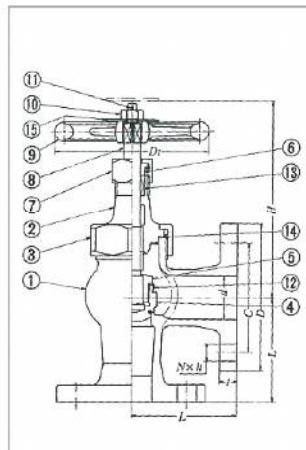
F7427 (F7346, F7347, F7348, F7349)

Marine Bronze 5K, 16K Globe Valves & Angle Valves (Union Bonnet Type)

Globe Type



Angle Type

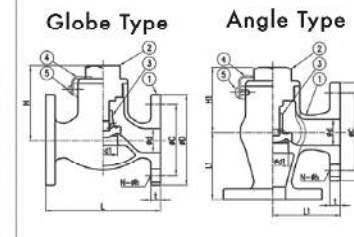


Nominal Pressure			5K					16K			
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)					3.3MPa(33kgf/cm ²)				
	Seat	0.77MPa(7.7kgf/cm ²)					2.42MPa(24.2kgf/cm ²)				
Type	Nominal		d	L	D	C	N	h	t	H	D1
	Press.	Dia									
Globe Valve	5K (F7346)	15	15	100	80	60	4	12	9	155	80
		20	20	110	85	65	4	12	10	165	100
		25	25	120	95	75	4	12	10	185	125
		32	32	140	115	90	4	15	12	195	125
	16K (F7348)	40	40	160	120	95	4	15	12	210	140
		15	15	110	95	70	4	15	12	155	80
		20	20	120	100	75	4	15	14	165	100
		25	25	130	125	90	4	19	14	185	125
		32	32	160	135	100	4	19	16	195	125
		40	40	180	140	105	4	19	16	210	140
Angle Valve	5K (F7347)	15	15	55	80	60	4	12	9	145	80
		20	20	60	85	65	4	12	10	155	100
		25	25	65	95	75	4	12	10	175	125
		32	32	80	115	90	4	15	12	175	125
	16K (F7349)	40	40	85	120	95	4	15	12	190	140
		15	15	70	95	70	4	15	12	145	80
		20	20	75	100	75	4	15	14	155	100
		25	25	85	125	90	4	19	14	175	125
		32	32	95	135	100	4	19	16	175	125
		40	40	100	140	105	4	19	16	190	140

No.	Item	Material	No.	Item	Material
1	Body	CAC406	9	Hand Wheel	FC200
2	Bonnet	CAC406 or C3771BD	10	Hexagon Nut	C3604BD
3	Bonnet Nut	C3771BD	11	Split Pin	C2600W
4	Disc	C3604BD	12	Lock Washer	C2600P
5	Disc Nut	C3604BD	13	Packing	JIS F7102
6	Gland	C3604BD	14	Gasket	JIS F7102
7	Gland Nut	C3604BD	15	Name Plate	C2801P
8	Stem	C3771BD	-	-	-

F7427

Marine Bronze 5K Lift Check Globe Valves & Angle Valves



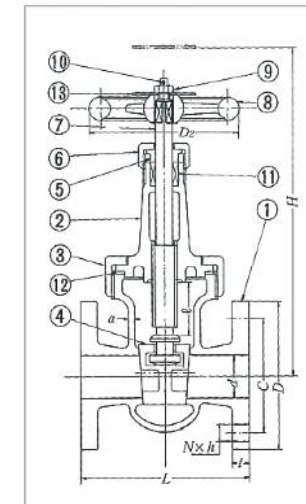
Hydraulic Inspection	Body Seat		1.05MPa(10.5kgf/cm ²) 0.77 to 0.4MPa(7.7 to 4kgf/cm ²)								
	Nominal Dia	d	d1	L	L1	D	C	N	h	t	H
15	15	20	100	55	80	60	4	12	9	62	52
20	20	25	110	60	85	65	4	12	10	71	58
25	25	30	120	65	95	75	4	12	10	77	62
32	32	37	140	80	115	90	4	15	12	81	61
40	40	45	160	85	120	95	4	15	12	91	67

No.	Item	Material	No.	Item	Material
1	Body	CAC406	4	Lock Plate	C2600P
2	Bonnet	CAC406	5	Set Screw	C2700W
3	Disc	C3771BD	-		

No.	Item	Material	No.	Item	Material
1	Body	CAC406	4	Lock Plate	C2600P
2	Bonnet	CAC406	5	Set Screw	C2700W
3	Disc	C3771BD	-	-	-

F7427 (F7367, F7368)

Marine Bronze 5K, 10K Rising Stem Type Gate Valves



Nominal Pressure			5K							10K			
Hydraulic Inspection		Body Seat	1.05MPa(10.5kgf/cm ²)							2.1MPa(21kgf/cm ²)			
			0.77MPa(7.7kgf/cm ²)							1.54MPa(15.4kgf/cm ²)			
Nominal Press.		Dia	d	L	D	C	N	h	t	H	ℓ	D2	a
5K (F7367)	15	15	90	80	60	4	12	9	175	21.5	80	3.5	
	20	20	100	85	65	4	12	10	200	27	80	4	
	25	25	110	95	75	4	12	10	220	32.5	100	4.5	
	32	32	130	115	90	4	15	12	250	39.5	100	5	
10K (F7368)	40	40	140	120	95	4	15	12	290	48	125	6	
	15	15	100	95	70	4	15	12	175	21.5	80	3.5	
	20	20	110	100	75	4	15	14	200	27	80	4	
	25	25	120	125	90	4	19	14	220	32.5	100	4.5	
	32	32	140	135	100	4	19	16	250	39.5	100	5	
	40	40	150	140	105	4	19	16	290	48	125	6	

No.	Item	Material	No.	Item	Material
1	Body	CAC406	8	Hand Wheel	FC200
2	Bonnet	CAC406	9	Hexagon Nut	C3604BD
3	Bonnet Nut	CAC406	10	Split Pin	C2600W
4	Disc	CAC406	11	Packing	JIS F7102
5	Gland	C3604BD	12	Gasket	JIS F7102
6	Gland Nut	C3604BD	13	Name Plate	C2801P
7	Stem	C3771BD	-	-	-

F7427 (F7403, F7404 etc.)

Marine Hull Bronze Globe Valves & Angle Valves (With Indicator or Limit Switch)

With Indicator Type

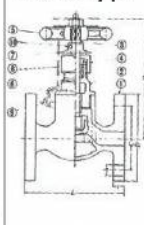
Globe



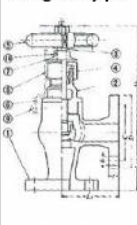
Angle



Globe Type



Angle Type



With Limit Switch Type

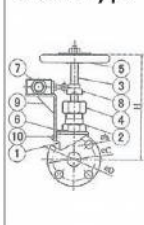
Globe



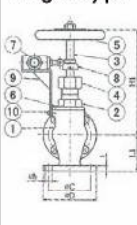
Angle



Globe Type



Angle Type

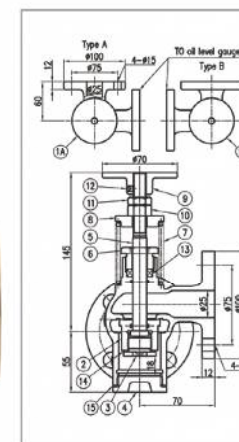


Nominal Pressure		5K							16K						
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)							3.3MPa(33.0kgf/cm ²)						
	Seat	0.77MPa(7.7kgf/cm ²)							2.42MPa(24.2kgf/cm ²)						
Nominal Press.	Dia	Indicator							Limit Switch						
		L	L1	D	C	N	h	t	H	H1	H	H1	H	H1	H
5K	15	100	55	80	60	4	12	9	135	125	175	165			
	20	110	60	85	65	4	12	10	145	135	185	175			
	25	120	65	95	75	4	12	10	165	150	205	190			
	32	140	80	115	90	4	15	12	175	155	215	195			
16K	40	160	85	120	95	4	15	12	195	170	235	210			
	15	110	70	95	70	4	15	12	135	125	175	165			
	20	120	75	100	75	4	15	14	145	135	185	175			
	25	130	85	125	90	4	19	14	165	150	205	190			
	32	160	95	135	100	4	19	16	175	155	215	195			
	40	180	100	140	105	4	19	16	195	170	235	210			

With Indicator			With Limit Switch		
No.	Item	Material	No.	Item	Material
1	Body	CAC406	1	Body	CAC406
2	Bonnet	CAC406	2	Bonnet	CAC406
3	Stem	C3771BD	3	Stem	C3771BD
4	Gland Nut	C3604BD	4	Gland Nut	C3604BD
5	Hand Wheel	FC200	5	Hand Wheel	FC200
6	Lock Plate	C2600P	6	Lock Plate	C2600P
7	Indicator	C3604BD	7	Limit Switch	OMRON
8	Indi. Plate	C2801P	8	Switch Ring	C3604BD
9	Set Screw	C2700W	9	Fitting Lug	SCS13
10	Set Screw	C2700W	10	Set Screw	C2700W

F7216

Marine Self Closing Valves for Oil Level Gauges

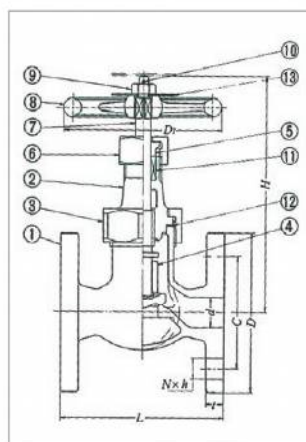


Hydraulic Inspection		Body	0.15MPa(1.5kgf/cm ²)
		Seat	0.11MPa(1.1kgf/cm ²)
No.	Item	Material	
1A	Body(Type A)	CAC406	
1B	Body(Type B)	CAC406	
2	Disc	CAC406 or C3771BD	
3	Plug		
4	Cover		
5	Stem	C3771BD	
6	Gland	C3771BD	
7	Spring	SWP-A	
8	Spring Support	CAC406 or C3771BD	
9	Handle	FC200	
10	Hexagon Nut	C3604BD	
11	Hexagon Nut	C3604BD	
12	Machine Screw	C2700W	
13	Packing	JIS F7102	
14	Gasket	JIS F7102	
15	Gasket	JIS F7102	

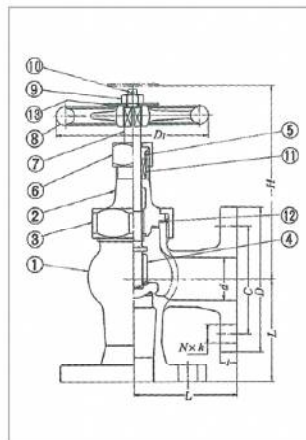
F7427 (F7411, F7412, F7413, F7414)

Marine Bronze 5K, 16K Screw-down Check Globe Valves & Angle Valves (Union Bonnet Type)

Globe Type



Angle Type



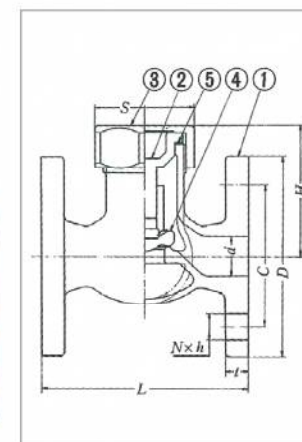
Nominal Pressure		5K							16K						
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)							3.3MPa(33.0kgf/cm ²)						
	Seat	0.77 to 0.4MPa(7.7 to 4.0kgf/cm ²)							2.42 to 0.4MPa(24.2 to 4.0kgf/cm ²)						
Type	Nominal Press.	Dia	d	L	D	C	N	h	t	H	D1				
Globe Check Valve	5K (F7411)	15	15	100	80	60	4	12	9	150	80				
		20	20	110	85	65	4	12	10	160	100				
		25	25	120	95	75	4	12	10	185	125				
		32	32	140	115	90	4	15	12	190	125				
Globe Check Valve	16K (F7413)	40	40	160	120	95	4	15	12	205	140				
		15	15	110	95	70	4	15	12	150	80				
		20	20	120	100	75	4	15	14	160	100				
		25	25	130	125	90	4	19	14	185	125				
Angle Check Valve	5K (F7412)	32	32	160	135	100	4	19	16	190	125				
		40	40	180	140	105	4	19	16	205	140				
		15	15	55	80	60	4	12	9	140	80				
		20	20	60	85	65	4	12	10	150	100				
Angle Check Valve	16K (F7414)	25	25	65	95	75	4	12	10	170	125				
		32	32	80	115	90	4	15	12	170	125				
		40	40	85	120	95	4	15	12	180	140				
		15	15	70	95	70	4	15	12	140	80				
		20	20	75	100	75	4	15	14	150	100				
		25	25	85	125	90	4	19	14	170	125				
		32	32	95	135	100	4	19	16	170	125				
		40	40	100	140	105	4	19	16	180	140				

No.	Item	Material	No.	Item	Material
1	Body	CAC406	8	Hand Wheel	FC200
2	Bonnet		9	Hexagon Nut	C3604BD
3	Bonnet Nut	CAC406 or C3771BD	10	Split Pin	C2600W
4	Disc		11	Packing	JIS F7102
5	Gland	C3604BD	12	Gasket	JIS F7102
6	Gland Nut	C3604BD	13	Name Plate	C2801P
7	Stem	C3771BD	-	-	-

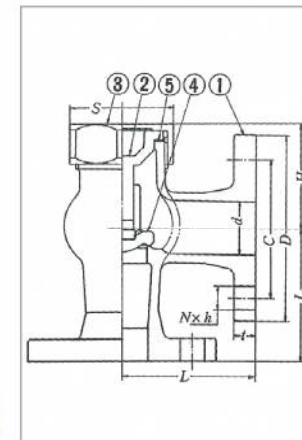
F7427 (F7415, F7416, F7417, F7418)

Marine Bronze 5K, 16K Lift Check Globe Valves & Angle Valves (Union Bonnet Type)

Globe Type



Angle Type



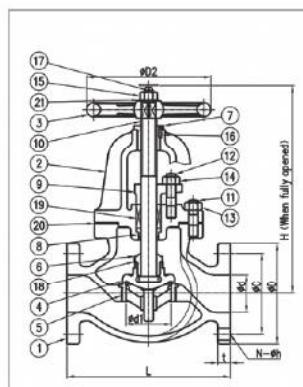
Nominal Pressure		5K							16K						
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)							3.3MPa(33.0kgf/cm ²)						
	Seat	0.77 to 0.4MPa(7.7 to 4.0kgf/cm ²)							2.42 to 0.4MPa(24.2 to 4.0kgf/cm ²)						
Type	Nominal Press.	Dia	d	L	D	C	N	h	t	H	S				
Globe Check Valve	5K (F7415)	15	15	100	80	60	4	12	9	66	55				
		20	20	110	85	65	4	12	10	71	55				
		25	25	120	95	75	4	12	10	81	60				
		32	32	140	115	90	4	15	12	83	70				
Globe Check Valve	16K (F7417)	40	40	160	120	95	4	15	12	91	80				
		15	15	110	95	70	4	15	12	66	55				
		20	20	120	100	75	4	15	14	71	55				
		25	25	130	125	90	4	19	14	81	60				
Angle Check Valve	5K (F7416)	32	32	160	135	100	4	19	16	83	70				
		40	40	180	140	105	4	19	16	91	80				
		15	15	55	80	60	4	12	9	56	55				
		20	20	60	85	65	4	12	10	59	55				
Angle Check Valve	16K (F7418)	25	25	65	95	75	4	12	10	67	60				
		32	32	80	115	90	4	15	12	65	70				
		40	40	85	120	95	4	15	12	69	80				
		15	15	70	95	70	4	15	12	56	55				
		20	20	75	100	75	4	15	14	59	55				
		25	25	85	125	90	4	19	14	67	60				
		32	32	95	135	100	4	19	16	65	70				
		40	40	100	140	105	4	19	16	69	80				

No.	Item	Material
1	Body	CAC406
2	Disc Guide	
3	Bonnet Nut	CAC406 or C3771BD
4	Disc	
5	Gasket	JIS F7102

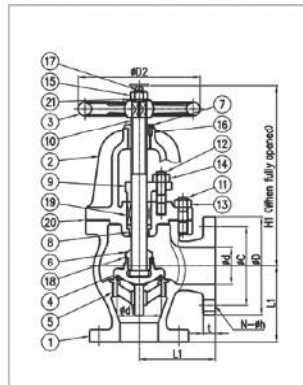
F7505 (F7490, F7491, F7494, F7496, F7498, F7500)

Marine Spheroidal Ductile Iron 5K, 10K, 16K Globe Valves & Angle Valves

Globe Type



Angle Type



Nominal Pressure			5K					10K					16K				
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)					2.1MPa(21.0kgf/cm ²)					3.3MPa(33.0kgf/cm ²)					
	Seat	0.77MPa(7.7kgf/cm ²)					1.54MPa(15.4kgf/cm ²)					2.42MPa(24.2kgf/cm ²)					
Nominal		d	d1	L	L1	Flange					H	H1	D2	W (kg)	W1 (kg)		
Press.	Dia					D	C	N	h	t							
5K (F7490) (F7491)	50	50	58	210	100	130	105	4	15	16	270	240	160	14.7	12.9		
	65	65	73	250	115	155	130	4	15	18	300	255	180	21.3	18.2		
	80	80	88	280	130	180	145	4	19	18	310	265	180	27.7	23.4		
	100	100	111	340	150	200	165	8	19	20	360	310	224	40.8	33.7		
10K (F7494) (F7496)	50	50	58	220	120	155	120	4	19	20	285	255	160	19.9	18.2		
	65	65	73	270	130	175	140	4	19	22	310	270	200	28.7	25.4		
	80	80	88	300	140	185	150	8	19	22	320	275	200	32.4	27.4		
	100	100	111	350	160	210	175	8	19	24	370	315	250	48.7	40.6		
16K (F7498) (F7500)	50	50	58	220	120	155	120	8	19	20	285	255	160	19.6	18		
	65	65	73	270	130	175	140	8	19	22	310	270	200	28.3	25		
	80	80	88	300	150	200	160	8	23	24	340	295	224	40.4	35.7		
	100	100	111	350	170	225	185	8	23	26	385	330	250	56.9	49.2		

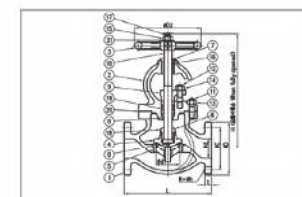
No.	Item	Material		No.	Item	Material	
		Class B	Class S			Class B	Class S
1	Body	FCD400		13	Hexagon Nut	SS400	
2	Bonnet	FCD400		14	Hexagon Nut	C3604	
3	Hand wheel	FC200		15	Hexagon Nut	C3604	
4	Disc	CAC406	SCS2	16	Set Pin	SS400	
5	Seat Ring	CAC406	SCS2	17	Split Pin	C2600W	
6	Disc Nut	CAC406	SUS402J2	18	Lock Washer	C2600P	SUS304
7	York Bush	CAC406		19	Packing	JIS F7102	
8	Packing Bush	CAC406	SUS420J2	20	Gasket	JIS F7102	
9	Packing Gland	CAC406		21	Name Plate	C2801P	
10	Stem	C3771	SUS403	-	-	-	-
11	Stud Bolt	SS400		-	-	-	-
12	Stud Bolt	C3771		-	-	-	-

F7426 (F7319, F7320, F7313, F7314)

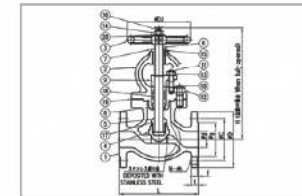
Marine Cast Steel 10K, 20K Globe Valves & Angle Valves

Globe Type

10K

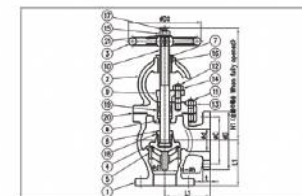


20K

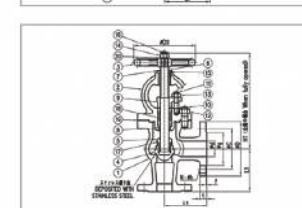


Angle Type

10K



20K



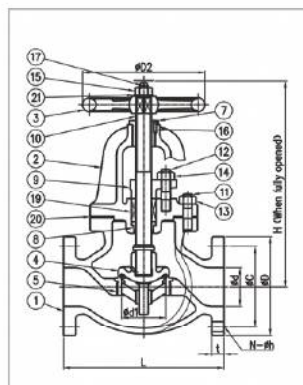
Nominal Pressure		10K											20K					
Hydraulic Inspection	Body	2.1MPa(21.0kgf/cm ²)											5.1MPa(51.0kgf/cm ²)					
	Seat	1.54MPa(15.4kgf/cm ²)											3.74MPa(37.4kgf/cm ²)					
Nominal Press.		Dia	d	d1	L	L1	Flange							H	H1	D2	W (kg)	W1 (kg)
							D	C	N	h	t	f	g					
10K (F7319) (F7320)	50	50	58	220	120	155	120	4	19	16	-	-	-	270	240	160	17.9 16.3	
	65	65	73	270	130	175	140	4	19	18	-	-	-	300	260	200	26 23	
	80	80	88	300	140	185	150	8	19	18	-	-	-	310	265	200	29.8 25.3	
	100	100	111	350	160	210	175	8	19	18	-	-	-	355	300	250	44.7 37	
	125	125	138	420	180	250	210	8	23	20	-	-	-	415	350	280	70.3 57.1	
	150	150	163	490	205	280	240	8	23	22	-	-	-	470	400	315	96.4 77.2	
	200	200	213	570	230	330	290	12	23	22	-	-	-	565	480	355	159 116	
	250	250	265	740	290	400	355	12	25	24	-	-	-	645	535	400	257 188	
20K (F7313) (F7314)	300	300	315	840	320	445	400	16	25	24	-	-	-	735	610	450	370 256	
	32	32	32	190	100	135	100	4	19	18	2	76	270	250	160	14.4 13		
	40	40	40	200	110	140	105	4	19	18	2	81	290	265	160	16 15.2		
	50	50	50	230	125	155	120	8	19	18	2	96	305	275	200	21.6 20		
	65	65	65	270	135	175	140	8	19	20	2	116	345	305	224	30.4 26.9		
	80	80	80	300	150	200	160	8	23	22	2	132	385	340	250	43.5 38.9		
	100	100	100	350	170	225	185	8	23	24	2	160	440	385	280	62.3 54.4		
	125	125	125	430	200	270	225	8	25	26	2	195	500	440	315	95.7 80.7		
	150	150	150	500	225	305	260	12	25	28	2	230	550	485	355	133.3 112.3		
	200	200	200	560	280	350	305	12	25	30	2	275	630	540	450	296.1 183		
250	250	250	660	310	430	380	12	27	34	2	345	725	620	560	339.1 285.9			

No.	Item	Material	No.	Item	Material	No.	Item	Material
1	Body	SC480	9	York Bush	CAC406	17	Set Pin	SS400
2	Bonnet	SC480	10	Packing Bush	SUS420J1	18	Split Pin	C2600W
3	Hand wheel	FC200	11	Packing Gland	CAC406	19	Disc Washer	SUS304
4	Disc	SCS2	12	Stud Bolt	SS490/S35C	20	Packing	JIS F7102
5	Seat Ring	SCS2	13	Stud Bolt	SS400/SS490	21	Gasket	JIS F7102
6	Disc Nut	SUS420J1	14	Hexagon Nut	SS400/S25C	22	Name Plate	C2801P
7	Stem	SUS403	15	Hexagon Nut	C3604/SS400	-	-	-
8	Stem Washer	SKD1	16	Hexagon Nut	C3604/SS400	-	-	-

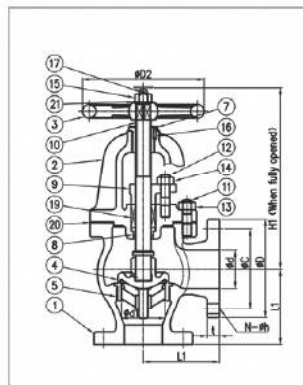
F7505 (F7492, F7493, F7495, F7497, F7499, F7504)

Marine Spheroidal Ductile Iron 5K, 10K, 16K Screw-down Check Globe Valves & Angle Valves

Globe Type



Angle Type



Nominal Pressure		5K					10K					16K				
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)					2.1MPa(21.0kgf/cm ²)					3.3MPa(33.0kgf/cm ²)				
	Seat	0.77 to 0.4MPa (7.7 to 4kgf/cm ²)					1.54 to 0.4MPa (15.4 to 4kgf/cm ²)					2.42 to 0.4MPa (24.2 to 4kgf/cm ²)				
Nominal Press.		Dia	d	d1	L	L1	Flange					H	H1	D2	W (kg)	W1 (kg)
5K (F7492) (F7493)	50	50	58	210	100	130	105	4	15	16	270	240	160	14.8	13	
	65	65	73	250	115	155	130	4	15	18	290	245	180	21.3	18.2	
	80	80	88	280	130	180	145	4	19	18	300	255	180	27.6	23.3	
	100	100	111	340	150	200	165	8	19	20	350	300	224	40.4	33.5	
10K (F7495) (F7497)	50	50	58	220	120	155	120	4	19	20	285	255	160	19.9	18.2	
	65	65	73	270	130	175	140	4	19	22	305	260	200	28.6	25.3	
	80	80	88	300	140	185	150	8	19	22	315	270	200	32.5	27.5	
	100	100	111	350	160	210	175	8	19	24	360	305	250	48.7	40.6	
16K (F7499) (F7504)	50	50	58	220	120	155	120	8	19	20	285	255	160	19.6	18	
	65	65	73	270	130	175	140	8	19	22	305	260	200	28.2	24.9	
	80	80	88	300	150	200	160	8	23	24	335	290	224	40.5	35.8	
	100	100	111	350	170	225	185	8	23	26	375	320	250	56.9	49.2	

No.	Item	Material		No.	Item	Material	
		Class B	Class S			Class B	Class S
1	Body	FCD400		13	Hexagon Nut	SS400	
2	Bonnet	FCD400		14	Hexagon Nut	C3604	
3	Hand wheel	FC200		15	Hexagon Nut	C3604	
4	Disc	CAC406	SCS2	16	Set Pin	SS400	
5	Seat Ring	CAC406	SCS2	17	Split Pin	C2600W	
6	-	-	-	18	-	-	-
7	York Bush	CAC406		19	Packing	JIS F7102	
8	Packing Bush	CAC406	SUS420J2	20	Gasket	JIS F7102	
9	Packing Gland	CAC406		21	Name Plate	C2801P	
10	Stem	C3771	SUS403	-	-	-	-
11	Stud Bolt	SS400		-	-	-	-
12	Stud Bolt	C3771		-	-	-	-

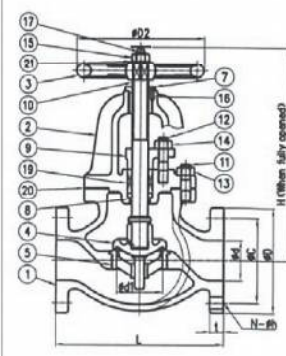
F7425 (F7353, F7354, F7375, F7376, F7377, F7378)

Marine Cast Iron 5K, 10K, 16K Screw-down Check Globe Valves & Angle Valves

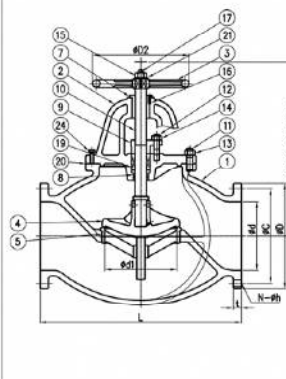
Globe Type



Nominal Dia 50 to 200



Nominal Dia 250 and over



Nominal Pressure		5K	10K	16K
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)	2.1MPa(21.0kgf/cm ²)	3.3MPa(33kgf/cm ²)
	Seat	* 0.77 to 0.4MPa (7.7 to 4kgf/cm ²)	1.54 to 0.4MPa (15.4 to 4kgf/cm ²)	2.42 to 0.4MPa (24.2 to 4kgf/cm ²)

* Mark) Not applicable for nominal size over 300A

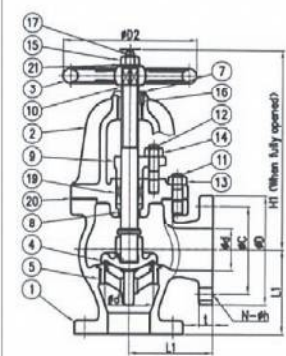
Nominal Press.		D															W		W1	
		Dia	d	d1	L	L1	D	C	N	h	t	H	H1	D2	W	W1				
5K (F7353) (F7354)		50	50	58	210	100	130	105	4	15	16	270	240	160	14.8	13				
		65	65	73	250	115	155	130	4	15	18	290	245	180	21.3	18.2				
		80	80	88	280	130	180	145	4	19	18	300	255	180	27.6	23.3				
		100	100	111	340	150	200	165	8	19	20	350	300	224	40.4	33.5				
		125	125	138	410	170	235	200	8	19	20	380	320	250	57.9	46.5				
		150	150	163	480	190	265	230	8	19	22	430	365	280	80.9	64				
		200	200	213	570	220	320	280	8	23	24	505	425	315	139	104				
		250	250	265	740	275	385	345	12	23	26	620	510	355	243	175				
		300	300	315	840	310	430	390	12	23	28	715	585	400	377	243				
		350	335	350	940	360	480	435	12	25	30	815	660	500	463	336				
10K (F7375) (F7376)		400	380	403	1050	395	540	495	16	25	30	905	730	560	643	455				
		450	430	455	-	440	605	555	16	25	30	-	835	630	-	618				
		500	480	510	-	485	655	605	20	25	32	-	915	710	-	800				
		550	530	560	-	530	720	665	20	27	32	-	985	800	-	1161				
		50	50	58	220	120	155	120	4	19	20	285	255	160	19.9	18.2				
		65	65	73	270	130	175	140	4	19	22	305	260	200	28.6	25.3				
		80	80	88	300	140	185	150	8	19	22	315	270	200	32.5	27.5				
		100	100	111	350	160	210	175	8	19	24	360	305	250	48.7	40.6				
		125	125	138	420	180	250	210	8	23	24	410	350	280	73	69.8				
		150	150	163	490	205	280	240	8	23	26	455	390	315	104	81.2				
16K (F7377) (F7378)		200	200	213	570	230	330	290	12	23	26	530	450	355	161	124				
		50	50	58	220	120	155	120	8	19	20	285	255	160	19.6	18				
		65	65	73	270	130	175	140	8	19	22	305	260	200	28.2	24.9				
		80	80	88	300	150	200	160	8	23	24	335	290	224	40.5	35.8				
		100	100	111	350	170	225	185	8	23	26	375	320	250	56.9	49.2				
		125	125	138	430	200	270	225	8	25	26	440	375	315	89.5	76.1				
		150	150	163	500	225	305	260	12	25	28	500	425	355	123	103				

No.	Item	Material		No.	Item	Material	
		Class B	Class S			Class B	Class S
1	Body	FC200		13	Hexagon Nut	SS400	
2	Bonnet	FC200		14	Hexagon Nut	C3604	
3	Hand Wheel	FC200		15	Hexagon Nut	C3604	
4	Disc	CAC406	SCS2	16	Set Pin	SS400	
5	Seat Ring	CAC406	SCS2	17	Split Pin	C2600W	
-	-	-	-	-	-	-	-
7	York Bush	CAC406		19	Packing	JIS F7102	
8	Packing Bush	CAC406	SUS420J2	20	Gasket	JIS F7102	
9	Packing Gland	CAC406		21	Name Plate	C2801P	
10	Stem	C3771	SUS403	-	-	-	-
11	Stud Bolt	SS400		-	-	-	-
12	Stud Bolt	C3771		24	Bolt	C3771	

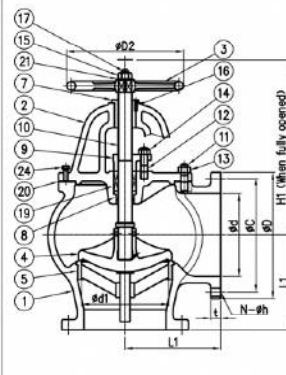
Angle Type



Nominal Dia 50 to 200



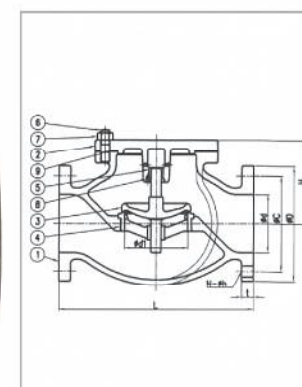
Nominal Dia 250 and over



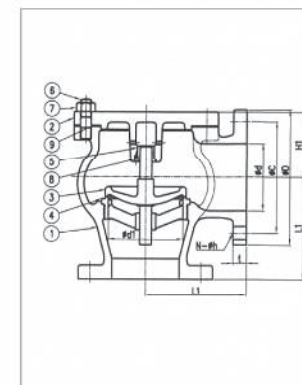
F7425 (F7358, F7359)

Marine Cast Iron 5K Lift Check Globe Valves & Angle Valves

Globe Type



Angle Type



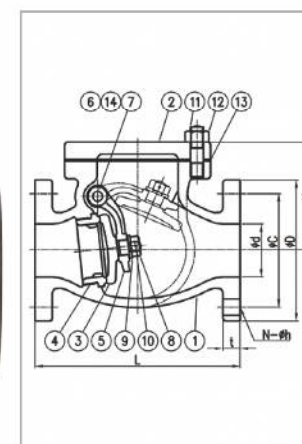
Nominal Pressure		5K
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)
	Seat	0.77 to 0.4MPa(7.7 to 4kgf/cm ²)

Nominal		d	d1	L	L1	Flange					H	H1	W (kg)	W1 (kg)
Press.	Dia					D	C	N	h	t				
5K (F7358) (F7359)	50	50	58	210	100	130	105	4	15	16	107	77	11.3	9.5
	65	65	73	250	115	155	130	4	15	18	124	81	16.8	13.8
	80	80	88	280	130	180	145	4	19	18	129	84	23.2	18.9
	100	100	111	340	150	200	165	8	19	20	146	96	32.5	25.6
	125	125	138	410	170	235	200	8	19	20	166	108	48.1	36.7
	150	150	163	480	190	265	230	8	19	22	188	125	67.9	50.9
	200	200	213	-	220	320	280	8	23	24	-	157	-	95

No.	Item	Material	No.	Item	Material
1	Body	FC200	6	Stud Bolt	SS400
2	Bonnet	FC200	7	Hexagon Nut	SS400
3	Disc	CAC406	8	Set Screw	SS400
4	Seat Ring	CAC406	9	Gasket	JIS F7102
5	Bush	CAC406	-	-	-

F7425 (F7372, F7373)

Marine Cast Iron 5K, 10K Swing Check Valves



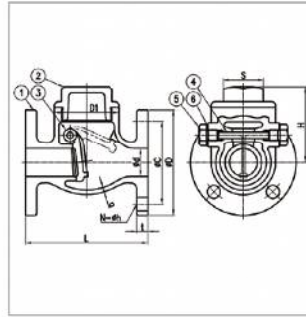
Nominal Pressure		5K	10K
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)	2.1MPa(21kgf/cm ²)
	Seat	0.77 to 0.4MPa(7.7 to 4kgf/cm ²)	1.54 to 0.4MPa(15.4 to 4kgf/cm ²)

Nominal		d	L	Flange					H	W (kg)
Press.	Dia			D	C	N	h	t		
5K (F7372)	50	50	190	130	105	4	15	16	97	9.06
	65	65	220	155	130	4	15	18	119	13.9
	80	80	250	180	145	4	19	18	129	19.1
	100	100	280	200	165	8	19	20	146	27.1
	125	125	330	235	200	8	19	20	171	39
	150	150	380	265	230	8	19	22	198	53.7
	200	200	460	320	280	8	23	24	235	94.4
10K (F7373)	250	250	550	385	345	12	23	26	290	150
	50	50	210	155	120	4	19	20	109	13.6
	65	65	240	175	140	4	19	22	126	19.6
	80	80	270	185	150	8	19	22	136	22.6
	100	100	300	210	175	8	19	24	153	30.9
	125	125	350	250	210	8	23	24	180	49.2
	150	150	400	280	240	8	23	26	205	64.9
	200	200	480	330	290	12	23	26	242	103

F7427 (F7371)

Marine Bronze 5K Swing Check Valves

Nominal Dia
25 to 40



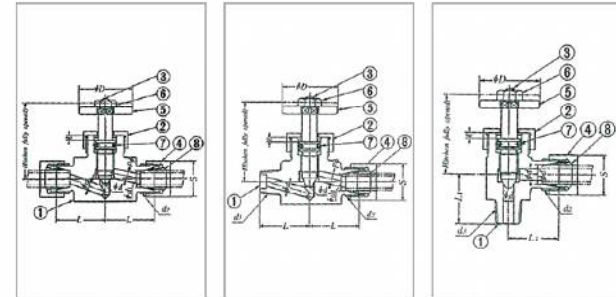
Hydraulic Inspection	Body		1.05MPa(10.5kgf/cm ²)								
	Seat		0.77 to 0.4MPa(7.7 to 4kgf/cm ²)								
Nominal Dia	d	L	D	C	N	h	t	H	a	D1	S
25	25	110	95	75	4	12	10	69	4	58	41
32	32	130	115	90	4	15	12	79	4	66	41
40	40	140	120	95	4	15	12	93	5	75	46

No.	Item	Material	No.	Item	Material
1	Body	CAC406	4	Hinge Pin	C3771BD
2	Bonnet	CAC406	5	Plug	C3771BD
3	Disc	CAC406	6	Gasket	JIS F7102

F7379

Brass 30K Stop Valves With Bite Joint

Globe Valve With Both Bite Joint Screwed Globe Valve With Bite Joint Screwed Angle Valve With Bite Joint



Hydraulic Inspection	Body		4.5MPa(45.0kgf/cm ²)									
	Seat		3.3MPa(33.0kgf/cm ²)									
Nominal Dia	Pipe Out Dia	d	d1	L	L1	Thread		S	ℓ	D	H	H*
						d2	d3					
4	6	4	6.3	24	22	M12×1.25	PT1/8	17	3	25	42	39
6	8	6	8.3	28	25	M16×1.5	PT1/4	22	3	32	45	41
10	10	10	10.3	31	31	M22×1.5	PT3/8	30	4	40	60	54

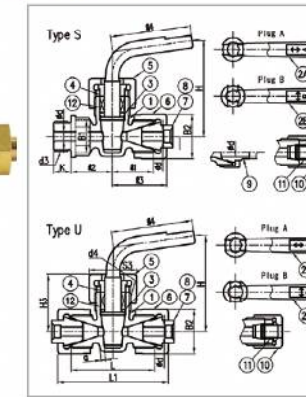
No.	Item	Material
1	Body	C3771BD
2	Cap Nut	C3604BD
3	Stem	C3771BD
4	Union Nut	C3604BD
5	Hand Wheel	C3604BD
6	Hexagon Nut	C3604BD
7	"O" Ring	Nitrile Rubber
8	Sleeve	C3604BD

H*: Angle Valve

F7370 (F7387)

Marine Bronze 16K Cocks

Type S



Type U



Hydraulic Inspection	Nominal Dia		Body				Plug			
	6 and 10		3.0MPa(30.0kgf/cm ²)				2.2MPa(22.0kgf/cm ²)			
	15 and 20		2.4MPa(24.0kgf/cm ²)				1.76MPa(17.6kgf/cm ²)			

Type S

Nominal Dia	Pipe Out Dia	Copper	Steel	d	ℓ1	ℓ2	ℓ3	d3	K	H	ℓ4	B1	B2
6	8	10.5	6	28	28	37	M20×1.5	12	65	55	22	30	
10	15	17.3	10	40	35	52	M24×2	16	73	65	27	41	
15	20	21.7	15	45	45	58	M30×2	22	92	75	36	46	
20	25	27.2	20	50	50	65	M36×2	24	104	85	41	50	

Type U

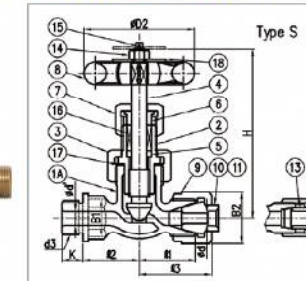
Nominal Dia	Pipe Out Dia	Copper	Steel	d	L	L1	H	ℓ4	a	d4	H3	B2	S3
6	8	10.5	6	56	74	65	55	3	M24×2	36	30	32	
10	15	17.3	10	80	104	73	65	4	M30×2	44	41	36	

No.	Item	Material	No.	Item	Material
1	Body	CAC406	6	Union Nut	C3771BD
2A	Plug A	CAC406	7	Nipple(Cu)	YBsC1 or C1100BD
2B	Plug B	CAC406	8,9	Nipple(STP)	S15C
3	Seat Ring	C3771BD	10	Union Nut	C3604BD
4	Gland	C3771BD	11	Sleeve	C3604BD
5	Gland Nut	C3771BD	12	Packing	JIS F7102

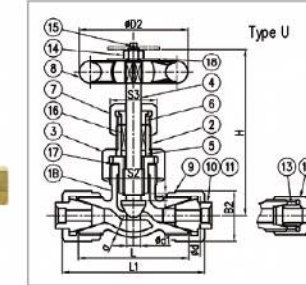
F7427 (F7388)

Marine Bronze 20K Globe Valves

Type S



Type U



Hydraulic Inspection	Body		4.2MPa(42.0kgf/cm ²)									
	Seat		3.08MPa(30.8kgf/cm ²)									

Type S

Nominal Dia	Pipe Out Dia	Copper	Steel	d	d'	ℓ1	ℓ2	ℓ3	d3	K	H	D2	B1	B2
6	8	10.5	6	8	32	32	41	M20×1.5	12	100	63	22	30	
10	15	17.3	10	10	36	35	48	M24×2	16	115	80	27	41	

Type U

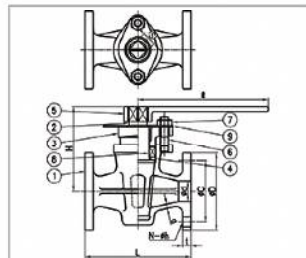
Nominal Dia	Pipe Out Dia	Copper	Steel	d	d1	L	L1	H	ℓ	D2	a	B2	S2	S3
6	8	10.5	6	8	64	82	100	5.5	63	3	30	36	27	
10	15	17.3	10	10	72	96	115	7.5	80	3	41	41	30	

No.	Item	Material	No.	Item	Material
1A	Body(Type S)	CAC406	10	Nipple(Cu.T)	YBsC1 or C1100BD
1B	Body(Type U)	CAC406	11	Nipple(STP)	S15C
2	Bonnet	CAC406 or C3604BD	12	Union Nut	C3604BD
3	Bonnet Nut	C3771BD	13	Sleeve	C3604BD
4	Stem	C3771BD	14	Hexagon Nut	C3604BD
5	Seat Ring	CAC406 or C3771BD	15	Split Pin	C2600W
6	Gland	CAC406 or C3771BD	16	Packing	JIS F7102
7	Gland Nut	FC200	17	Gasket	JIS F7102
8	Hand Wheel	CAC406 or C3771BD	18	Name Plate	C2801P
9	Union Nut	CAC406 or C3771BD	-	-	-

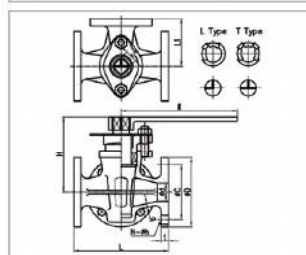
F7370 (F7381)

Marine Bronze 5K Flanged Cocks

2way cock
Nominal Dia
25 to 65



3way cock
Nominal Dia
25 to 65

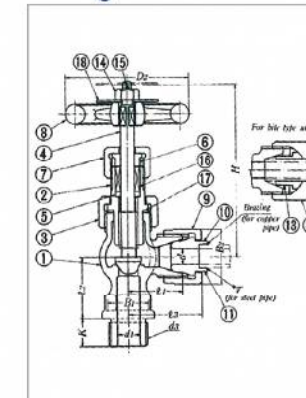


Hydraulic Inspection	Body		0.75MPa(7.5kgf/cm ²)									
	Plug		0.55MPa(5.5kgf/cm ²)									
Nominal Dia	d	L	L1	D	C	N	h	t	H	ℓ	a	s
25	25	130	65	95	75	4	12	10	105	160	5	17
32	32	160	80	115	90	4	15	12	125	180	5	22
40	40	170	85	120	95	4	15	12	135	190	6	24
50	50	190	95	130	105	4	15	14	163	200	6	27
65	65	220	110	155	130	4	15	14	201	250	7	36

No.	Item	Material
1	Body	CAC406
2	Plug	CAC406
3	Packing Gland	C3771BD or CAC406
4	Seat Ring	
5	Handle	FCD
6	Stud Bolt	C3771BD
7	Hexagon Nut	C3604BD
8	Packing	JIS F7102
9	Name Plate	C2801P

F7427 (F7389)

Marine Bronze 20K Angle Valves



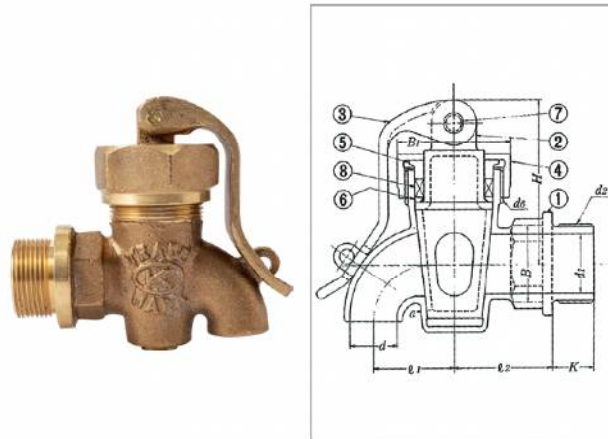
Hydraulic Inspection	Body		4.2MPa(42.0kgf/cm ²)									
	Seat		3.08MPa(30.8kgf/cm ²)									

Nominal Dia	Pipe Out Dia	Copper	Steel	d	d'	ℓ1	ℓ2	ℓ3	d3	K	H	D2	B1	B2
6	8	10.5	6	10	32	32	41	M20×1.5	12	95	63	22	30	
10	15	17.3	10	12	39	35	51	M24×2	16	105	80	27	41	

No.	Item	Material	No.	Item	Material
1	Body	CAC406	10	Nipple(Cu.T)	YBsC1 or C1100BD
2	Bonnet	CAC406 or C3771BD	11	Nipple(STP)	S15C
3	Bonnet Nut	C3771BD	12	Union Nut	C3604BD
4	Stem	C3771BD	13	Sleeve	C3604BD
5	Seat Ring	CAC406 or C3771BD	14	Hexagon Nut	C3604BD
6	Gland	CAC406 or C3771BD	15	Split Pin	C2600W
7	Gland Nut	FC200	16	Packing	JIS F7102
8	Hand Wheel	CAC406 or C3771BD	17	Gasket	JIS F7102
9	Union Nut	CAC406 or C3771BD	18	Name Plate	C2801P

F7370 (F7390)

Marine Cocks With Lock



Hydraulic Inspection	Body Seat		0.20MPa(2.0kgf/cm ²)									
	Nominal Dia	d	d1	d2	K	a	H	L1	L2	B	B1	d6
	10	10	15	M24x2	14	2.5	50	22	28	22	32	M27x2
	15	15	20	M30x2	18	2.5	63	28	37	30	41	M36x2
	20	20	26	M36x2	20	3	73	35	43	36	50	M42x2
	25	25	32	M42x2	22	3	87	43	52	41	60	M52x2

No.	Item	Material	No.	Item	Material
1	Body	CAC406	5	Gland	C3771BD
2	Cock Plug	CAC406	6	Seat Ring	C3771BD
3	Handle	CAC406	7	Hinge Pin	C2600W
4	Gland Nut	C3771BD	8	Packing	JIS F7102

F7398

Marine Fuel Oil Tank Self-Closing Drain Valves

Type U

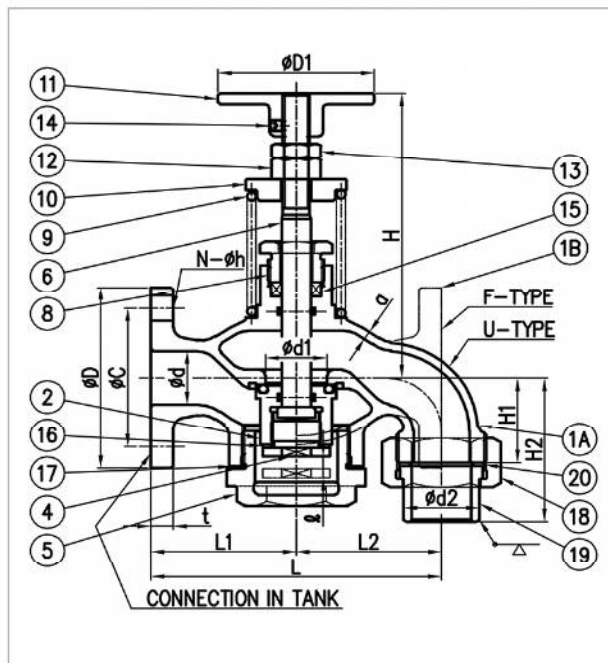
Type F



Hydraulic Inspection	Body Seat		0.15MPa(1.5kgf/cm ²)									
			0.11MPa(1.1kgf/cm ²)									
Nominal Dia	d	d1	L	L1	L2	H1	H2	5K Flanged				
25	25	30	130	65	65	40	67	95	75	4	12	10
40	40	45	180	90	100	60	96	120	95	4	15	12
50	50	58	220	110	130	75	116	130	105	4	15	14

Nominal Dia	10K Flanged					H	ℓ	D1	a	d2
25	D	C	N	h	t	130	10	70	4	34
40	140	105	4	19	16	165	13	80	5	48.6
50	155	120	4	19	16	195	15	80	8	60.5

No.	Item	Material	
		25mm and 40mm	50mm
1A	Body(Type U)	CAC406	SC450
1B	Body(Type F)	CAC406	SC450
2	Disc	CAC406 or C3771BD	
3	Valve Seat	-	CAC406
4	Plug	CAC406 or C3771BD	
5	Bonnet	CAC406	SC450 or S25C
6	Stem	C3771BD	
7	Packing Bush	-	C3771BD
8	Packing Gland	C3771BD	
9	Spring	SWP-A	
10	Spring Support	CAC406 or C3771BD	
11	Handle	CAC406 or FC200	
12	Hexagon Nut	SS400	
13	Hexagon Nut	SS400	
14	Machine Screw	C2700W	
15	Packing	JIS F7102	
16	Gasket	JIS F7102	
17	Gasket	JIS F7102	
18	Union Nut	SS400	
19	Nipple	SS400	
20	Gasket	JIS F7102	



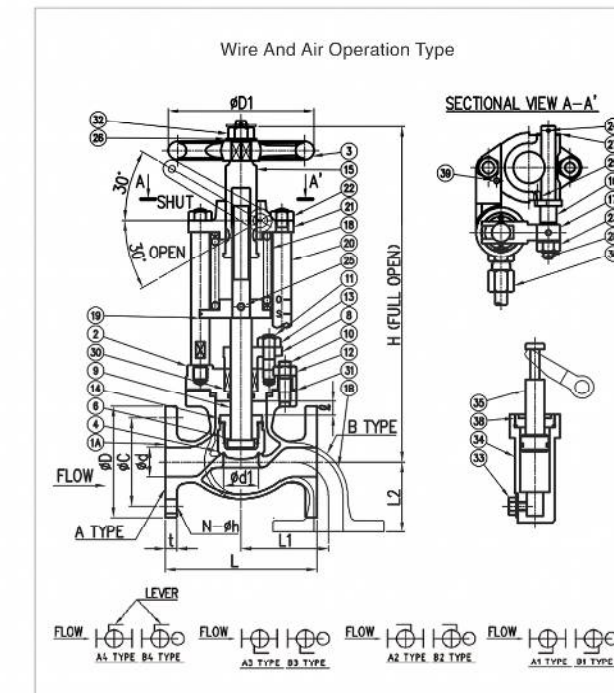
F7399

Marine Fuel Oil Tank Emergency Shut-off Valves

Nominal Dia 25 and 40

Type A

Type B

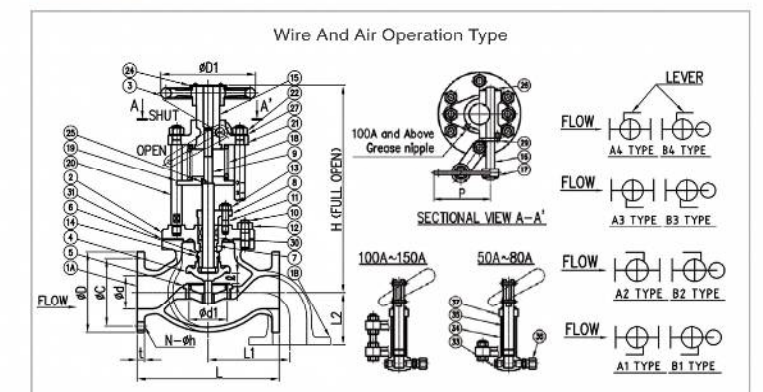
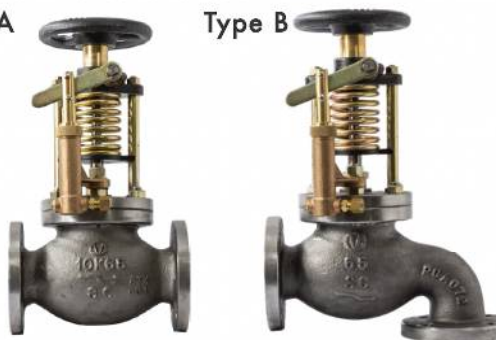


Hydraulic Inspection	Body	0.7MPa(7.0kgf/cm ²)	
	Seat	0.2Pa(2.0kgf/cm ²)	
No.	Item	Material	
		25mm and 40mm	50mm and over
1A	Body(Type A)	CAC406	SC450
1B	Body(Type B)	CAC406	SC450
2	Bonnet	CAC406	SC450 or S25C
3	Hand Wheel	FC200	
4	Disc	CAC406	CAC406 or SCS2
5	Valve Seat	-	
6	Disc Nut	CAC406 or C3771BD	
7	Bonnet Bush	-	CAC406 or C3604BD
8	Packing Gland	CAC406	
9	Stem	C3771BD	
10	Stud Bolt	C3771BD or SS400	
11	Stud Bolt		
12	Hexagon Nut		
13	Hexagon Nut		
14	Disc Lock Washer	C2600P	
15	Bush For Stem Lift	C3771BD	
16	Opreating Spindle	SS400	
17	Lever	CAC406 or SS400	
18	Spring	SWP-A	SUP4
19	Spring Support	CAC406	FC200
20	Stay	SS400	
21	Support Dush For Stem	CAC406	FC200
22	Hexagon Nut	C3604BD or SS400	
23	Hexagon Nut		
24	Split Pin	SWRM10	
25	Lock Pin	SS400	
26	Name Plate	C2801P	
27	Washer	SS400	
28	Sprit Pin	SWRM10	
29	Set Screw	SS400	
30	Packing	JIS F7102	
31	Gasket	JIS F7102	
32	Hexagon Nut	C3604BD or SS400	-
33	Air Plug	C3604BD or SS400	
34	Cylinder	CAC406	
35	Piston	C3604BD	
36	Bite Joint	C3604BD	
37	Cylinder Nut	-	CAC406
38	Cylinder Cover	C3604BD	-
39	Roll Pin	SK-5	-

Nominal Dia 50 and over

Type A

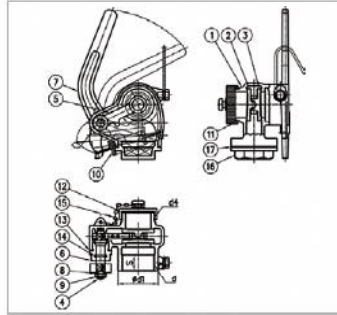
Type B



Nominal Dia	d	d1	5K Flanged									10K Flanged									H	D1	ℓ	Only Air Operated Type Table : Kind of Bite Joint
			L	L1	L2	D	C	N	h	t	L	L1	L2	D	C	N	h	t						
25	25	30	130	75	60	95	75	4	12	10	130	80	65	125	90	4	19	14	265	125	12	1.Pipe Out Dia 10mm(For Copper Pipe) 2.Pipe Out Dia 17.3mm(For Steel Pipe) 3.Pipe Out Dia 10.5mm(For Steel Pipe) 4.Pipe Out Dia 8mm(For Copper Pipe) 5.Pipe Out Dia 6mm(For Copper Pipe)		
40	40	45	160	100	75	120	95	4	15	12	170	85	80	140	105	4	19	16	270	125	17			
50	50	58	216	125	90	130	105	4	15	14	220	125	90	155	120	4	19	16	335	160	17			
65	65	73	262	155	100	155	130	4	15	14	270	155	100	175	140	4	19	18	395	180	22			
80	80	88	292	165	120	180	145	4	19	18	300	165	120	185	150	8	19	18	420	180	27			
100	100	111	346	200	130	200	165	8	19	18	350	200	130	210	175	8	19	18	510	224	33			
125	125	138	412	250	160	235	200	8	19	20	420	250	160	250	210	8	19	20	570	250	42			
150	150	163	482	300	180	265	230	8	19	22	490	300	180	280	240	8	19	22	660	280	50			

F3019

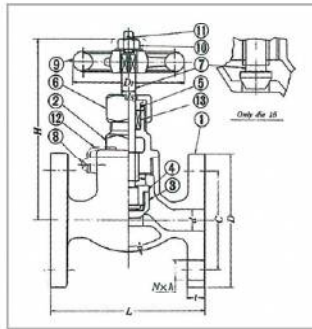
Self-Closing Gate Valve Heads for Short Sounding Pipe



Nominal Dia	d1	S	d	d4
40	58	30	G1 1/2	G1 1/2
50	70	35	G2	G2
65	85	40	G2 1/2	
80	100	45	G3	

Hydraulic Inspection	Body Seat	
	Body	0.30MPa(3.0kgf/cm ²)
	Seat	0.20MPa(2.0kgf/cm ²)
No.	Item	Material
1	Body	CAC406
2	Disc	CAC406 or C3771BD
3	Disc	
4	Operation Spindle	C3771BD
5	Lever	CAC406
6	Packing Case	CAC406
7	Handle	FC200
8	Washer	SS400
9	Hexagon Nut	C3604BD
10	Spring	C5101W
11	Cap	CAC406
12	Gasket	JIS F7102
13	Gasket	JIS F7102
14	"O" Ring	NBR
15	Chain	SUS304
16	Bonnet	CAC406
17	Gasket	JIS F7102

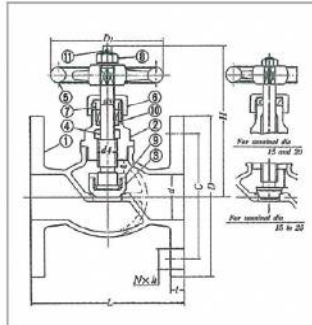
Quasi-JIS Flanged Globe Valves



Hydraulic Inspection	Body		1.05MPa(10.5kgf/cm ²)									
	Seat		0.77MPa(7.7kgf/cm ²)									
Nominal Dia	d	L	D	C	N	h	t	H	ℓ	D1	a	d5
15	15	100	80	60	4	12	8	110	8	80	3	9.5
20	20	110	85	65	4	12	8.5	110	8	80	3	9.5
25	25	120	95	75	4	12	10	115	15	80	4	9.5
32	32	140	115	90	4	15	10	155	16	125	4	13
40	40	160	120	95	4	15	11	160	18	125	5	13

No.	Item	Material	No.	Item	Material
1	Body	CAC406	8	Set Screw	C2700W
2	Bonnet	CAC406	9	Hand Wheel	FC200
3	Disc	C3604BD	10	Hexagon Nut	C3604BD
4	Disc Nut	C3604BD	11	Split Pin	C2600W
5	Gland	C3604BD	12	Lock Plate	C2600P
6	Gland Nut	C3604BD	13	Packing	JIS F7102
7	Stem	C3604BD	-	-	-

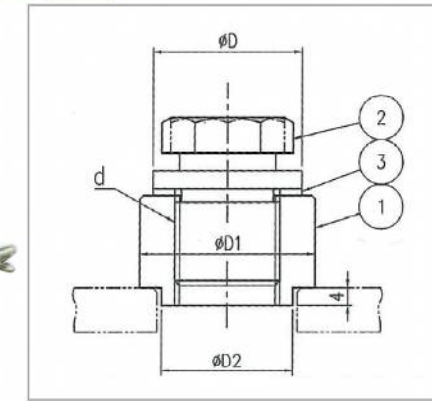
Ordinary-Sized Flanged Stop Valves



Hydraulic Inspection	Body		1.05MPa(10.5kgf/cm ²)									
	Seat		0.77MPa(7.7kgf/cm ²)									
Nominal Dia	d	L	D	C	N	h	t	H	ℓ	D1	d3	d4
15	15	80	80	60	4	12	7.5	80	9	63	8	W7/16
20	20	90	85	65	4	12	8	90	10	63	9	TW12
25	25	95	95	75	4	12	9	105	10	80	9.5	TW14
32	32	110	115	90	4	15	10	110	10	100	9.5	TW14
40	40	130	120	95	4	15	11	120	11	100	10	TW14
50	50	145	130	105	4	15	11	155	14	125	12.5	TW16
65	65	165	155	130	4	15	13	178	21	140	14.5	TW18
80	80	180	180	145	4	19	13	200	26	160	16	TW20
100	100	222	200	165	8	19	13	250	33	180	17	TW22

No.	Item	Material	No.	Item	Material
1	Body	CAC406	7	Gland	C3604BD
2	Bonnet	CAC406 or C3604BD	8	Hexagon Nut	C3604BD
3	Disc	C3604BD	9	Disc Nut	C3604BD
4	Stem	C3604BD	10	Packing	JIS F7102
5	Hand Wheel	FC200	11	Split Pin	C2600W
6	Gland Nut	C3604BD	-	-	-

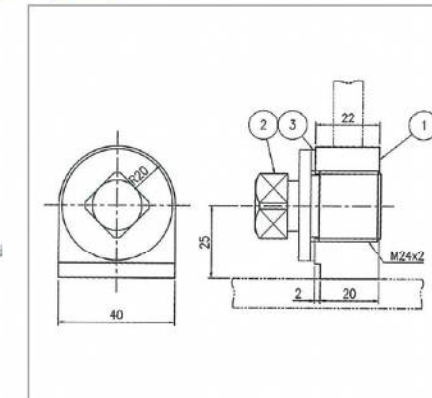
Ships Drain Plugs (B Type)



Nominal Dia	Threads d	D	D1	D2
20	M20×1.5	26	28	24
24	M24×2	34	36	30
30	M30×2	44	46	38
36	M36×2	50	55	46

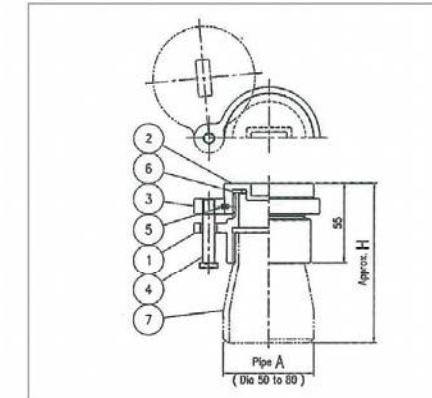
No.	Item	Material
1	Liner	S25C
2	Plug	C3604BD
3	Gasket	CR

Ships Drain Plugs (D Type)



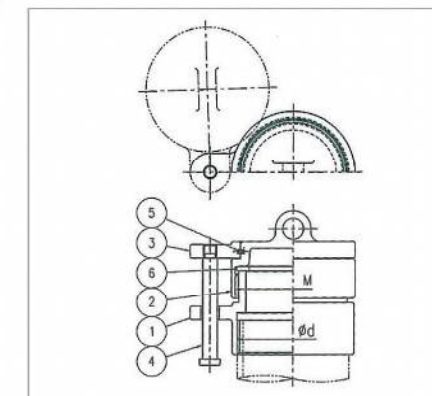
No.	Item	Material
1	Liner	S25C
2	Plug	C3604BD
3	Gasket	CR

Caps For Sounding Pipe



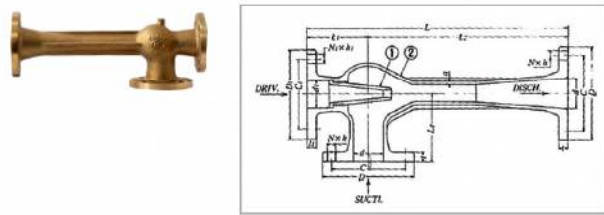
Nominal Dia	A	H
40	-	75
50	50A(SCH 80A)	105
65	65A(SCH 40A)	115
80	80A(SCH 40A)	115
No.	Item	Material
1	Body	CAC406
2	Cover	CAC406
3	Ring	CAC406
4	Bolt	C3771BD
5	Ring	C5191W
6	Gasket	CR
7	Reducer	STPG370

Caps For Filling Pipe



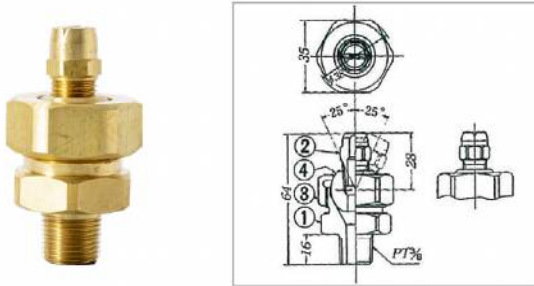
Nominal Dia	d	M
50	G2	M65x4
65	G2 1/2	NFPA 1963 2.5-7.5NH
80	G3	M95x4
100	G4	M115x4
No.	Item	Material
1	Body	CAC406
2	Cover	CAC406
3	Ring	CAC406
4	Bolt	C3771BD
5	Ring	C5191W
6	Gasket	CR

Water Jet Eductor



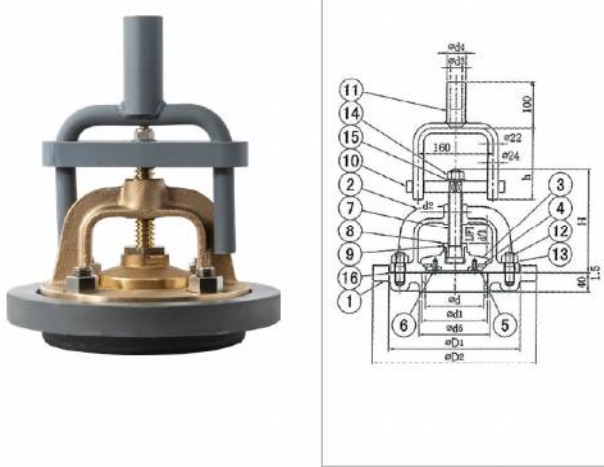
Hydraulic Inspection		1.05MPa(10.5kgf/cm ²)																	
No.	Item						Material												
1	Body						CAC406												
2	Nozzle						C3771BD												
Nominal Dia	d	d1	L	L1	ℓ1	ℓ2	Suc. & Dis. Flange						Driv.Flange						a
							D	C	N	h	t	D1	C1	N1	h1	t1			
40A	40	35	340	86	80	260	120	95	4	15	12	115	90	4	15	12	4		
50A	50	40	385	90	85	300	130	105	4	15	14	120	95	4	15	12	4		

Window Washer 3/8 For Wheel House



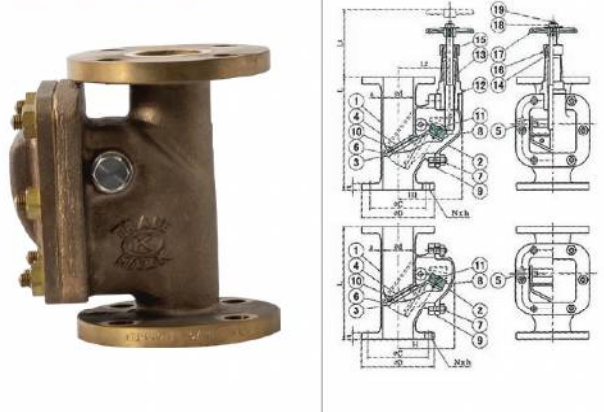
No.	Item	Material
1	Body	C3771BD
2	Spray Nozzle	C3771BD
3	Cap Nut	C3771BD
4	Ball	C3771BD
Spray Angle	0.15MPa	84°
	0.30MPa	90°
	0.70MPa	97°

Surface Valves



Hydraulic Inspection		0.2MPa(2.0kgf/cm ²)								
Nominal Dia	d	d1	d5	D1	D2	H	h	d2	d3	d4
80	80	90.2	110	216	275	175	150	TW22	25	40
100	100	115.5	135	235	300	195	150	1W26	25	40
125	125	141	162	280	350	220	150	TW28	25	40
150	150	166.5	190	306	380	255	150	TW32	25	40
200	200	217.5	245	361	435	290	200	TW36	32	55
250	250	269	302	416	490	335	200	TW42	32	55
No.	Item	Material			No.	Item	Material			
1	Liner	SS400			9	Disc Washer	CAC406			
2	Stand	CAC406			10	Fork Handle	SS400			
3	Disc	CAC406			11	Fork	SS400			
4	Disc Packing	NEO PRENE			12	Stud Bolt	SUS304			
5	Holder	CAC406			13	Hexagon Nut	SUS304			
6	Set Screw	C2700W			14	Hexagon Nut	SUS304			
7	Stem	C6191BD			15	Washer	SUS304			
8	Disc Nut	CAC406			16	Gasket	JIS F7102			

Storm Valves

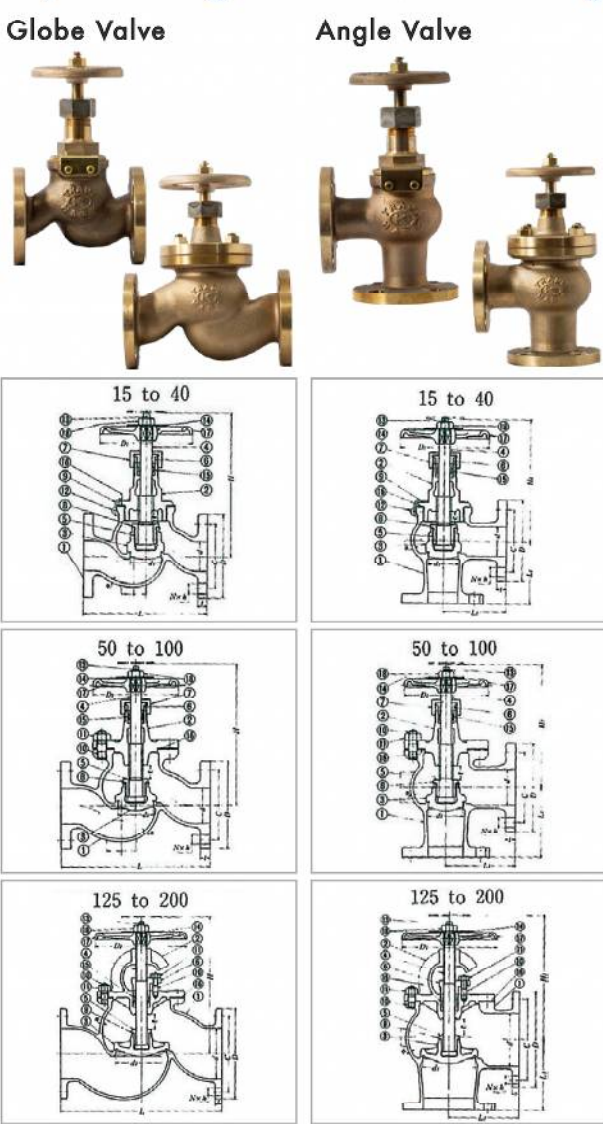


Nominal Dia	d	L	5K Flanged					H	a	L1	L2	H1
			D	C	n	h	t					
25	25	150	95	75	4	12	10	80	4	-	-	-
32	32	150	115	90	4	15	12	80	4	-	-	-
40	40	165	120	95	4	15	12	90	4	180	88	120
50	50	210	130	105	4	15	14	102	4	180	93	125
65	65	240	155	130	4	15	14	119	4	180	105	130
80	80	260	180	145	4	19	14	132	5	180	115	150
100	100	280	200	165	8	19	16	157	6	180	128	165
125	125	330	235	200	8	19	16	176	6	185	145	180
150	150	360	265	230	8	19	18	193	6	185	172	205

No.	Item	Material	No.	Item	Material
1	Body	CAC406	11	Bolt&Nut	SUS304
2	Bonnet	CAC406	12	Bushing	CAC406
3	Disc	CAC406	13	Stem	C3771BD
4	Valve Plate	CAC406	14	Packing	JIS F7102
5	Plug	SUS304	15	Gland	C3604BD
6	Gasket	NBR	16	Gland Nut	C3604BD
7	Bolt&Nut	C3771BD	17	Hand Wheel	FC200
8	Weight	Lead	18	Hexagon Nut	C3604BD
9	Gasket	JIS F7102	19	Split Pin	C2600W
10	Set Screw	SOS304	-	-	-

NDS F7372, NDS F7373B

5K, 10K Flanged Globe Valves & Angle Valves



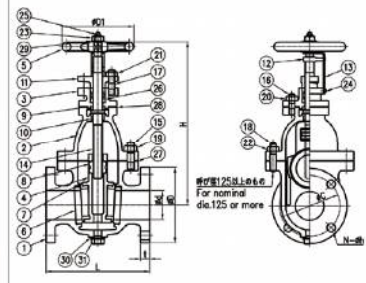
Nominal Pressure					5K							10K				
Hydraulic Inspection		Body			1.0MPa(10.0kgf/cm ²)							2.0MPa(20.0kgf/cm ²)				
		Seat			0.8MPa(8.0kgf/cm ²)							1.5MPa(15.0kgf/cm ²)				
Nominal Press.	Dia	d	d1	L	L1	Small Flanged					H	H1	ℓ	a	D1	
						D	C	N	h	t						
5K (F7372B)	15	15	15	100	55	75	55	4	12	9	135	125	8	3	65	
	20	20	20	110	60	80	60	4	12	10	150	140	10	3.5	80	
	25	25	25	120	65	85	65	4	12	10	170	155	12	3.5	100	
	32	32	32	140	80	105	80	4	15	12	175	160	14	4	100	
	40	40	40	160	85	110	85	4	15	12	190	170	17	4	120	
	50	50	50	210	100	125	100	4	15	14	205	180	20	4.5	120	
	65	65	65	250	115	145	120	4	15	14	245	215	25	5	140	
	80	80	80	280	130	155	130	6	15	14	265	225	30	5	140	
	(90)	90	90	310	140	165	140	6	15	14	295	250	33	5	160	
	100	100	100	340	150	180	155	6	15	16	320	270	36	5.5	180	
10K (F7373B)	125	125	125	410	170	225	190	6	19	16	345	295	39	6	230	
	150	150	150	480	190	255	220	8	19	18	390	330	48	6	250	
	(175)	175	175	520	210	280	245	8	19	18	430	365	56	7	280	
	200	200	200	570	220	300	265	12	19	20	465	390	65	7	300	
	15	15	15	110	70	85	60	4	15	10	132	123	8	3.5	65	
	20	20	20	120	75	95	70	4	15	12	151	140	10	4	80	
	25	25	25	130	85	100	75	4	15	12	170	156	12	4	100	
	32	32	32	160	95	110	85	6	15	14	177	158	14	4.5	100	
	40	40	40	180	100	115	90	6	15	14	193	173	17	4.5	120	
	50	50	50	220	120	130	105	6	15	16	207	182	20	5	120	
65	65	65	270	130	150	125	6	15	16	249	216	25	6	140		
80	80	80	300	140	175	140	6	19	16	283	243	30	6	160		
(90)	90	90	320	150	185	150	6	19	16	316	271	33	6.5	180		
100	100	100	350	160	200	165	8	19	18	333	283	36	7	200		
125	125	125	420	180	230	195	8	19	18	375	317	44	8	250		
No.	Item	Material			No.	Item	Material			No.	Item	Material				
1	Body	CAC403			7	Gland Nut	CAC402			13	Split Pin	C2700W				
2	Bonnet	CAC403			8	Lock Washer	C2600P			14	Nema Plate	C2801P				
3	Disc	CAC403			9	Lock Plate	C2600P			15	Packing	JIS F7102				
4	Stem	C3771BD			10	Stud Bolt	C3771BD			16	Gasket	JIS F7102				
5	Disc Nut	CAC402			11	Hexagon Nut	C3771BD			17	Hand Wheel	CAC402				
6	Gland	CAC402			12	Set Screw	C2700W			18	Hexagon Nut	C3771BD				

F7425 (F7363, F7364)

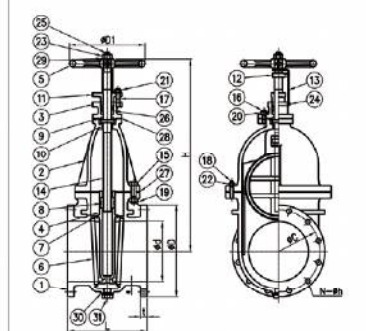
Marine Cast Iron 5K, 10K, 16K Gate Valves



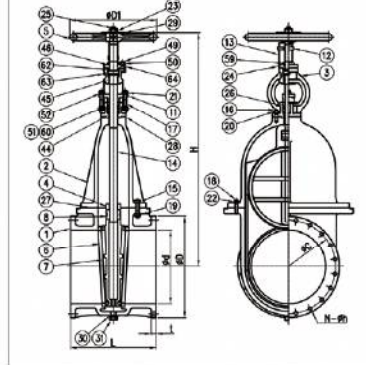
Nominal Dia
50 to 150



Nominal Dia
200 to 400



Nominal Dia
450 to 600



Nominal Pressure		5K	10K	16K
Hydraulic Inspection	Body	1.05MPa(10.5kgf/cm ²)	2.1MPa(21.0kgf/cm ²)	3.3MPa(33.0kgf/cm ²)
	Seat	*0.77MPa(7.7kgf/cm ²)	*1.54MPa(15.4kgf/cm ²)	*2.42MPa(24.2kgf/cm ²)

*Mark : Not applicable for nominal size over 400A

Nominal Press.	Dia	Flange			H	D1	W(kg)
		d	L	D C N h t			
5K (F7363)	50	50	180	130 105 4 15 16	285	125	13.5
	65	65	190	155 130 4 15 18	330	140	19
	80	80	200	180 145 4 19 18	380	160	24.2
	100	100	230	200 165 8 19 20	430	180	35.3
	125	125	250	235 200 8 19 20	495	200	48.1
	150	150	270	265 230 8 19 22	560	224	65.3
	200	200	290	320 280 8 23 24	680	280	103
	250	250	330	385 345 12 23 26	800	355	164
	300	300	370	430 390 12 23 28	920	400	236
	350	335	410	480 435 12 25 30	1000	450	307
	400	380	470	540 495 16 25 30	1100	500	405
	450	430	500	605 555 16 25 30	1420	560	556
10K (F7364)	500	480	550	655 605 20 25 32	1500	560	700
	550	530	600	720 665 20 27 32	1650	630	878
	600	580	660	770 715 20 27 32	1680	710	1120
	50	50	200	155 120 4 19 20	300	140	19.4
	65	65	220	175 140 4 19 22	350	160	27.6
	80	80	230	185 150 8 19 22	400	180	33
	100	100	250	210 175 8 19 24	450	200	45.8
	125	125	270	250 210 8 23 24	520	224	65.9
	150	150	290	280 240 8 23 26	580	250	86
	200	200	320	330 290 12 23 26	700	315	136
	250	250	380	400 355 12 25 30	840	400	230
	300	300	440	445 400 16 25 32	960	450	331
16K	350	335	500	490 445 16 25 34	1050	500	433
	400	380	590	560 510 16 27 36	1150	560	597
	50	50	200	155 120 8 19 20	300	140	19.8
	65	65	220	175 140 8 19 22	350	160	28.6
	80	80	230	200 160 8 23 24	400	180	36.2
	100	100	250	225 185 8 23 26	450	200	50.6
	125	125	270	270 225 8 25 26	520	224	71.2
	150	150	290	305 260 12 25 28	580	250	93.7
	200	200	320	350 305 12 25 30	700	315	153
	250	250	380	430 380 12 27 34	840	400	251

No.	Item	Material		No.	Item	Material	
		Class B	Class S			Class B	Class S
1	Body	FC200		22	Hexagon Nut	C3604	
2	Bonnet	FC200		23	Hexagon Nut	C3604	
3	Stuffing Box	FC200		24	Set Screw	C2700W	
4	Disc	FC200		25	Split Pin	C2600W	
5	Hand Wheel	FC200		26	Packing	JIS F7102	
6	Seat Ring	CAC406	SUS402J2	27	Gasket	JIS F7102	
7	Seat Ring	CAC406	SUS402J2	28	Gasket	JIS F7102	
8	Screwed Piece	CAC406		29	Washer	SS400	
9	Guide Bush	CAC406		30	Gasket	JIS F7102	
10	Guide Bush	CAC406		31	Drain Plug	C3771BD	
11	Packing Gland	CAC406		44	Guide Bush	C3604	
12	Indicator	CAC406		45	Guide Bush	C3604	
13	Indicator Plate	C2801P		46	Guide Bush	C3604	
14	Stem	C3771	SUS403	49	Stud Bolt	SS400	
15	Stud Bolt	SS400		50	Hexagon Nut	SS400	
	Hexagon Head Bolt	SS400		51	Pin	SUS403	
16	Stud Bolt	SS400		52	Washer	C2801P	
17	Stud Bolt	C3771		59	Set Screw	C2700W	
18	Swing Bolt	SUS403		60	Split Pin	C2600W	
19	Taper Pin	SUS403		62	Thrust Ball Bearing	-	
20	Hexagon Nut	SS400		63	Grease nipple	-	
21	Hexagon Nut	SS400		64	Cap For Yoke	FC200	
	Hexagon Nut	C3604		-	-	-	

バルブの取扱いに関する注意事項

⊘：禁止 ⚠：注意・警告

【使用範囲】

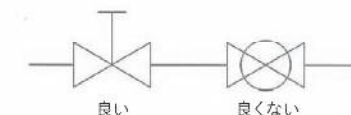
- ⚠ JIS規格(JIS F7300)、NDS規格に示した「使用流体、温度、圧力」の範囲内でご使用ください。とくに使用流体については腐食の有無をよく検討した上でご使用ください。腐食が懸念される流体についてはステンレス鋼バルブをお奨めいたします。

【防塵キャップ・詰物の除去】

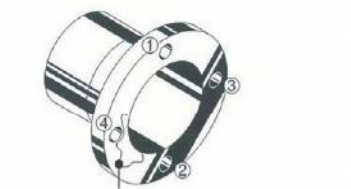
- ⚠ バルブの配管接続部の保護と内部に異物が入らないよう出荷時にポリ栓シールをしてあります。異物の侵入を防ぐために取付けの直前まで取外さないでください。保管場所は短期間であっても、湿気やほこりの少ない屋内に保管してください。
- ⚠ 配管のとき忘れずにポリ栓シールを必ず取外してください。
- ⚠ スイング逆止め弁は配管前に弁本体中の詰め物を取除いてください。

【取付けに際して】

- ⚠ 配管内の溶接スパッタ、パイプ切屑、砂利など異物はシート漏れの原因となりますので、これを取除くため、使用前には念入りに清掃・フラッシングを行ってください。
- ⚠ 玉形弁や逆止め弁などのように弁箱に流れ方向矢印のあるバルブは、流体の流れ方向と一致させて取付けてください。仕切弁には原則として流れ方向の限定はありません。
- ⚠ 水平配管の場合、仕切弁については右図に示すとおりできるだけ弁棒を垂直方向に取付けてご使用ください。
- ⚠ フランジボルトを締め付ける場合は均等な力で平均に締め付ける必要があります。右図のように対角線上のものから交互に均等な力で締め付けてください。ガスケットにシール剤を塗布する場合はあまり過剰に塗ると、バルブシートの漏れ事故の原因となることがあります。弁の取付けは口径内にガスケットがはみ出ないように注意してください。

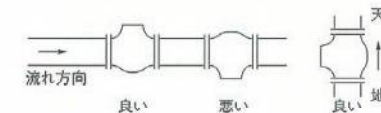


ボルトは①②③④に示す順序にて締め付けてください。

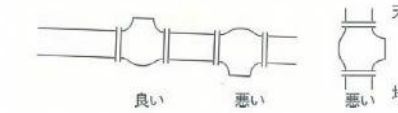


シール剤を塗布する場合はあまり過剰に塗ると、バルブシートの漏れ事故の原因となることがあります。

(イ) スイング逆止め弁
垂直、水平配管いずれにも使用できます。



(ロ) リフト式逆止め弁、ねじ締め逆止め弁
水平配管で弁姿勢を垂直に取付けのこと。



【使用開始にあたって】

- ⚠ グランドパッキンは工場での検査時、適正な締め圧を与えて出荷されますが、実際使用されるまでの期間中の応力緩和現象により締め圧の減少は避けることができません。つまり工場出荷時に比べてどうしても漏れやすくなりますので増締めが必要となります。増締めにはパッキン押えナットを締めるだけではハンドルが重くなる割にパッキンが締まらないので、ハンドルを回転して弁棒とのなじみを保ちながら数度に分けて行ってください。また使用中にグランド漏れが生じた場合には直ちにパッキンナットまたはグランドボルトのナットを増締めしてください。増締め方法はハンドルを回転させ、なじませながら漏れがなくなるまで締めます。ただし、増締め量が特に多いものおよび増締め後ハンドルが極端に重い場合には整備時にパッキンを取替えてください。
- ⚠ 流体を通した際、万一弁箱とフタの取付け部(ガスケット)に漏れのある場合は、必ずこの部分の増締めをしてください。そのまま放置しますと漏れの通り道ができて、いくら増締めしても止まらなくなります。
- ⊘ 増締め作業は、弁を中間または全開にしてから実施してください(全閉のまま増締めすると弁シート等が故障することがあります)。

【使用上のご注意】

- ⊘ 手動バルブのハンドル操作は鉄棒やパイプレンチを使わず手で行ってください。ハンドルにパイプレンチ等を掛けて無理な開閉を行うとバルブの破損や芯ずれを起こすことがありますので厳守してください。なお、制限トルクは日本バルブ工業会発行の「バルブユーザーガイド」の「ハンドル回しの使用制限」をご参照ください。
- ⚠ 玉形弁、アングル弁は極端に絞って使用すると高速の流体がシート部や弁箱に衝突して機械的腐食(エロージョン)を起こす場合があります。絞ってご使用になる場合は、ニードルバルブが適切です。
- ⊘ 仕切弁は全開または全閉でご使用ください。半開の状態で使用しますと、弁体が振動し、シートを破損することがあります。
- ⊘ 全開(全閉)位置にあるバルブを、更に開(閉)方向に回さないでください。故障の原因となります。
- ⚠ バルブ及び接続配管を足場として使用しないでください。
- ⚠ 運搬、保管、配管、操作、点検、分解、修理などの取扱いは、「バルブユーザーガイド」に従い正しく行ってください。

【保証期間・保証内容】

完成検査後18ヶ月以内又は、使用開始後12ヶ月以内に弊社の設計製作上の不備に起因する故障が発生した場合は、バルブの無償修理または新品と交換をいたします。その保証範囲は代品発送範囲(国内に限る)を限度とし、対象製品の故障に起因するお客様での二次損害(装置の損傷、機会損失、逸失利益等)及びいかなる損害も保証の対象外とさせていただきます。但し、下記の場合は保証対象外とし有償修理となります。

【保証対象外】

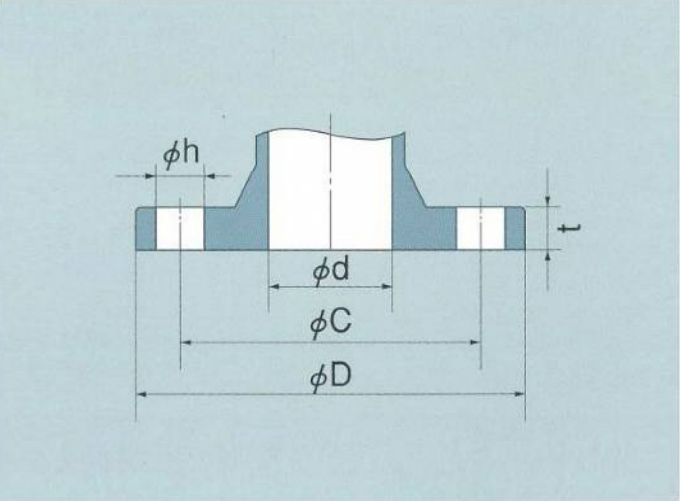
- ・本説明書から外れ誤った使用がなされた場合
- ・異物噛み込み等使用上に起因する場合
- ・改造分解、修理が行われた場合
- ・風水害、地震など天災や火災及びその他不可抗力による場合

JIS B 2240:2006 銅合金製管フランジより抜粋

表1 呼び圧力5Kフランジの寸法 (単位:mm)								
接合寸法								
呼び径	フランジの外径	ボルト穴中心間の径	ボルト穴の径	ボルトの本数	ボルトなしの厚み	内径(参考)		フランジの厚さ
A	D	C	h			d		t
						一般用	船用	
10	75	55	12	4	M10	10	10	9
15	80	60	12	4	M10	15	15	9
20	85	65	12	4	M10	20	20	10
25	95	75	12	4	M10	25	25	10
32	115	90	15	4	M12	32	32	12
40	120	95	15	4	M12	40	40	12
50	130	105	15	4	M12	50	50	14
65	155	130	15	4	M12	65	65	14
80	180	145	19	4	M16	80	80	14
100	200	165	19	8	M16	100	100	16
125	235	200	19	8	M16	125	125	16
150	265	230	19	8	M16	150	150	18
200	320	280	23	8	M20	200	200	20
250	385	345	23	12	M20	250	250	22
300	430	390	23	12	M20	300	300	22
350	480	435	25	12	M22	340	335	24
400	540	495	25	16	M22	400	380	24
450	605	555	25	16	M22	450	430	24
500	655	605	25	20	M22	500	480	24
550	720	665	27	20	M24	550	530	26
600	770	715	27	20	M24	600	580	26

表3 呼び圧力16Kフランジの寸法 (単位:mm)								
接合寸法								
呼び径	フランジの外径	ボルト穴中心間の径	ボルト穴の径	ボルトの本数	ボルトなしの厚み	内径(参考)		フランジの厚さ
A	D	C	h			d		t
10	90	65	15	4	M12	10	10	12
15	95	70	15	4	M12	15	15	12
20	100	75	15	4	M12	20	20	14
25	125	90	19	4	M16	25	25	14
32	135	100	19	4	M16	32	32	16
40	140	105	19	4	M16	40	40	16
50	155	120	19	8	M16	50	50	16
65	175	140	19	8	M16	65	65	18
80	200	160	23	8	M20	80	80	20
100	225	185	23	8	M20	100	100	22
125	270	225	25	8	M22	125	125	22
150	305	260	25	12	M22	150	150	24
200	350	305	25	12	M22	200	200	26
250	430	380	27	12	M24	250	250	28
300	480	430	27	16	M24	300	300	30

表2 呼び圧力10Kフランジの寸法 (単位:mm)								
接合寸法								
呼び径	フランジの外径	ボルト穴中心間の径	ボルト穴の径	ボルトの本数	ボルトなしの厚み	内径(参考)		フランジの厚さ
A	D	C	h			d		t
10	90	65	15	4	M12	10	10	12
15	95	70	15	4	M12	15	15	12
20	100	75	15	4	M12	20	20	14
25	125	90	19	4	M16	25	25	14
32	135	100	19	4	M16	32	32	16
40	140	105	19	4	M16	40	40	16
50	155	120	19	4	M16	50	50	16
65	175	140	19	4	M16	65	65	18
80	185	150	19	8	M16	80	80	18
100	210	175	19	8	M16	100	100	18
125	250	210	23	8	M20	125	125	20
150	280	240	23	8	M20	150	150	22
200	330	290	23	12	M20	200	200	22
250	400	355	25	12	M22	250	250	24
300	445	400	25	16	M22	300	300	24
350	490	445	25	16	M22	340	335	26
400	560	510	27	16	M24	400	380	28
450	620	565	27	20	M24	450	430	30
500	675	620	27	20	M24	500	480	30
550	745	680	33	20	M30	550	530	32
600	795	730	33	24	M30	600	580	32



銅合金材料

銅及び銅合金鑄物 (JIS H 5120より抜粋)													備考	
JIS記号 (旧記号)	化学成分(質量%)										機械的性質			
	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	引張試験			硬さ試験 ブリネル硬さ HBW
											引張強さ N/mm ²	伸び %		
CAC201(YBsC1)	83.0~88.0	-	-	11.0~17.0	-	-	-	-	-	-	145以上	25以上	-	1. ブリネル硬さの欄の()内の数字は、 試験条件を表す。 2. 1N/mm ² =1MPa
CAC202(YBsC2)	65.0~70.0	-	0.5~3.0	24.0~34.0	-	-	-	-	-	-	195以上	20以上	-	
CAC203(YBsC3)	58.0~64.0	-	0.5~3.0	30.0~41.0	-	-	-	-	-	-	245以上	20以上	-	
CAC401(BC1)	79.0~83.0	2.0~4.0	3.0~7.0	8.0~12.0	-	-	-	-	-	-	165以上	15以上	-	
CAC402(BC2)	86.0~90.0	7.0~9.0	-	3.0~5.0	-	-	-	-	-	-	245以上	20以上	-	
CAC403(BC3)	86.5~89.5	9.0~11.0	-	1.0~3.0	-	-	-	-	-	-	245以上	15以上	-	
CAC406(BC6)	83.0~87.0	4.0~6.0	4.0~6.0	4.0~6.0	-	-	-	-	-	-	195以上	15以上	-	
CAC407(BC7)	86.0~90.0	5.0~7.0	1.0~3.0	3.0~5.0	-	-	-	-	-	-	215以上	18以上	-	
CAC701(AIBC1)	85.0~90.0	-	-	-	1.0~3.0	0.1~1.0	-	8.0~10.0	0.1~1.0	-	440以上	25以上	80以上(10/1000)	
CAC702(AIBC2)	80.0~88.0	-	-	-	2.5~5.0	1.0~3.0	-	8.0~10.5	0.1~1.5	-	490以上	20以上	120以上(10/1000)	
CAC703(AIBC3)	78.0~85.0	-	-	-	3.0~6.0	3.0~6.0	-	8.5~10.5	0.1~1.5	-	590以上	15以上	150以上(10/3000)	
CAC704(AIBC4)	71.0~84.0	-	-	-	2.0~5.0	1.0~4.0	-	6.0~9.0	7.0~15.0	-	590以上	15以上	160以上(10/3000)	

銅及び銅合金の棒 (JIS H 3250より抜粋)																	
合金番号	化学成分(質量%)										記号	径・辺・ 対辺距離 mm	機械的性質				
	Cu	Pb	Fe	Sn	Zn	Al	Mn	Ni	P	Fe+Sn			Cu+Fe +Al+Mn +Ni	引張試験		硬さ試験	
														引張強さ N/mm ²	伸び %	ビッカース 硬さ HV	ブリネル硬さ HBW10/3000
C 3604	57.0~ 61.0	1.8~ 3.7	0.50 以下	-	残部	-	-	-	-	1.0以下	-	C3604 BE-F	6以上75以下	335以上	-	80以上	-
												C3604 BD-F	1以上110以下				
												C3604 BF-F	100以上				
C 3771	57.0~ 61.0	1.0~ 2.5	-	-	残部	-	-	-	-	1.0以下	-	C3771 BE-F	6以上	315以上	15以上	-	-
												C3771 BD-F					
												C3771 BF-F	100以上				
C 4641	59.0~ 62.0	0.50 以下	0.20 以下	0.50~ 1.0	残部	-	-	-	-	-	-	C4641 BE-F	6以上50以下	345以上	20以上	-	-
												C4641 BD-F	6以上110以下				
												C4641 BF-F	100以上				
C 6161	83.0~ 90.0	0.02 以下	2.0~ 4.0	-	-	7.0~ 10.0	0.50~ 2.0	0.50~ 2.0	-	-	99.5 以上	C6161 BE-F	6以上50以下	590以上	25以上	-	130以上
												C6161 BD-F					
												C6161 BF-F					
C 6191	81.0~ 88.0	-	3.0~ 5.0	-	-	8.5~ 11.0	0.50~ 2.0	0.50~ 2.0	-	-	99.5 以上	C6191 BE-F	6以上50以下	685以上	15以上	-	170以上
												C6191 BD-F					
												C6191 BF-F					

単位換算表

長さ				
cm	m	in	ft	
1	0.01	0.3937	0.03281	
100	1	39.370	3.28084	
2.54	0.0254	1	0.083332	
30.48	0.3048	12	1	
1ヤード	(3ft)=0.91440m=3.0175尺			
1マイル	(5280ft)=1609.3m=0.40979里			
1海里	(英)=1853.18m			
1海里	(メートル)=1853m			

質量				
kg	メートル法 ton	lb	英 ton	米 ton
1	0.001	2.20462	0.000984	0.001102
1000	1	2204.62	0.984204	1.1023
0.453592	0.000453	1	0.000446	0.0005
1016.05	1.01605	2240	1	1.12
907.185	0.907185	2000	0.892857	1

質量				
kg	メートル法 ton	lb	英 ton	米 ton
1	0.001	2.20462	0.000984	0.001102
1000	1	2204.62	0.984204	1.1023
0.453592	0.000453	1	0.000446	0.0005
1016.05	1.01605	2240	1	1.12
907.185	0.907185	2000	0.892857	1

面積			
cm ²	m ²	in ²	ft ²
1	0.0001	0.15500	0.0010764</