



KING GATE

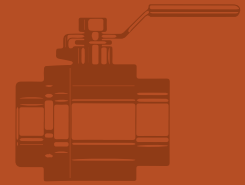
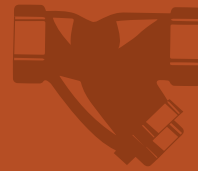
青銅 · 黃銅閥

BRONZE & BRASS VALVE

HVAC / Oil & Gas / Fire Fighting / Marine / Steam System

適用：空調、油、瓦斯、消防、船舶五金、蒸汽系統





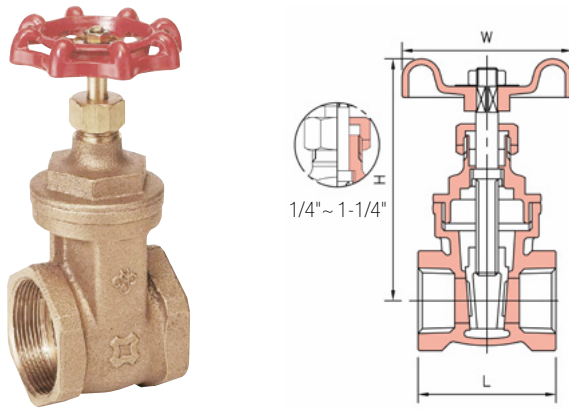
青銅・黃銅閥

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BRONZE & BRASS VALVE

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閥門Cv值 / 低揚程式安全閥吹洩量曲線圖	27

FIG 44



Features

- Non-Rising Stem
- PTFE Packing
- Screwed Bonnet
- Integral Bronze Seat
- Solid Wedge Disc
- MSS Specification SP-80 Type 1B
- Threaded Ends
- CNS-11090 台正字第 4278 號
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	BONNET	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	閥 桿	STEM	ASTM B16-C36000
5	迫緊螺帽	PACKING NUT	1/4"~2" ASTM B16-C36000 2-1/2"~4" ASTM B62-C83600
6	迫 緊	PACKING	PTFE
7	格 南	GLAND	1-1/2"~4" ASTM B16-C36000
8	手 輪	HANDWHEEL	ALUMINUM
9	銘 牌	NAME PLATE	ALUMINUM
10	閥桿套	HINGE PIN	ASTM B16-C36000
11	螺 帽	HANDWHEEL NUT	STEEL

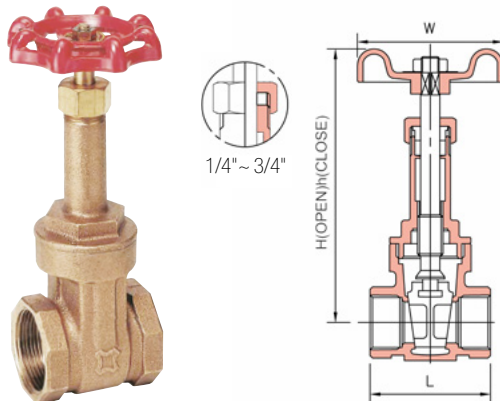
Working pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic test pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	125 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	300 psi
Cold Working Pressure 常溫工作壓力	200 psi	Seat Test Pressure 閥座測試壓力	80 psi	200 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	8	10	15	20	25	32	40	50	65	80	100
L	43	43	43	49	54	60	64	72	87	98	118
H	80	80	80	95	107	118	134	161	196	220	273
W	55	55	55	63	63	70	80	90	110	125	140

FIG 45



Features

- Rising Stem
- Back Seat
- Screwed Bonnet
- PTFE Packing
- Solid Wedge Disc
- Integral Bronze Seat
- Threaded Ends
- MSS Specification SP-80 Type-2
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	BONNET	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	閥 桿	STEM	ASTM B16-C36000
5	迫緊螺帽	PACKING NUT	1/4"~1-1/2" ASTM B16-C36000 2"~3" ASTM B62-C83600
6	迫 緊	PACKING	PTFE
7	格 南	GLAND	1"~3" ASTM B16-C36000
8	手 輪	HANDWHEEL	ALUMINUM
9	銘 牌	NAME PLATE	ALUMINUM
10	螺 帽	HANDWHEEL NUT	STEEL

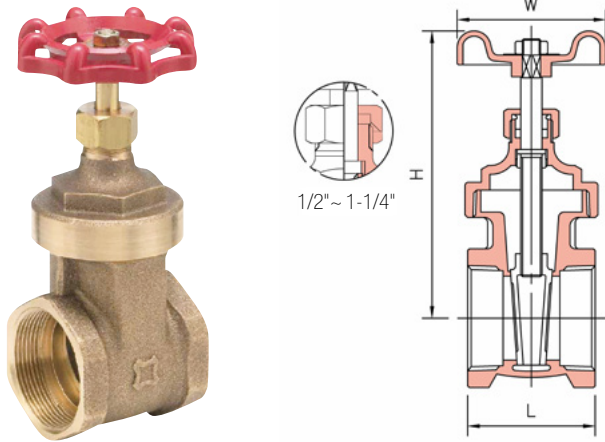
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	125 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	300 psi
Cold Working Pressure 常溫工作壓力	200 psi	Seat Test Pressure 閥座測試壓力	80 psi	200 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Size	8	10	15	20	25	32	40	50	65	80
L	43	43	48	56	62	67	71	82	95	103
H	111	111	112	144	176	204	229	295	338	394
h	96	96	99	122	148	170	188	242	271	312
W	55	55	55	63	70	80	90	110	125	140

FIG 46



Features

- Non-Rising Stem
- PTFE Packing
- Screwed Over Bonnet
- Integral Bronze Seat
- Solid Wedge Disc
- MSS Specification SP-80 Type 1B
- Threaded Ends
- CNS-11089 台正字第 6106 號
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥體	BODY	ASTM B62-C83600
2	閥蓋	BONNET	ASTM B62-C83600
3	閥門	DISC	ASTM B62-C83600
4	閥桿	STEM	ASTM B16-C36000
5	迫緊螺帽	PACKING NUT	1/2"~ 1-1/2"
			2"~ 3"
6	迫緊	PACKING	PTFE
7	格南	GLAND	1-1/2"~ 3" ASTM B16-C36000
8	手輪	HANDWHEEL	ALUMINUM
9	銘牌	NAME PLATE	ALUMINUM
10	閥桿套	HINGE PIN	ASTM B16-C36000
11	螺帽	HANDWHEEL NUT	STEEL

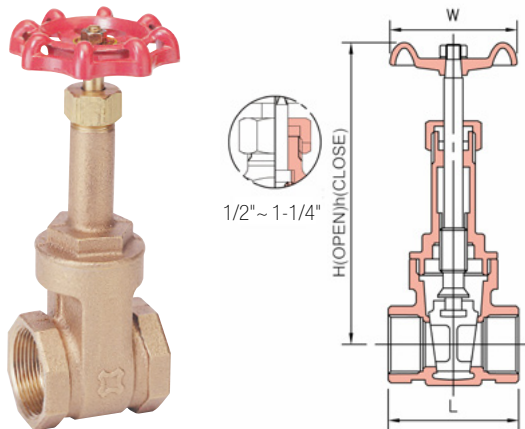
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	450 psi
Cold Working Pressure 常溫工作壓力	300 psi	Seat Test Pressure 閥座測試壓力	80 psi	300 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Size	15	20	25	32	40	50	65	80
L	43	49	54	60	64	71	87	98
H	81	94	107	114	132	159	199	222
W	55	63	63	70	80	90	110	125

FIG 47



Features

- Rising Stem
- Back Seat
- Screwed Bonnet
- PTFE Packing
- Solid Wedge Disc
- Integral Bronze Seat
- Threaded Ends
- MSS Specification SP-80 Type-2
- Full Ports
- CNS-11089 台正字第 6106 號

序號 NO.	零件	PART	材 質 MATERIAL
1	閥體	BODY	ASTM B62-C83600
2	閥蓋	BONNET	ASTM B62-C83600
3	閥門	DISC	ASTM B62-C83600
4	閥桿	STEM	ASTM B16-C36000
5	迫緊螺帽	PACKING NUT	1/2"~ 1-1/2"
			2"~ 3"
6	迫緊	PACKING	PTFE
7	格南	GLAND	1"~ 3" ASTM B16-C36000
8	手輪	HANDWHEEL	ALUMINUM
9	銘牌	NAME PLATE	ALUMINUM
10	螺帽	HANDWHEEL NUT	STEEL

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	450 psi
Cold Working Pressure 常溫工作壓力	300 psi	Seat Test Pressure 閥座測試壓力	80 psi	300 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

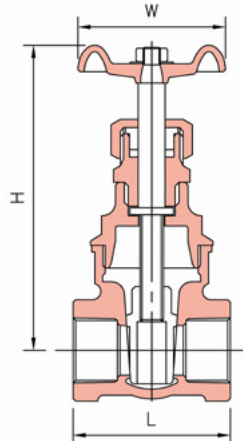
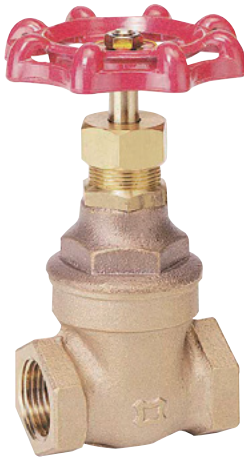
規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Size	15	20	25	32	40	50	65	80
L	48	56	62	67	71	82	95	103
H	112	144	176	204	229	295	338	394
h	99	122	148	170	188	242	271	312
W	55	63	70	80	90	110	125	140

CLASS 200

青(砲金)銅閘門閥 (非昇桿式)

Bronze Gate Valve (Non-Rising Stem)

FIG 0250



Features

- Non-Rising Stem
- Graphite Packing
- Screwed Bonnet
- Integral Bronze Seat
- Solid Wedge Disc
- MSS Specification SP-80 Type 1A
- Threaded Ends
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	BONNET	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	閥 桿	STEM	ASTM B62-C83600
5	迫緊螺帽	PACKING NUT	1/4"~ 1-1/2" ASTM B16-C36000
			2"~ 3" ASTM B62-C83600
6	固定螺柱	STUFFING BOX	ASTM B16-C36000
7	格 南	GLAND	ASTM B16-C36000
8	迫 緊	PACKING	GRAPHITE
9	手 輪	HANDWHEEL	ALUMINUM
10	銘 牌	NAME PLATE	ALUMINUM
11	螺 帽	HANDWHEEL NUT	STEEL

Working pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic test pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	200 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	600 psi
Cold Working Pressure 常溫工作壓力	400 psi	Seat Test Pressure 閥座測試壓力	80 psi	400 psi

*Temperature limitation of 450°F (232°C)

詳細尺寸 Dimension

單位 Unit: 公釐 mm

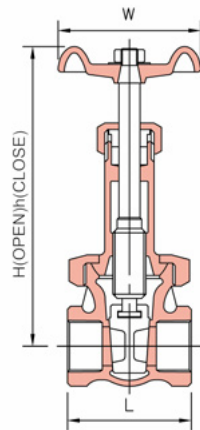
規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Size	8	10	15	20	25	32	40	50	65	80
L	45	50	56	60	70	79	90	106	114	127
H	96	97	115	130	150	170	186	222	259	298
W	55	55	55	63	70	80	90	100	110	125

CLASS 200

青(砲金)銅閘門閥 (昇桿式)

Bronze Gate Valve (Rising Stem)

FIG U0252



Features

- Rising Stem
- Back Seat
- Union Bonnet
- Graphite Packing
- Solid Wedge Disc
- Integral Bronze Seat
- Threaded Ends
- MSS Specification SP-80 Type 2
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	BONNET	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	閥 桿	STEM	ASTM B62-C83600
5	迫緊螺帽	PACKING NUT	1/4"~ 1-1/2" ASTM B16-C36000
			2"~ 3" ASTM B62-C83600
6	連結螺帽	CONNECTING NUT	ASTM B62-C83600
7	格 南	GLAND	ASTM B16-C36000
8	迫 緊	PACKING	GRAPHITE
9	手 輪	HANDWHEEL	ALUMINUM
10	銘 牌	NAME PLATE	ALUMINUM
11	螺 帽	HANDWHEEL NUT	STEEL

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	200 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	600 psi
Cold Working Pressure 常溫工作壓力	400 psi	Seat Test Pressure 閥座測試壓力	80 psi	400 psi

*Temperature limitation of 450°F (232°C)

詳細尺寸 Dimension

單位 Unit: 公釐 mm

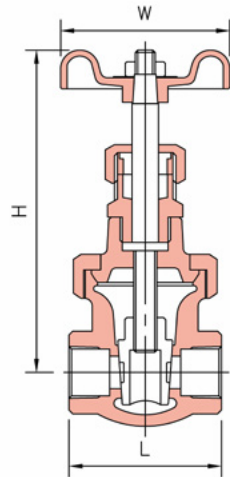
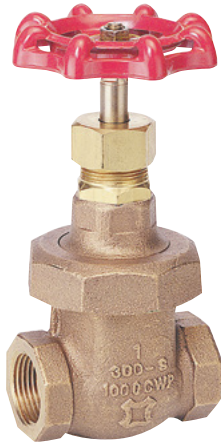
規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Size	8	10	15	20	25	32	40	50	65	80
L	45	48	55	60	68	79	89	106	115	127
H	116	116	137	170	191	229	266	287	384	447
h	106	106	124	151	166	197	226	259	317	369
W	55	55	55	63	70	80	90	100	110	125

CLASS 300

青(砲金)銅閘門閥 (非昇桿式)

Bronze Gate Valve
(Non-Rising Stem)

FIG 0230



Features

- Non-Rising Stem
- Graphite Packing
- Union Bonnet
- Integral Bronze Seat
- Solid Wedge Disc
- MSS Specification SP-80 Type 1A
- Threaded Ends
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B61-C92200
2	閥 蓋	BONNET	ASTM B61-C92200
3	閥 門	DISC	ASTM B62-C83600
4	閥 桿	STEM	ASTM B62-C83600
5	迫緊螺帽	PACKING NUT	1/4"~ 1-1/4"
			ASTM B16-C36000
6	固定螺栓	STUFFING BOX	1-1/2"~ 2"
			ASTM B62-C83600
7	連結螺帽	CONNCTING NUT	1/4"~ 1-1/4"
			ASTM B16-C36000
8	格 南	GLAND	1-1/2"~ 2"
			ASTM B62-C83600
9	迫 緊	PACKING	GRAPHITE
10	手 輪	HANDWHEEL	ALUMINUM
11	銘 牌	NAME PLATE	ALUMINUM
12	螺 帽	HANDWHEEL NUT	STEEL

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	300 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	1500 psi
Cold Working Pressure 常溫工作壓力	1000 psi	Seat Test Pressure 閥座測試壓力	80 psi	1000 psi

*Temperature limitation of 450°F (232°C)

詳細尺寸 Dimension

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
L	54	54	60	69	80	94	105	127
H	103	103	126	144	164	185	201	236
W	55	55	63	70	90	90	100	125

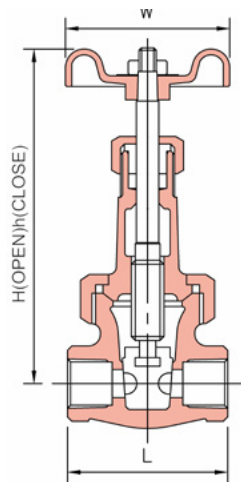
單位 Unit: 公釐 mm

CLASS 300

青(砲金)銅閘門閥 (昇桿式)

Bronze Gate Valve
(Rising Stem)

FIG 0234



Features

- Rising Stem
- Back Seat
- Union Bonnet
- Graphite Packing
- Solid Wedge Disc
- Integral Bronze Seat
- Threaded Ends
- Stainless Steel Seat Rings Fig.0236
- Full Ports
- MSS Specification SP-80 Type 2

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B61-C92200
2	閥 蓋	BONNET	ASTM B61-C92200
3	閥 門	DISC	ASTM B62-C83600
4	閥 桿	STEM	ASTM B62-C83600
5	迫緊螺帽	PACKING NUT	1/4"~ 1-1/4"
			ASTM B16-C36000
6	連結螺帽	CONNECTING NUT	1-1/2"~ 2"
			ASTM B62-C83600
7	格 南	GLAND	ASTM B16-C36000
8	迫 緊	PACKING	GRAPHITE
9	手 輪	HANDWHEEL	ALUMINUM
10	銘 牌	NAME PLATE	ALUMINUM
11	螺 帽	HANDWHEEL NUT	STEEL

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	300 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	1500 psi
Cold Working Pressure 常溫工作壓力	1000 psi	Seat Test Pressure 閥座測試壓力	80 psi	1000 psi

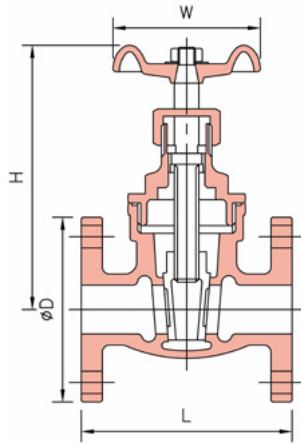
*Temperature limitation of 450°F (232°C)

詳細尺寸 Dimension

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
L	54	54	60	69	80	94	105	127
H	126	128	162	177	211	248	282	345
h	116	116	143	156	186	211	234	295
W	55	55	63	70	90	90	100	125

單位 Unit: 公釐 mm

FIG F44B



Features

- Non-Rising Stem
- PTFE Packing
- Screwed Bonnet
- Integral Bronze Seat
- Solid Wedge Disc
- Flanged Ends are plain faced with two V-shaped concentric grooves between the port and bolt holes.
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRONZE
2	閥 蓋	BONNET	CAST BRONZE
3	閥 門	DISC	CAST BRONZE
4	閥 桿	STEM	BRASS
5	迫緊螺帽	PACKING NUT	BRASS
6	迫 緊	PACKING	PTFE
7	格 南	GLAND	1-1/2"~4" BRASS
8	手 輪	HANDWHEEL	ALUMINUM
9	銘 牌	NAME PLATE	ALUMINUM
10	螺 帽	HANDWHEEL NUT	STEEL

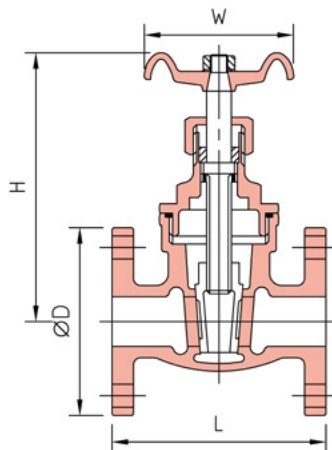
Working pressure Non-Shock 最高工作壓力 (靜流水)	Test Pressure (Mpa) Inspection Standard : JIS 2011 試驗壓力 (Mpa)	閥體測試壓力		
		Shell Test Pressure	Air 氣壓	Water 水壓
Water, Non shock, under 120°C 120°C以下靜流水	1.4 Mpa		0.6 Mpa	2.1 Mpa
Oil, Gas, Air or water under 120°C 120°C以下之油, 瓦斯, 空氣或水	1.0 Mpa		0.6 Mpa	2.1 Mpa
Saturated Steam 飽和蒸汽	1.0 Mpa	Seat Test Pressure 閥座測試壓力 (1/2-4 inch, 15-100mm)	0.6 Mpa	

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	15	20	25	32	40	50	65	80	100
L	80	80	80	100	100	115	128	150	165
H	104	104	104	116	123	184	200	216	258
Ø D	95	100	125	135	140	155	175	185	210
W	63	63	63	70	80	90	110	125	140

FIG F4B5



Features

- Non-Rising Stem
- PTFE Packing
- Screwed Bonnet
- Integral Bronze Seat
- Solid Wedge Disc
- Flanged Ends are plain faced with two V-shaped concentric grooves between the port and bolt holes.
- Full Ports

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRONZE
2	閥 蓋	BONNET	CAST BRONZE
3	閥 門	DISC	CAST BRONZE
4	閥 桿	STEM	BRASS
5	迫緊螺帽	PACKING NUT	BRASS
6	迫 緊	PACKING	PTFE
7	格 南	GLAND	1-1/2"~4" BRASS
8	手 輪	HANDWHEEL	ALUMINUM
9	銘 牌	NAME PLATE	ALUMINUM
10	螺 帽	HANDWHEEL NUT	STEEL

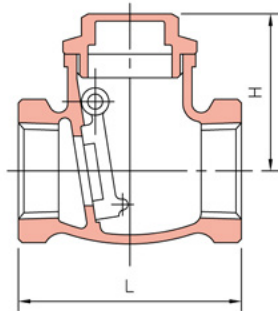
Working Pressure Non-Shock 最高工作壓力 (靜流水)	Test Pressure (Mpa) Inspection Standard : JIS 2011 試驗壓力 (Mpa)	閥體測試壓力		
		Shell Test Pressure	Air 氣壓	Water 水壓
Water, Non shock, under 120°C 120°C以下靜流水	0.7 Mpa		0.6 Mpa	1.1 Mpa
Oil, Gas, Air or water under 120°C 120°C以下之油, 瓦斯, 空氣或水	0.5 Mpa		0.6 Mpa	1.1 Mpa
Saturated Steam 飽和蒸汽	0.3 Mpa	Seat Test Pressure 閥座測試壓力 (1/2-4 inch, 15-100mm)	0.6 Mpa	

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	15	20	25	32	40	50	65	80	100
L	80	80	80	100	100	115	128	142	165
H	95	95	108	118	133	157	198	220	272
Ø D	80	85	95	115	120	130	155	180	200
W	63	63	63	70	80	90	110	125	140

FIG 53



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	CAP	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	銷	PIN	ASTM B16-C36000
5	堵 頭	PLUG	ASTM B16-C36000

Features

- T-Type Body
- Swing Disc
- Screwed Cap
- Threaded Ends
- MSS Specification SP-80 Type 3
- CNS-11088 台正字第 4337 號

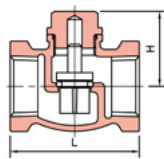
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	125 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 300 psi
Cold Working Pressure 常溫工作壓力	200 psi	Seat Test Pressure 閥座測試壓力	80 psi	200 psi

詳細尺寸 Dimension

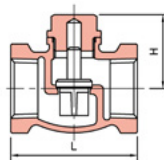
單位 Unit: 公釐 mm

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	10	15	20	25	32	40	50	65	80	100
L	54	54	61	70	81	91	109	138	150	180
H	40	39	43	49	55	61	71	83	93	109

FIG 63



O-RING



METAL TO METAL

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	CAP	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	O 型環	O-RING	VITON

Features

- Lift Check Design
- Screwed Cap
- Threaded Ends
- MSS Specification SP-80 Type 1

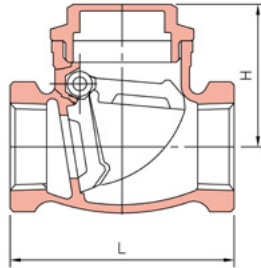
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	125 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 300 psi
Cold Working Pressure 常溫工作壓力	200 psi	Seat Test Pressure 閥座測試壓力	80 psi	200 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	8	10	15	20	25	32	40	50	65	80	100
L	45	45	48	56	65	75	84	100	118	136	170
H	29	30	30	34	38	45	51	63	74	87	96

FIG 54



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	CAP	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	銷	PIN	ASTM B16-C36000
5	堵 頭	PLUG	ASTM B16-C36000

Features

- T-Type Body
- Swing Disc
- Screwed Cap
- Threaded Ends
- Full Ports
- MSS Specification SP-80 Type 3

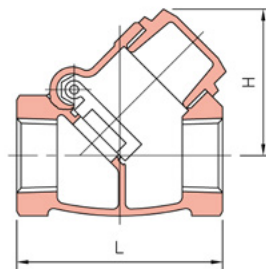
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	450 psi
Cold Working Pressure 常溫工作壓力	300 psi	Seat Test Pressure 閥座測試壓力	80 psi	300 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	59	69	79	91	101	109
H	37	45	49	60	68	71

FIG 0640



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	CAP	ASTM B62-C83600
3	閥 門	DISC	ASTM B62-C83600
4	銷	PIN	ASTM B16-C36000
5	堵 頭	PLUG	ASTM B16-C36000

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	200 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	600 psi
Cold Working Pressure 常溫工作壓力	400 psi	Seat Test Pressure 閥座測試壓力	80 psi	400 psi

*Temperature limitation of 450°F (232°C)

Features

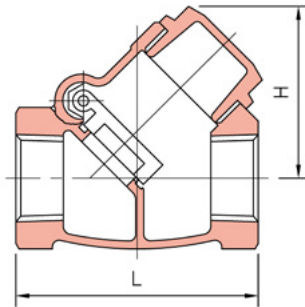
- Y-Pattern Body
- Swing Disc
- Screwed Cap
- Threaded Ends
- MSS Specification SP-80 Type 3

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
L	55	55	64	73	89	112	118	141
H	40	40	45	50	65	78	88	106

FIG 0642



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B61-C92200
2	閥 蓋	CAP	ASTM B61-C92200
3	閥 門	DISC	ASTM B62-C83600
4	銷	PIN	ASTM B16-C36000
5	堵 頭	PLUG	ASTM B16-C36000

Features

- Y-Pattern Body
- Threaded Ends
- Swing Disc
- MSS Specification SP-80 Type 3
- Screwed Cap

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 · 水 · 油或氣體	300 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	1500 psi
Cold Working Pressure 常溫工作壓力	1000 psi	Seat Test Pressure 閥座測試壓力	80 psi	1000 psi

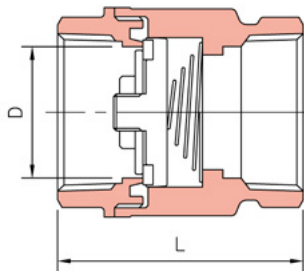
*Temperature limitation of 450°F (232°C)

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
L	55	55	64	73	89	112	118	147
H	40	40	45	50	65	78	88	113

FIG 50



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	BONNET	ASTM B62-C83600
3	閥 門	DISC HOLDER	ASTM B16-C36000
4	止洩環	DISC	NBR
5	彈 簧	SPRING	SUS 304
6	墊 片	WASHER	SUS 304
7	螺 帽	NUT	SUS 304

Features

- Spring Loaded Disc Type
- Treaded Ends
- Soft Disc
- MSS Specification SP-80 Type 2
- Integral Bronze Seat

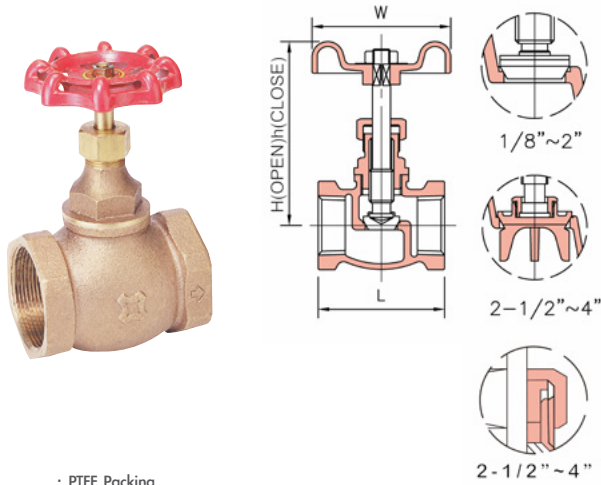
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 · 水 · 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	450 psi
Cold Working Pressure 常溫工作壓力	300 psi	Seat Test Pressure 閥座測試壓力	80 psi	300 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Size	15	20	25	32	40	50	65	80
L	53	59	67	78	84	98	119	132
D	15	20	25	32	40	50	65	80

FIG 33



Features

- Rising Stem
- Screwed Bonnet
- Tapered Plug Type Disc
- Threaded Ends
- PTFE Packing
- Integral Seat
- MSS Specification SP-80 Type 1

詳細尺寸 Dimension

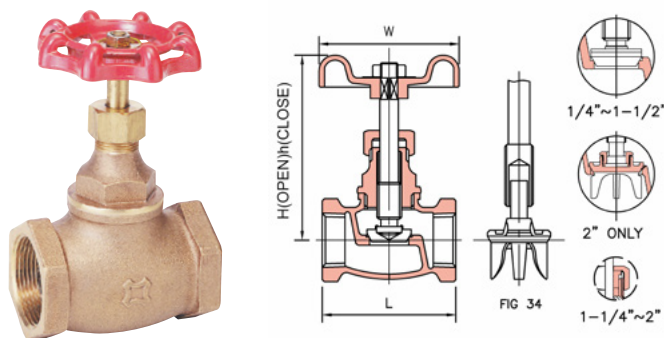
規格	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	6	8	10	15	20	25	32	40	50	65	80	100
L	45	45	45	48	56	65	74	84	100	119	136	170
H	79	79	79	81	89	104	121	132	154	185	223	261
h	71	73	73	73	80	92	103	116	138	155	190	225
W	55	55	55	55	63	70	70	80	90	110	125	140

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	BONNET	ASTM B62-C83600
3	閥 門	DISC	1/8"~2" ASTM B16-C36000
			2-1/2"~4" ASTM B62-C83600
4	閥 桿	STEM	ASTM B16-C36000
5	迫緊螺帽	PACKING NUT	1/8"~2" ASTM B16-C36000
			2-1/2"~4" ASTM B62-C83600
6	迫 緊	PACKING	PTFE
7	手 輪	HANDWHEEL	ALUMINUM
8	銘 牌	NAME PLATE	ALUMINUM
9	螺 帽	HANDWHEEL NUT	STEEL
10	格 南	GLAND	1-1/2"~4" ASTM B16-C36000

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	125 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	300 psi
Cold Working Pressure 常溫工作壓力	200 psi	Seat Test Pressure 閥座測試壓力	80 psi	200 psi

單位 Unit: 公釐 mm

FIG 35



Features

- Rising Stem
- Screwed Bonnet
- Tapered Plug Type Disc
- SDNR Disc Fig.34
- Threaded Ends
- Full Ports
- PTFE Packing
- Integral Seat
- MSS Specification SP-80 Type 1

詳細尺寸 Dimension

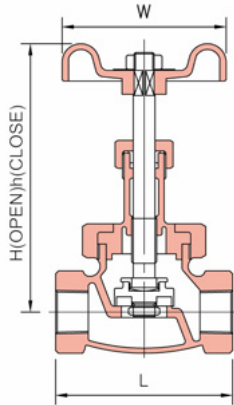
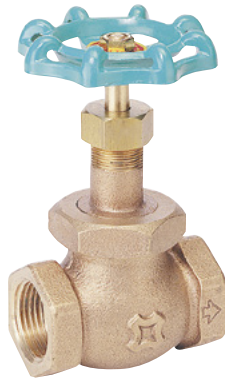
規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
L	45	45	53	65	77	85	100	119
H	77	79	86	100	117	121	151	177
h	73	73	80	92	106	115	135	158
W	55	55	63	70	70	80	90	110

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B62-C83600
2	閥 蓋	BONNET	ASTM B62-C83600
3	閥 門	DISC	1/4"~ 1-1/2" ASTM B16-C36000
			2" ASTM B62-C83600
4	閥 桿	STEM	ASTM B16-C36000
5	迫緊螺帽	PACKING NUT	1/4"~ 1-1/2" ASTM B16-C36000
			2" ASTM B62-C83600
6	迫 緊	PACKING	PTFE
7	手 輪	HANDWHEEL	ALUMINUM
8	銘 牌	NAME PLATE	ALUMINUM
9	螺 帽	HANDWHEEL NUT	STEEL
10	格 南	GLAND	1-1/4"~2" ASTM B16-C36000

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	450 psi
Cold Working Pressure 常溫工作壓力	300 psi	Seat Test Pressure 閥座測試壓力	80 psi	300 psi

單位 Unit: 公釐 mm

FIG U02



Features

- Rising Stem
- Union Bonnet
- Renewable PTFE discs simplify valve maintenance
- Threaded Ends
- Full Ports
- PTFE Packing
- Integral Seat

詳細尺寸 Dimension

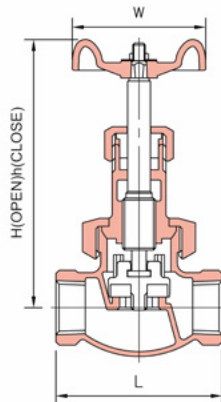
規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	55	66	75	88	101	121
H	111	122	130	144	172	199
h	103	108	117	128	153	173
W	55	70	80	90	100	110

序號 NO.	零件	PART	材 質 MATERIAL	
1	閥 體	BODY	ASTM B62-C83600	
2	閥 蓋	BONNET	ASTM B62-C83600	
3	閥 門	DISC HOLDER	1/2"~1"	ASTM B16-C36000
			1-1/4"~2"	ASTM B62-C83600
4	閥 桿	STEM	ASTM B16-C36000	
5	迫緊螺帽	PACKING NUT	ASTM B16-C36000	
6	迫 緊	PACKING	PTFE	
7	墊 片	DISC	PTFE	
8	手 輪	HANDWHEEL	ALUMINUM	
9	連結螺帽	CONNECTING NUT	ASTM B62-C83600	
10	銘 牌	NAME PLATE	ALUMINUM	
11	螺 帽	HANDWHEEL NUT	STEEL	
12	格 南	GLAND	ASTM B16-C36000	

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 450 psi
Cold Working Pressure 常溫工作壓力	300 psi	Seat Test Pressure 閥座測試壓力	80 psi	300 psi

單位 Unit: 公釐 mm

FIG U01



Features

- Rising Stem
- Union Bonnet
- Renewable PTFE discs simplify valve maintenance
- Threaded Ends
- Back Seat
- Graphite Packing
- Integral Seat
- MSS Specification SP-80 Type 2

詳細尺寸 Dimension

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Size	8	10	15	20	25	32	40	50	65	80
L	54	60	67	81	96	108	121	144	168	203
H	101	116	123	144	158	183	204	231	273	277
h	97	108	117	136	146	166	189	210	249	252
W	55	63	63	80	90	100	110	125	140	140

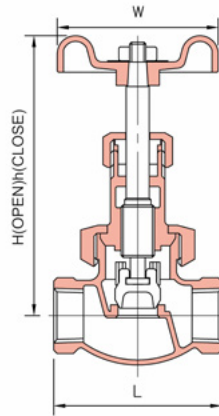
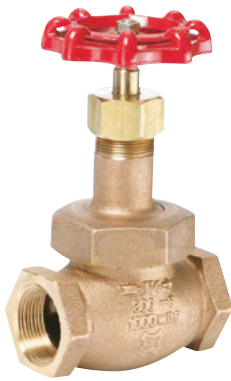
序號 NO.	零件	PART	材 質 MATERIAL	
1	閥 體	BODY	ASTM B62-C83600	
2	閥 蓋	BONNET	ASTM B62-C83600	
3	閥 門	DISC HOLDER	ASTM B62-C83600	
4	閥 桿	STEM	ASTM B62-C83600	
5	迫緊螺帽	PACKING NUT	1/4"~1-1/4"	ASTM B16-C36000
			1-1/2"~3"	ASTM B62-C83600
6	迫 緊	PACKING	GRAPHITE	
7	連結螺帽	CONNECTING NUT	ASTM B62-C83600	
8	手 輪	HANDWHEEL	ALUMINUM	
9	銘 牌	NAME PLATE	ALUMINUM	
10	螺 帽	HANDWHEEL NUT	STEEL	
11	墊 片	DISC	PTFE	
12	格 南	GLAND	PTFE	

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	200 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 600 psi
Cold Working Pressure 常溫工作壓力	400 psi	Seat Test Pressure 閥座測試壓力	80 psi	400 psi

*Temperature limitation of 450°F (232°C)

單位 Unit: 公釐 mm

FIG 0529



Features

- Rising Stem
- Graphite Packing
- Integral Seat
- Tapered Plug Type Disc
- Stainless Steel Disc and Seat Ring Fig.0505
- Full Ports
- MSS Specification SP-80 Type 1
- Back Seat

詳細尺寸 Dimension

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
L	55	60	67	81	96	108	121	145
H	106	125	131	146	160	177	204	236
h	98	117	121	137	150	166	186	218
W	55	63	63	70	80	90	110	125

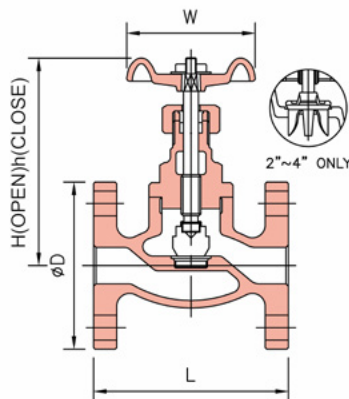
序號 NO.	零件	PART	材 質 MATERIAL
1	閥體	BODY	ASTM B61-C92200
2	閥蓋	BONNET	ASTM B61-C92200
3	閥門	DISC	ASTM B62-C83600
4	閥桿	STEM	ASTM B62-C83600
5	迫緊螺帽	PACKING NUT	1/4"~1-1/4" ASTM B16-C36000 1-1/2"~2" ASTM B62-C83600
6	迫緊	PACKING	GRAPHITE
7	格南	GLAND	ASTM B16-C36000
8	連結螺帽	CONNNECTING NUT	ASTM B61-C92200
9	手輪	HANDWHEEL	ALUMINUM
10	銘牌	NAME PLATE	ALUMINUM
11	螺帽	HANDWHEEL NUT	STEEL

Working pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic test pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	300 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 1500 psi
Cold Working Pressure 常溫工作壓力	1000 psi	Seat Test Pressure 閥座測試壓力	80 psi	1000 psi

*Temperature limitation of 450°F (232°C)

單位 Unit: 公釐 mm

FIG F33B



Features

- Rising Stem
- Screwed Bonnet
- Tapered Plug Type Disc
- PTFE packing
- Integral Seat

詳細尺寸 Dimension

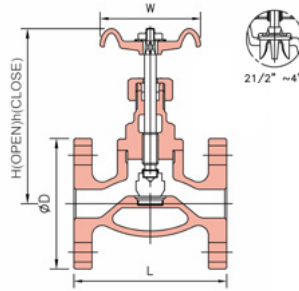
規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	15	20	25	32	40	50	65	80	100
L	86	96	110	130	150	180	210	240	280
H	85	98	120	127	152	173	201	247	273
h	77	91	105	110	133	152	174	205	233
ø D	95	100	125	135	140	155	175	185	210
W	63	70	70	70	90	110	110	125	140

序號 NO.	零件	PART	材 質 MATERIAL
1	閥體	BODY	CAST BRONZE
2	閥蓋	BONNET	CAST BRONZE
3	閥門	DISC	1/2"~1-1/2" BRASS 2"~4" CAST BRONZE
4	閥桿	STEM	BRASS
5	迫緊螺帽	PACKING NUT	1/2"~1-1/2" BRASS 2"~4" CAST BRONZE
6	迫緊	PACKING	PTFE
7	格南	GLAND	1-1/4"~4" BRASS
8	手輪	HANDWHEEL	ALUMINUM
9	銘牌	NAME PLATE	ALUMINUM
10	螺帽	HANDWHEEL NUT	STEEL

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Test Pressure (Mpa) Inspection Standard : JIS 2011 試驗壓力 (Mpa)		
Water, Non shock, under 120°C 120°C以下靜流水	1.4 Mpa	Shell Test Pressure 閥體測試壓力	Air 氣壓 0.6 Mpa	Water 水壓 2.1 Mpa
Oil, Gas, Air or water under 120°C 120°C以下之油, 瓦斯, 空氣或水	1.0 Mpa	Seat Test Pressure 閥座測試壓力 (1/2-4 inch, 15-100mm)	0.6 Mpa	

單位 Unit: 公釐 mm

FIG F3B5



序號 NO.	零件	PART	材 質 MATERIAL	
1	閥 體	BODY	CAST BRONZE	
2	閥 蓋	BONNET	CAST BRONZE	
3	閥 門	DISC	1/2"~ 2"	BRASS
			2-1/2"~ 4"	CAST BRONZE
4	閥 桿	STEM	BRASS	
5	迫緊螺帽	PACKING NUT	1/2"~ 2"	BRASS
			2-1/2"~ 4"	CAST BRONZE
6	迫 緊	PACKING	PTFE	
7	格 南	GLAND	1-1/2"~ 4"	BRASS
8	手 輪	HANDWHEEL	ALUMINUM	
9	銘 牌	NAME PLATE	ALUMINUM	
10	手輪螺帽	HANDWHEEL NUT	STEEL	

Features

- Rising Stem
- Screwed Bonnet
- Tapered Plug Type Disc
- PTFE Packing
- Integral Seat

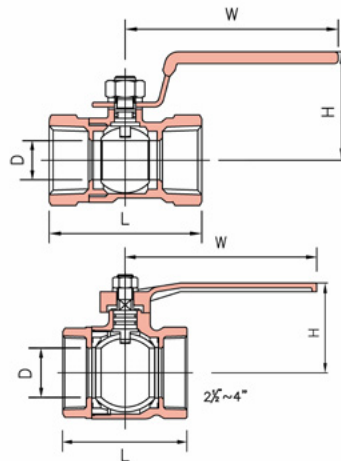
JIS 5K					JIS 10K				
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Test Pressure (Mpa) Inspection Standard : JIS 2011 試驗壓力 (Mpa)			Working Pressure Non-Shock 最高工作壓力 (靜流水)		Test Pressure (Mpa) Inspection Standard : JIS 2011 試驗壓力 (Mpa)		
Water, Non shock, under 120°C 120°C以下靜流水	0.7 Mpa	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓	Water, Non shock, under 120°C 120°C以下靜流水	1.4 Mpa	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
Oil, Gas, Air or water under 120°C 120°C以下之油, 瓦斯, 空氣或水	0.5 Mpa		0.6 Mpa	1.1 Mpa	Oil, Gas, Air or water under 120°C 120°C以下之油, 瓦斯, 空氣或水	1.0 Mpa		0.6 Mpa	2.1 Mpa
Saturated Steam 飽和蒸汽	0.3 Mpa	Seat Test Pressure 閥座測試壓力 (1/2-4 inch, 15-100mm)	0.6 Mpa		Saturated Steam 飽和蒸汽	1.0 Mpa	Seat Test Pressure 閥座測試壓力 (1/2-4 inch, 15-100mm)	0.6 Mpa	

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	15	20	25	32	40	50	65	80	100
L	60	70	80	100	100	120	140	160	175
H	78	88	102	124	135	154	181	227	264
h	72	79	90	104	115	133	154	185	240
φ D(5K)	80	85	95	115	120	130	155	180	200
φ D(10K)	95	100	125	135	140	155	175	185	210
W	55	63	70	70	80	90	110	125	140

單位 Unit: 公釐 mm

FIG 14



序號 NO.	零件	PART	材 質 MATERIAL	
1	閥 體	BODY	ASTM B62-C83600	
2	閥 蓋	BONNET	ASTM B62-C83600	
3	閥 桿	STEM	ASTM B16-C36000	
4	閥 球	BALL	BRASS(PLATED W/Cr.Ni)/S.S. 304	
5	球 墊	BALL SEAT	PTFE	
6	O 型 環	O-RING	VITON	
			3/8"~ 2"	S.S. 304
7	把 手	LEVER	CAST IRON	
			2-1/2"~ 4"	
8	彈簧華司	SPRING WASHER	S.S. 304	

Features

- 2-Piece Body
- Blowout Proof Stem
- Threaded Ends
- Standard Ports
- Generous PTFE Seats

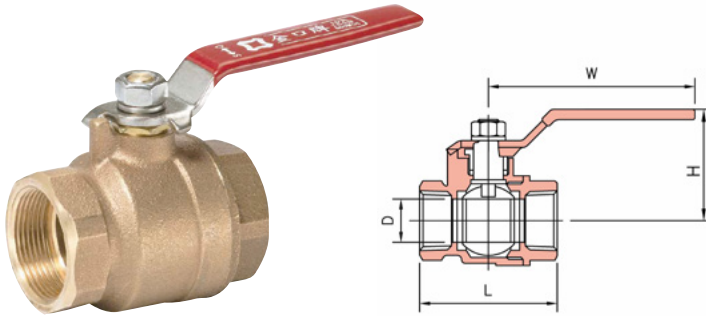
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Working pressure 蒸汽工作壓力	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 900 psi
Water, Oil or Gas 水, 油或氣體	600 psi	Seat Test Pressure 閥座測試壓力	80 psi	660 psi

詳細尺寸 Dimension

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	10	15	20	25	32	40	50	65	80	100
D	8	10	15	20	25	32	40	50	65	80
L	42	51	59	71	79	91	105	127	148	179
H	36	39	40	45	58	66	80	86	99	120
W	81	82	82	101	133	133	156	195	285	285

單位 Unit: 公釐 mm

FIG 16



Features

- 2-Piece Body
- Blowout Proof Stem
- Solid brass ball, plated/S.S. 304 Ball
- Threaded Ends
- Full Ports
- Generous PTFE seats and stem packing
- Adjustable stem packing
- MSS Specification SP-110
- CNS-11355 台正字第 5303 號

詳細尺寸 Dimension

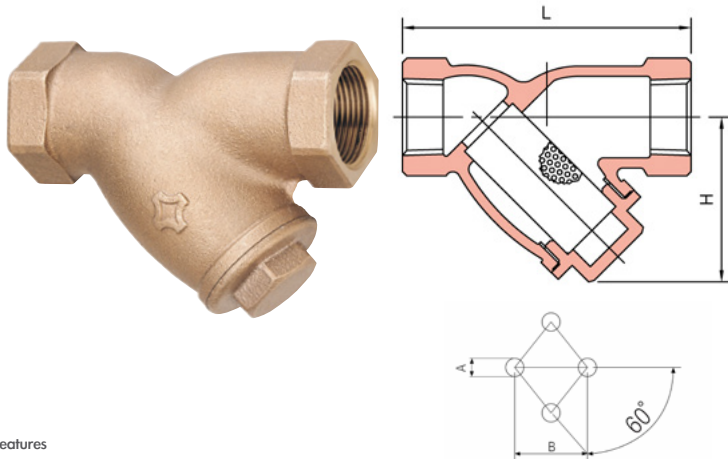
單位 Unit: 公釐 mm

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
D	10	10	12.7	19	25	31.8	38	50
L	48	48	51	61	73	84	92	111
H	35	36	38	48	53	63	69	78
w	88	88	88	122	122	134	136	157

序號 NO.	零件	PART	材 質 MATERIAL
1	閥體	BODY	ASTM B62-C83600
2	閥蓋	BONNET	ASTM B62-C83600
3	閥桿	STEM	ASTM B16-C36000
4	閥球	BALL	BRASS(PLATED W/Gr.Ni)/S.S. 304
5	球墊	BALL SEAT	PTFE
6	格南	GLAND	ASTM B16-C36000
7	把手	LEVER	S.S. 304
8	彈簧華司	SPRING WASHER	S.S. 304
9	迫緊	PACKING	PTFE

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam Working Pressure 蒸汽工作壓力	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 900 psi
Water, Oil or Gas 水, 油或氣體	600 psi	Seat Test Pressure 閥座測試壓力	80 psi	660 psi

FIG 75



Features

- Y-Pattern Body
- Perforated Stainless Steel Screen
- Screwed Cap
- Threaded Ends

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2	2-1/2"	3"
Size	10	15	20	25	32	40	50	65	80
L	70	80	100	115	135	160	196	230	239
H	41	48	57	71	81	98	123	147	182

序號 NO.	零件	PART	材 質 MATERIAL
1	閥體	BODY	ASTM B62-C83600
2	閥蓋	CAP	ASTM B62-C83600
3	墊片	GASKET	PTFE
4	濾網	SCREEN	SUS 304

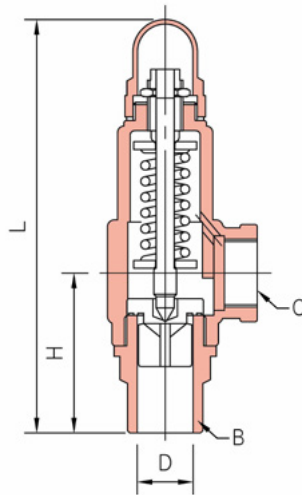
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽, 水, 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 450 psi
Cold Working Pressure 常溫工作壓力	300 psi			

規格	A	B
3/8"~3"	1.5	2.5

青(砲金)銅安全洩壓閥(密閉式)

Bronze Safety Relief Valve
(with sealing)

FIG K3



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRONZE
2	閥 蓋	CAP	FORGE BRASS
3	閥 盤	DISC	FORGE BRASS
4	閥 桿	STEM	BRASS
5	閥 座	SEAT	FORGE BRASS
6	彈 簧	SPRING	STEEL

使用壓力 Working Pressure	0.3 ~ 10 kgf/cm ²
	2.1 ~ 10 kgf/cm ²
	11 ~ 20 kgf/cm ²
使用溫度 Working Temperature	-45°C ~ 185°C
使用流體：非腐蝕性氣體，空氣，蒸汽 Working fluid：Noncorrosive Gas,Air,Steam	

* 可依使用需求，止洩環可承製 PTFE

詳細尺寸 Dimension

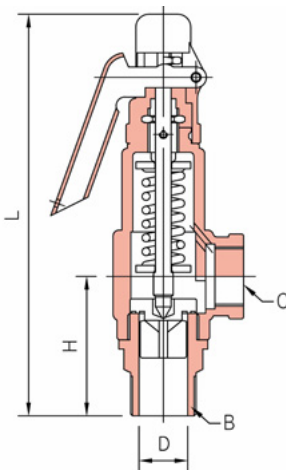
單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2
Size	15	20	25	32	40	50
L	138	149	181	207	231	266
B	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
C	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
D	13	19	25	32	38	50
H	50	58	70	82	93	102

青(砲金)銅安全洩壓閥(手拉式)

Bronze Safety Relief Valve
(with Lever)

FIG K3L



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRONZE
2	閥 蓋	CAP	FORGE BRASS
3	閥 盤	DISC	FORGE BRASS
4	閥 桿	STEM	BRASS
5	閥 座	SEAT	FORGE BRASS
6	彈 簧	SPRING	STEEL
7	拉 柄	LEVER	S.S41

使用壓力 Working Pressure	0.3 ~ 10 kgf/cm ²
	2.1 ~ 10 kgf/cm ²
	11 ~ 20 kgf/cm ²
使用溫度 Working Temperature	-45°C ~ 185°C
使用流體：非腐蝕性氣體，空氣，蒸汽 Working fluid：Noncorrosive Gas,Air,Steam	

* 可依使用需求，止洩環可承製 PTFE

詳細尺寸 Dimension

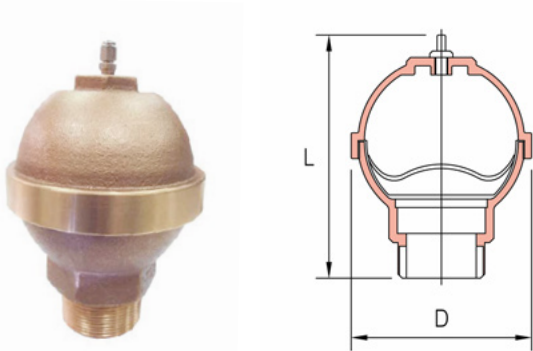
單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2
Size	15	20	25	32	40	50
L	161	172	202	222	246	282
B	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
C	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
D	13	19	25	32	38	50
H	50	58	70	82	93	102

青(砲金)銅直型水錘防止器

Bronze I Style
Water Hammer Arester

FIG 107B



Features

- 隔膜型水錘防止器的壓縮氣室，為膨脹與收縮運動，與閥體無摩擦現象，管中流體壓力升高時，壓縮氣室體積縮小，氣體壓力升高，可抵消瞬間升高的水壓
- 利用隔膜片形成壓縮氣室，運用壓縮空氣室原理吸收水錘現象達到減緩水錘現象效果水錘現象為不穩定的壓力波所造成，隔膜片採用軟質的橡膠，作動反應靈敏，改善傳統汽缸反應遲鈍的問題
- 閥體本體可長期重複使用，僅需更換隔膜片即可，並附充氣嘴，且易於保養維修更換
- 可直立或水平安裝

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2-1/2"	3"	4"
Size	15	20	25	32	40	50	65	80	100
L	91	95	110	122	133	175	200	218	270
D	46	55	64	80	92	135	155	210	260

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRONZE
2	閥 蓋	BONNET	CAST BRONZE
3	隔 膜 片	DIAPHRAGM	NBR

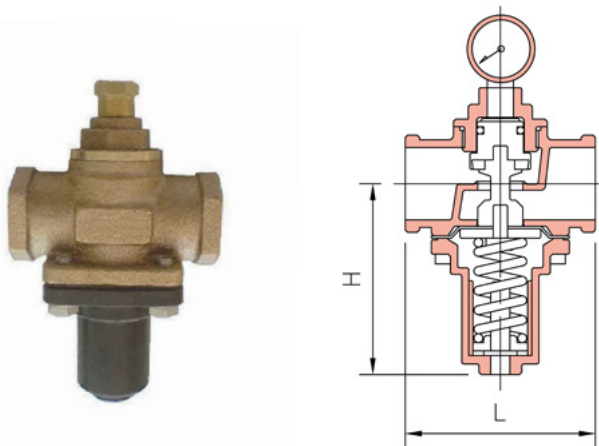
Maximum Working Pressure 最高工作壓力	12 kgf/cm ²
------------------------------------	------------------------

Hydrostatic Test Pressure 試驗壓力 (水壓)	
閥體 Shell	21 kgf/cm ²

青(砲金)銅 隔膜型-直動式減壓閥

Bronze Diaphragm Type Direct-Activated
Pressure Reducing Valve

FIG 101B



Features

- 內部控壓室採隔膜式設計，不因水質不良影響功能與壽命，不滲漏滴水
- 閥門採常開狀態設計，不因一次測壓力不穩定而影響供水
- 二次側壓力直接反應控壓室，調整設定壓力時，反應靈敏，調壓精確

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Size	15	20	25	32	40	50
L	60	70	80	90	110	115
H	70	70	80	85	110	115

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRONZE
2	閥 蓋	BONNET	CAST BRONZE
3	閥 桿	STEM	BRASS
4	調整螺絲	ADJUST PRESSURE BOLT	BRASS
5	彈 簧	SPRING	S.S. 304
6	閥門墊圈	DISC GASKET	NBR
7	隔 膜 片	DIAPHRAGM	EPDM
8	調整彈簧蓋	ADJUST SPRING COVER	SYNTHETIC FIBER

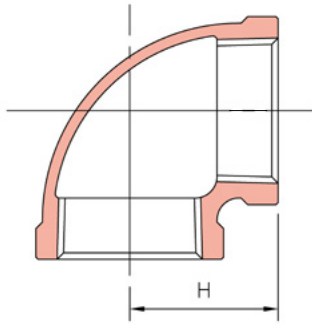
調壓範圍	2 kgf/cm ² ~ 5 kgf/cm ²
	4 kgf/cm ² ~ 9 kgf/cm ²

最高使用壓力	12 kgf/cm ²
使用流體	一般清水
使用溫度	-15°C ~ 80°C
閥體測試壓力	水 壓 21 kgf/cm ²

青(砲金)銅彎頭

Bronze Elbow

FIG L



詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	3/8"	1/2"	3/4"	1"
Size	10	15	20	25
H	23	26	29	34

序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	CAST BRONZE

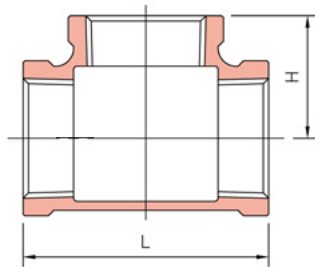
試驗壓力 (水壓) Hydrostatic Test Pressure	
閥體 Shell	25 kgf/cm ²

120°C以下之水, 油, 空氣 Water,Oil,Air under 120°C	12 kgf/cm ²
---	------------------------

青(砲金)銅三通

Bronze Tee

FIG T



詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	3/8"	1/2"	3/4"	1"
Size	10	15	20	25
L	46	52	58	68
H	23	26	29	34

序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	CAST BRONZE

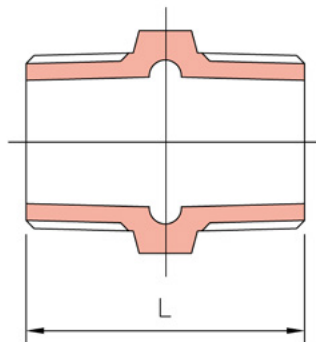
試驗壓力 (水壓) Hydrostatic Test Pressure	
閥體 Shell	25 kgf/cm ²

120°C以下之水, 油, 空氣 Water,Oil,Air under 120°C	12 kgf/cm ²
---	------------------------

青(砲金)銅六角外牙接頭

Bronze Nipple

FIG N



詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	3/8"	1/2"	3/4"	1"
Size		15	20	25
L	34	40	45	52

序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	CAST BRONZE

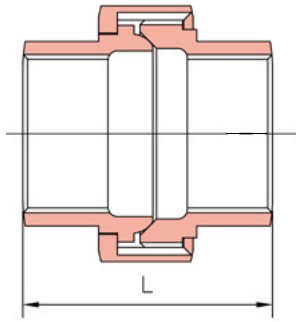
試驗壓力 (水壓) Hydrostatic Test Pressure	
閥體 Shell	25 kgf/cm ²

120°C以下之水, 油, 空氣 Water,Oil,Air under 120°C	12 kgf/cm ²
---	------------------------

青(砲金)銅由任

Bronze Union

FIG U



詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"
Size	15	20	25
L	45	49	53

序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	CAST BRONZE

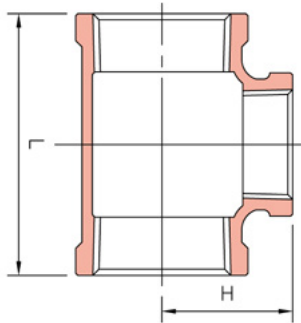
試驗壓力 (水壓) Hydrostatic Test Pressure	
閥體 Shell	25 kgf/cm ²

120°C以下之水, 油, 空氣 Water, Oil, Air under 120°C	12 kgf/cm ²
---	------------------------

青(砲金)銅異徑三通

Bronze Tee-Reducing

FIG RT



詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2" X 3/8"	3/4" X 1/2"	1" X 1/2"	1" X 3/4"
Size	15 X 10	20 X 15	25 X 15	25 X 20
L	48	58	60	63
H	23	28	30	32

序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	CAST BRONZE

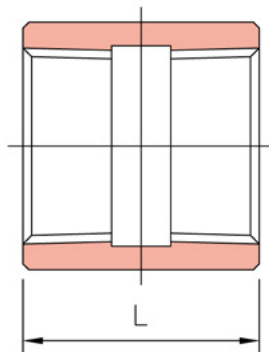
試驗壓力 (水壓) Hydrostatic Test Pressure	
閥體 Shell	25 kgf/cm ²

120°C以下之水, 油, 空氣 Water, Oil, Air under 120°C	12 kgf/cm ²
---	------------------------

青(砲金)銅接頭

Bronze Socket

FIG S



詳細尺寸 Dimension

單位 Unit: 公釐 mm

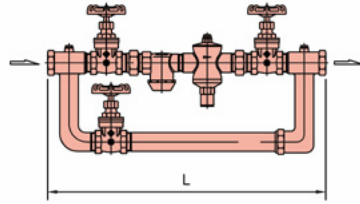
規格	3/8"	1/2"	3/4"	1"
Size	10	15	20	25
L	28	32	36	40

序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	CAST BRONZE

試驗壓力 (水壓) Hydrostatic Test Pressure	
閥體 Shell	25 kgf/cm ²

120°C以下之水, 油, 空氣 Water, Oil, Air under 120°C	12 kgf/cm ²
---	------------------------

FIG 44-H



Features

- 模組化組合，操作簡單，安裝維修方便
- 減壓閥減壓比設定在 2 以下，可避免因過大回壓所產生的噪音
- 必要時可加水錘吸收器，確實減緩噪音
- 減壓閥前端裝設過濾器可過濾管內產生之雜質銹屑，確保管內流體乾淨度，避免因雜質銹屑阻塞造成減壓失效
- 裝設旁通閥可於減壓閥或閘閥拆卸保養維修時，暫時開啟旁通閥確保管線流體暢通不受影響

序號 NO.	零件	PART	材 質 MATERIAL
1	閘 閥	GATE VALVE	CAST BRONZE
2	過 濾 器	Y-STRAINER	CAST BRONZE
3	減 壓 閥	PRESSURE REDUCING VALVE	CAST BRONZE
4	管 材	PIPE	SUS 304

閥體測試壓力 (水壓)	20 kgf/cm ²
壓力調整範圍	1 kgf/cm ² ~ 5 kgf/cm ²
	4 kgf/cm ² ~ 9 kgf/cm ²

詳細尺寸 Dimension

單位 Unit: 公釐 mm

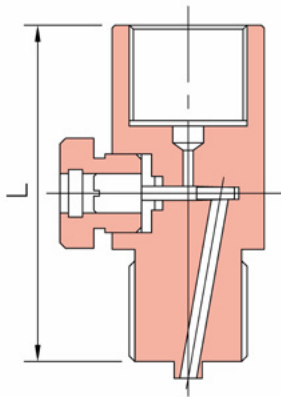
規格	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Size	15	20	25	32	40	50
L	420	440	520	650	650	920

200K

壓力計緩衝調整閥

Dampener

FIG 22



Features

- This dampener is of variable type being able to adjust pressure amplitude and applied to the decrease in pressure pulsation.
- Connection Type : Female thread x male thread

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	BRASS
2	固定螺絲	FIXING NUT	BRASS
3	調整桿	ADJUSTABLE STEM	SUS 316
4	迫 緊	PACKING	PTFE
5	格 南	GLAND	BRASS/SUS 316

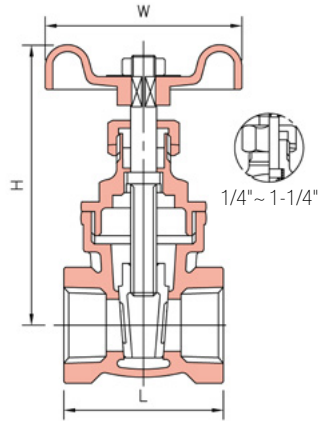
Max.allowable Working Pressure 最大允許工作壓力	20 Mpa
Pneumatic Test Pressure 測試壓力 (氣體)	30 Mpa
Fluid 使用流體	Liquid 液體
Use Fluid Temperature 使用流體溫度	Less then 80°C 低於 80°C

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	PF1/2 x PT1/2	PF3/8 x PT3/8	PF1/4 X PT1/4	PF1/2 X PF1/2	PF3/8 X PF3/8	PF1/4 X PF1/4
Size	2244T	2233T	2222T	2244F	2233F	2222F
L	60	56	52	60	56	52

FIG 41



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRASS
2	閥 蓋	BONNET	CAST BRASS
3	閥 門	DISC	CAST BRASS
4	閥 桿	STEM	BRASS
5	迫緊螺帽	PACKING NUT	BRASS
6	迫 緊	PACKING	PTFE/NBR
7	格 南	GLAND	1-1/2"~4" BRASS
8	手 輪	HANDWHEEL	ALUMINUM
9	銘 牌	NAME PLATE	ALUMINUM
10	閥桿套	HINGE PIN	BRASS
11	螺 帽	HANDWHEEL NUT	STEEL

Features

- Non-Rising Stem
- Full Ports
- Screwed Bonnet
- Integral Seat
- Solid Wedge Disc
- CNS-9805 台正字第 6105 號
- Threaded Ends

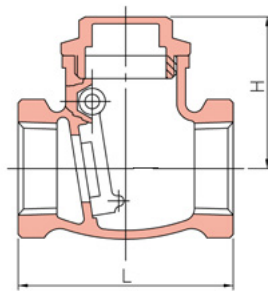
Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	125 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	300 psi
Cold Working Pressure 常溫工作壓力	200 psi	Seat Test Pressure 閥座測試壓力	80 psi	200 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	10	15	20	25	32	40	50	65	80	100
L	40	43	47	53	60	62	70	87	95	113
H	75	75	83	96	111	120	162	173	213	260
W	55	55	55	58	70	74	90	105	110	132

FIG 51



序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	CAST BRASS
2	閥 蓋	CAP	CAST BRASS
3	閥 門	DISC	CAST BRASS
4	銷	PIN	BRASS
5	堵 頭	PLUG	BRASS

Features

- T-Type Body
- Threaded Ends
- Swing Disc
- CNS-9804 台正字第 6104 號
- Screwed Cap

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 . 水 . 油或氣體	125 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓	Water 水壓
			80 psi	300 psi
Cold Working Pressure 常溫工作壓力	200 psi	Seat Test Pressure 閥座測試壓力	80 psi	200 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

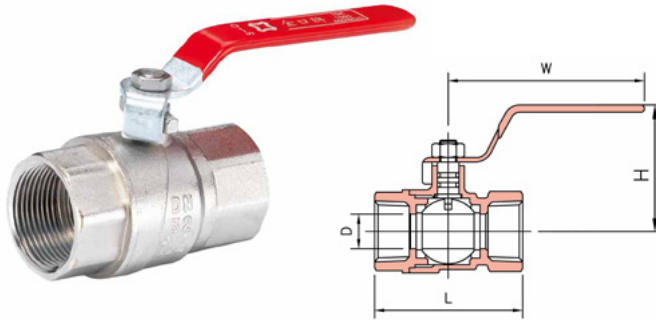
規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	15	20	25	32	40	50	65	80	100
L	54	59	69	79	89	109	135	150	180
H	37	40	46	57	63	68	81	91	110

600 WOG

鍛造黃銅球塞閥(全量型)

Forge Brass Ball Valve
(Full ports)

FIG 11



Features

- 2-Piece Body
- Full Ports
- Blowout Proof Stem
- Generous PTFE Seats
- Solid brass ball, plated
- MSS Specification SP-110
- Threaded Ends

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FORGE BRASS(PLATE W/Ni)
2	閥 蓋	BONNET	FORGE BRASS(PLATE W/Ni)
3	閥 球	BALL	BRASS PLATE (W/Cr)
4	閥 桿	STEM	BRASS PLATE (W/Cr)
5	球 墊	BALL SEAT	PTFE
6	把 手	LEVER	STEEL W/PLASTIC COATED
7	螺 帽	NUT	STEEL
8	O 型 環	O-RING	NBR

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Water, Oil or Gas 蒸汽 · 水 · 油或氣體	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 900 psi
Water, Oil or Gas 水, 油或氣體	600 psi	Seat Test Pressure 閥座測試壓力	80 psi	660 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

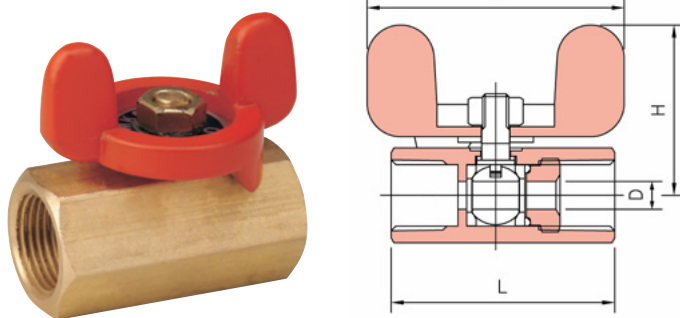
規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size	10	15	20	25	32	40	50	65	80	100
D	10	15	20	25	32	40	50	65	80	100
H	42	43	47	56	64	80	87	123	128	148
L	51	57	66	80	94	103	126	133	145	179
W	85	95	96	109	131	151	170	225	275	295

600 WOG

黃銅球塞閥

Brass Ball Valve

FIG 12



Features

- 1-Piece Body
- Reduce Ports
- Blowout Proof Stem
- Generous PTFE Seats
- Solid brass ball, plated
- Threaded Ends

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	ASTM B16-C36000
2	閥 蓋	BONNET	ASTM B16-C36000
3	閥 球	BALL	BRASS (PLATE W/Cr.Ni)
4	閥 桿	STEM	ASTM B16-C36000
5	球 墊	BALL SEAT	PTFE
6	手 輪	HANDWHEEL	ALUMINUM
7	銘 牌	NAME PLATE	ALUMINUM

Working Pressure Non-Shock 最高工作壓力 (靜流水)		Hydrostatic Test Pressure 試驗壓力 (水壓)		
Steam, Working Pressure 蒸汽工作壓力	150 psi	Shell Test Pressure 閥體測試壓力	Air 氣壓 80 psi	Water 水壓 900 psi
Water, Oil or Gas 水, 油或氣體	600 psi	Seat Test Pressure 閥座測試壓力	80 psi	660 psi

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/4"	3/8"	1/2"	3/4"
Size	8	10	15	20
D	5	8	10	12.5
H	33	74	76	84
L	40	44	54	60
W	46	46	46	49

材質對照表

中華民國國家標準-台灣 Chinese National Standards (CNS) - Taiwan

CNS 4125:2012 H3057 銅及銅合金鑄件 Copper and copper alloy castings CAC406(BC6)

CAC406												Chemical Composition%		Mechanical Properties	
Element	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Si	Sb		Tensile Strength	Elongation		
Min (%)	83.0	4.0	4.0	4.0								(N/mm2)	(%)		
Max (%)	87.0	6.0	6.0	6.0	0.3	1.0	0.05(1)	0.01	0.01	0.20		195 Min	15 Min		

(1) For permanent mold casting and centrifugal casting with metal mold, phosphorous shall be 0.5% max.

CNS 4125:2012 H3057 銅及銅合金鑄件 Copper and copper alloy castings CAC203 (YBsC3)

CAC203												Chemical Composition%		Mechanical Properties	
Element	Cu	Sn	Pb	Zn	Fe	Ni	Al					Tensile Strength	Elongation		
Min (%)	58.0		0.5	30.0								(N/mm2)	(%)		
Max (%)	64.0	1.0	3.0	41.0	0.8	1.0	0.5					245 Min	20 Min		

美國材料試驗學會 American Society for Testing and Material (ASTM) - USA 日本工業規格 Japanese Industrial Standards (JIS) - Japan

ASTM B61-15 Standard Specification for Steam or Valve Bronze Castings C92200

C92200													Chemical Composition%			Mechanical Properties		
Element	Cu(1,2)	Pb	Sn	Zn	Fe	P(3)	Ni(4)	Al	S	Sb	Si		Tensile Strength	YS-0.5% Ext	Elongation			
Min (%)	86.0	1.0	5.5	3.0									(ksi)	(ksi)	(%)			
Max (%)	90.0	2.0	6.5	5.0	0.25	0.05	1.0	0.005	0.05	0.25	0.005		34 Min	16 Min	22 Min			

(1) Cu + Sum of Named Elements 99.3% min. (2) In determining Cu min., Cu may be calculated as Cu + Ni.
(3) For continuous castings P shall be 1.5% max. (4) Ni value includes Co. * Measured at room temperature, 68°F (20°C).

JIS H 5120:2016 Copper and copper alloy castings CAC407(BC7)

CAC407												Chemical Composition%		Mechanical Properties	
Element	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Si	Sb		Tensile Strength	Elongation		
Min (%)	86.0	5.0	1.0	3.0								(N/mm2)	(%)		
Max (%)	90.0	7.0	3.0	5.0	0.2	1.0	0.05(1)	0.01	0.01	0.20		215 Min	18 Min		

(1) For permanent mold casting and centrifugal casting with metal mold, phosphorous shall be 0.5% max.

ASTM B62-17 Standard Specification for Composition Bronze or Ounce Metal Castings C83600

C83600												Chemical Composition%			Mechanical Properties		
Element	Cu(1,2)	Pb	Sn	Zn	Fe	P(3)	Ni(4)	Al	S	Sb	Si		Tensile Strength	YS-0.5% Ext	Elongation		
Min (%)	84.0	4.0	4.0	4.0									(ksi)	(ksi)	(%)		
Max (%)	86.0	6.0	6.0	6.0	0.30	0.05	1.0	0.005	0.08	0.25	0.005		30 Min	14 Min	20 Min		

(1) Cu + Sum of Named Elements 99.3% min. (2) In determining Cu min., Cu may be calculated as Cu + Ni.
(3) For continuous castings P shall be 1.5% max. (4) Ni value includes Co. * Measured at room temperature, 68°F (20°C).

JIS H 5120:2016 Copper and copper alloy castings CAC406(BC6)

CAC406												Chemical Composition%		Mechanical Properties	
Element	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Si	Sb		Tensile Strength	Elongation		
Min (%)	83.0	4.0	4.0	4.0								(N/mm2)	(%)		
Max (%)	87.0	6.0	6.0	6.0	0.3	1.0	0.05(1)	0.01	0.01	0.20		195 Min	15 Min		

(1) For permanent mold casting and centrifugal casting with metal mold, phosphorous shall be 0.5% max.

ASTM B584-14 Standard Specification for Copper Alloy Sand Castings for General Applications C84400

C84400												Chemical Composition%			Mechanical Properties		
Element	Cu(1,2)	Pb	Sn	Zn	Fe	P(3)	Ni(4)	Al	S	Sb	Si		Tensile Strength	YS-0.5% Ext	Elongation		
Min (%)	78.0	6.0	2.3	7.0									(ksi)	(ksi)	(%)		
Max (%)	82.0	8.0	3.5	10.0	0.40	0.02	1.0	0.005	0.08	0.25	0.005		29 Min	13 Min	18 Min		

(1) Cu + Sum of Named Elements 99.3% min. (2) In determining Cu min., Cu may be calculated as Cu + Ni.
(3) For continuous castings P shall be 1.5% max. (4) Ni value includes Co. * Measured at room temperature, 68°F (20°C).

JIS H 5120:2016 Copper and copper alloy castings CAC401(BC1)

CAC401												Chemical Composition%		Mechanical Properties	
Element	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Si	Sb		Tensile Strength	Elongation		
Min (%)	79.0	2.0	3.0	8.0								(N/mm2)	(%)		
Max (%)	83.0	4.0	7.0	12.0	0.35	1.0	0.05(1)	0.01	0.01	0.2		165 Min	15 Min		

(1) For permanent mold casting and centrifugal casting with metal mold, phosphorous shall be 0.5% max.

材質對照表

ASTM B584 - 08a Standard Specification for Copper Alloy Sand Castings for General Applications C85700

C85700		Chemical Composition%									Mechanical Properties		
Element	Cu	Pb	Sn	Zn	Fe	Ni	Al	Si			Tensile Strength	YS-0.5% Ext	Elongation
Min (%)	58.0	0.8	0.50	32.0							(ksi)	(ksi)	(%)
Max (%)	64.0	1.5	1.5	40.0	0.7	1.0	0.8	0.05			40 Min	14 Min	15 Min

* Measured at room temperature, 68°F (20°C).

JIS H 5120:2016 Copper and copper alloy castings CAC203 (YBsC3)

CAC203		Chemical Composition%									Mechanical Properties	
Element	Cu	Sn	Pb	Zn(1)	Fe	Ni	Al				Tensile Strength	Elongation
Min (%)	58.0		0.5	30.0							(N/mm2)	(%)
Max (%)	64.0	1.0	3.0	41.0	0.8	1.0	0.5				245 Min	20 Min

(1) Zn content(%) shall be determined as the balance of 100 per cent. It has other unanalyzed(unnamed) elements.

ASTM B124/B124M-17 Standard Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes C37700

C37700		Chemical Composition%									Mechanical Properties		
Element	Cu(1)	Pb	Zn	Fe							Tensile Strength	YS-0.5% Ext	Elongation
Min (%)	58.0	1.5									(ksi)	(ksi)	(%)
Max (%)	61.0	2.5	Rem	0.30							52 Min	20 Min	45 Min

(1) Cu + Sum of Named Elements 99.5% min. *Measured at room temperature, 68°F (20°C).

JIS H 3250:2015 Copper and copper alloy rods and bars C3771 BE/BD (PbBs-B*2)

C3771 BE/BD(1)		Chemical Composition%									Mechanical Properties	
Element	Cu	Pb	Fe	Sn	Zn						Tensile Strength	Elongation
Min (%)	57.0	1.0									(N/mm2)	(%)
Max (%)	61.0	2.5		1.0(2)		Rem					315 Min	15 Min

(1) BE (Extrusion bar), BD (Drawing bar) (2)=Fe+Sn

ASTM B16/B16M-10(2015) Standard Specification for Free-Cutting Brass Rod, Bar and Shapes for Use in Screw Machines C36000

C36000		Chemical Composition%									Mechanical Properties		
Element	Cu(1)	Pb	Zn	Fe							Tensile Strength	YS-0.5% Ext	Elongation
Min (%)	60.0	2.5									(ksi)	(ksi)	(%)
Max (%)	63.0	3.0	Rem	0.35							+	+	+

(1) Cu + Sum of Named Elements 99.5% min. +Depends on diameter or thickness (surface to surface) of material: data on request.

JIS H 3250:2015 Copper and copper alloy rods and bars C3604 BE/BD (BsBM-B*2)

C3604 BE/BD(1)		Chemical Composition%									Mechanical Properties	
Element	Cu	Pb	Fe	Sn	Zn						Tensile Strength	Elongation
Min (%)	57.0	1.8									(N/mm2)	(%)
Max (%)	61.0	3.7	0.5	1.0(2)	Rem						315 Min	-

(1) BE (Extrusion bar), BD (Drawing bar) (2)=Fe+Sn

ASTM B584 - 08a Standard Specification for Copper Alloy Sand Castings for General Applications C87500

C87500		Chemical Composition%									Mechanical Properties		
Element	Cu(1)	Pb	Zn	Al	Si						Tensile Strength	YS-0.5% Ext	Elongation
Min (%)	79.0		12.0		3.0						(ksi)	(ksi)	(%)
Max (%)		0.09	16.0	0.50	5.0						60 Min	24 Min	16 Min

(1) Cu + Sum of Named Elements 99.5% min. * Measured at room temperature, 68°F (20°C).

JIS H 5120:2016 Copper and copper alloy castings CAC802 (SzBC2)

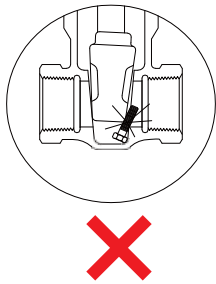
CAC802		Chemical Composition%									Mechanical Properties	
Element	Cu	Pb	Zn	Al	Si						Tensile Strength	Elongation
Min (%)	78.5		14.0		4.0						(N/mm2)	(%)
Max (%)	82.5	0.3	16.0	0.30	5.00						440 Min	12 Min

ASTM B21/B21M-14 Standard Specification for Naval Brass Rod, Bar, and Shapes C46400

C46400		Chemical Composition%									Mechanical Properties		
Element	Cu(1)	Pb	Sn	Zn	Fe						Tensile Strength	YS-0.5% Ext	Elongation
Min (%)	59.0		0.50								(ksi)	(ksi)	(%)
Max (%)	62.0	0.2	1.0	Rem	0.10						+	+	+

(1) Cu + Sum of Named Elements 99.6% min. +Depends on diameter or thickness (surface to surface) of material: data on request.

螺紋口配管注意事項 Handing Precautions

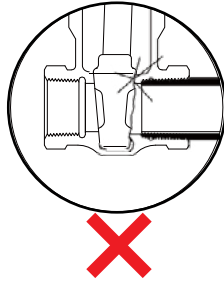
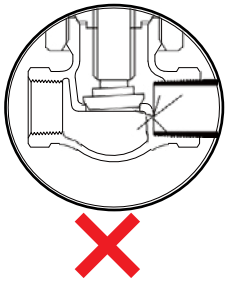


- (1) 配管前必需先檢查閥門是否有雜物、油污、金屬屑，則應先予清除，否則，配管時該雜物常形成漏水主因，並因而傷及閥門密封部位，造成閥門損壞，必需更換新品。

Prior to pipe connection, remove sand, mud, molten spatter deposits and any other foreign materials from the interior of the pipes to be connected to the valve.

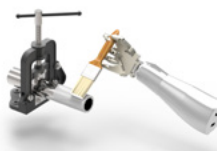
安裝閥門完成後，應用清水沖洗閥門和管道內部，以清除殘留的異物。注意：沖洗時不要操作閥門，會影響閥門開關的功能。

After valve mounting, the valve and pipe interior should be flushed to remove foreign objects. Do not operate valves during flushing.



- (2) 管部的螺牙須依照管用斜度，螺紋規格車削不可過小，管端鎖入閥體牙部時，應注意不可過度鎖入撞擊出水口端，造成閥門變形損壞，甚至閥體擠裂。

Care should be taken not to overtighten the pipe connected to the valve. If the pipe is inadvertently screwed deep into the threaded chamber of the valve, it may deform the body seat.



- (3) 以膠液做牙部密封之介質時，應塗抹於管端牙部，不應塗抹於閥之內牙部，若該膠液流入閥門密封部位時，會形成閥門漏水。

Apply a thin coat of an appropriate liquid sealant (pipe compound) to the thread-cut portion. The liquid sealant should always be applied on the thread of the pipe and not the valve.

使用的密封材料，應可適用在有溫度的管道和管道的流體，管道的密封塗料或止洩帶，被推薦使用作為管件接頭的密封劑。

Use sealing materials applicable to the temperature and the fluid at threaded areas. Pipe Dope or Teflon tape(1-2 wraps) is recommended for use as the pipe joint sealant.



- (4) 為了防止閥門扭曲，六角端處變形，配管時，應以夾具夾緊管子，再用管鉗夾住靠近配管端閥之六角，進行鎖緊之操作，不可夾住閥體，再用管鉗旋轉管件作鎖配動作。無論鎖配或調整閥之方向，管鉗夾住閥體六角位置應靠近配管端，不可夾持在離管較遠之六角端處。

When a screwed-end valve will be connected to the pipe, be sure to hold the pipe in the pipe vice and screw the valve onto it. In the case, always apply the wrench to the connected end the valve.



螺紋口配管注意事項 Handing Precautions

由於青銅的機械性質是一種比鋼軟的金屬，因此不可用過大的力矩，將管道螺牙端鎖入閥門導致閥門破裂，應使用的扭力值依下列圖表所示：

Because bronze is a softer metal than steel, do not apply any excessive torque to thread pipe ends into valves.

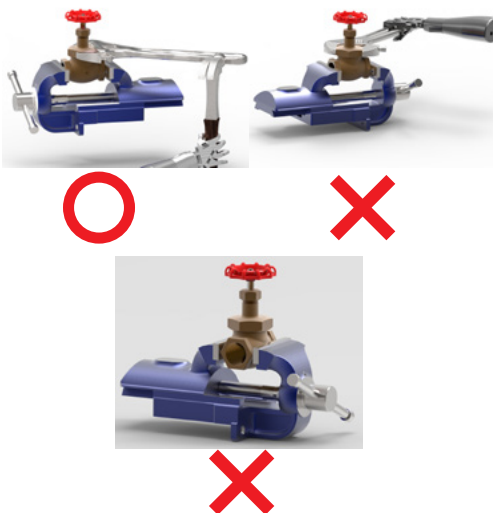
Torques to be applied should be within the following ranges.

Nominal Size	1/8	1/4	3/8	1/2	1/4	1
Torque N · m	20 to 29	20 to 29	20 to 29	20 to 29	30 to 49	40 to 59
Nominal Size	1-1/4	1-1/2	2	2-1/2	3 and up	
Torque N · m	59 to 69	69 to 78	78 to 88	108 to 118	127 to 137	



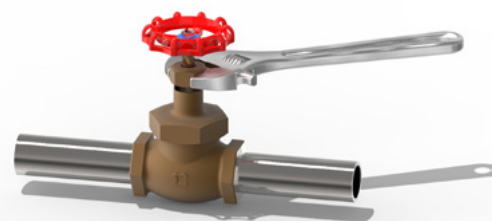
在安裝管道螺牙端與閥門端同一側，請使用平滑的顎式扳手，以防止閥門內部變形或扭矩和應力傳遞到閥體，造成閥體破裂。注意：管扳手只能用於在安裝管道和管配件。

Always use a smooth-jawed wrench on the valve end on the same side of the valve to which the pipe or fitting is being installed to prevent distortion of the internal parts of the valve or transmission of torque and stress into the body joint. Pipe Wrenches should be used on pipe and fittings only.



(5) 開啟閥蓋，應以夾具夾住閥兩端面處，再用管鉗夾持閥蓋六角端，輕輕敲打管鉗使閥蓋鬆脫，旋開。勿使用在管鉗手柄加長握把，將閥蓋 旋開，會造成閥蓋損壞。

To open bonnet by holding end-to-end portion of valve and apply the wrench onto the bonnet, beat wrench lightly to make bonnet loose and take off from valve. Do not extend the handle of wrench to fasten and open the bonnet. It will cause the damage to valve.



(6) 在運輸和儲存過程中因為應力鬆弛，填料的壓迫量可能已經降低，這可能會導致從格南處的洩漏問題。操作前重新鎖緊墊料螺帽。當經由墊料螺帽洩漏時，用扳手適當的鎖緊墊料螺帽。閥就可以正常使。警告：鎖太緊可能導致閥門操作不順暢。

Retighten packing nut before operation. Packing tightening stress may have been lowered due to the stress relaxation during transportation and storage, which may cause leakage problem from gland area.

When leakage through gland nut, to use spanner to tighten gland nut adequately. The valve can be used normally.

Caution: Too much tightening may cause unsmooth operation.

Threaded and Solder-End Valves

Class	CWP	Shell Test Pressure - Minimum (psi)		Seat Test Pressure - Minimum (psi)	
		Air	Water	Air	Water
125	200	80	300	80	200
150	300	80	450	80	300
200	400	80	600	80	400
300	600	80	900	80	600
300 ^(a)	1000	80	1500	80	1000
350	1000	80	1500	80	1000

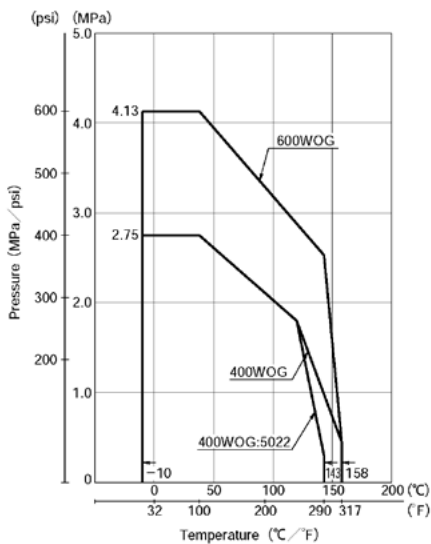
NOTE : (a) Alternate ratings for valve sizes NPS 1/8 to 2, having threaded ends and union ring body-bonnet joints.

Flanged End Valves

Class	CWP	Shell Test Pressure - Minimum (psi)		Seat Test Pressure - Minimum (psi)	
		Air	Water	Air	Water
150	225	80	350	80	225
300	500	80	750	80	500

壓力閥 Pressure-Temperature Ratings

Ball Valves (Extracted from MSS SP-110)



Pressure-Temperature Ratings (Extracted from MSS SP-110)

WOG	WOG 38°C (3°F)		Test pressure			
	MPa	psi	shell (water)		seat (air)	
			MPa	psi	MPa	psi
400 WOG	2.75	400	4.13	600	0.55	80
600 WOG	4.13	600	6.20	900	0.55	80

in flammable or toxic gas

Pressure Test (Extracted from MSS SP-110)

Valve CWP Rating	Test Pressure(minimum) 測試壓力(最小)			
	AIR(psig) 氣壓 (psig)		HYDROSTATIC(psig) 水壓 (psig)	
CWP	Shell 閥體	Seat 閥座	Shell 閥體	Seat 閥座
400	80	80	600	440
600	80	80	900	660

JIS Standard Valves Bronze Gate,Globe and Check Valve (JIS B2011)

Service temperature			Maximum working pressure (MPa)	
			5K	10K
Water, Non-shock at less than 120°C			0.7	1.4 1.18(*3)
Oil, gas(*4), air, water at less than 120°C			0.5	1.0 0.85(*3)
Saturated steam(*1)			0.3 0.2(*2)	1.0 0.7(*2)
Test pressure	shell	water	1.1	2.1
	seat	air	0.6	0.6

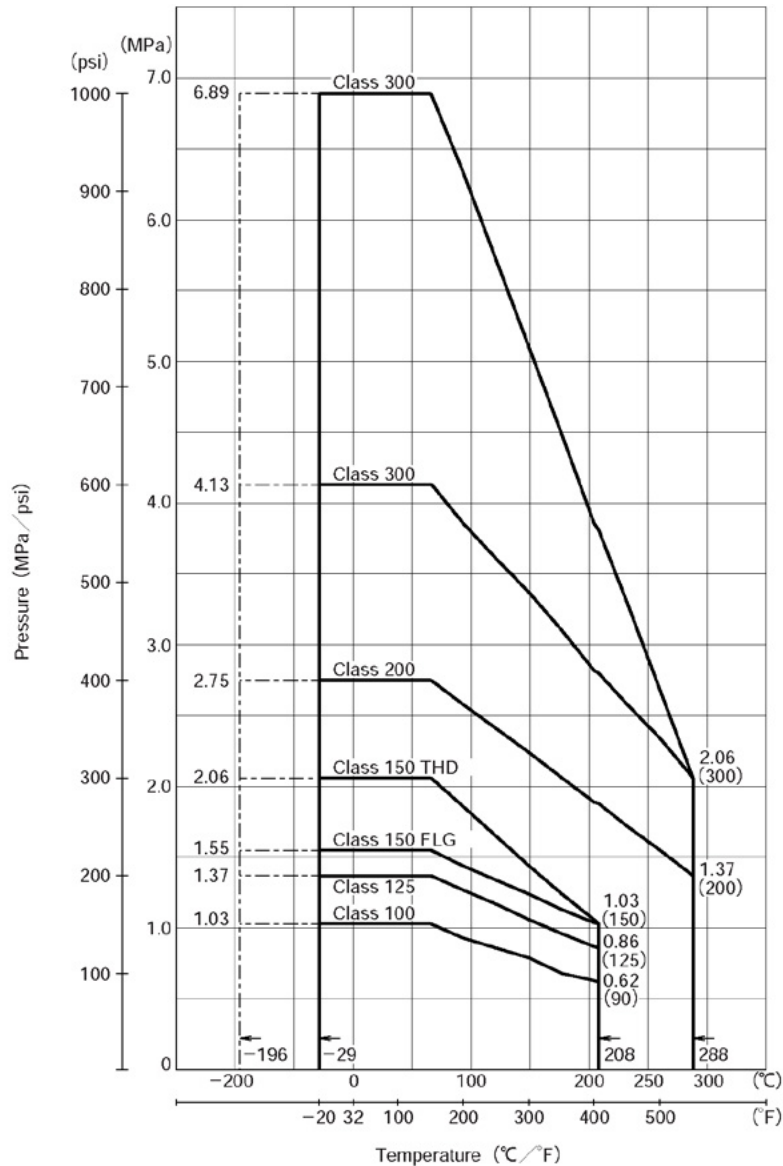
(*1) Not Applied to solder ends

(*2) Applicable to gate valve

(*3) Applicable to solder ends in size 32mm (1.1/4") and larger

(*4) Do not use products in flammable or toxic gas

Bronze and Brass Valves (Extracted from MSS SP-80)



Pressure-Temperature Ratings

Service temperature		100		125		150				200		300			
		THD		THD		FLG		FLG		THD		THD			
°C	°F	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
-29-66	-20-150	1.03	150	1.37	200	2.06	300	1.55	225	2.75	400	4.13	600	6.89	1000
93	200	0.93	136	1.27	185	1.86	270	1.44	210	2.58	375	3.86	560	6.34	920
121	250	0.86	126	1.17	170	1.65	240	1.34	195	2.41	350	3.61	525	5.72	830
149	300	0.79	116	1.06	155	1.44	210	1.24	180	2.24	325	3.37	490	5.10	740
177	350	0.68	100	0.96	140	1.24	180	1.13	165	2.06	300	3.10	450	4.48	650
204	400	0.63	92	-	-	-	-	-	-	1.89	275	2.82	410	3.86	560
208	406	0.62	90	0.86	125	1.03	150	1.03	150	-	-	-	-	-	-
232	450	-	-	-	-	-	-	-	-	1.72	250	2.58	375	3.30	480
260	500	-	-	-	-	-	-	-	-	1.55	225	2.34	340	2.68	390
288	550	-	-	-	-	-	-	-	-	1.37	200	2.06	300	2.06	300

NOTE: Class 100 outside of MSS SP-80

閥門Cv值

Cv 值

當使用金口閥門時，其所謂 CV 值，是一個數學常數，其代表的意義是「當溫度為 60 °F 的清水，通過閥門流道，入口端和出口端產生 1 psi (6.89kpa) 的壓力降時，每分鐘所能通過的清水流量加侖數」。當流體是水的時候，Cv 值可以藉由實驗來確定，並確認 Cv 值與流量或壓降之間的關聯。就清水流體而言，閥前後壓力差或流量能經由下列公式獲得：

Cv Value

The Cv value, which is used by KING GATE VALVE to indicate the capacity of a valve, is a flow rate represented in terms of U.S. gallons per minute when clear water at 60 °F flows through a valve, in which the differential pressure between its outlet and inlet is kept at 1 psi (6.89kPa). The Cv value can be determined by experiment, and the relation between the Cv value and the flow rate or pressure drop, when the fluid is water. In case of water, the pressure drop or the flow rate can be obtained by the following formulas.

$$\Delta P = 0.134 \frac{Q^2 G_L}{C_v^2}$$

ΔP = 閥前後壓力差 Pressure drop(MPa)

Q = 液態流量 Flow rate

$$Q = 2.735 C_v \sqrt{\frac{\Delta P}{G_L}}$$

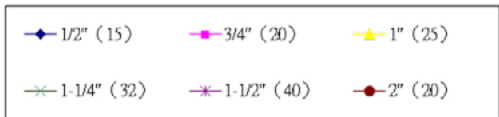
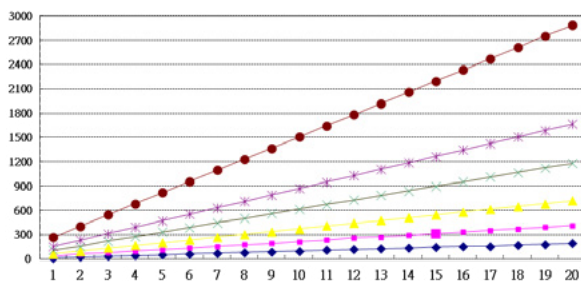
G_L = 流體的比重 Specific gravity of fluid when setting water to 1

C_v = Cv Value

青 (砲金) 銅閥 Cast Bronze Valve

Valve type		GATE	GLOBE		CHECK		BALL FULL BORE	STRAINER
Nominal	Inch		Lift	Swing	Lift	Swing		
mm	inch	44/45/46/47 0250 / U0252 0230 / 0234	33	35/U01 0529/U02	63	53 / 54 0640 / 0642	16	75
8	1/4	2.8	-	-	-	1.5	-	-
10	3/8	5.7	2	2	2	2.8	-	-
15	1/2	15	3	3.5	3.5	5	26	4.5
20	3/4	18	4.5	6.5	6.5	9	46	7.5
25	1	29	8.5	12	11	20	80	14
32	1 1/4	59	16	21	19	36	105	19
40	1 1/2	120	23	30	28	51	141	30
50	2	190	38	49	46	92	215	47
65	2 1/2	335	64	87	81	162	-	-
80	3	486	93	-	123	247	-	-
100	4	772	-	-	163	-	-	-

低揚程式安全閥吹洩量曲線圖 Curve Drawing Of Low Lift Safety Valve



設定壓力 Set Pressure	尺寸 SIZE	蒸汽吹洩量 Steam Blowout cap. (kg/h)					
		1/2" (15)	3/4" (20)	1" (25)	1-1/4" (32)	1-1/2" (40)	2" (20)
1 kgf/cm2		18	39	68	111	157	272
2 kgf/cm2		28	69	102	158	237	410
3 kgf/cm2		37	79	137	224	316	547
4 kgf/cm2		46	99	171	281	396	685
5 kgf/cm2		56	119	205	337	475	823
6 kgf/cm2		65	139	240	394	555	961
7 kgf/cm2		74	159	275	450	635	1099
8 kgf/cm2		84	179	309	507	714	1237
9 kgf/cm2		93	198	344	563	794	1374
10 kgf/cm2		102	218	378	619	874	1512
11 kgf/cm2		112	238	413	676	953	1650
12 kgf/cm2		121	268	447	732	1033	1788
13 kgf/cm2		130	278	481	789	1112	1926
14 kgf/cm2		140	298	516	845	1192	2064
15 kgf/cm2		149	318	550	902	1272	2202
16 kgf/cm2		158	338	585	958	1351	2339
17 kgf/cm2		157	358	619	1015	1431	2477
18 kgf/cm2		177	378	654	1071	1510	2615
19 kgf/cm2		186	398	688	1128	1590	2763
20 kgf/cm2		195	417	723	1184	1670	2891



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