

雙由任球閥 TRUE UNION BALL VALVE

★材質：PVC & CPVC

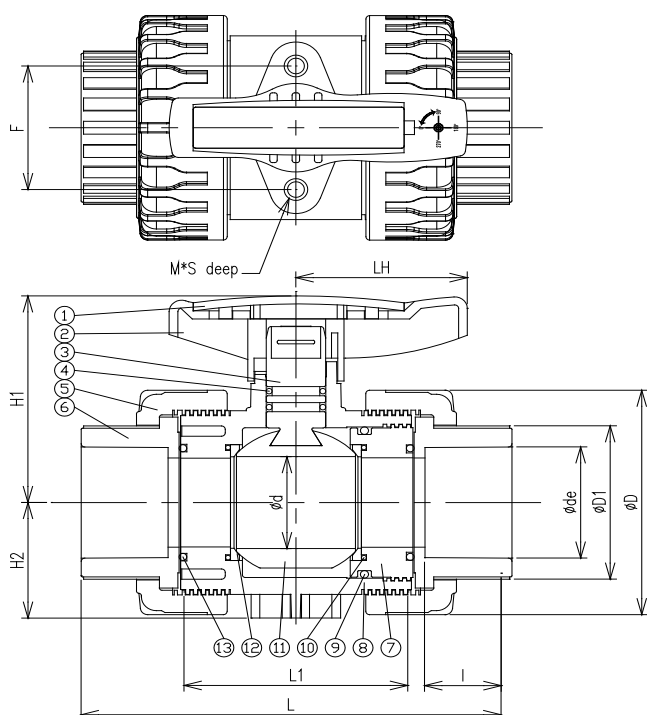
★尺寸：1/2" ~ 2-1/2"

★廠牌：SUPERTUNG

★規格：美規 ANSI / 日規 JIS / 台規 CNS / 歐規 DIN



- 工作壓力 Working pressure : 150 PSI / 73°F
- 雙由任設計，容易安裝及維修
Two union design and easy maintenance
- 全流量 Full port design
- 墊座：Teflon seat ; O環：EPDM or FPM
- 中心柱雙O環設計，安全性高 Double O-ring stem seals
- 本體可選配加裝銅柱，以利安裝驅動器
Copper bolt is based on customer's choice for easy automated
- 不建議長期使用於半開狀態！
Don't use in a half-open state for the long-term



No	PARTS NAME	Q'TY	MATERIAL
1	HANDLE CAP	1	ABS
2	HANDLE	1	ABS
3	STEM	1	PVC , CPVC
4	O-RING	2	EPDM , FPM
5	NUT	2	PVC , CPVC
6	CONNECTOR	2	PVC , CPVC
7	CARRY	1	PVC , CPVC
8	BODY	1	PVC , CPVC
9	O-RING	1	EPDM , FPM
10	O-RING	2	EPDM , FPM
11	BALL	1	PVC , CPVC
12	SEAT	2	PTFE
13	O-RING	2	EPDM , FPM

Copper bolt data 銅柱寸法	F	M	S
1/2"(15mm)	30	5	8
3/4"(20mm)	33	5	8
1"(25mm)	40	6	12
1-1/4"(32mm)	47	8	11
1-1/2"(40mm)	54	8	12
2"(50mm)	70	8	15
2-1/2"(65mm)*	70	8	15

2-1/2" : Decrement Type-inside diameter 50mm (減量型) 單位 :mm

SIZE	D	L	美規 插管		歐規 插管		日規 插管		台規 插管		美牙	日牙	平行牙	D1	d	L1	LH	H1	H2
			ANSI socket		DIN socket		JIS socket		CNS socket		NPT	BSPT	BSPF						
			¢ de	I	¢ de	I	¢ de	I	¢ de	I	thd./in.	thd./in.	thd./in.						
1/2"(15mm)	46	116	21.34	22.5	20	20.0	22	22.5	22	22.5	14	14	14	32	13	62	45	49	23.5
3/4"(20mm)	56	133	26.67	25.7	25	23.0	26	25.7	26	25.7	14	14	14	38	19	72	52	60	29.0
1"(25mm)	66	150	33.40	28.9	32	26.0	32	28.9	34	28.9	11.5	11	11	45	25	80	58	69	35.0
1-1/4"(32mm)	82	168	42.16	33.8	40	31.0	38	33.8	42	33.8	11.5	11	11	55	31	87	66	76	42.5
1-1/2"(40mm)	98	173	48.26	35.0	50	34.0	48	35.0	48	35.0	11.5	11	11	67	40	94	69	91	50.5
2"(50mm)	120	206	60.32	38.5	63	38.5	60	38.5	60	38.5	11.5	11	11	81	50	112	81	110	61.0
2-1/2"(65mm)*	120	211	73.02	41.5	75	41.5	76	41.5	76	41.5	8	11	11	89	50	112	81	110	61.0

2-1/2"* : Decrement Type-inside diameter 50mm (減量型)

單位:mm

● Technical Information

項次 Item	品 名 Description	尺寸 Size	材質 Material		
			主體 Body	墊座 Seat	O 環 O-ring
(1)	True Union Ball Valve	1/2"(DN15)	PVC , CPVC	PTFE	EPDM , FPM
(2)	True Union Ball Valve	3/4"(DN20)	PVC , CPVC	PTFE	EPDM , FPM
(3)	True Union Ball Valve	1"(DN25)	PVC , CPVC	PTFE	EPDM , FPM
(4)	True Union Ball Valve	1-1/4"(DN32)	PVC , CPVC	PTFE	EPDM , FPM
(5)	True Union Ball Valve	1-1/2"(DN40)	PVC , CPVC	PTFE	EPDM , FPM
(6)	True Union Ball Valve	2"(DN50)	PVC , CPVC	PTFE	EPDM , FPM
(7)	True Union Ball Valve	2-1/2"(DN65)*	PVC , CPVC	PTFE	EPDM , FPM

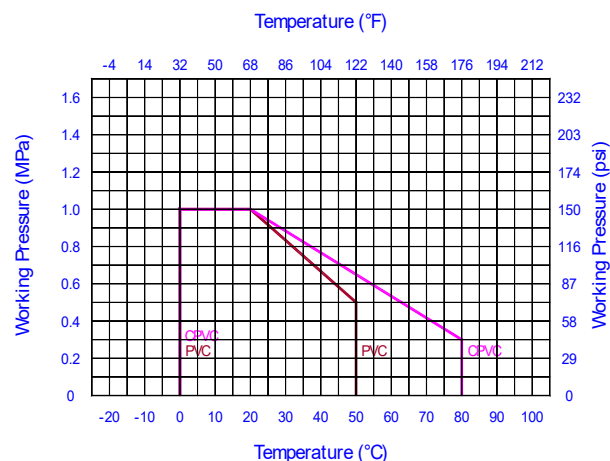
2-1/2"* : Decrement Type-inside diameter 50mm (減量型)

尺寸 Size	壓力測試 Hydrostatic test		墊座耐壓 Seat test	O 環耐壓 O-ring test	扭力	流量係數
	爆破壓力	1000hrs 持壓	閥全閉 valve close	閥全開 valve open		
	burst pressure water(kgf/cm ²) minimum	behavior test water(kgf/cm ²) minimum	no-leakage water(kgf/cm ²) minimum	no-leakage water(kgf/cm ²) minimum	Torque kgf*cm maximum	Cv
1/2"(DN15)	42	22	6	6	25	8
3/4"(DN20)	42	22	6	6	30	15
1"(DN25)	42	22	6	6	35	29
1-1/4"(DN32)	42	22	6	6	65	75
1-1/2"(DN40)	42	22	6	6	75	90
2"(DN50)	42	22	6	6	95	140
2-1/2"(DN65)*	42	22	6	6	95	140

2-1/2"* : Decrement Type-inside diameter 50mm (減量型)

- 溫度與工作壓力關係
- Working pressure vs. Temperature

壓損計算公式
Pressure Loss
Calculation Formula
 $\Delta P = (Q / Cv)^2$
 ΔP : Pressure Drop
Q : Flow in GPM
Cv : Flow Coefficient



雙由任球閥 TRUE UNION BALL VALVE

★材質：PVC & CPVC

★尺寸：2-1/2" ~ 4"

★廠牌：SUPERTUNG

★規格：美規 ANSI / 日規 JIS / 台規 CNS / 歐規 DIN

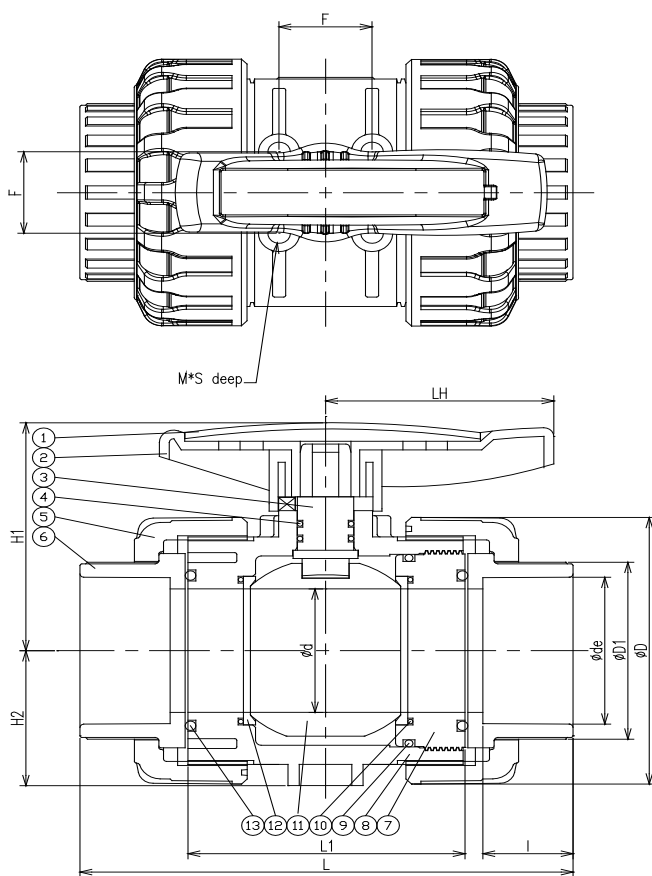


- 工作壓力 Working pressure : 150 PSI / 73°F
- 雙由任設計，容易安裝及維修
Two union design and easy maintenance
- 全流量 Full port design
- 墊座：Teflon seat ; O環：EPDM or FPM
- 中心柱雙O環設計，安全性高
Double O-ring stem seals
- 本體可選配加裝銅柱，以利安裝驅動器
Copper bolt is based on customer's choice for easy automated
- 不建議長期使用於半開狀態
Don't use in a half-open state for the long-term

No	PARTS NAME	Q'TY	MATERIAL
1	HANDLE CAP	1	ABS
2	HANDLE	1	ABS
3	STEM	1	PVC , CPVC
4	O-RING	2	EPDM , FPM
5	NUT	2	PVC , CPVC
6	CONNECTOR	2	PVC , CPVC
7	CARRY	1	PVC , CPVC
8	BODY	1	PVC , CPVC
9	O-RING	1	EPDM , FPM
10	O-RING	2	EPDM , FPM
11	BALL	1	PVC , CPVC
12	SEAT	2	PTFE
13	O-RING	2	EPDM , FPM

Copper bolt data 銅柱寸法	F	M	S
2-1/2" (65mm)	49.5	8	15
3" (80mm)	49.5	8	15
4" (100mm)	72.0	10	20

單位 :mm



SIZE	D	L	美規 插管		歐規 插管		日規 插管		台規 插管		美牙	日牙	平行牙	D1	d	L1	LH	H1	H2
			ANSI socket		DIN socket		JIS socket		CNS socket		NPT	BSPT	BSPF						
			§ de	l	§ de	l	§ de	l	§ de	l	thd./in.	thd./in.	thd./in.						
2-1/2"(65mm)	162	254	73.02	45	75	45	76	45	76	45	8	11	11	92	75	147	118	140	82
3" (80mm)	162	262	88.90	48	90	51	89	51	89	51	8	11	11	108	75	147	118	140	82
4" (100mm)	220	311	114.30	57.5	110	61	114	61	114	61	8	11	11	134	100	177	140	185	111

單位 :mm

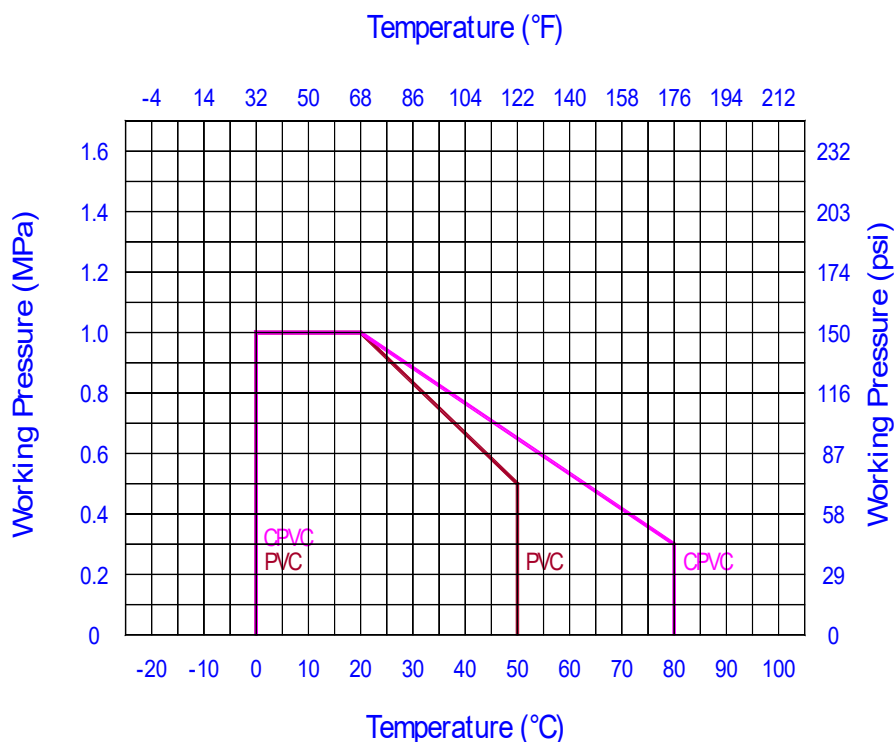
● Technical Information

項次 Item	品 名 Description	尺寸 Size	材質 Material		
			主體 Body	墊座 Seat	O 環 O-ring
(1)	True Union Ball Valve	2-1/2"(DN65)	PVC , CPVC	PTFE	EPDM , FPM
(2)	True Union Ball Valve	3"(DN80)	PVC , CPVC	PTFE	EPDM , FPM
(3)	True Union Ball Valve	4"(DN100)	PVC , CPVC	PTFE	EPDM , FPM

尺寸 Size	壓力測試 Hydrostatic test		墊座耐壓 Seat test	O 環耐壓 O-ring test	扭力	流量係數
	爆破壓力	1000hrs 持壓	閥全閉 valve close	閥全開 valve open		
	burst pressure water(kgf/cm ²) minimum	behavior test water(kgf/cm ²) minimum	no-leakage water(kgf/cm ²) minimum	no-leakage water(kgf/cm ²) minimum	Torque kgf*cm maximum	Cv
2-1/2"(DN65)	31	22	6	6	150	330
3"(DN80)	31	22	6	6	150	480
4"(DN100)	31	22	6	6	250	600

● 溫度與工作壓力關係 Working pressure vs. Temperature

壓損計算公式
Pressure Loss
Calculation Formula
 $\Delta P = (Q / Cv)^2$
 ΔP : Pressure Drop
Q : Flow in GPM
Cv : Flow Coefficient



雙由任球閥 法蘭式

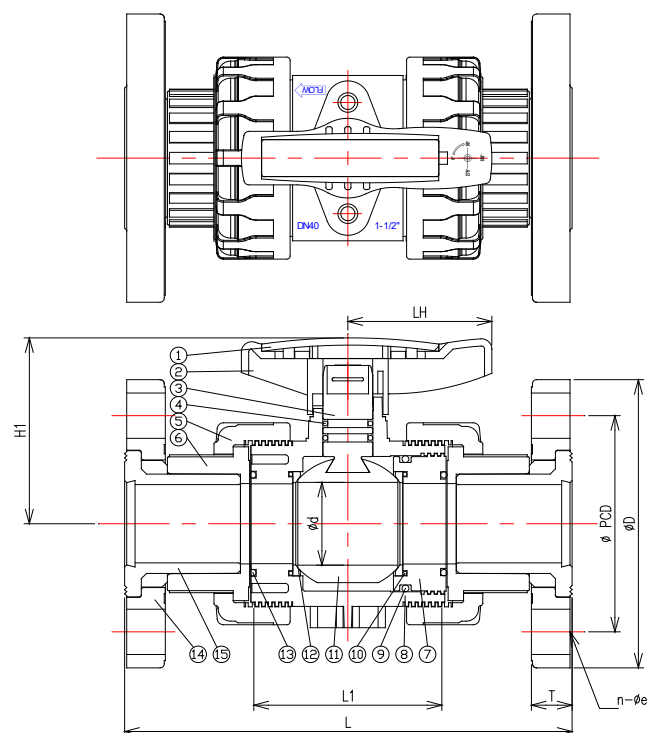
TRUE UNION BALL VALVE FLANGED TYPE

★材質：PVC

★廠牌：SUPERTUNG

★尺寸：1/2"、3/4"、1"、1-1/2"、2"、3"、4"

★規格：美規 ANSI / 日規 JIS / 歐規 DIN



- 工作壓力 Working pressure : 150 PSI / 73°F
- 法蘭孔為通用規格(美/日/歐)連接設計
Universal bolt holes suitable for ASTM, JIS, DIN standard
- 全流量 Full port design
- 墊座: Teflon seat ; O環 : EPDM or FPM O-ring
- 中心柱雙O環設計, 安全性高
Double O-ring stem seals
- 本體可選配加裝銅柱, 以利安裝驅動器
Copper bolt is based on customer's choice for easy automated
- 不建議長期使用於半開狀態
Don't use in a half-open state for the long-term

No	PARTS NAME	Q'TY	MATERIAL
1	HANDLE CAP	1	ABS
2	HANDLE	1	ABS
3	STEM	1	PVC
4	O-RING	2	EPDM , FPM
5	NUT	2	PVC
6	CONNECTOR	2	PVC
7	CARRY	1	PVC
8	BODY	1	PVC
9	O-RING	1	EPDM , FPM
10	O-RING	2	EPDM , FPM
11	BALL	1	PVC
12	SEAT	2	PTFE
13	O-RING	2	EPDM , FPM
14	FLANGE	2	PVC
15	TS-spig	2	PVC

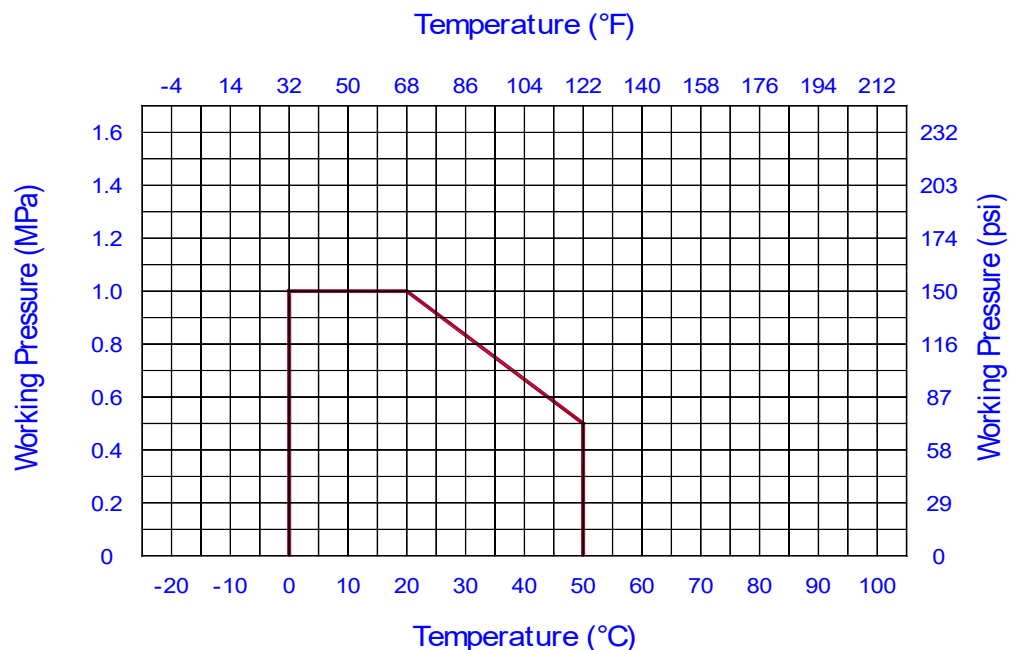
SIZE	D	d	H1	L	L1	LH	ANSI			DIN			JIS			T
							PCD	n	e	PCD	n	e	PCD	n	e	
1/2"(15mm)	95	13	49	145	62	45	61	4	16	65	4	14	70	4	15	13.5
3/4"(20mm)	100	19	60	165	72	52	70	4	16	75	4	14	75	4	15	14.5
1"(25mm)	118	25	69	185	80	58	79	4	16	85	4	14	90	4	19	16.5
1-1/2"(40mm)	140	40	91	214	94	69	98	4	16	110	4	18	105	4	19	19.5
2"(50mm)	158	50	110	251	112	81	121	4	19	125	4	18	120	4	19	21.5
3"(80mm)	192	75	140	316	147	118	152	4	19	160	8	18	150	8	19	26
4"(100mm)	230	100	185	371	177	140	191	8	19	180	8	18	175	8	19	29

● Technical Information

項次 Item	品 名 Description	尺寸 Size	材質 Material		
			主體 Body	墊座 Seat	O 環 O-ring
(1)	True Union Ball Valve - Flanged	1/2"(DN15)	PVC	PTFE	EPDM , FPM
(2)	True Union Ball Valve - Flanged	3/4"(DN20)	PVC	PTFE	EPDM , FPM
(3)	True Union Ball Valve - Flanged	1"(DN25)	PVC	PTFE	EPDM , FPM
(4)	True Union Ball Valve - Flanged	1-1/2"(DN40)	PVC	PTFE	EPDM , FPM
(5)	True Union Ball Valve - Flanged	2"(DN50)	PVC	PTFE	EPDM , FPM
(6)	True Union Ball Valve - Flanged	3"(DN80)	PVC	PTFE	EPDM , FPM
(7)	True Union Ball Valve - Flanged	4"(DN100)	PVC	PTFE	EPDM , FPM

尺寸 Size	壓力測試 Hydrostatic test		墊座耐壓 Seat test	O 環耐壓 O-ring test	扭力 Torque kgf*cm maximum	流量係數 Cv
	爆破壓力 burst pressure water(kgf/cm ²) minimum	1000hrs 持壓 behavior test water(kgf/cm ²) minimum	閥全閉 valve close no-leakage water(kgf/cm ²) minimum	閥全開 valve open no-leakage water(kgf/cm ²) minimum		
1/2"(DN15)	42	22	6	6	25	8
3/4"(DN20)	42	22	6	6	30	15
1"(DN25)	42	22	6	6	35	29
1-1/2"(DN40)	42	22	6	6	75	90
2"(DN50)	42	22	6	6	95	140
3"(DN80)	31	22	6	6	150	480
4"(DN100)	31	22	6	6	250	600

● 溫度與工作壓力關係 Working pressure vs. Temperature



雙由任球閥 TRUE UNION BALL VALVE

★材質：PPH

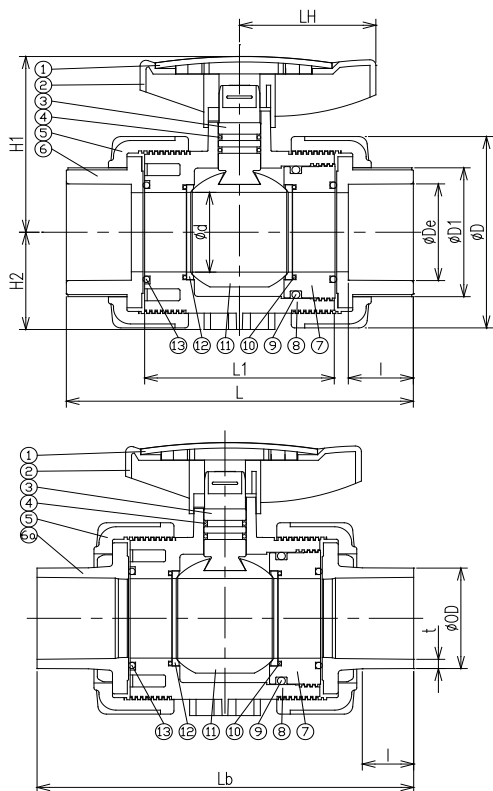
★尺寸：1/2" ~ 2"

★廠牌：SUPERTUNG

★規格：美規 ANSI / 日規 JIS / 台規 CNS / 歐規 DIN



- 工作壓力 Working pressure : 10 bar / 20°C
- 雙由任設計，容易安裝及維修
Two union design and easy maintenance
- 全流量 Full port design
- 墊座：Teflon seat ; O環：EPDM or FPM
- 中心柱雙O環設計，安全性高
Double O-ring stem seals
- 本體可選配加裝銅柱，以利安裝驅動器
Copper bolt is based on customer's choice for easy automated
- 不建議長期使用於半開狀態
Don't use in a half-open state for the long-term



No	PARTS NAME	Q'TY	MATERIAL
1	HANDLE CAP	1	ABS
2	HANDLE	1	ABS
3	STEM	1	PPH
4	O-RING	2	EPDM , FPM
5	NUT	2	PPH
6a	BUTT	2	PPH
6	CONNECTOR	2	PPH
7	CARRY	1	PPH
8	BODY	1	PPH
9	O-RING	1	EPDM , FPM
10	O-RING	2	EPDM , FPM
11	BALL	1	PPH
12	SEAT	2	PTFE
13	O-RING	2	EPDM , FPM

SIZE	D	L	台規 熱融套接		歐規 熱融套接		歐規 PN10 熱融對接		
			CNS socket fusion		DIN socket fusion		DIN PN10 butt fusion		
			§ de	l	§ de	l	§ OD	t	l
1/2"(15mm)	45	114	22	22	20	16	20	1.9	25
3/4"(20mm)	55	132	27*	25	25	18	25	2.3	25
1"(25mm)	66	148	34	29	32	20	32	2.9	25
1-1/4"(32mm)	81	167	42	32	40	22	40	3.7	25
1-1/2"(40mm)	97	171	48	35	50	25	50	4.7	25
2"(50mm)	119	203	60	38	63	29	63	5.8	30

SIZE	美牙	日牙	平行牙	D1	d	LH	L1	H1	H2	Lb
	NPT	BSPT	BSPF							
	thd./in.	thd./in.	thd./in.							
1/2"(15mm)	14	14	14	31	13	45	60	48	23.5	138.5
3/4"(20mm)	14	14	14	37	19	52	72	59	29	153.5
1"(25mm)	11.5	11	11	44	25	58	78	68	35	167
1-1/4"(32mm)	11.5	11	11	54	30	66	87	78	42.5	176
1-1/2"(40mm)	11.5	11	11	66	40	69	92	89	50.5	191
2"(50mm)	11.5	11	11	79	50	81	112	108	61	222

● Technical Information

項次 Item	品名 Description	尺寸 Size	材質 Material		
			主體 Body	墊座 Seat	O 環 O-ring
(1)	True Union Ball Valve	1/2"(DN15)	PPH	PTFE	EPDM , FPM
(2)	True Union Ball Valve	3/4"(DN20)	PPH	PTFE	EPDM , FPM
(3)	True Union Ball Valve	1"(DN25)	PPH	PTFE	EPDM , FPM
(4)	True Union Ball Valve	1-1/4"(DN32)	PPH	PTFE	EPDM , FPM
(5)	True Union Ball Valve	1-1/2"(DN40)	PPH	PTFE	EPDM , FPM
(6)	True Union Ball Valve	2"(DN50)	PPH	PTFE	EPDM , FPM

尺寸 Size	壓力測試 Hydrostatic test		墊座耐壓 Seat test	O 環耐壓 O-ring test	扭力 Torque kgf*cm maximum	流量係數 Cv
	爆破壓力 burst pressure water(kgf/cm ²) minimum	1000hrs 持壓 behavior test water(kgf/cm ²) minimum	閥全閉 valve close no-leakage water(kgf/cm ²) minimum	閥全開 valve open no-leakage water(kgf/cm ²) minimum		
1/2"(DN15)	31	22	6	6	25	8
3/4"(DN20)	31	22	6	6	30	15
1"(DN25)	31	22	6	6	35	29
1-1/4"(DN32)	31	22	6	6	65	75
1-1/2"(DN40)	31	22	6	6	75	90
2"(DN50)	31	22	6	6	95	140

● 溫度與工作壓力關係 Working pressure vs. Temperature

壓損計算公式

Pressure Loss

Calculation Formula

$$\Delta P = (Q / Cv)^2$$

ΔP : Pressure Drop

Q : Flow in GPM

Cv : Flow Coefficient

