

# PRO UNI-D CO., LTD.



- ❑ Electric Actuator
- ❑ Solenoid Valve
- ❑ Butterfly Valve
- ❑ 100% Duty Cycle Electric Actuator
- ❑ Solenoid Valve Explosion-proof Series



CE C-UL 429 SF-216806 IP67 ISO 9001

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# Solenoid Valve Explosion-Proof Series

# Solenoid Valve



Explosion-proof level : EX II 2 G Ex emb IIC T4, T6 Gb

## Product Specification

Models	Pipe Size	Fluid Temp.(°C)	Water	Air	Steam	Light oil	Gas	Vacuum
UD Series	1/8"~1/2"	-5°C ~ +80°C	●	●		●	●	●
US Series	1/8"~4"	-5°C ~ +185°C	●	●	●	●		
UA Series	1/4"~3/8"	-5°C ~ +80°C	●	●				●
UAO Series	1/4"~1/2"	-5°C ~ +80°C	●	●		●		
USS Series	1/2"	-5°C ~ +185°C	●	●	●	●		
UPS Series	1/2"~1"	-5°C ~ +185°C	●	●	●	●		
UW Series	3/8"~4"	-5°C ~ +80°C	●	●		●	●	●
UDC Series	1/4"~1"	-5°C ~ +80°C	●	●				
SUS Series	1/8"~3"	-5°C ~ +80°C	●	●	●	●	●	●
SKS Series	1/2"~1"	-5°C ~ +70°C	●	●				
SKW Series	1/2"~1"	-5°C ~ +70°C	●	●			●	●
PKS Series	1/2"~1"	-5°C ~ +70°C	●	●				
PKW Series	3/8"~2"	-5°C ~ +70°C	●	●			●	●

※ Standard voltage : AC110V, AC220V and DC24V.

※ If you need special voltage(AC24V, AC380V, AC440V), please contact us directly.

※ Material Stainless Steel can be used for UW series.

※ Material of valve : Stainless Steel, Brass, PVC and PTFE.

※ The above fluid types are only for reference.

# Electric Actuator

## Basic type



☞ Failsafe Electric Actuator

☞ Vertical Rotating-pull Type Electric Actuator

### ◎ Product Specification

Models	Power	90° ON/OFF (SEC) (50/60Hz)	Torque(±5%) Kgf-cm AC 110V	Torque(±5%) Kgf-cm AC 220V	No-load current consumption	
					AC110V~120V	AC220V~250V
UMS	3~4W	23	105	105	33mA	30 mA
UM-1	10W	10	350	362	0.6A	0.3A
UM2-1	15W	17	500	450	0.7A	0.3A
UM2-5	15W	11	500	500	1.2A	0.4A
UM2-7	18W	11	700	700	1.1A	0.6A
R-3	10W	10	360	360	0.5A	0.3A
R-5	10W	20	500	500	0.5A	0.3A
R-7	15W	20	700	700	0.7A	0.4A
R-10	15W	20	1000	1000	0.7A	0.5A
R-15	20W	20	1500	1500	1.6A	0.5A
UM-3	25W	8	1486	1562	0.6A	0.6A
UM-3-1	25W	8	1486	1562	0.6A	0.6A
UM-4	25W	30	3118	3320	0.6A	0.6A
UM-5	40W	30	4266	4873	0.9A	0.6A
UM-6	60W	30	5689	6081	1.0A	0.7A
UM-8	100W	37	11038	9296	1.2A	0.6A
UM-10	100W	52	12060	13500	1.2A	0.6A
UM-11	100W	65	15000	14500	1.2A	0.6A
UM-12	100W	143	35000	35000	1.2A	0.6A

※ Optional : Aluminum enclosure / Extra Limit Switch (Dry Contact) / Heater / Modulating / Failsafe

※ Standard voltage : AC110V, AC220V and DC24V.

※ If you need special voltage, please contact us directly.

# 100% Duty Cycle Electric Actuator

Fast type

UM-1

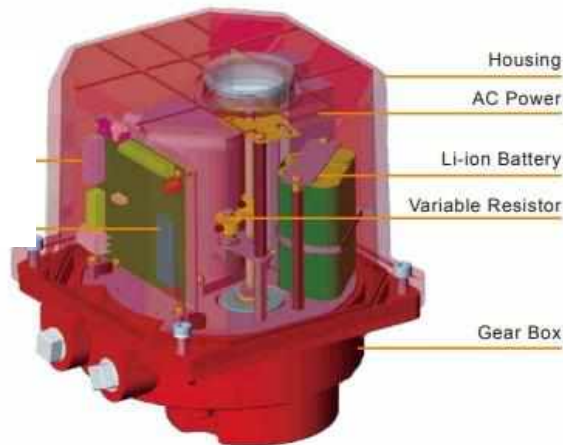


- Operating continuously without overheat
- Ingress protection rating (Waterproof): IP67
- 100% duty cycle
- Energy saving for low power
- Brushless DC motor

MODEL	Torque (N.m)		90°ON/OFF(SEC)	
	DC/AC24V	AC100~240V	DC/AC24V	AC100~240V
UM-1-X	10	10	1	1
	35	35	10	10
UM2-5-X	50	50	11	11

# Product Features

**SMART TYPE**



UM1-N~UM2-7-N



UM3-N



UM3-1-N~UM6-N



UM8-N~UM11-N



UM12-N



## Modular Design

- Plug & Play Kit are easy to add or repair functions.
- AC Power Modular, Failsafe Modular are available.

## Li-ion Battery

(two function optional)

- Failsafe function
- Backup power

## Brushless DC Motor

- High duty cycle performance

## LED Light Indicator

- show the status of the valve

## High Duty Cycle

- 30% for ON/OFF function
- 75% for modulating function

## Multi-Voltage

- AC110V~AC220V, DC24V

## SUPPORT Modbus-ASCII with RS-485 (EIA-485)

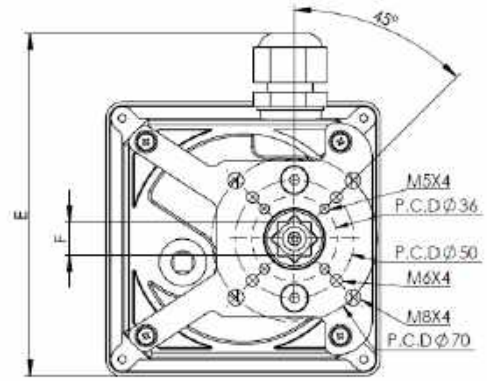
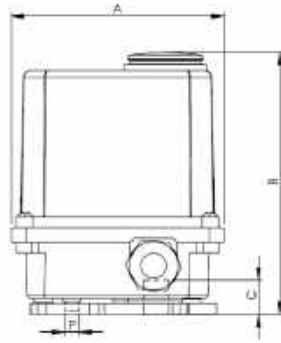
- Supports control of 2 to 30 actuators via Modbus ASCII with RS-485, either in sync or out of sync.
- No need to connect to I/O adopters.
- Designed to avoid electromagnetic interference.

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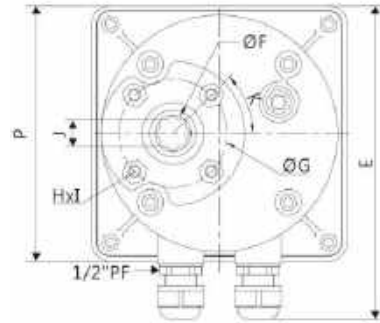
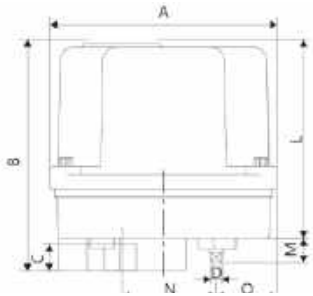
# Specification and outline drawing:

3

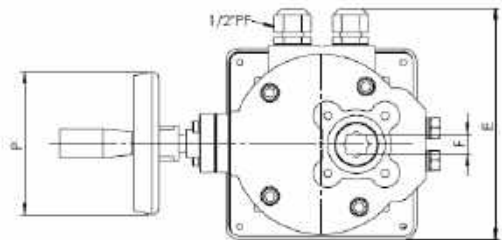
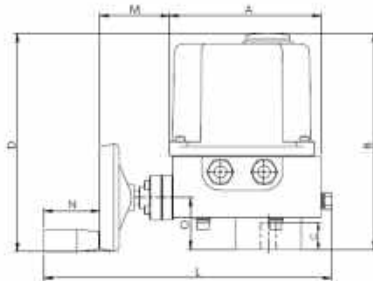
## UM1-N-D~UM2-N-D



## UM3-N-D



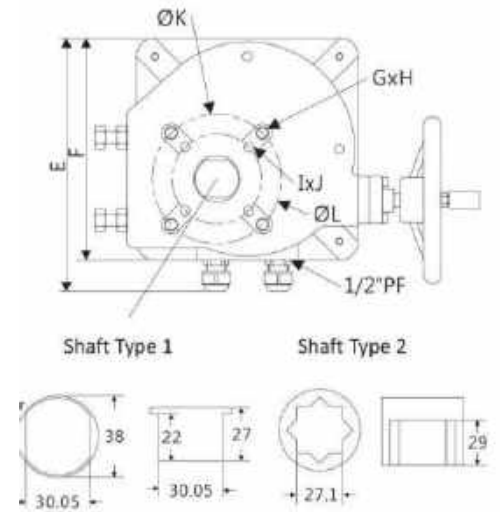
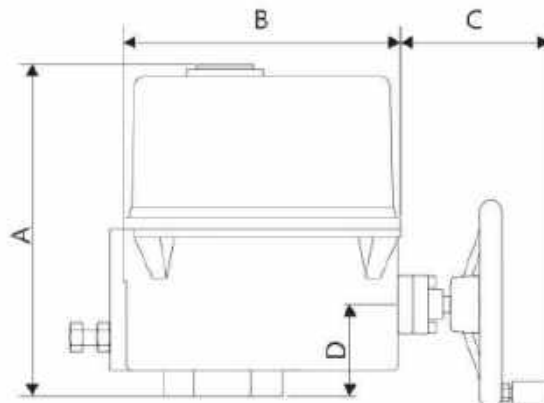
## UM3-1-N-D~UM6N-D



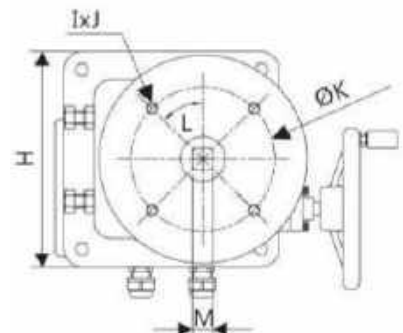
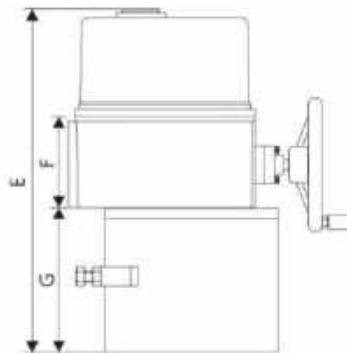
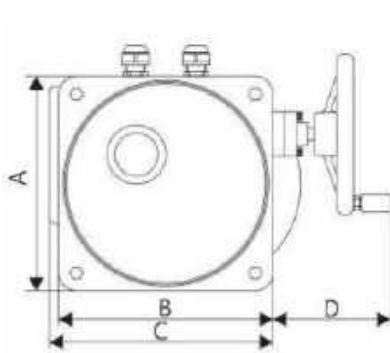
Model	Rated Torque (Nm)	Consumption (W)		0~90° (Sec)	Dimension (mm)										
		AC110V	DC24		A	B	C	D	E	F	L	M	N	O	P
		AC220V	V												
UM1-N-D	6	23	22	3	118	145	19	-	140	14	-	-	-	-	8
	16	13	11	8											
	27			14											
UM2-5-N-D	35	16	15	15	173	276	34	250	203	27	330	85	65	92	123
UM2-7-N-D	50	20	19	17											
UM3-N-D	25	90	80	2	165	172	20	8	203	23.5	148	17.3	68.4	44.2	165
UM3-1-N-D	115	65	60	8	173	244	30	250	203	17	330	85	65	59	123
UM4-N-D	250	45	38	30	173	270	30	250	203	22	330	85	65	85	123
UM5-N-D	365	55	48	33	173	276	34	250	203	27	330	85	65	92	123
UM6-N-D	456	85	82	26											

## Specification and outline drawing:

### UM8-N-D~UM11-N-D



### UM12-N-D

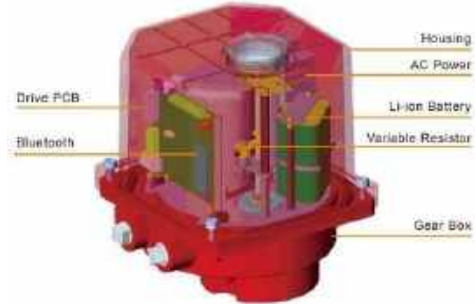


Model	Rated Torque (Nm)	Consumption (W)		0~90° (Sec)	Dimension (mm)												
		AC110V AC220V	DC24V		A	B	C	D	E	F	G	H	I	J	K	L	M
UM8-N-D	825	100	96	32	289	240	132	80	275	240	M16	4	M10	4	102	140	-
UM10-N-D	1013	95	92	43													
UM11-N-D	1125	93	90	50													
UM12-N	2500	100	95	90	240	240	250	132	475	123	194	240	M20	4	165	45°	27.1~36.1

Model	ISO5211 mounting
UM8-N-D	F10/F14
UM10-N-D	F10/F14
UM11-N-D	F10/F14
UM12-N-D	F16

# PRO UNI-D CO., LTD.

## LINEAR Control Valve



### Modular Design

- Plug & Play Kit are easy to add or repair functions:  
AC Power Modular and Failsafe Modular

### Li-ion Battery

(two function optional)

- Failsafe function
- Backup power

### High Duty Cycle

- 30% for ON/OFF function
- 75% for modulating function

### Brushless DC Motor

- High duty cycle performance

### LED Light Indicator

- Easy to know the status of the valve

### Multi-Voltage

- AC110V~AC220V, DC24V

### SUPPORT Modbus-ASCII with RS-485 (EIA-485)

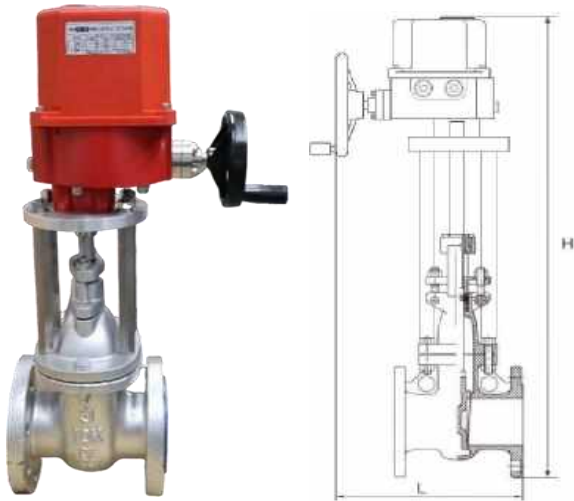
- It's available to control 2~30pcs actuators through Modbus ASCII with RS-485 in sync or out of sync.
- No need to connect to I/O adopters.
- It's able to avoid electromagnetic interference.

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## Specification and Outline Drawing:

### UMB-N (Non-Rising-Stem Gate Valve, Cast Iron)

Item no. UMB-N-NRSGV-CI

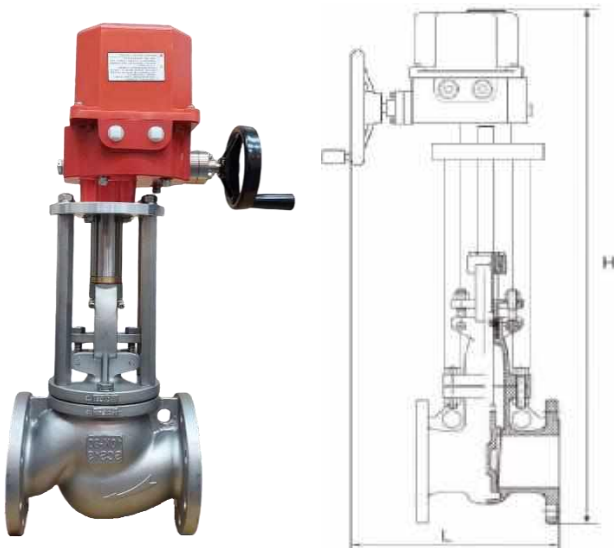


Non-rising-stem gate valve, cast iron						
Size	2"	2-1/2"	3"	4"	5"	6"
L	290	295	300	315	325	335
H	600	620	660	730	820	880

Size 3"			
Voltage	AC110	AC220	DC24
Standby Current (A)	0.07	0.07	0.13
Standby Power (W)	4	4	3
No-Load Operation Current (A)	0.16	0.13	0.6
No-Load Operation Power (W)	17	17	14.4
Travel time: 60sec.			

### UMB-N (Rising-Stem Globe Valve, Stainless Steel 304)

Item no. UMB-N-RSGBV-304



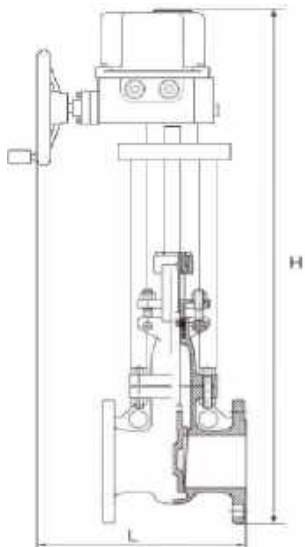
Rising-stem globe valve, stainless steel 304						
Size	2"	2-1/2"	3"	4"	5"	6"
L	305	310	320	330	340	360
H	640	660	700	770	860	920

Size 3"			
Voltage	AC110	AC220	DC24
Standby Current (A)	0.07	0.07	0.13
Standby Power (W)	4	4	3
No-Load Operation Current (A)	0.35	0.21	1.3
No-Load Operation Power (W)	35	35	31.2
Travel time: 30sec.			

## Specification and Outline Drawing:

### UMB-N (Rising-Stem Gate Valve Stainless Steel 304)

Item no. UMB-N-RSGV-304

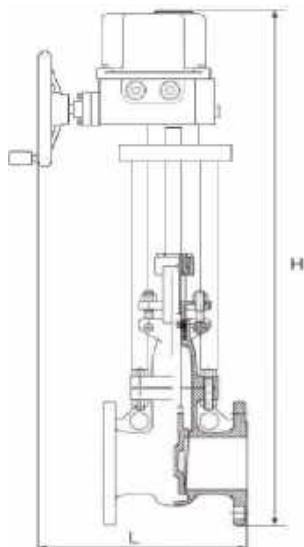


Rising-stem gate valve, stainless steel 304						
Size	2"	2-1/2"	3"	4"	5"	6"
L	290	295	300	315	330	335
H	680	700	800	870	960	1120

Size 3"			
Voltage	AC110	AC220	DC24
Standby Current (A)	0.07	0.07	0.13
Standby Power (W)	4	4	3
No-Load Operation Current (A)	0.22	0.16	0.8
No-Load Operation Power (W)	22	22	19.2
Travel time: 60sec.			

### UMB-N (Rising-Stem Gate Valve Cast Iron)

Item no. UMB-N-RSGV-CI



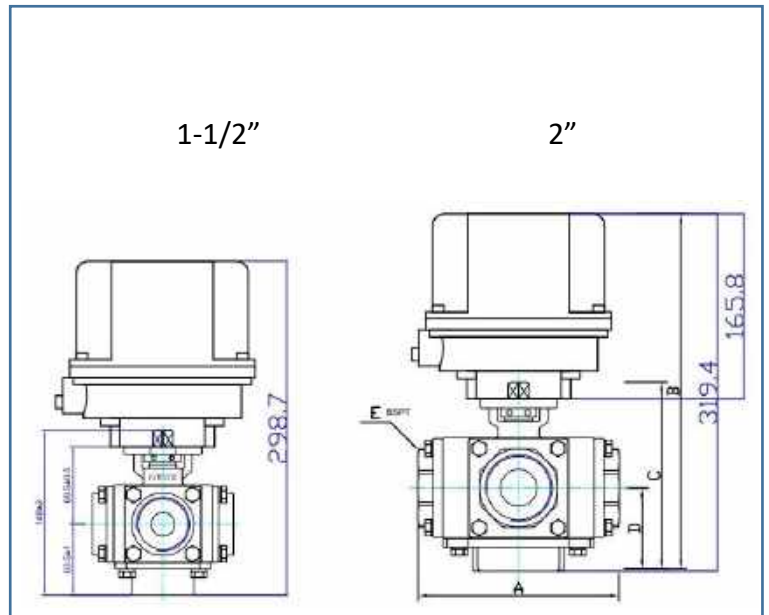
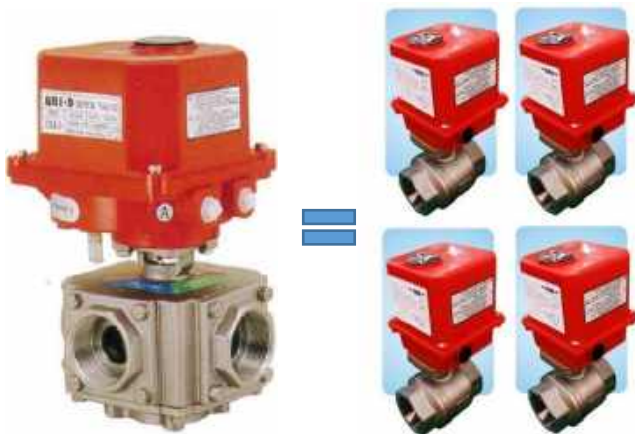
Rising-stem gate valve, cast iron						
Size	2"	2-1/2"	3"	4"	5"	6"
L	290	295	300	315	325	335
H	680	700	790	870	1000	1160

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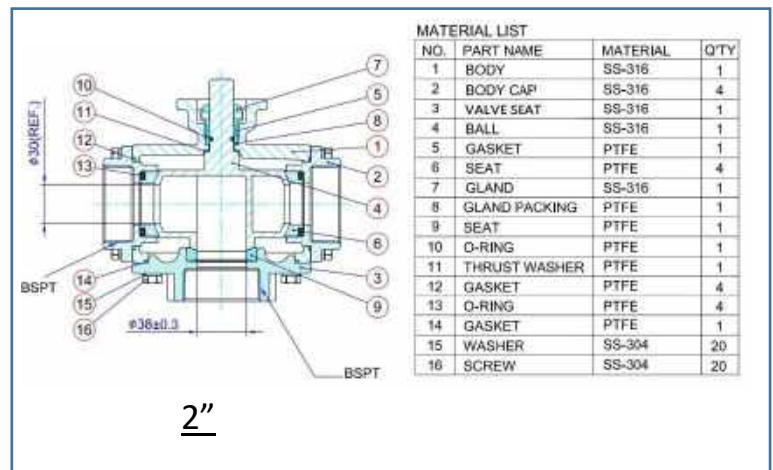
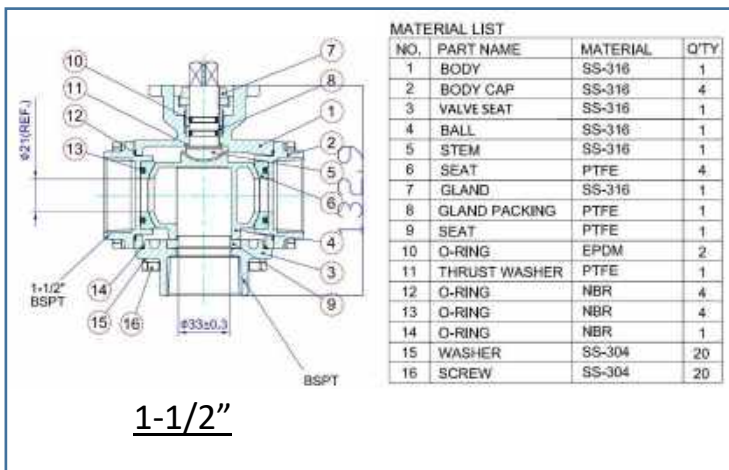
## 5way quarter turn motorized control valve

- Size: 1-1/2"~2" PT thread end;
- Available pressure: 10kgfcm<sup>2</sup>.
- Material: VALVE – SS316 PTFE seat  
Actuator housing-Nylon
- Voltage: AC220V single phase
- Standard function (control box):  
Filtering, Backwashing, Rinsing, Add salt, Sedimentation
- Patent:  
NO.M530974 for PLC control box  
NO.M489225 for packing ring on valve

1set 5way control valve can replace 4set 2way thread end control valve.



NO. / SIZE	A	B	C	D	E (Thread)	Weight (Kg)	Item no.
1-1/2"	126.2	297	148	63	PT	9.86	UM-3-G3-AC220V-25W-5WAY-DN40
2"	181	320	169	74	PT	16.08	UM-3-G3-AC220V-25W-5WAY-DN50

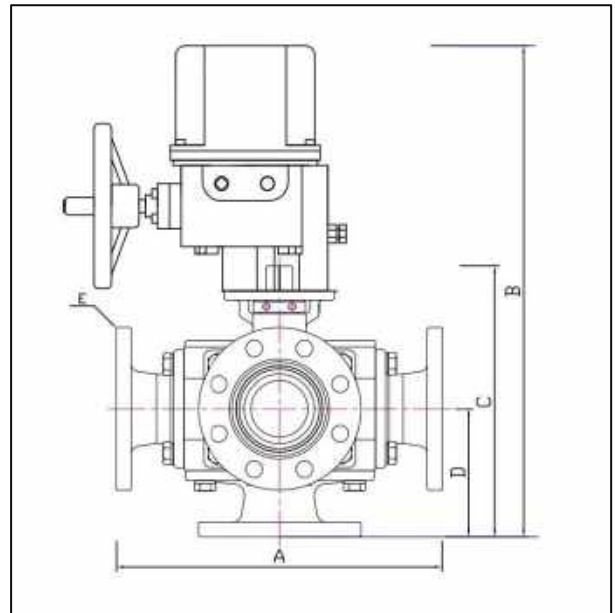
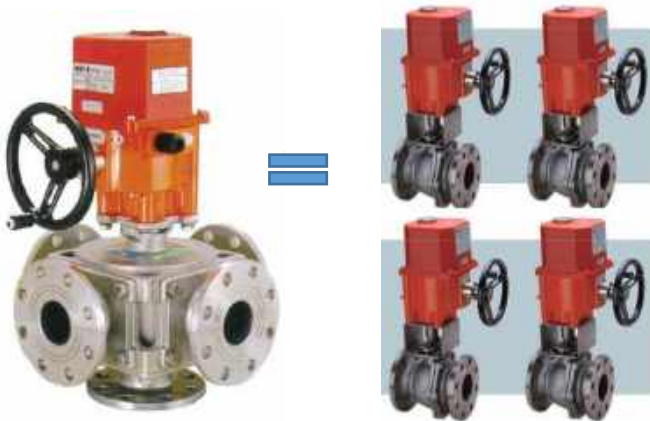


# PRO UNI-D CO., LTD.

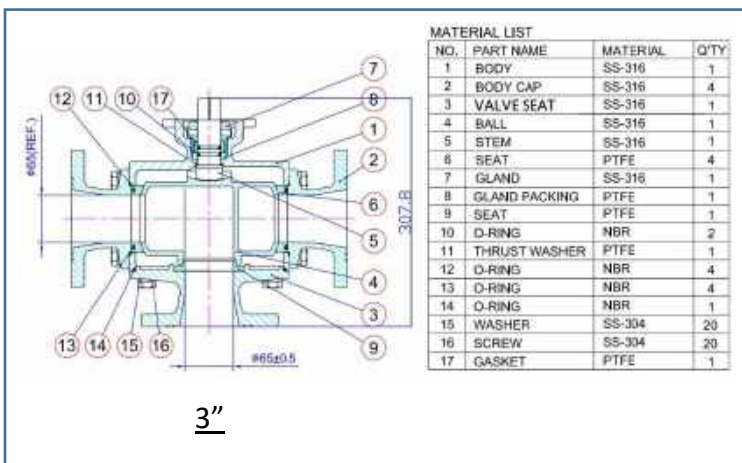
## 5way quarter turn motorized control valve

- Size: 3"~4" JIS10K flange end;
- Available pressure: 10kgfcm<sup>2</sup>.
- Material: VALVE – SS316 PTFE seat  
Actuator housing-Nylon
- Voltage: AC220V single phase
- Standard function (control box):  
Filtering, Backwashing, Rinsing, Add salt, Sedimentation
- Patent:  
NO.M530974 for PLC control box  
NO.M489225 for packing ring on valve

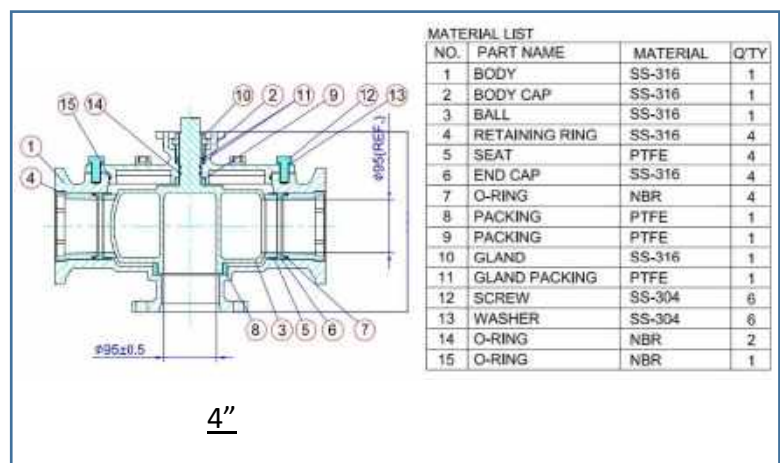
1set 5way control valve can replace 4set 2way flange end control valve.



No. / SIZE	A	B	C	D	E (Flange)	Weight (Kg)	Item no.
3"	371	558	308	145	JIS10K	60.15	UM-6-G3-AC220V-30W-5WAY-DN80
4"	490	673	348	152	JIS10K	102.50	UM-8-G3-AC220V-100W-5WAY-DN100



3"



4"

# PRO UNI-D CO., LTD.

## PNEUMATIC ACTUATOR

### PERFORMANCE

Operating Pressure Range: 40 to 120PSIG.

Maximum allowable Working Pressure: 150PSIG.

Maximum operating pressure: 120PSIG.

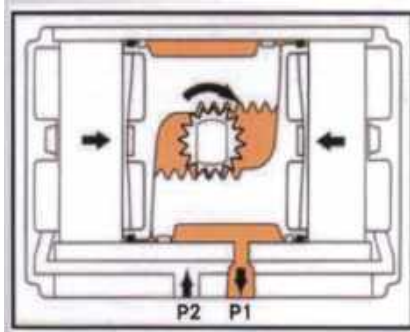
Operating Media: Dry or lubricated non-corrosive gas.

Operating Temperature Standard:  $-40^{\circ}\text{F}\sim+200^{\circ}\text{F}$



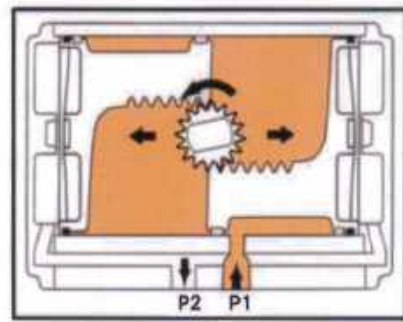
### OPERATION

Double-Acting (Top View A)



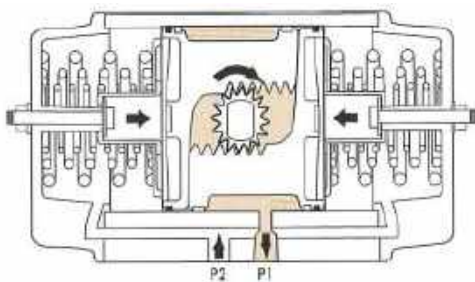
For clockwise output, apply pressure to P2, which force the pistons to move together. The volume between the pistons is exhausted at P1.

Double-Acting (Top View B)



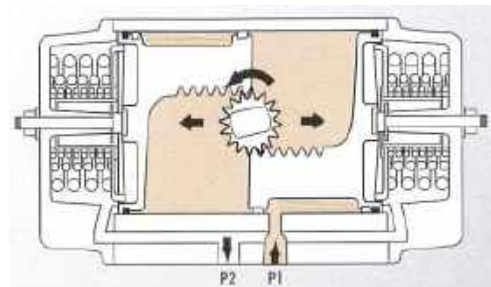
For counterclockwise output, apply pressure to P1, which force the pistons apart. The linear travel of the pistons is converted to a rotation of the drive shaft by the rack to pinion connection. The volume outside each piston is exhausted at P2.

Spring-Acting (Top View A)



For clockwise output, the volume between the pistons is exhausted at P1, causing the springs to force the pistons together. The volume outside the pistons is vented at P2.

Spring-Acting (Top View B)



For counterclockwise output, apply pressure to P1, which force the pistons apart and compress the springs. The linear travel at the pistons is converted to a rotation of the drive shaft by the rack to pinion connection. The volume outside each piston is exhausted at P2.

※ When required Reverse Rotation the pistons can be inverted in the housing resulting in a clockwise rotation when pressure is applied to P1.

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## ※ Single acting - Spring-Return Actuator

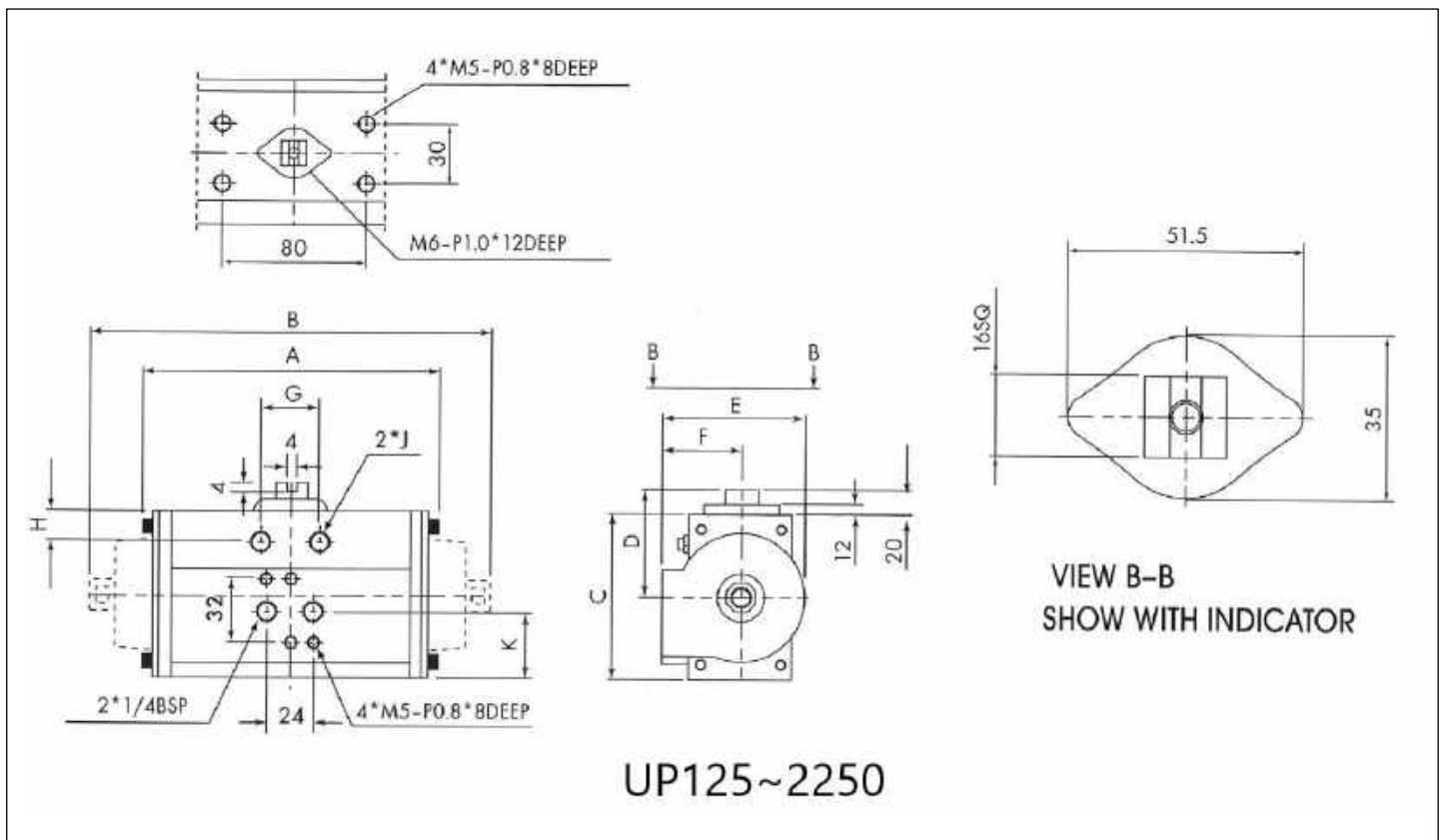
Model no.		Spring Torque		Air Torque Output at Operating Pressure-Psig									
Basic	Spring	Output		40		60		80		100		120	
	Set	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
UP-250	2	69	45	76	47	138	109	201	172	263	234	326	312
	3	104	67			113	70	176	133	229	195	301	258
	4	140	90			88	31	151	93	213	156	276	218
	5	175	112					126	54	189	116	251	179
	6	209	135							164	77	227	139
UP-450	2	126	81	135	83	248	196	361	309	473	421	586	533
	3	190	121			203	125	316	238	428	350	541	463
	4	254	162			158	54	271	167	383	279	496	392
	5	317	202					226	96	339	209	451	321
	6	381	243							293	137	406	251
UP-1000	2	279	179	300	184	549	433	798	682	1048	931	1297	1181
	3	418	270			449	278	698	526	947	775	1196	1025
	4	559	360			350	120	599	371	848	618	1097	867
	5	698	450					500	212	749	464	998	710
	6	839	540							650	304	899	557
UP-2250	2	659	394	690	395	1253	958	1816	1521	2379	2084	2939	2647
	3	990	590			1034	591	1596	1154	2159	1717	2722	2280
	4	1320	787			816	226	1379	788	2029	1351	2505	1914
	5	1650	984					1161	424	1724	984	2287	1549
	6	1980	1181							1506	621	2069	1181
UP-3650	2	1053	607	1152	659	2063	1570	2975	2482	3886	3393	4797	4305
	3	1573	912			1726	996	2637	1907	3549	2819	4460	3730
	4	2091	1217			1388	423	2300	1335	3211	2246	4123	3157
	5	2625	1519					1967	744	2878	1655	3789	2566
	6	3144	1824							2540	1082	3452	1994
UP-5000	2	1560	785	1590	803	2780	1990	3970	3180	5160	4380	6350	5570
	3	2340	1180			2380	1200	3570	2400	4760	3590	5960	4780
	4	3130	1570			1980	414	3180	1600	4370	2800	5560	3990
	5	3910	1960					2780	815	3970	2010	5160	3200
	6	4690	2360							3570	1220	4760	2410
UP-11000	2	3400	1720	3460	1760	6060	4360	8660	6960	11300	9560	13900	12200
	3	5100	2570			5200	2650	7790	5240	10400	7840	13000	10400
	4	6790	3430			4330	932	6930	3530	9520	6130	12100	8730
	5	8490	4290					6060	1810	8660	4410	11300	7010
	6	10200	5150							7790	2700	10400	5300

# PRO UNI-D CO., LTD.

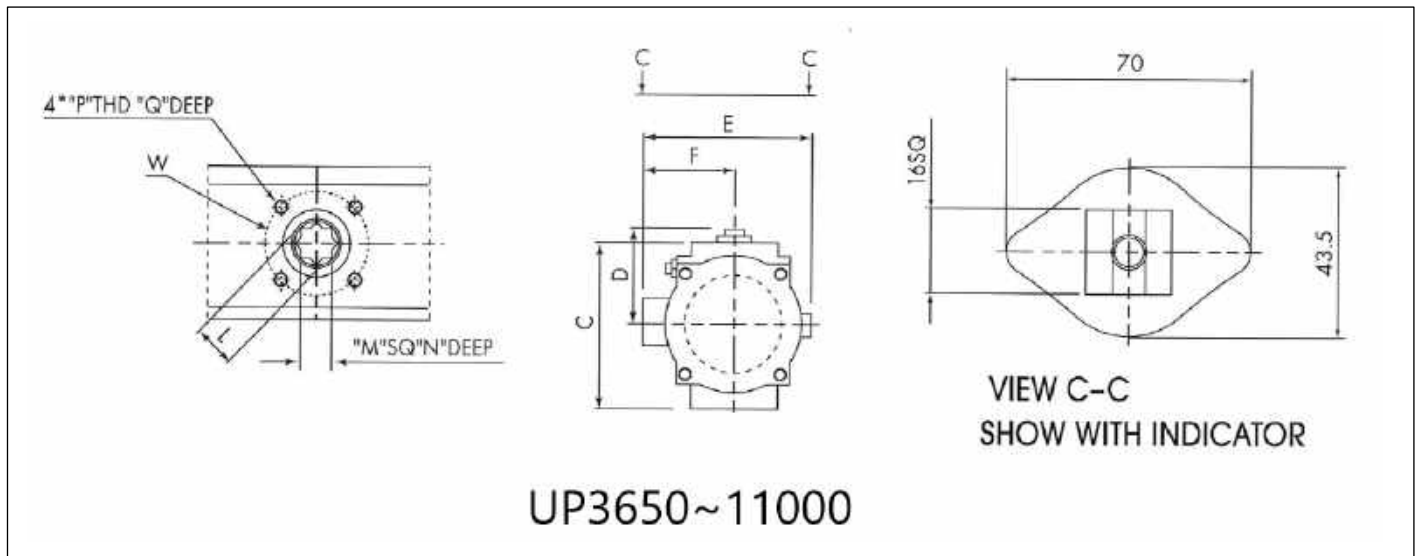
## ※Pneumatic Rack & Pinion Actuators TORQUE RATINGS (IN-Lbs)

### Double-Acting Actuators

Model	Air Torque Output at Operating Pressure - Psig				
	40	60	80	100	120
UP-125	63	94	125	156	188
UP-250	125	187	250	312	375
UP-450	225	337	450	562	675
UP-1000	500	750	1000	1250	1500
UP-2250	1125	1687	2250	2812	3375
UP-3650	1825	2738	3650	4563	5475
UP-5000	2500	3750	5000	6250	7500
UP-11000	5500	8250	11000	13750	16500



# PRO UNI-D CO., LTD.



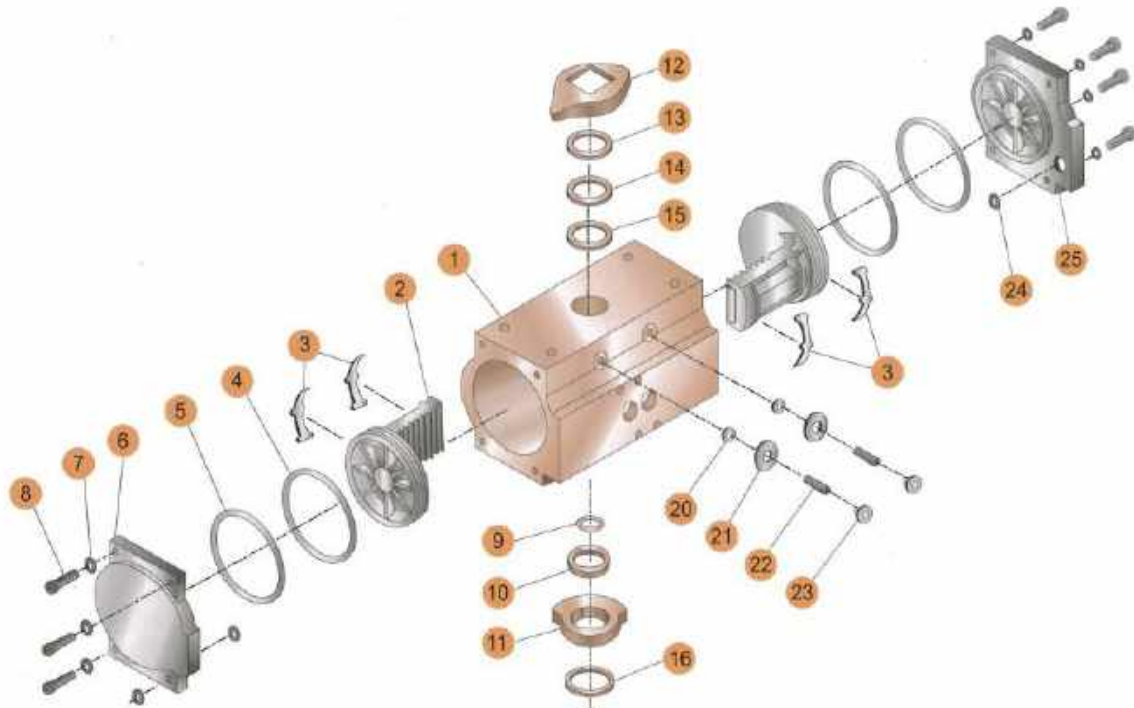
## DIMENSIONS

Model	ISO PATTERN	A	B	C	D	E	F	G	H	J
UP-125	F04	120	--	64	52.5	62.2	33.7	24	11	M*P0.8
UP-250	F04 or F05	144.3	194.6	79	57.7	81.4	47.8	32.5	12.6	M5*P0.8
UP-450	F05 or F07	149.2	205.6	98	67.4	95	51.5	32.5	13.8	M6*P1.0
UP-1000	F05 or F07	183.0	250.6	121.0	79.2	119.0	64.5	46.2	16.6	M8*P1.25
UP-2250	F07 or F10	277.5	364.0	141.0	89.5	140.5	75.5	54.0	18.6	M10*P1.5
UP-3650	F10 or F12	304.3	422.0	176.0	99.1	185.2	105.5	79.7	27.3	M12*P1.75
UP-5000	F10 or F12	364.4	487.0	196.0	116.5	204.8	107.8	79.4	28.3	M12*P1.75
UP-11000	F14	490.0	642.0	243.7	138.5	238.2	125.0	95.3	35.8	M16*P2.0

	K	L	M	N	P	Q	W
UP-125	23.5	12.5	9.0	10.0	M5-P0.8	8.0	42.0
UP-250	29.7	14.5	11.0	17.0	M5*P0.8/M6*P1.0	8.0 or 100	42.0 or 50.0
UP-450	30.2	18.8	14.0	21.0	M6*P1.0/M8*P1.25	10.0/12.0	50.0/70.0
UP-1000	33.5	23.0	17.0	25.5	M6*P1.0/M8*P1.25	10.0/12.0	50.0/70.0
UP-2250	39.0	29.5	22.0	31.0	M8*P1.25/M10*P1.5	12.0/15.0	70.0/102.0
UP-3650	97.4	35.5	27.0	35.0	M10*P1.5/M12*P1.75	15.0/19.0	102.0/125.0
UP-5000	99.0	35.5	27.0	35.0	M10*P1.5/M12*P1.75	15.0/19.0	102.0/125.0
UP-11000	124.7	47.5	36.0	45.0	M16*P2.0	24.0	140.0

# PRO UNI-D CO., LTD.

## DESIGN and CONSTRUCTION



1. Body: Body: Extruded aluminum alloy
2. PISTONS: Die cast aluminum alloy
3. BEARING: Nylon
4. O-RING: Buna-N
5. O-RING: Buna-N
6. END CAP(L): Die cast aluminum alloy
7. WASHER: Stainless steel
8. CAP SCREW: Stainless steel
9. O-RING: Buna-N
10. BEARING: Nylon
11. STOP CAM: Stainless steel
12. PISTON INDICATOR: Polyethylene
13. RETAINING RING: Stainless steel

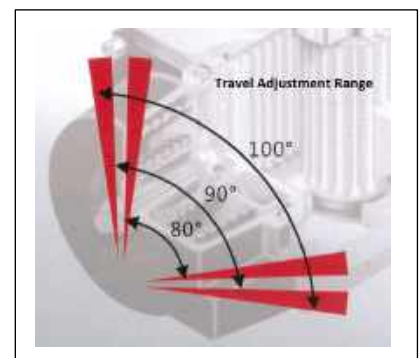
14. WASHER: Stainless steel
15. BEARING: Nylon
16. RETAINING RING: Stainless steel
17. PINION: Carbon steel (Electroplate nickel)
18. BEARING: Nylon
19. O-RING: Buna-N
20. O-RING: Buna-N
21. WASHER: Stainless steel
22. STOP SCREW: Stainless steel
23. NUT: Stainless steel
24. O-RING: Buna-N
25. END CAP(R): Die cast aluminum alloy

## BI-DIRECTIONAL TRAVEL STOP ILLUSTRATION

Our pneumatic actuators feature bi-directional pinion travel stops. Side located stops allow a full  $\pm 5\%$  of valve travel adjustment, giving a guaranteed range of adjustment between  $80^\circ$  and  $100^\circ$  of actuator travel. These travel stops are designed to absorb the maximum rated torque of the actuator and the maximum impact loads associated with recommended stroke speed.

### Standard Assembly

Adjustment of the counterclockwise and clockwise rotation limits are accomplished by turning the respective left and right stop adjustment screws to reduce or increase output rotation.

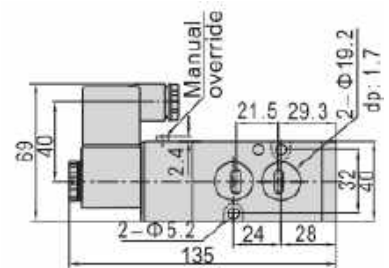
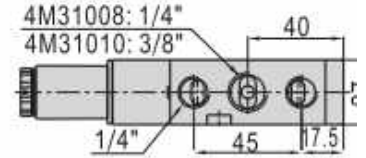


# PRO UNI-D CO., LTD.

## Solenoid valve (5/2way)

### Specification

Model	4M310008 / 4M31010
Fluid	Air (to be filtered by 40 $\mu$ m filter element)
Acting	Internal piloted
Port size	1/4" / 3/8", PT, PF (G), NPT available
Orifice size	25 mm <sup>2</sup> (cv=1.40) / 30mm <sup>2</sup> (cv=1.67)
Valve type	5 port 2 position
Operating pressure	0.1-0.8MPa (21-114psi)
Proof pressure	1.5MPa (215psi)
Temperature $^{\circ}$ C	-20~+70
Material of body	Aluminum alloy
Lubrication	Not required
Max. frequency	4cycle/sec (no-load state)
Weight	310g



### Coil specification

Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V
Scope of voltage	AC: $\pm$ 15% DC: $\pm$ 10%
Power consumption	AC: 3.5VA DC: 3.0W
Protection	IP65(DIN40050)
Temperature classification	B Class
Electrical entry	Terminal, Grommet
Activating time	0.05 sec and below



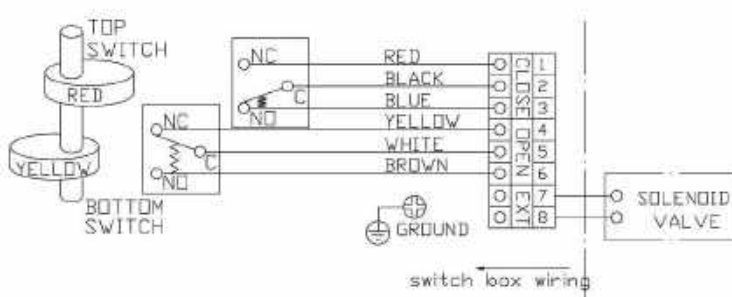
### Product feature

1. Internally piloted structure.
2. Structure in sliding column mode: good tightness and sensitive reaction.
3. Double control solenoid valves have memory function.
4. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
5. No need to add oil for lubrication.
6. Install in the side plate with the surface upward, which can be used by directly connecting with the actuators.
7. Affiliated manual devices are equipped to facilitate installation and debugging.
8. Several standard voltage grades are optional.

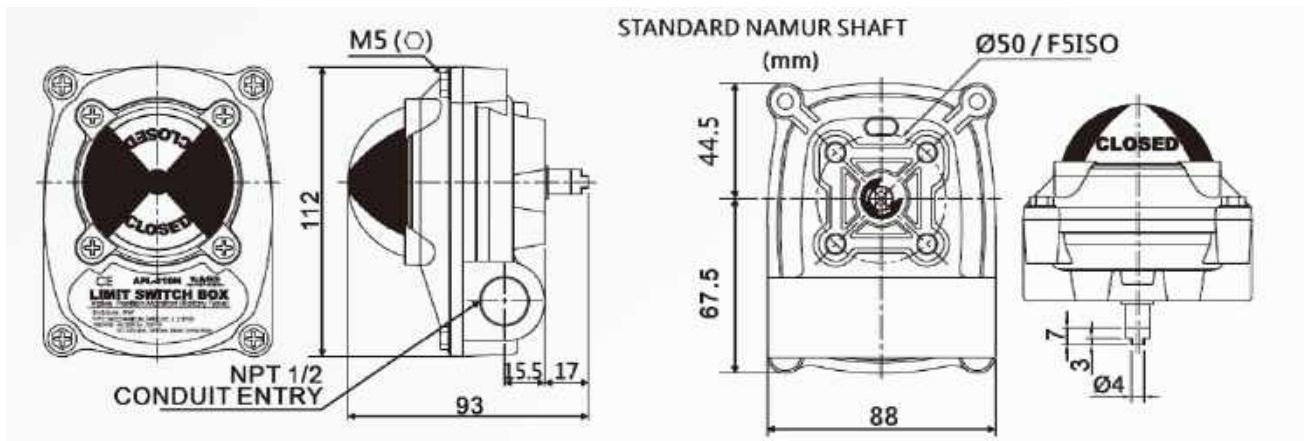
# PRO UNI-D CO., LTD.

## Position indicator for Pneumatic actuator

Enclosure	Waterproof IP67
Temperature	-20°C to 80°C
Conduit Entries	NPT 1/2
Terminal Strips	8 points (.08-2.5mm <sup>2</sup> )
Position Indicator	Closed: Red, Open: Yellow
Switches	Mechanical switch x 2 SPDT
External Coating	Polyester powder coating (black)
Shaft	ISO Standard (17mm long)
Housing	Powder coated die cast aluminum
Cam	Quick Set spring loaded splined cam (no need to adjust again after initial setting, set without tools)
Mounting Interface	Namur
Max Current	5 A/AC125V, 3A/250V, 5A/DC8V & 14V, 4A/DC30V, 0.4A/DC125V, 0.2A/DC250V
Mounting Bracket	Standard Bracket included to suit 80mm x 30mm Mounting with 30mm height (the bracket can be adjusted).



Wiring Diagram



# Butterfly Valve 蝶閥



Parts	Butterfly Valve With Gear Operator	Butterfly Valve With Lever
Body	Stainless Steel 304.316 / Ductile Iron (FCD45)	
Disc	Stainless Steel 304.316 / Ductile Iron With Nickel-Plated (N.P)	
Seat	EPDM, NBR, PTFE, VITON	
Stem	Stainless Steel 304.416 / S45C Carbon Steel	
Gear Box	Aluminum Alloy / Cast Iron / Stainless Steel 304	None
Handwheel / Lever (handle)	Stainless Steel 304 / Steel Punching / Aluminum Alloy / Cast Iron	
Pressure (Kgf-cm <sup>2</sup> )	10 kgf-cm <sup>2</sup>	
Applicable Medium	Water / Sewage / Oil / Air...	
Temperature	-10°C ~ +110°C (depends on seat)	

## **Product Feature:**

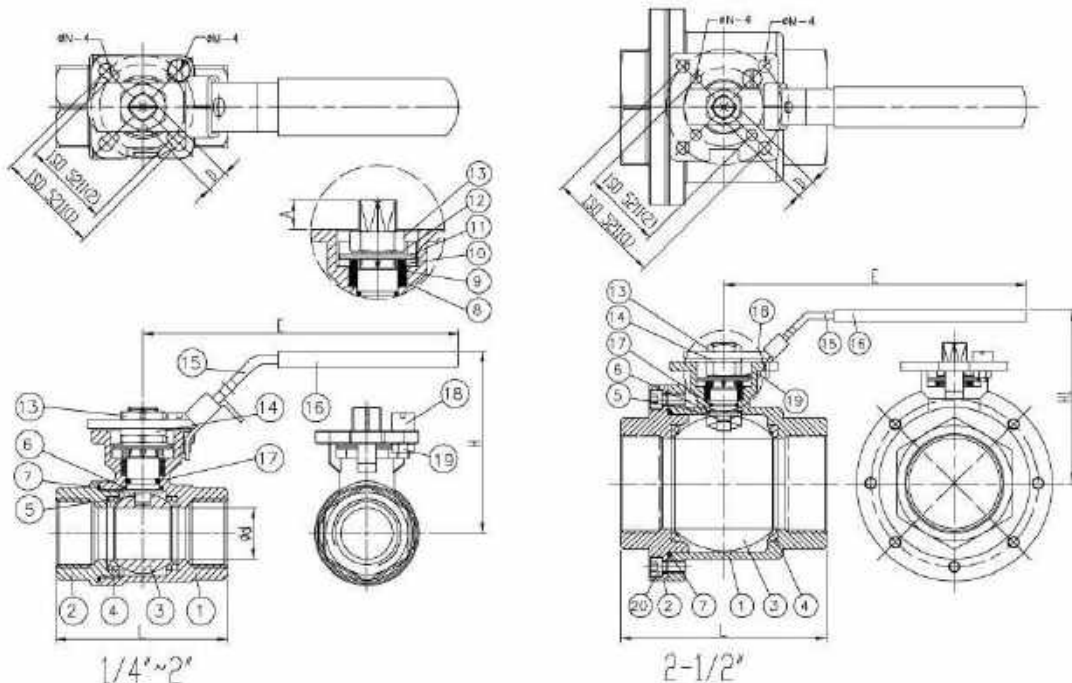
- ※ Clear scale that easy to recognize the angle, each scale is about 10 degree.
- ※ The handle and scale plate designed as streamline that make water hard to be kept on handle and not easy rust.
- ※ Small torques design, easy to operate.
- ※ Epoxy coating that resist corrosion.
- ※ FCD body is standard.
- ※ Universal connecting face that available for PN16, PN10, JIS10K, and ANSI150LB (excluded double flange type.)

# PRO UNI-D CO., LTD.

## 2-PC BALL VALVE (FULL BORE)

### General Ball valve (1000PSI)

ISO5211 Direct-Mounting  
 Bore : Full bore  
 Size Range : 1/4"~3"(DN8-DN80)  
 Temperature Range : -20 to 180°C  
 Working Pressure : 1/4"~2"(DN8~DN50)1000PSI  
                           2 1/2"~3"(DN65-DN80)800PSI  
 Seat : PTFE  
 Stem : Explosion-proof design  
 Handle : Locking device design  
 End Connections : ANSIB1.20.1(NPT)DIN 259/DIN  
 2999/ISO228/BSP/PT



#### DIMENSIONS

UNIT:MM

SIZE	ød	L	E	H	D	A	ISO 5211 (1)	ISO 5211 (2)	øM	øN
1/4"	11	59.5	131	67	9	8.1	F04 42	F03 36	6	6
3/8"	12.5	59.5	131	67	9	8.1	F04 42	F03 36	6	6
1/2"	15	59.5	131	67	9	8.1	F04 42	F03 36	6	6
3/4"	20	67.2	131	72	9	9	F04 42	F03 36	6	6
1"	25	83.2	184	90	11	11.5	F05 50	F04 42	7	6
1 1/4"	32	96.5	184	95	11	11.5	F05 50	F04 42	7	6
1 1/2"	38	107	192	109	14	15	F07 70	F05 50	9	7
2"	50	130	192	117	14	15	F07 70	F05 50	9	7
2 1/2"	65	164.2	268	143	17	17	F102 102	F07 70	11	9

#### MATERIAL LIST

N0	PART NAME	MATERIAL	QTY
1	BODY	ASTM A216 WCB/A351 CF8M	1
2	CAP	ASTM A216 WCB/A351 CF8M	1
3	BALL	ASTM A351 Gr CF8M	1
4	BALL SEATS	PTFE	1 SETS
5	STEM	S.S.316	1
6	THRUST WASHER	PTFE	1
7	END SEALS	PTFE	1
8	STEM PACKING	PTFE	1 SETS
9	THRUST WASHER	TFM1600	1
10	GLAND BUSH	S.S.304	1
11	BELLEVILLE WASHER	SUS304-CSP	2
12	STOP	S.S.304	1
13	HANDLE NUT	S.S.304	2
14	WASHER	S.S.304	1
15	HANDLE	S.S.304	1
16	HANDLE SLEEVE	VINYL GRIP	1
17	O-RING	VITON	1
18	STOPPER	S.S.304	1
19	NUT	A2-70	1
20	BOLT	A2-70	8

# PRO UNI-D CO., LTD.

## TWO-PIECE BALL VALVE JIS 10K FLANGE END Two-Piece Ball Valve JIS 10K Flange End

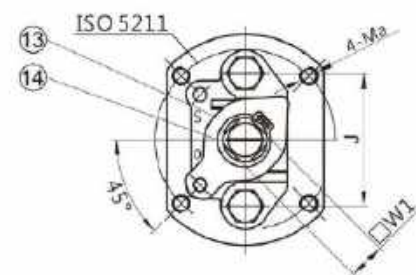
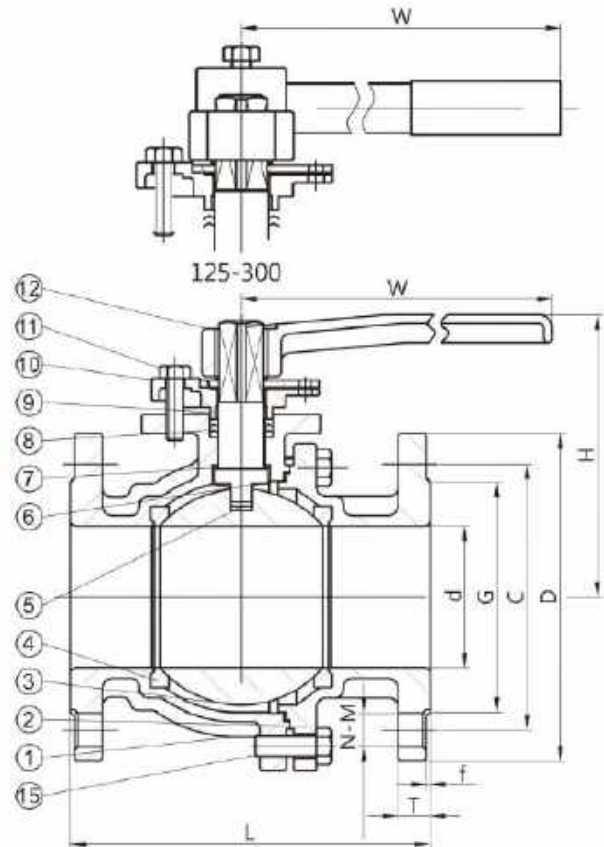
TC221 CAST IRON/A126Gr-FC20  
TC222 CARBON STEEL WCB  
TC223 STAINLESS STEEL 304/SCS13  
TC224 STAINLESS STEEL 316/SCS14

### FEATURES :

- FACE TO FACE DIMENSIONS: JIS B2002
- END FLANGE DIMENSIONS: JIS B2239
- DESIGN : ANSI B16.34
- TEST : JIS B2203
- WITH ISO 5211 MOUNTING PAD
- INVESTMENT CASTING BODY
- BLOW-OUT PROOF STEM / FULL PORT
- LEVER OPERATED OR GEAR OPERATED
- MATERIAL : CAST IRON / FC20  
CARBON STEEL/SCPH2/WCB  
STAINLESS STEEL/ 304/SCS13  
STAINLESS STEEL/ 316/SCS14

### MATERIALS LIST:

NO.	PART NAME	MATERIAL
1	BODY	FC20 WCB SCS13 SCS14
2	CAP	FC20 WCB SCS13 SCS14
3	BALL	SCS13 SCS13 SCS13 SCS14
4	SEAT	PTFE
5	STEM	SUS304 SUS304 SUS304 SUS316
6	GASKET	PTFE
7	THRUST WASHER	PTFE
8	PACKING	PTFE
9	STEM PACKING	PTFE
10	GLAND	SS41 SCS13
11	GLAND BOLT	S41C CARBONSTEEL SUS304
12	HANDLE	WCB
13	STOPPER	SUS304
14	SNAP RING	SUS304
15	BOLT	S41C CARBONSTEEL SUS304



### DIMENSIONS:

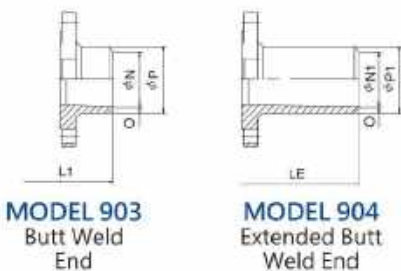
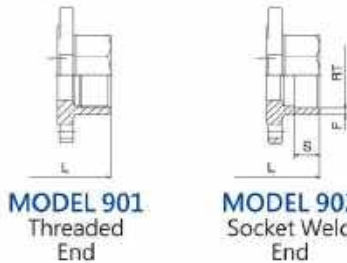
SIZE	d	D	C	G	f	T		N-M	L	H	W	W1	J	ISO 5211	E	Ma
						FC	SUS									
15	15	95	70	51	1	13	12	4-15	110	70	160	12	50	F04	42	M5
20	20	100	75	56	1	15	14	4-15	120	73	160	12	50	F04	42	M5
25	25	125	90	67	1	15	14	4-19	130	77	160	12	50	F05	50	M6
32	32	135	100	76	2	17	16	4-19	140	85	160	12	50	F05	50	M6
40	40	140	105	81	2	17	16	4-19	165	104	186	17	62	F07	70	M8
50	50	155	120	96	2	17	16	4-19	180	114	186	17	62	F07	70	M8
65	65	175	140	116	2	20	18	4-19	190	142	324	21	75	F07	70	M8
80	80	185	150	126	2	21	18	8-19	200	153	324	21	75	F10	102	M10
100	100	210	175	151	2	21	18	8-19	230	166	324	21	75	F10	102	M10
125	125	250	210	182	2	24	20	8-23	300	224	750	24	89	F12	125	M12
150	150	280	240	212	2	26	22	8-23	340	247	750	24	89	F12	125	M12
200	200	330	290	262	2	26	22	12-23	450	305	1000	32	100	F12	125	M12
250	250	400	355	324	2	28	24	12-25	530	327	1000	32	100	F14	140	M16
300	300	445	400	368	3	30	24	16-25	610	355	1000	32	100	F14	140	M16

### TEST PRESSURE:

SHELL(BY WATER)	2.1MPa
	21.5kg/cm <sup>2</sup>
SEAT	BY WATER 1.6MPa
	16.5kg/cm <sup>2</sup>
BY AIR	0.6MPa
	6kg/cm <sup>2</sup>

# PRO UNI-D CO., LTD.

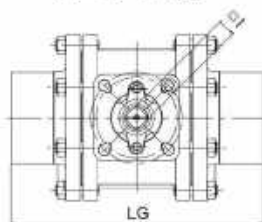
## Ball Valve/ Threaded ends/ 3-PC 2 SERIES90



### ■ DIMENSIONS (mm)

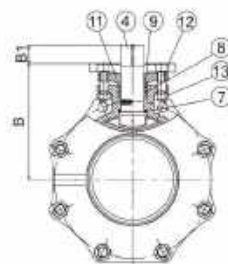
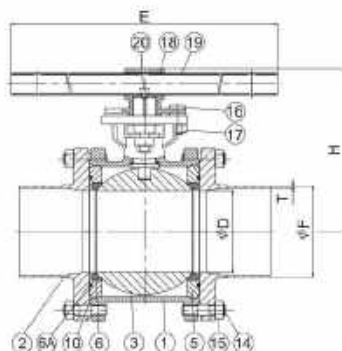
SIZE	B1	B2	φD	F	φM	φM1	□I	L	L1	LE	φN	φN1	O	φP	φP1	RT	S	ISO5211
1/4"	40.2	9	11.6	3.6	5.5	5.5	9	60	70	N/A	11.6	N/A	1	18	N/A	14.2	11	F03 F04
3/8"	40.2	9	12.5	2	5.5	5.5	9	60	70	N/A	14	N/A	1	18	N/A	17.7	11	F03 F04
1/2"	40.2	9	15	2	5.5	5.5	9	69	69	225	17	15.6	1	22.7	21	21.9	12	F03 F04
3/4"	43.4	9	20	2.6	5.5	5.5	9	78	78	225	22.5	20.7	1	27.7	26.8	27.2	14	F03 F04
1"	52	14	25	3.2	5.5	6.5	11	84	84	244	26	25.8	1	33.5	34.4	33.9	14	F04 F05
1 1/4"	56.5	14	32	5.35	5.5	6.5	11	104	104	253	35	33.3	1	42.2	43.4	42.7	15	F04 F05
1 1/2"	65.7	15.5	38	5.7	6.5	8.5	14	118	119	258	41.5	40.5	1	48.8	49.8	48.8	17	F05 F07
2"	73.95	15.5	50	6.1	6.5	8.5	14	129	131	275	3	51.5	1	61	61	61.3	19	F05 F07
2 1/2"	93	16	65	7.15	9	11	17	185	190	332	69.4	65	1	78	77	74	21	F07 F10
3"	102	16.5	80	7.6	9	11	17	205	220	354	82	81	1	90.7	91	90	25	F07 F10
4"	132	21.5	100	7.85	N/A	11	22	230	269	360	103	101	1	115.8	115	115.6	30	F10

### MODEL 903 5"~6" PN16



### ■ DIMENSIONS (mm)

SIZE	B	B1	φD	E	H	□I	L	φN	φP	T	ISO5211
5" 125A	178.5	27	125	600	250	27	63	126.6	139.8	1.6	F12 F14
6" 150A	196	27	150	800	267.5	27	63	151	165.5	1.6	F12 F14



### ■ MATERIALS LIST 5"~6" (MODEL 903 ONLY)

NO.	PART NAME	Q'TY	MATERIAL
1	BODY	1	CF8M
2	END CAP	2	CF3M
3	BALL	1	SUS316
4	STEM	1	630(H1150)
5	JOINT GASKET	2	SUS316
6	SEAT	2	TFM1600
6A	SEAT	2	PTFE
7	STEM SEAL	1	R.PTFE
8	V-RING PACKING	1 SET	PTFE
9	BUSHING	1	50%S.S.Powder filled PTFE
10	PACKING	2	PTFE
11	GLAND	1	CF8
12	GLAND BOLT	2	SUS304
13	GLAND NUT	2	SUS304
14	BOLT	16	SUS304
15	NUT	16	SUS304
16	STOP PIN	1	SUS304
17	STOP PIN NUT	1	SUS304
18	HANDLE ADAPTOR	1	CF8
19	PIPE HANDLE	1	SUS304
20	HANDLE BOLT	1	SUS304

# PRO UNI-D CO., LTD.

## 3WAY DIRECT-MOUNTING BALL VALVE

### Multi-Port Ball Valve (Cavity Filled)

ISO5211 Direct-Mounting

Port : L / T

Bore : Regular bore

Size Range : 1/4" ~ 2" (DN8 ~ DN50)

Temperature Range : -20 to 180°C

Working Pressure : 1000PSI

Seat : PTFE / TFM1600

Stem : Explosion-proof design

Handle : Locking device design

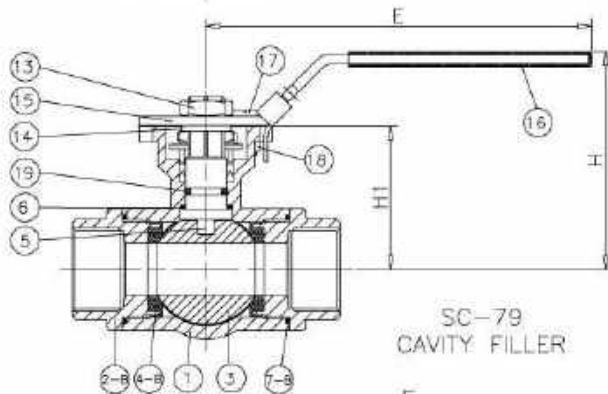
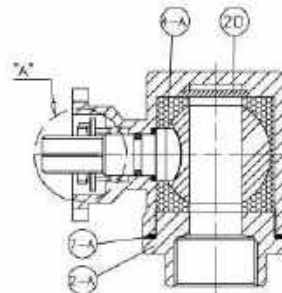
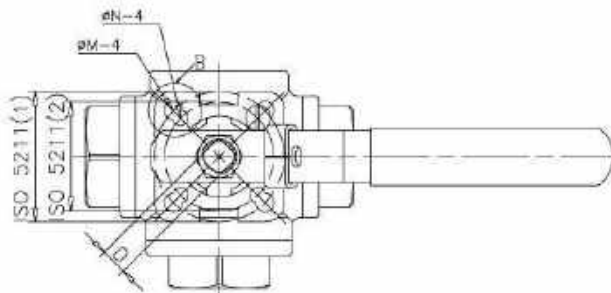
End Connections : ANSI B1.20.1(NPT)/DIN 259/  
DIN 2999/ISO 228/BSP/PT



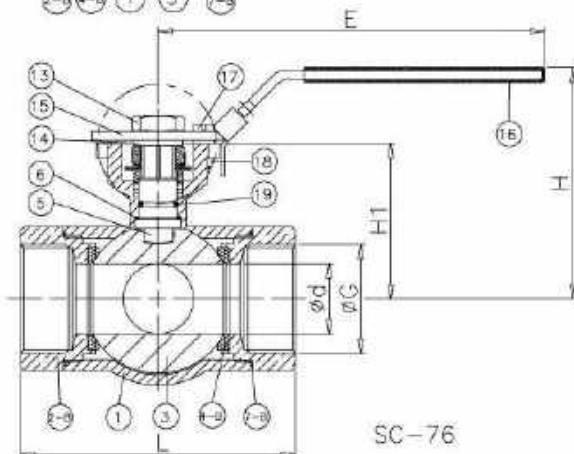
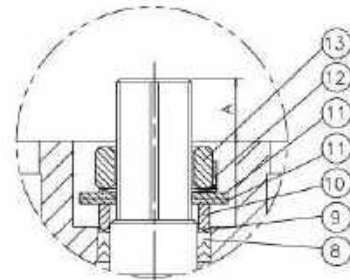
B (2:1)



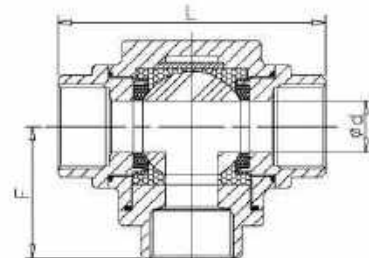
B (2:1)



SC-79  
CAVITY FILLER



SC-76



1 1/2" ~ 2" 1/4" ~ 1 1/4"

PORT TYPE	1	2	3	4
T				
L				

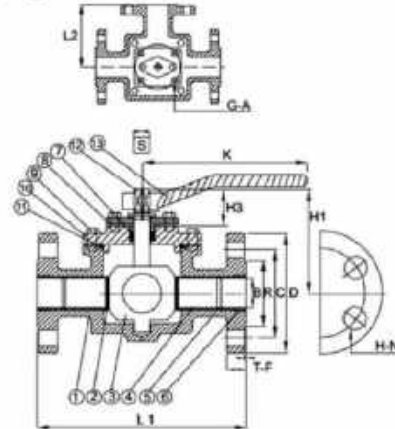
# PRO UNI-D CO., LTD.

## 3 Way Flange End TL-28/29



### 3-Way Ball Valve Full Port Flanged Ends

- Material : Cast Iron / Carbon Steel / Stainless Steel Cf8 / CF8M
- Parts and materials the same as TL-27
- Size : 1"~8"



### 3 Way Valve Direction Indication

	T Type				L Type
	Set 1	Set 2	Set 3	Set 4	Set 5
Direction (open)					
Direction (shut)					

### ANSI-150LB Dimensions

\*Fig TL-28

MM	INCH	L1	L2	D	C	B	T	R	F	H	N	H1	H3 C.I.	H3 304	K	S	A	G	KG T-port	KG L-port
DN25	1"	180	90	108	79.5	24	14	51	1	15	4	105	33	42	175	12	M6	50	9.5	9.5
DN40	1 1/2"	200	100	127	98.5	38	17	73	2	15	4	130	46	53	230	16	M8	70	13	13
DN50	2"	220	110	152	120.5	47	18	92	2	19	4	136	46	53	230	16	M10	70	17	17
DN65	2 1/2"	250	125	178	139.5	63	21	105	2	19	4	150	55	65	330	19.5	M10	102	27	27
DN80	3"	260	130	190	152.5	74	23	127	2	19	4	160	60	65	330	19.5	M10	102	30	32
DN100	4"	340	170	229	190.5	97	23	150	2	19	8	180	60	65	330	19.5	M10	102	47	49
DN125	5"	424	212	254	216	123	24	186	2	22	8	220	65	70	700	25	M12	125	86	89
DN150	6"	435	217	279	241.5	144	25	216	2	22	8	240	65	75	700	25	M12	125	103	105
DN200	8"	525	262.5	343	298.5	199	28	270	2	22	8	310	85	85	700	25	M12	125	158	162

### PN16 DIN3202 Dimensions

\*Fig TL-29

MM	INCH	L1	L2	D	C	B	T	R	F	H	N	H1	H3 C.I.	H3 304	K	S	A	G	KG T-port	KG L-port
DN25	1"	180	90	115	85	24	16	68	1	14	4	105	33	42	175	12	M6	50	9.5	10
DN40	1 1/2"	200	100	150	110	38	16	88	2	18	4	130	46	53	230	16	M8	70	14	14.5
DN50	2"	220	110	165	125	47	18	102	2	18	4	136	46	53	230	16	M10	70	18	18.5
DN65	2 1/2"	250	125	185	145	63	18	122	2	18	4	150	55	65	330	19.5	M10	102	28	29
DN80	3"	260	130	200	160	74	20	138	2	18	8	160	60	65	330	19.5	M10	102	29	31
DN100	4"	340	170	220	180	97	20	158	2	18	8	172	60	65	330	19.5	M10	102	47	49
DN125	5"	424	212	250	210	123	22	188	2	18	8	220	65	70	700	25	M12	125	86	89
DN150	6"	435	217	285	240	144	22	212	2	22	8	240	65	75	700	25	M12	125	103	105
DN200	8"	525	262.5	340	295	199	24	267	2	22	12	310	85	85	700	25	M12	125	158	162

### 3 WAY BALL VALVE TORQUE VALVE CHART

UNIT : MM

Specification	1	1 1/2	2	2 1/2	3	4	5	6	8
kg/cm	120	225	300	490	720	980	3250	3900	4560
IN/LB	104.3	195.6	260.8	426	626.08	852.17	2826	3391.3	3965.16
FT/LB	8.64	16.2	21.61	35.3	51.87	70.6	234.1	280.97	328.52
N.M	11.76	22.05	29.4	48.02	70.56	96.04	318.6	382.2	447.06

KG/1.15=IN    KG/13.88=FT    KGX0.098=N.M    Second Torque Value X 1.2

# PRO UNI-D CO., LTD.

## 4 WAY DIRECT-MOUNTING BALL VALVE

Multi-Port Ball Valve (Cavity filled)

ISO5211 Direct-Mounting

Port : L / T / LL

Bore : Regular bore

Size Range : 1/4"~2"(DN8~DN50)

Temperature Range : -20 to 180°C

Working Pressure :

1/4"~1 1/2"(DN8~DN40)1000PSI

2"(DN50)800PSI

Seat : PTFE / TFM1600

Stem : Explosion-proof design

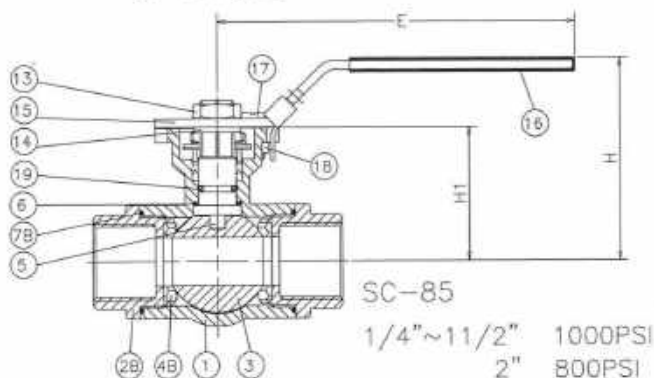
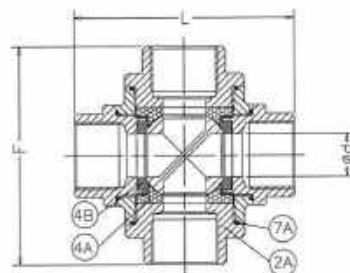
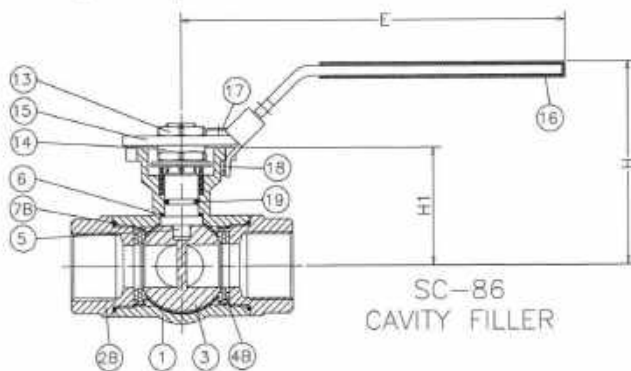
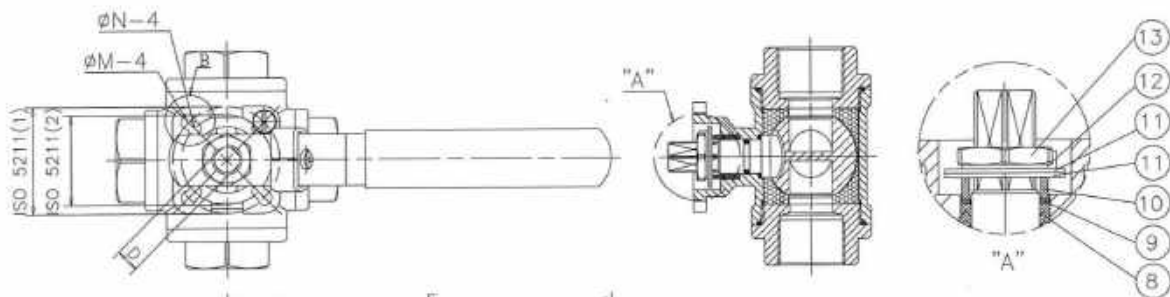
Handle : Locking device design

End Connections : ANSI B1.20.1(NPT)/

DIN 259/DIN 2999/ISO 228/BSP/PT



1/4"~1 1/4" 1 1/2"~2"

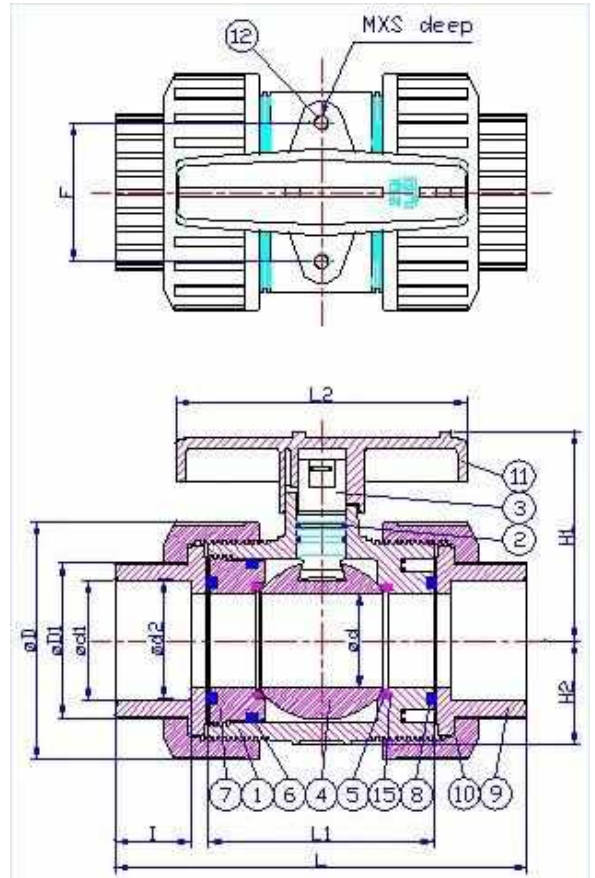


PORT TYPE	1	2	3	4	
T					1/4"~3/8" T-PORT $\phi d = \phi 11$
L					1/4"~3/8" L-PORT $\phi d = \phi 11$
X					1/4"~3/8" X-PORT $\phi d = \phi 8$

# PRO UNI-D CO., LTD.

## PVC/P.P BALL VALVE

- Pressure rating: 150PSI @23°C
- Standard port design
- Adjustable seat tightness
- Easy to disassemble
- Less on-line down time for replacement /maintenance
- Actuator could be installed with inserted nut type



NO.	PART	MATERIAL	Q'TY
1	本體(BODY)	UPVC,CPVC,PP,PVDF,ABS	1
2	中心O環(STEM O-RING)	EPDM,FPM	2
3	中心柱(STEM)	UPVC,CPVC,PP,PVDF,ABS	1
4	球(BALL)	UPVC,CPVC,PP,PVDF,ABS	1
5	墊座(SEAT SEAL)	PTFE	2
6	內特普O環(CARRIER O-RING)	EPDM,FPM	1
7	內特普(SEAL CARRIER)	UPVC,CPVC,PP,PVDF,ABS	1
8	由令O環(UNION O-RING)	EPDM,FPM	2
9	外特普(END CONNECTOR)	UPVC,CPVC,PP,PVDF,ABS	2
10	螺帽(UNION NUT)	UPVC,CPVC,PP,PVDF,ABS	2
11	把手(HANDLE)	ABS,PP+GF,PP	1
12	本體埋銅(INSERTED NUT)	C3602	2.4
15	本體O環(BODY O-RING)	EPDM,FPM	2

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 grace377@unid.com.tw

miT-UNI-D-cns

# PRO UNI-D CO., LTD.

SIZE	Standard	Material	Seat	O-ring	End type
1/2"~4"	ANSI,JIS,DIN,BS	PVC	PTFE	EPDM,FPM	Socket, Threaded, Flanged
1/2"~4"	ANSI,JIS,DIN,BS	CPVC	PTFE	EPDM,FPM	Socket, Threaded, Flanged
1/2"~4"	ANSI,JIS,DIN,BS	PVDF	PTFE	EPDM,FPM	Socket, Threaded, Flanged
1/2"~4"	ANSI,JIS,DIN,BS	PP	PTFE	EPDM,FPM	Socket, Threaded, Flanged
1/2"~4"	ANSI,JIS,DIN,BS	ABS	PTFE	EPDM,FPM	Socket, Threaded, Flanged

SIZE		1/2" (15mm)	3/4" (20mm)	1" (25mm)	1-1/4" (32mm)	1-1/2" (40mm)	2" (50mm)	2-1/2" (65mm)	3" (80mm)	4" (100mm)
JIS	d1	22.3	26.3	32.33	38.43	48.46	60.56	76.6	89.6	114.7
	d2	21.7	25.7	31.67	37.57	47.54	59.44	75.87	88.83	113.77
	l	22.2	25.4	28.6	31.8	34.9	38.1	61	63	69
ANSI	d1(UPVC)	21.54	26.87	33.65	42.42	48.56	60.63	73.38	89.31	114.76
	d1(CPVC)	21.54	26.87	33.65	42.42	48.56	60.63	73.38	89.28	114.73
	d2(UPVC)	21.23	26.57	33.27	42.04	48.11	60.17	72.85	88.7	114.07
	d2(CPVC)	21.23	26.57	33.27	42.04	48.11	60.17	72.85	88.67	114.04
	l	22.22	25.4	28.58	31.75	34.93	38.1	44.45	47.63	57.15
DIN	d1	20.3	25.3	32.3	40.3	50.3	63.3	75.35	90.35	110.6
	d2	19.9	24.9	31.9	39.9	49.9	62.9	74.9	89.9	109.9
	l	16	19	22	26	31	38	44	51	61
BS	d1	21.7	27.15	33.95	42.65	48.65	60.75	75.75	89.35	114.95
	d2	21	26.35	33.15	41.85	47.85	59.95	74.95	88.45	113.65
	l	22.22	25.4	28.58	31.75	34.93	38.1	44.45	47.63	57.15
thd./in	PT	14	14	11	11	11	11	11	11	11
	NPT	14	14	11.5	11.5	11.5	11.5	8	8	8
ØD		46.5	55	66	82	98	120	140	163	225
ØD1		31	37	45	54	65	79	92	108	146
Ød		13	18	23	30	38	48	61	69	99
L		114	135	149	168	175	208	275	304	332
L1		60	73	79	88	95	114	138	158	176
L2		78	92	100	110	121	147	180	224	278
H1		47	57	66	74	87	106	116	130	178
H2		21	26	33	39	41	53	-	-	-
S		8	8	11	11	11	15	-	-	-
F		30	33	40	47	52	70	-	-	-
M		M5	M6	M6	M8	M8	M8	-	-	-

(Unit : mm)

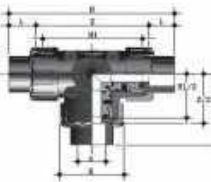
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miT-UNI-D-cns

# PRO UNI-D CO., LTD.

- Three Ways Ball Valve

Item : JP-690  
 Size : 1/2" ~ 2"  
 Joint End : Socket (ANSI/CNS/DIN/JIS)  
 Threaded (PT/NPT/BSPF)  
 Working Pressure: 150 PSI



NO.	PART	MATERIAL	Q'TY
1	Cap	PVC	1
2	Handle	PVC	1
3	O-ring	EPDM/ VITON	2
4	Stem	PVC	1
5	Seal Carrier	PVC	3
6	Ball	PVC	1
7	Seat Seal	PTFE	4
8	O-ring	EPDM/ VITON	4
9	O-ring	EPDM/ VITON	3
10	End Connector	PVC	3
11	Union Nut	PVC	3
12	Body	PVC	1
13	O-ring	EPDM/ VITON	3
14	Snap ring	PVC	3

Unit: mm

T型三通閥(T type)		L型三通閥(L type)	
 開位1 A B C	 開位2 B A C	 開位1 A B	 開位2 B A

Nom. Size	D	L	H1	H2	L1	L2	L3	W	I	F	E
DN15 (1/2")	53.8	110.2	49.3	27.5	21.8	68.0	55.8	75.0	M6	31.0	69.0
DN20 (3/4")	64.8	120.2	63.0	33.5	25.4	70.5	59.6	92.0	M6	33.0	69.0
DN25 (1")	76.0	138.5	73.0	39.0	27.8	83.5	73.5	93.8	M6	40.0	82.2
DN32 (1-1/4")	85.8	162.8	86.0	43.5	32.0	92.0	82.0	110.0	M8	45.0	82.2
DN40 (1-1/2")	91.5	170.0	95.5	48.0	28.0	98.0	87.0	115.0	M8	52.0	117.0
DN50 (2")	122.0	205.0	113.0	62.0	38.0	126.0	115.0	146.0	M8	70.0	117.0

Nom. Size	d				B	B1	C	H	H1	Z	L	H1/2	Z/2	H/2	L1	L2	Operating torque (N.M) / ISO
	ANSI	DIN	JIS	CNS													
DN15 (1/2")	21.54	20.30	22.30	22.40	51	38.5	69	138	83	119	22.5	54.5	59.5	81.5	26	18	3.5 ( F03)
DN20 (3/4")	26.87	25.30	26.30	26.40	51	38.5	69	172	109	123	24.5	54.5	61.5	86	26	18	3.5 ( F03)
DN25 (1")	33.65	32.30	32.33	34.50	58	46	82	200	130	144	28	65	72	100	26	18	4.5 ( F03)
DN32 (1-1/4")	42.42	40.30	38.43	42.50	58	46	82	208	130	144	32	65	72	104	26	18	4.5 ( F03)
DN40 (1-1/2")	48.56	50.30	48.46	48.60	110	64	-	240	154	171	34.5	77	85.5	120	50	30	5.5 ( F07)
DN50 (2")	60.63	63.30	60.56	60.60	110	64	-	246	154	171	37.5	77	85.5	123	50	30	5.5 ( F07)

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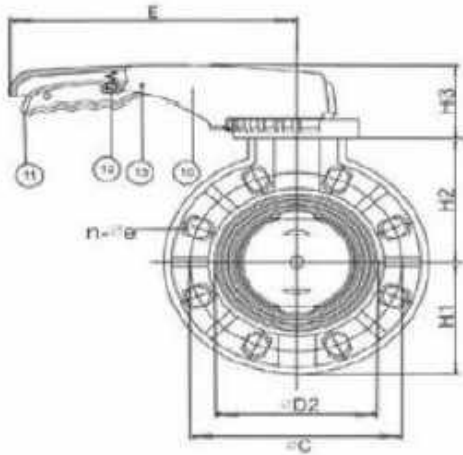
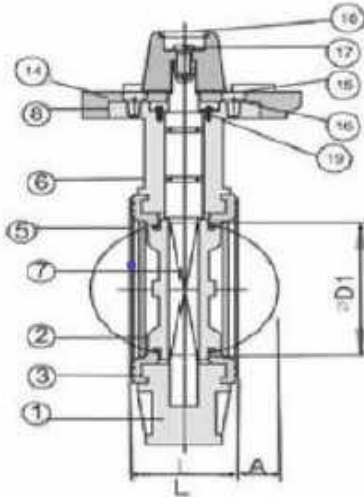
# PRO UNI-D CO., LTD.

- Butterfly Valve (Lever Type)**

Size : 2" ~ 8"

Joint End : Flange End (ANSI/CNS/DIN/JIS)

Working Pressure: 150 PSI



NO.	PART	MATERIAL	Q'TY
1	BODY	PVC/CPVC/FRPP	1
2	DISC	PVC/CPVC/FRPP	1
3	SEAT	EPDM/ VITON	1
5	STABILIZING RING	SS304	2
6	STEM O-RING	EPDM	1
7	VALVE STEM	SS304/ SS316	1
8	SHAFT RETAINER	SS304	1
10	HANDLE LEVER	ABS	1
11	TRIGGER	ABS	1
12	SPRING	SS304	1
13	PIN	SS304	1
14	POSITION LOCK PLATE	PVC	1
15	PLATE CAP	PVC	4
16	PLATE SCREW	SS304	4
17	HANDLE BOLT	SS304	1
18	HANDLE CAP	ABS	1
19	SHAFT RETAINER SCREW	SS304	2

Unit: mm

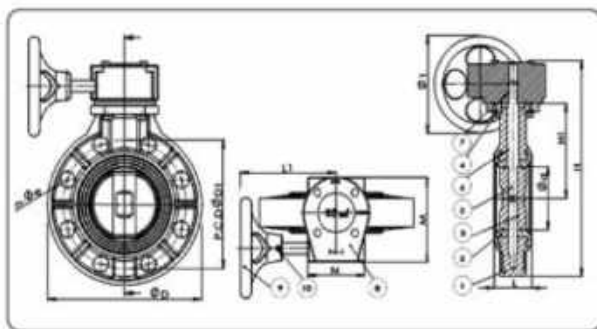
Nom. Size	L	A	C	n-c		D1	D2	E	H1	H2	H3	Operating torque	
				JIS	DIN/ANSI							(F*T*LB)	(N*M)
2"	44.5	4.8	123	4-20		54	85.8	220	79	88	74	25	34
2-1/2"	48.0	9.5	143	4-21		67	104.5	220	90	97	74	25	34
3"	53.0	15.0	157	8-21		83	119.5	249	96	115	74	25	34
4"	57.0	22.0	186	8-21		101	141.0	249	110	128	74	25	34
5"	68.0	29.5	213	8-24		127	171.5	320	127	157	96	40	54
6"	73.0	39.5	240	8-24		152	197.0	320	145	170	96	40	54
8"	92.0	54.0	296	12-24	8-24	200	249.0	335	172	213	96	59	80

# PRO UNI-D CO., LTD.

## Butterfly Valve (Worm Gear Type)

Item : JP-820N  
 Size : 8" ~ 16"  
 Joint End : Flange (ANSI/CNS/DIN/JIS)  
 Working Pressure : 8" ~ 12" 100PSI  
 14" ~ 16" 60PSI

MATERIAL: PVC, CPVC, PP  
 Size: 8 - 16"; 250mm - 315mm ; DN225 - DN300  
 Standard: ANSI, DIN, JIS  
 Joint End: Flanges  
 Operating Temperature: PVC(0~55°C); CPVC & PP(0~95°C)  
 Valve body color : PVC(dark gray), CPVC(light gray), PP(light yellow)



NO.	PART	MATERIAL	Q'TY
1	BODY	PVC/CPVC/FRPP	1
2	DISC	PVC/CPVC/FRPP	1
3	SEAT SEAL	EPDM/ VITON	1
4	SCREW	STEEL	4
5	STEM	SS304	1
6	STEM O-RING	EPDM/VITON	2
7	KEY	STEEL	1
8	GEAR BOX	IRON	1
9	HAND WHEEL	IRON	1
10	PIN	STEEL	1

Unit: mm

Num. Size	ØD	Ød	L	P.C.D. ØD1			L1	H1	H	n-Øe		
				JIS	DIN	ANSI				JIS	DIN	ANSI
8"	345	200	88	290	295	298	200	228	470	12-Ø23	8-Ø23	8-Ø23
10"	400	255	101	355	350	362	210	258	535	12-Ø25	12-Ø25	12-Ø25
12"	460	303	106	400	400	432	210	305	590	16-Ø25	12-Ø25	12-Ø25
14"	510	338	110	445	450	476	280	325	678	16-Ø25	16-Ø25	12-Ø29
16"	570	390	113	510	503	540	280	350	733	16-Ø27	16-Ø27	16-Ø29

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miT-**uniD**-cns

# PRO UNI-D CO., LTD.

## CAST IRON GATE VALVE

- AVAILABLE SIZE: 2"~16"
- Material: Cast Iron

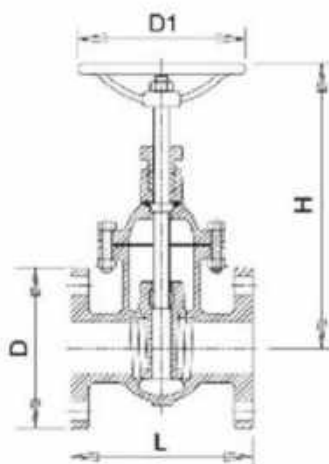
JIS-10K

CAST IRON GATE VALVE Non-rising stem, Solid wedge

disc, Renewable bronze seat rings, Flanged ends, Conform to CNS 713 B2107.



PART	MATERIAL
BODY	CAST IRON
BONNET	CAST IRON
STEM	STAINLESS STEEL
DISC	CAST IRON
SEAT RING	CAST BRONZE
GLAND	DUCTILE IRON
PACKING	NON-ASBESTOS
HANDWHEEL	CAST IRON



mm

	2	2 1/2	3	4	5	6	8	10	12	14	16
L	180	190	200	230	250	270	290	330	350	381	406
H	260	285	320	370	445	480	600	735	875	980	1180
D1	150	170	185	220	245	275	335	390	490	490	600
D	155	175	185	210	250	280	330	400	445	490	560

SIZE (inch)	The max. operating pressure		Test pressure (water)	
	under 120°C Still water	under 120°C (Flowing water)	SHELL	SEAT
2~12	14 kg f/cm <sup>2</sup>	10 kg f/cm <sup>2</sup>	21.1 kg f/cm <sup>2</sup>	15.4 kg f/cm <sup>2</sup>
14 up	10 kg f/cm <sup>2</sup>	8.8 kg f/cm <sup>2</sup>	19 kg f/cm <sup>2</sup>	11 kg f/cm <sup>2</sup>

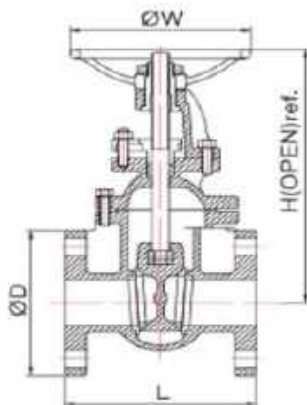
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MIT-UNID<sup>®</sup>-CNS

# PRO UNI-D CO., LTD.

## CAST IRON GATE VALVE JIS-10K

Bolted bonnet, Outside screwed & yoke, Rising stem, Solid wedge disc, Renewable bronze seat rings, Flanged ends, Conform to CNS 715 B2109.



零件 / Part	材質 / Material
閥體 Body	Cast Iron
閥蓋 Bonnet	Cast Iron
閥桿 Stem	Stainless Steel
閥盤 Disc	Cast Iron
座環 Seat Ring	Cast Bronze
格蘭 Gland	Ductile Iron
迫緊 Packing	PTFE
手輪 Handwheel	Cast Iron

最高工作壓力 / Max. working pressure 2"~12" 14"以上

120°C 以下靜流水 14 kgf/cm<sup>2</sup> 10kgf/cm<sup>2</sup>  
120°C Under non shock water.

120°C 以下脈動水 10 kgf/cm<sup>2</sup> 8.8kgf/cm<sup>2</sup>  
120°C Under shock water.

閥體測試 / Body test (HYD.) 21 kgf/cm<sup>2</sup> 19kgf/cm<sup>2</sup>

閥座測試 / Seat test (HYD.) 15.4 kgf/cm<sup>2</sup> 11kgf/cm<sup>2</sup>

單位:mm (±2mm)

size	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"
L	180	190	200	230	250	270	290	330	350	381	406
H	330	355	430	520	610	715	925	1150	1340	1515	1780
ØD	155	175	185	210	250	280	330	400	445	490	560
ØW	145	170	195	220	245	275	340	395	490	490	600

2" ~3" are FCD material.

This gate valve is not available for steam fluid.

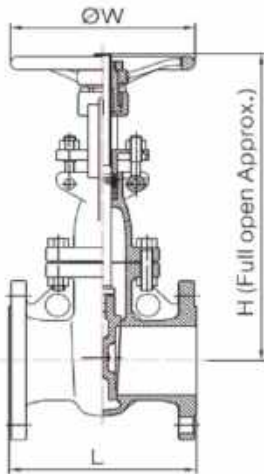
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Taoyuan City 33447, Taiwan (R.O.C.)  
TEL:886-3-3682323 FAX:886-3-3680977  
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grace377@unid.com.tw

MIT-UNI-D<sup>®</sup>-CNS

# PRO UNI-D CO., LTD.

## STAINLESS STEEL GATE VALVE JIS-10K

Outside screw and yoke, Rising stem, Wedge disc, Renewable gland packing under pressure, Bolted bonnet, Flanged ends.(RF)



Part	Material	
	304	316
Body	A351-CF8	A351-CF8M
Bonnet	A351-CF8	A351-CF8M
Stem	SUS304	SUS316
Disc	A351-CF8	A351-CF8M
Gasket	PTFE	PTFE
Gland	A351-CF8	A351-CF8M
Packing	PTFE	PTFE
Handwheel	Cast Iron	CI

Max.working pressure
Body test (HYD.)
Seat test (HYD.)

mm (±2mm)

inch	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"
L	108	117	127	140	165	178	190	203	229	254	267	292	330	356
H	185	210	220	270	270	320	380	445	523	606	710	995	1115	1385
øW	90	90	100	140	140	160	180	200	225	250	250	350	400	400

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miT-UNI-D<sup>®</sup>-cns

# PRO UNI-D CO., LTD.

## GLOBE VALVE

Available size: 1/2"~12"

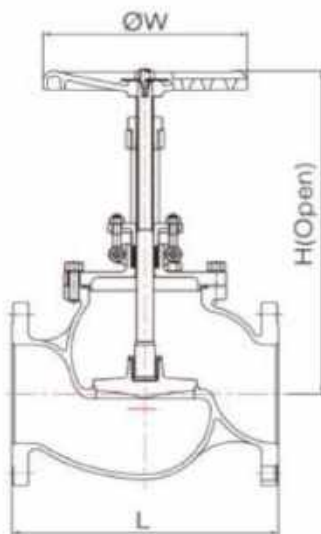
Material: 304 / 316

Feature: Rising stem / Outside screw and yoke / Hand wheel / Bolted bonnet

Integral swivel disc / JIS10K / ANSI150LB Flange end



PART	MATERIAL	
	304	316
Body	A351-CF8	A351-CF8M
Bonnet	A351-CF8	A351-CF8M
Stem	SUS304	SUS316
Disc	A351-CFB	A351-CF8M
Gasket	PTFE	PTFE
Gland	A351-CFB	A351-CF8M
Packing	PTFE	PTFE
Hand wheel	CAST IRON	CAST IRON



Unit: mm

INCH	1/2"	3/4"	1"	1-1/2"	2"	3"
L	108	117	127	165	203	216
H	190	195	208	260	275	320
ØW	100	100	125	140	170	170

INCH	4"	5"	6"	8"	10"	12"
L	292	356	406	495	622	698
H	415	510	535	600	718	760
ØW	220	290	350	400	500	500

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MIT-**uniD**-CNS

# PRO UNI-D CO., LTD.

## VALVES FOR ASSEMBLY

2-WAY  
BALL  
VALVE



PVC

MULTI  
WAY BALL  
VALVE



3-way PVC

BUTTERFLY  
VALVE



PVC

LINEAR  
VALVE



globe valve



2-PC thread end



3-way thread end



Wafer



gate valve



3-PC thread end



3-way flange end



Lug



2-PC flange end



4-way thread end



Double flange

# PRO UNI-D CO., LTD.

## CONTROL VALVES

2-WAY  
BALL  
VALVE



PVC

MULTI  
WAY BALL  
VALVE



3-way PVC

BUTTERFLY  
VALVE



PVC

LINEAR  
VALVE



globe valve



2-PC thread end



3-way  
thread end



Wafer



gate valve



3-PC thread end



3-way  
flange end



Double flange



2-PC flange end



4-way  
thread end

# WELCOME DISTRIBUTORS !



miT-**UNiD**<sup>®</sup>-cns  
**PRO UNI-D CO., LTD.**

HEADQUARTER

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