❖ True Union Ball Valve

ADVANTAGES:

- ✓ NSF listed & materials meet drinking water standard
- ✓ Smooth opening & closing thanks to a lower torque
- ✓ 100% pure virgin material, CaCO3 free (Chalk)
- ✓ UV resistant powder added
- ✓ 100% pressure testing before leaving the factory
- ✓ Can be assembled with Pneumatic/Electtric Actuators

DESCRIPTION:

- ✓ Material: UPVC, CPVC, Clear PVC, PP, PVDF
- ✓ Size: 1/2" - 4"; 20mm - 110mm; DN15 - DN100
- ✓ Standard: ANSI, DIN, JIS, CNS
- ✓ Joint End: Socket, Threaded(NPT, PT, BSPF), Fusion, Welding
- ✓ Seat - PTFE, TPV ; ORING - EPDM, VITON
- ✓ Working Pressure: 150 PSI
- ✓ Operating Temperature: UPVC(0~55℃); CPVC & PP(0~95℃)
- ✓ Handle color : red, blue, green, orange
- ✓ Valve body color : UPVC(dark gray), CPVC(light gray), PP(light yellow) Clear PVC(transparence), PVDF(ivory)

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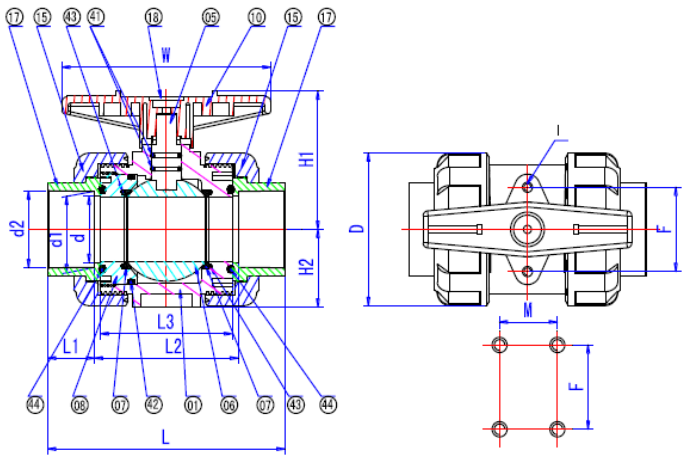
❖ SPECIFICATIONS:



ITEM	PART	MATERIAL	QTY
01	BODY	UPVC / CPVC / PP / CLEAR PVC / PVDF	1
05	STEM	UPVC / CPVC / PP / CLEAR PVC / PVDF	1
06	BALL	UPVC / CPVC / PP / CLEAR PVC / PVDF	1
07	SEAT	TPV / PTFE	2
08	SEAL CARRIER	UPVC / CPVC / PP / CLEAR PVC / PVDF	1
10	HANDLE	ABS	1
15	UNION NUT	UPVC / CPVC / PP / CLEAR PVC / PVDF	2
17	UNION END	UPVC / CPVC / PP / CLEAR PVC / PVDF	2
18	CAP	ABS	1
41	O-RING	EPDM / VITON	2
42	O-RING	EPDM / VITON	1
43	O-RING	EPDM / VITON	2
44	O-RING	EPDM / VITON	2

UNIT: MM

SIZE	d	D1				d2				D
		ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS	
1/2"(15)	15	21.54	20.30	22.30	22.40	21.23	20.10	21.70	21.90	54.00
3/4"(20)	20	26.87	25.30	26.30	26.40	26.57	25.10	25.70	25.90	63.00
1"(25)	25	33.65	32.30	32.33	34.50	33.27	32.10	31.67	33.90	73.50
1¼"(32)	32	42.42	40.30	38.43	42.50	42.04	40.10	37.57	41.90	84.50
1½"(40)	40	48.56	50.30	48.46	48.60	48.11	50.10	47.54	47.90	98.00
2"(50)	50	60.63	63.30	60.56	60.60	60.17	63.10	59.44	59.90	118.00
2½"(65)	63	73.38	75.30	76.60	76.70	72.85	75.10	75.87	75.90	150.00
3"(80)	75	89.31	90.40	89.60	89.70	88.70	90.10	88.83	88.90	169.00
4"(100)	97	114.76	110.40	114.70	115.00	114.10	110.10	113.98	113.80	211.00

SIZE	L		L1		L2	L3	W	H1	H2	F	M	I	operating torque (N·M)
	ANSI/JIC/CNS	DIN	ANSI/JIC/CNS	DIN									
1/2"(15)	104.80	92.00	22.30	16.00	60.00	52.00	84.00	52.50	27.50	31.00	---	M6	2.0
3/4"(20)	113.00	100.00	25.50	19.00	62.00	54.00	90.00	59.00	32.00	33.00	---	M6	2.5
1"(25)	127.20	114.00	28.60	22.00	70.00	62.00	106.00	67.50	37.25	40.00	---	M6	4.0
1¼"(32)	142.00	130.00	32.00	26.00	78.00	70.00	116.00	77.50	42.75	52.00	---	M8	5.0
1½"(40)	157.50	151.50	35.00	32.00	87.50	79.50	128.00	90.00	50.00	52.00	---	M8	7.5
2"(50)	171.00		38.00		95.00	85.00	140.00	106.00	60.00	70.00	---	M8	8.5
2½"(65)	238.50		47.00		144.50	132.50	210.00	136.50	76.50	84.00	45.00	M10	13
3"(80)	268.00		51.00		166.00	150.00	235.00	149.50	86.00	84.00	45.00	M10	16
4"(100)	318.00		61.00		196.00	172.00	260.00	175.00	107.00	121.00	49.00	M12	25

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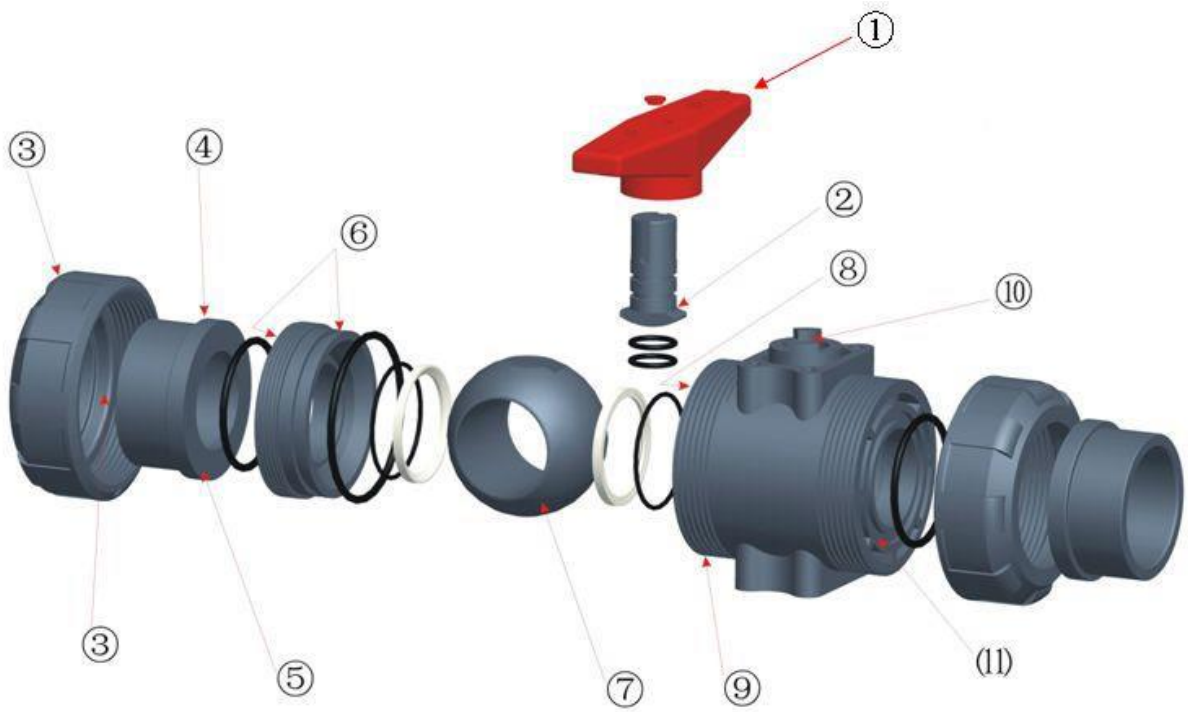
❖ **DESIGNS:**



- ❖ Underside handle extends the length so that both OFF block will not be exposed, more beautiful
- ❖ Extrusive circular plane change to both side plane, easy processing and assemble
- ❖ Lateral plane and ribs of the Union Cap, from the right-angle change to incline to increase the intensity
- ❖ Union end from right-angle to slope increase in a round protruding rib to increase the intensity
- ❖ Surface of O-ring change to a plane, and each have been cutting lathe in order to ensure its flatness
- ❖ Seal carrier and O-ring slot is processed by machine, sealing performance is improved.
- ❖ Each ball has increased turning and grinding to ensure that its true roundness and smoothness. So much easier to handle and not easy leak
- ❖ Inside body is processed via CNC machine to make sure accurate dimensions
- ❖ Increase the slope of trapezoidal teeth and the number of teeth in order to ensure their connection strength
- ❖ Through hole is processed via CNC machine to make sure the stability of sealing
- ❖ Slot dimension is improved, sealing performance is strengthened.

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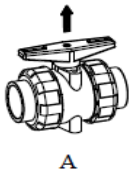
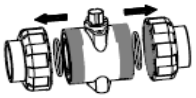
❖ DISASSEMBLY DETAILS:

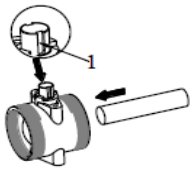

A


B

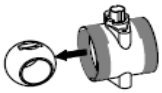

C


C1

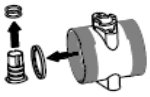
A - Pull out the handle
B - Take apart the nuts
C - Turn the seal carrier in an anticlockwise direction
C1 - Take out the Seat & O-ring
D - Push the ball
E - Pick out the ball
F - Press the shaft
G - Pick out the Seat & O-ring



D

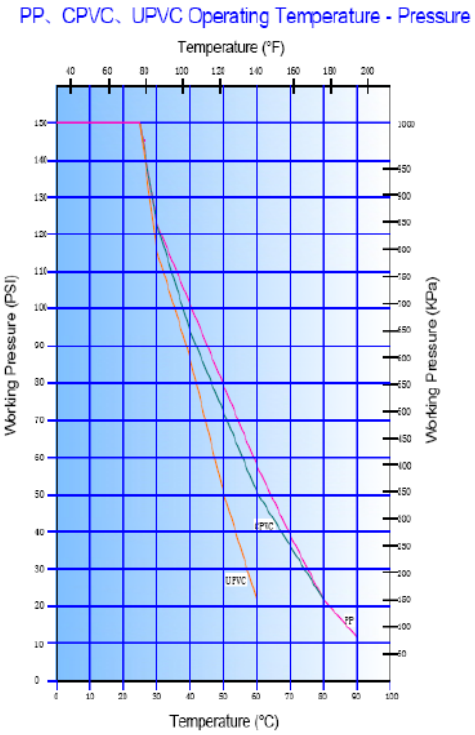

E

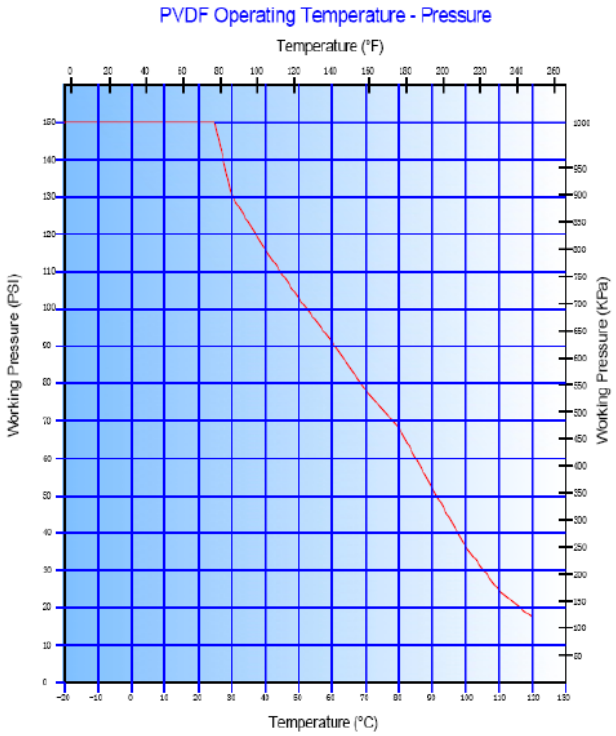

F


G

Note:
1) For above "D" step, pls take note the groove position "1" on the shaft
2) To assemble the valve, pls follow up the steps from "G" to "A"

❖ MATERIAL GUIDELINE FOR PRESSURE & TEMPERATURE:





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