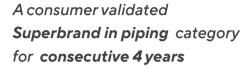


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India's Most Trusted Pipe Brand based on TRA's Brand Trust Report for the 5th time

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Power of Desire



India's Most Desired
Brand based on TRA's Brand Trust
Report 2022



CIN NO: L25200GJ1996PLC029134

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UNLOCK THE POWER OF EFFICIENCY

INTRODUCING





INTRODUCTION



SINGLE UNION BALL VALVE

Astral Single Union ball valve is designed with state of the art manufacturing technology and cutting edge features. It is one of most advanced Single Union valve currently available in market. The valves are extremely smooth in operation with low operating torque values and fully pressure rated to give trouble free service with long life. Single Union valve are aneconomically priced solution for Irrigation, Pool/Spa, Farming & Noncritical application with high performance achieved by using industry best components like PTFE seats and FKM / EPDM rubber rings / gaskets. The valves can be removed from its position very easily and can be fully serviceable by removed union nut while valve is under pressure in the closed position. The Single Union valves passed through strict quality control program and each and every valve is tested with low and high pressure which guaranteed the trouble free operating in all service conditions.

The valves are available in both uPVC and CPVC material which compliments our range of piping systems – Astral Aquarius Plus and Astral Chempro. With addition of this, Astral will be the leading one step solution for your complete piping needs.

STANDARDS

ASTM D 1784 ASTM D 2467 ASTM F 439 ASTM F 1970

APPLICATION AREAS

- Farming / Agriculture
- Irrigation
- · Residential / Commercial

- Laboratories / Pools
- · Non-critical Chemical
- Light Industries

PRODUCT DETAILS

- Size: ½" 4" (15mm to 50mm)
- Material: uPVC, CPVC
- Joint End:
- 1. Flanged
- 2.Socket(IPS/Metric)

- Seat: PTFE
- Seals: EPDM Or FKM
- Pressure Rating:
- 1. 235 PSI (16kg/cm2) @ 73°F for Socket type
- 2.150 PSI (10kg/cm2) @ 73°F for Flange type



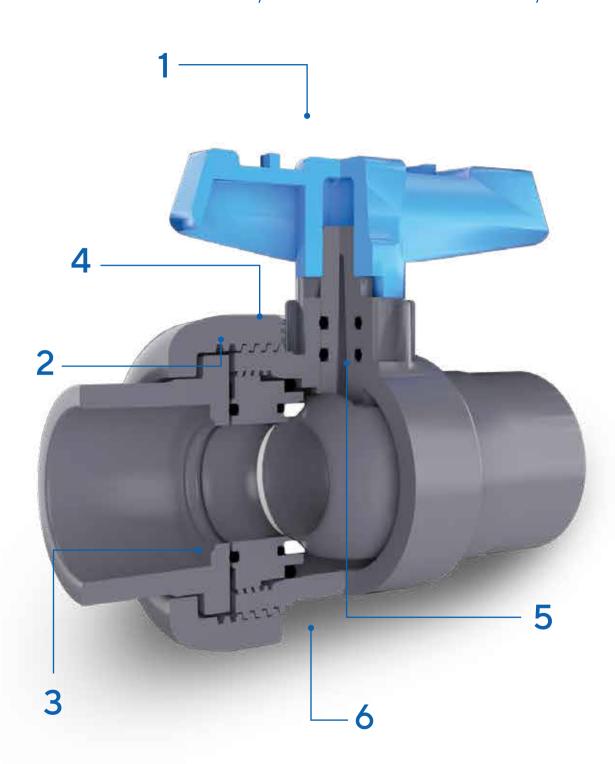
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FEATURES

SINGLE UNION BALL VALVE





HANDLE WITH KEY FOR OPENING

The handle design is symmetrical which provide easy grip of valve and facilitate easy open / close positions

2

SEAT CARRIER DESIGN

Seat carrier design is one of the industry best with more number of threads. This ensures the high pressure sustain capabilities during the operating conditions.

3

FULL BORE DESIGN

The valves are designed with full bore discharge hence the flow as per nominal dimeter is assured.

4

SEAT CARRIER ADJUSTMENT

Seat carrier adjustment can be performed by removing the strip (top part of handle). No need for any extra tools.

5

DOUBLE STEM RINGS

The stem is having double o rings through which excellent leak protection is achieved. Also the stem groove is machined which gives highest degree of dimensional accuracy

6

ERGONOMIC SHAPE

The overall shape of the valve is ergonomically design which helps easy handling / tightening of nuts.







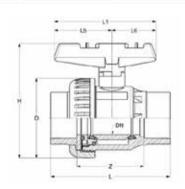


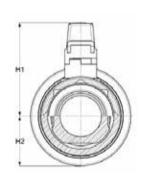
TECHNICAL DETAILS

SINGLE UNION BALL VALVE

DIMENSION TABLE

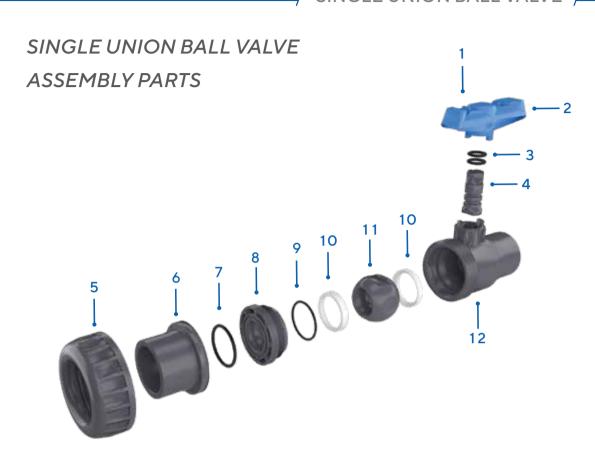
Inch	D [MM]	H [MM]	H1 [MM]	H2 [MM]	L [MM]
1/2"	53	75	49	26	91
3/4"	61	91	60	31	103
1"	70	104	69	35	115
1-1/4"	84	122	80	42	130
1-1/2"	101	149	98	51	149
2"	120	173	113	60	176
2-1/2"	152	214	138	76	219
3"	170	240	155	85	243
4"	208	294	190	104	297





TEMPERATURE PRESSURE RATING

System Operating Temperature OF (OC)		73 (23)	100 (38)	110 (43)	120 (49)	130 (54)	140 (60)	150 (66)	160 (71)	170 (77)	180 (82)	190 (88)	200 (93)	210 (99)	
Valve Pressure	1/2" - 2"	PVC	235 (1.62)	146 (1.01)	118 (0.81)	94 (0.65)	71 (0.49)	52 (0.36)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)
		CPVC	-	235 (1.62)	219 (1.51)	170 (1.17)	145 (1.00)	130 (0.90)	110 (0.76)	90 (0.62)	80 (0.55)	70 (0.48)	60 (0.41)	50 (0.34)	-O- (-O-)
Rating psi (Mpa)	2-1/2" - 4"	PVC	150 (1.03)	93 (0.64)	75 (0.52)	60 (0.41)	45 (0.31)	33 (0.23)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)	-O- (-O-)
		CPVC	-	150 (1.03)	140 (0.97)	130 (0.90)	120 (0.83)	110 (0.76)	100 (0.70)	90 (0.62)	80 (0.55)	70 (0.48)	60 (0.41)	50 (0.34)	-O- (-O-)



NO.	COMPONENT	QTY.	MATERIAL
1	Key for opening	1	PVC/CPVC
2	Handle	1	PVC
3	Stem O ring	2	EPDM/FKM
4	Stem	1	PVC/CPVC
5	Union Nut	1	PVC/CPVC
6	Socket	1	PVC/CPVC
7	Socket seal O ring	1	EPDM/FKM
8	Seat Carrier	1	PVC/CPVC
9	Body Seal O ring	1	EPDM/FKM
10	Ball Seat (Teflon)	2	PTFE
11	Ball	1	PVC/CPVC
12	Body	1	PVC/CPVC