ASTRAL® PIPES

INDIA'S NO.1 PIPE BRAND

Introducing

TRUE UNION INDUSTRIAL CHECK VALVES (NRV)

High-performance Check Valves
for flow control and backflow prevention.



*For more details visit astralpipes.com

About Astral

Founded in 1996, Astral Pipes is a leading manufacturer of plastic piping systems in India, known for its commitment to quality and innovation. Astral was a pioneer in introducing CPVC technology to the Indian market and was one of the first companies to secure NSF approval for the range. With state-of-the-art production facilities across the country, Astral offers a diverse range of products, including plumbing, drainage, agricultural, fire sprinkler, industrial piping, and electrical conduit systems. Beyond its core piping business, Astral has diversified into Adhesives, Bathware and Paints demonstrating its adaptability and growth in the building materials sector.

About Astral Check Valves (NRV)

Astral presents its premium range of uPVC and CPVC True Union Industrial Check Valves (NRV) designed for demanding industrial applications. Built with precision engineering and high-performance thermoplastic materials, the Astral Check Valves guarantee unidirectional flow, prevent back flow, and effectively prevent reverse contamination in process lines while protecting against pressure surges.

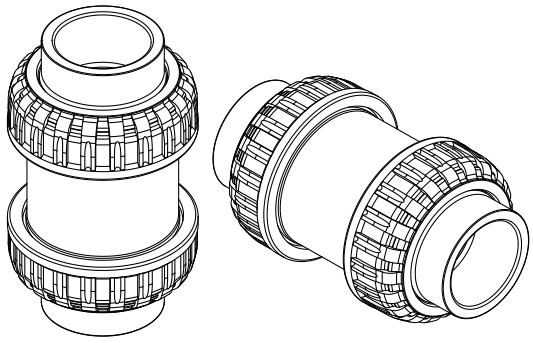
True Union Industrial Check Valves Spring Type (NRV):

True Union Industrial Check Valves spring Type (NRV) use a tensioned spring and tight-sealing mechanism that enables rapid, reliable closure to prevent reverse flow and protect piping systems from damage.

True Union Industrial Check Valves Ball Type (NRV):

True Union Industrial Check Valves ball Type (NRV) use a free-moving ball mechanism that automatically opens with forward flow and closes quickly against reverse flow to prevent backflow and protect piping systems from damage.

Both Spring Type NRV and Ball Type NRV are suitable for horizontal and vertical installations. The valves are manufactured from durable, corrosion-resistant materials for reliable, long-lasting performance in demanding and aggressive environments.



Key Features

- **One-Way Flow Control:** Prevents reverse flow automatically
- **Spring-Loaded & Ball operated Mechanism:** Ensures quick and reliable closing
- **Compact Design:** Ideal for tight installation spaces
- **Multi-Position Installation:** Suitable for horizontal and vertical mounting
- **Minimal Pressure Required to Open:** Allows forward flow with minimal operating pressure

Benefits



Reduces water hammer & pressure surges



Maintenance-free operation



Chemical & Corrosion Resistance



Reverse Flow Protection

Specifications

- **Body Materials:**
  uPVC, CPVC
- **Seal Options:**
  EPDM, FKM
- **Maximum Operating Pressure:**
  16 bar (PN16) @23°C
- **Mechanism:**
  Spring-Loaded & Ball operated
- **Connection Types:**
  Socket Ended Flanged Ended
- **Size Range:**
  1/2" to 4" (1.5 cm to 10.0 cm)
- **Minimum Operating Pressure:**
  0.2 bar

Applications

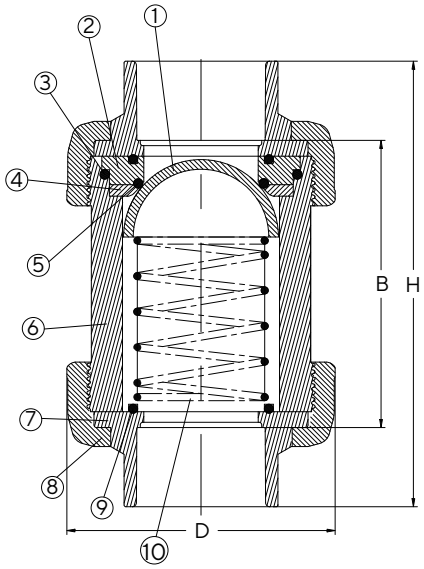
- Pump discharge lines
- Water supply systems
- Chemical processing
- Industrial plumbing systems

Applicable Standard

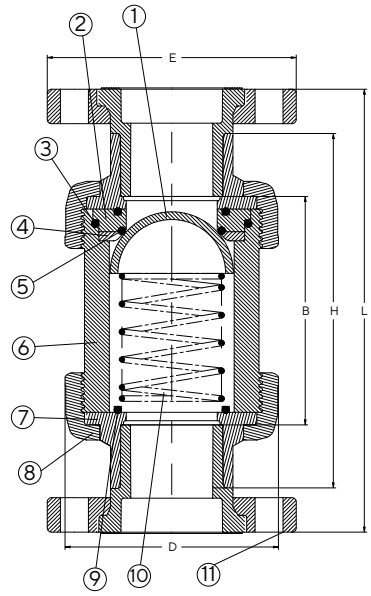
uPVC : ASTM D 2467 - Socket type Poly Vinyl Chloride (PVC) Plastic Pipe Fittings, SCH 80

CPVC : ASTM F439 - Socket type Chlorinated Polyvinyl Chloride Plastic Pipe Fittings, SCH 80

True Union Industrial Check Valves Spring Type (NRV):



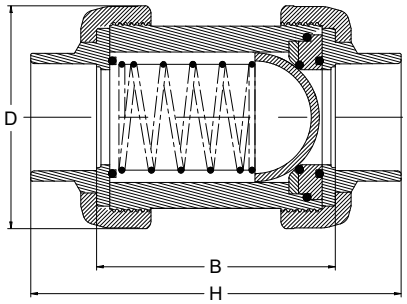
Socket End



Flange End

SR. NO.	COMPONENT	QTY	MATERIAL
1	Ball	1	uPVC/CPVC
2	Top Plunger	1	uPVC/CPVC
3	Top Plunger “O” Ring	1	EPDM/FKM
4	Bottom Plunger	1	uPVC/CPVC
5	Bottom Plunger “O” Ring	1	EPDM/FKM
6	Body	1	uPVC/CPVC
7	Socket	2	uPVC/CPVC
8	Union Nut	2	uPVC/CPVC
9	Socket “O” Ring	2	EPDM/FKM
10	Spring	1	SS304/SS316
11	Flange	2	uPVC/CPVC

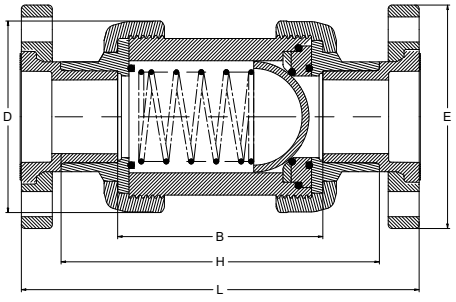
True Union Industrial Check Valves Spring Type (NRV): Socket End



Dimensions & Product Code :

Nominal Size		Chem Pro(CPVC)		Aquarius Plus(uPVC)		Dimensions (mm)		
CM	INCH	EPDM	FKM	EPDM	FKM	D	B	H
1.5	1/2"	M537150401	M537160401	M067150401	M067160401	53	73	118
2.0	3/4"	M537150402	M537160402	M067150402	M067160402	61	78	129
2.5	1"	M537150403	M537160403	M067150403	M067160403	71	88	145
3.2	1-1/4"	M537150404	M537160404	M067150404	M067160404	84	99	163
4.0	1-1/2"	M537150405	M537160405	M067150405	M067160405	101	109	179
5.0	2	M537150406	M537160406	M067150406	M067160406	120	128	205
6.5	2-1/2"	M537150407	M537160407	M067150407	M067160407	151	163	253
8.0	3"	M537150408	M537160408	M067150408	M067160408	170	185	281
10.0	4"	M537150409	M537160409	M067150409	M067160409	208	238	354

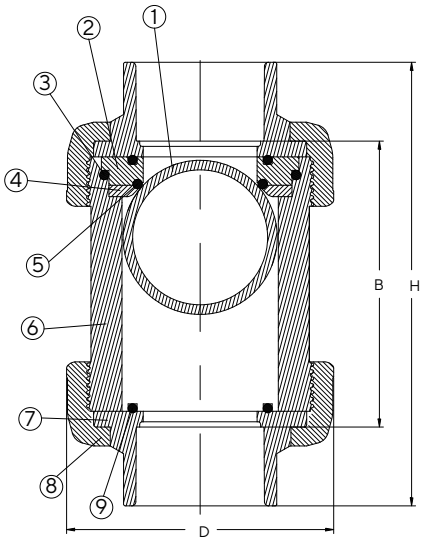
True Union Industrial Check Valves Spring Type (NRV): Flange End



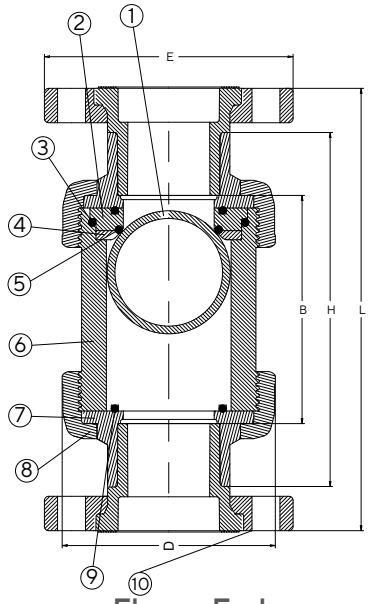
Dimensions & Product Code :

Nominal Size		Chem Pro(CPVC)		Aquarius Plus(uPVC)		Dimensions (mm)				
CM	INCH	EPDM	FKM	EPDM	FKM	D	B	H	L	E
1.5	1/2"	A537150401N	A537160401N	A067150401N	A067160401N	53	73	118	158	89
2	3/4"	A537150402N	A537160402N	A067150402N	A067160402N	61	78	129	172	98
2.5	1"	A537150403N	A537160403N	A067150403N	A067160403N	71	88	145	193	108
3.2	1-1/4"	A537150404N	A537160404N	A067150404N	A067160404N	84	99	163	212	117
4	1-1/2"	A537150405N	A537160405N	A067150405N	A067160405N	101	109	179	239	126
5	2	A537150406N	A537160406N	A067150406N	A067160406N	120	128	205	269	152
6.5	2-1/2"	A537150407N	A537160407N	A067150407N	A067160407N	151	163	253	316	178
8	3"	A537150408N	A537160408N	A067150408N	A067160408N	170	185	281	351	191
10	4"	A537150409N	A537160409N	A067150409N	A067160409N	208	238	354	430	230

True Union Industrial Check Valves Ball Type (NRV):



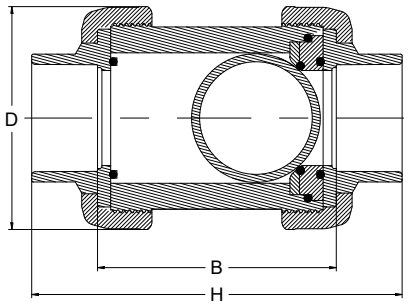
Socket End



Flange End

SR. NO.	COMPONENT	QTY	MATERIAL
1	Ball	1	uPVC/CPVC
2	Top Plunger	1	uPVC/CPVC
3	Top Plunger “O” Ring	1	EPDM/FKM
4	Bottom Plunger	1	uPVC/CPVC
5	Bottom Plunger “O” Ring	1	EPDM/FKM
6	Body	1	uPVC/CPVC
7	Socket	2	uPVC/CPVC
8	Union Nut	2	uPVC/CPVC
9	Socket “O” Ring	2	EPDM/FKM
10	Flange	2	uPVC/CPVC

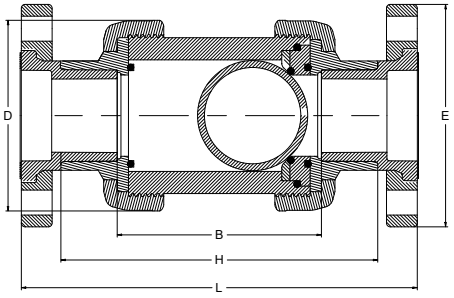
True Union Industrial Check Valves Ball Type (NRV): Socket End



Dimensions & Product Code :

Nominal Size		Chem Pro(CPVC)		Aquarius Plus(uPVC)		Dimensions (mm)		
CM	INCH	EPDM	FKM	EPDM	FKM	D	B	H
1.5	1/2"	M537150801	M537160801	M067150801	M067160801	53	73	118
2.0	3/4"	M537150802	M537160802	M067150802	M067160802	61	78	129
2.5	1"	M537150803	M537160803	M067150803	M067160803	71	88	145
3.2	1-1/4"	M537150804	M537160804	M067150804	M067160804	84	99	163
4.0	1-1/2"	M537150805	M537160805	M067150805	M067160805	101	109	179
5.0	2	M537150806	M537160806	M067150806	M067160806	120	128	205
6.5	2-1/2"	M537150807	M537160807	M067150807	M067160807	151	163	253
8.0	3"	M537150808	M537160808	M067150808	M067160808	170	185	281
10.0	4"	M537150809	M537160809	M067150809	M067160809	208	238	354

True Union Industrial Check Valves Ball Type (NRV): Flange End



Dimensions & Product Code :

Nominal Size		Chem Pro(CPVC)		Aquarius Plus(uPVC)		Dimensions (mm)				
CM	INCH	EPDM	FKM	EPDM	FKM	D	B	H	L	E
1.5	1/2"	A537150801N	A537160801N	A067150801N	A067160801N	53	73	118	158	89
2	3/4"	A537150802N	A537160802N	A067150802N	A067160802N	61	78	129	172	98
2.5	1"	A537150803N	A537160803N	A067150803N	A067160803N	71	88	145	193	108
3.2	1-1/4"	A537150804N	A537160804N	A067150804N	A067160804N	84	99	163	212	117
4	1-1/2"	A537150805N	A537160805N	A067150805N	A067160805N	101	109	179	239	126
5	2	A537150806N	A537160806N	A067150806N	A067160806N	120	128	205	269	152
6.5	2-1/2"	A537150807N	A537160807N	A067150807N	A067160807N	151	163	253	316	178
8	3"	A537150808N	A537160808N	A537160808N	A067160808N	170	185	281	351	191
10	4"	A537150809N	A537160809N	A067150809N	A067160809N	208	238	354	430	230



A consumer validated ***Superbrand in piping*** *category for* ***consecutive 7 years***



India's Most Trusted *Pipe Brand based on* ***TRA's Brand Trust Report for the 7th time***

ASTRAL PIPES

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Please get in touch with us between 10 AM to 6 PM between Monday to Friday and the last Saturday of the month.
We will remain closed on Public Holidays.

ANRV/LT/000
REV: 07/2026