

ASTRAL
AquaSAFE®

ASTRAL
PIPES



IS:7834

IS:4985



ONLY THOSE PRODUCTS BEARING
THE ABOVE MARKS ARE CERTIFIED

**uPVC PRESSURE PIPE FOR
AGRICULTURE AND WATER
TRANSPORT SYSTEM**



uPVC PRESSURE PIPE FOR AGRICULTURE
AND WATER TRANSPORT SYSTEM

INTRODUCTION

ASTRAL Aquasafe® system offers wide range of uPVC pressure pipes and fittings. ASTRAL Aquasafe® uPVC pressure pipes are manufactured in accordance with IS:4985 as well as company's standard covering complete range from 20 mm to 400 mm. They are available in various pressure ratings as defined in IS:4985. The pipes are provided with plain socket and ring socket (elastomeric seal ring). ASTRAL Aquasafe® pipes and fittings can be joined together by ASTRAL uPVC solvent cement or elastomeric seal ring.

ASTRAL Aquasafe® fittings are manufactured as per IS:7834 as well as company's standards. Both pipes and fittings are grey in colour manufactured from uPVC raw material and hence they are corrosion free forever.

WIDE APPLICATIONS

Astral Aquasafe Piping system is a pressure piping system ideal for use in variety of applications like agriculture, irrigation, water supply, industrial process lines, swimming pools and firefighting mains etc.

FEATURES

- Easy handling, transportation and installation
- Long life
- Excellent chemical resistant
- Non conductive
- Better flow and leak-proof joining
- High strength and durability
- UV stabilized

PRODUCT RANGE

Class 1 (2.5 kgf/cm²): 90 mm to 400 mm

Class 3 (6 kgf/cm²): 40 mm to 400 mm

Class 5 (10 kgf/cm²): 20 mm to 400 mm

Plumbing (16 kgf/cm²): 20 mm to 50 mm

Class 2 (4 kgf/cm²): 63 mm to 400 mm

Class 4 (8 kgf/cm²): 25 mm to 400 mm

Class 6 (12.5 kgf/cm²): 20 mm to 400 mm

APPROVALS & STANDARDS

Standards & Specifications

- Pressure Pipes manufactured as per IS:4985
- Astral Aquasafe fittings are manufactured as per IS:7834 and as well as company's standards.

IS:7834



IS:4985



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APPLICATIONS

ASTRAL Aquasafe® pipes are superior to CI, GI, R.C.C., HDPE pipes and offers multiple advantages like light weight, easy and fast installation, excellent corrosion and chemical resistance, high flow rates, long life and economical.

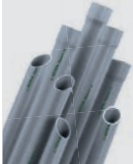
TESTING CONDUCTED ON PIPES & FITTINGS

- Raw Material Test
- Dimension & Visual Appearance Test (Dia., Wall Thickness etc.)
- Stress Relief Test • Reversion Test
- Density Test • Effect on Water Test
- Opacity Test • Hydrostatic Pressure Test
- Drop Impact Test
- Sulphated Ash Content Test
- Vicat Softening Temperature Test

FEATURES



AQUASAFE SOLVENT FITTED & ELASTOMERIC SEALING RING TYPE PIPES CONFIRMING TO IS:4985



AQUASAFE SOLVENT FITTED PIPES

ALL PIPES ARE AVAILABLE IN 3/5/6 MTR LENGTH

PRESSURE RATING
2.5 , 4 , 6, 8, 10, 12.5 and 16 kgf/cm² (Plumbing)

SIZE : 20 to 400 mm

ELASTOMERIC SEALING RING TYPE PIPES

ALL PIPES ARE AVAILABLE IN 3/5/6 MTR LENGTH

PRESSURE RATING
4, 6, 8, 10 and 12.5 kgf/cm²

SIZE : 63 to 315 mm



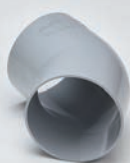
Note : For product details, availability and conformance to IS:4985, please refer our product catalogue.

AQUASAFE MOULDED FITTINGS

ELBOW 90°



ELBOW 45°



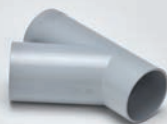
TEE



CROSS TEE



**SINGLE 'Y'
(TEE 45°)**



ENLARGE TEE



COUPLER



END CAP



MAPT



FAPT



**REDUCER
ELBOW**



**THREADED
ELBOW**



REDUCER TEE



**REDUCER
CROSS TEE**



REDUCER Y



**REDUCER
COUPLER**



**REDUCER BUSH
(Spigot x Socket)**



REDUCER MAPT



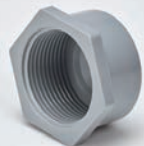
REDUCER FAPT



THREADED TEE



**THREADED
END CAP**



**THREADED
REDUCER BUSH**



**REDUCER
BRASS ELBOW**



**REDUCER
BRASS TEE**



**REDUCER
BRASS COUPLER**



**SERVICE
SADDLE**



TAIL PIECE



FLANGE



**FLANGE
ADAPTER**



AQUASAFE FABRICATED FITTINGS



ADHESIVE SOLUTION

**IPS WELD-ON
PVC 100™
SOLVENT CEMENT**

Suitable for 20 mm to 110 mm

Always Use ASTRAL Aquasafe® Solvent Fitted Pipes With Fittings
& For Joining Use ASTRAL PVC Adhesive Solution



**HEAVY BODIED
ADHESIVE SOLUTION
uPVC 717™**

Suitable for 125 mm and above

Always Use ASTRAL Aquasafe® Solvent Fitted Pipes With Fittings
& For Joining Use ASTRAL uPVC Adhesive Solution



**RUBBER
LUBRICANT**

Always Use ASTRAL Aquasafe® Elastomeric Sealing Ring
Pipes with Fittings by using ASTRAL Rubber Lubricant



RINGFIT & SELFIT INSTALLATION PROCEDURE

RINGFIT JOINING METHOD



- 1. CUT PIPE:** Cut pipe square. As joints are sealed at the base of the fitting socket. An angled cut may result in joint failure.



- 2. REMOVE BURR AND BEVEL:** Remove all burr from inside and outside of pipe with a knife-edge file, or deburring tool. Chamfer (bevel) the end of the pipe 10° -15°.

CLEAN: Remove surface dirt, grease or moisture with a clean dry cloth.



- 3. INSERT PIPE:** Insert the pipe into the socket without the seal ring and mark along the pipe, when it is fully inserted.



- 4. FIX RUBBER RING:** Fix the rubber ring in the groove without twisting it.



- 5. APPLY LUBRICANT:** Apply jointing lubricant to the chamfered end of the pipe & on rubber ring up to the mark made on spigot or to the socket end of fitting.



- 6. JOIN PIPE AND FITTINGS:** Push the pipe firmly into the socket till the gap between the mark on the spigot and the socket is about 10 mm to allow thermal expansion.

SELFIT JOINING METHOD



- 1. CUT PIPE:** Cut pipe square. As joints are sealed at the base of the fitting socket. An angled cut may result in joint failure.



- 2. REMOVE BURR AND BEVEL:** Remove all burr from inside and outside of pipe with a knife-edge file, or deburring tool. Chamfer (bevel) the end of the pipe 10° -15°.

CLEAN: Remove surface dirt, grease or moisture with a clean dry cloth.



- 3. DRY FIT:** With light pressure, pipe should go one third to one half of the way into the fitting socket.

Pipes and fittings that are too tight or too loose should not be used.



- 4. APPLY SOLVENT CEMENT:** Apply a full even layer of cement to the outside of a pipe and medium layer of cement to the inside of a fitting.



- 5. JOIN PIPE AND FITTINGS:** Assemble pipe and fitting socket till it contacts socket bottom. Hold pipe and fitting together until the pipe does not back out. Remove excessive cement from the exterior. A perfect made joint will show a continuous bead of cement around the perimeter.



**ASTRAL[®]
PIPES**

ASTRAL POLY TECHNIK LIMITED

REGISTERED & CORPORATE OFFICE:

207/1, Astral House, B/h. Rajpath Club,
Off. S.G. Highway, Ahmedabad-380 059,
Gujarat, India.

Phone : +91 79 6621 2000

Fax : +91 79 6621 2121

E-mail : info@astralpipes.com

Website: www.astralpipes.com



BRANCH OFFICES:

Bengaluru	: (080) 2661 7236	bengaluru@astralpipes.com
Chennai	: (044) 4350 6384	chennai@astralpipes.com
Hyderabad	: (040) 2790 0023	hyderabad@astralpipes.com
Jaipur	: (0141) 2974 322	jaipur@astralpipes.com
Kochi	: (0484) 28097 98	kochi@astralpipes.com
Lucknow	: (0522) 2728 844	lucknow@astralpipes.com
Mumbai	: (022) 2838 9744	mumbai@astralpipes.com
New Delhi	: (011) 2616 8156	delhi@astralpipes.com
Pune	: (0) 844611 4455	pune@astralpipes.com
Indore	: (0731) 494 6661	indore@astralpipes.com
Kolkata	: (033) 4602 1104	kolkata@astralpipes.com

**ASTRAL TOLL FREE
1800 233 7957**

Please get in touch with us
between 10 a.m. to 6 p.m.

Authorised Dealer :

