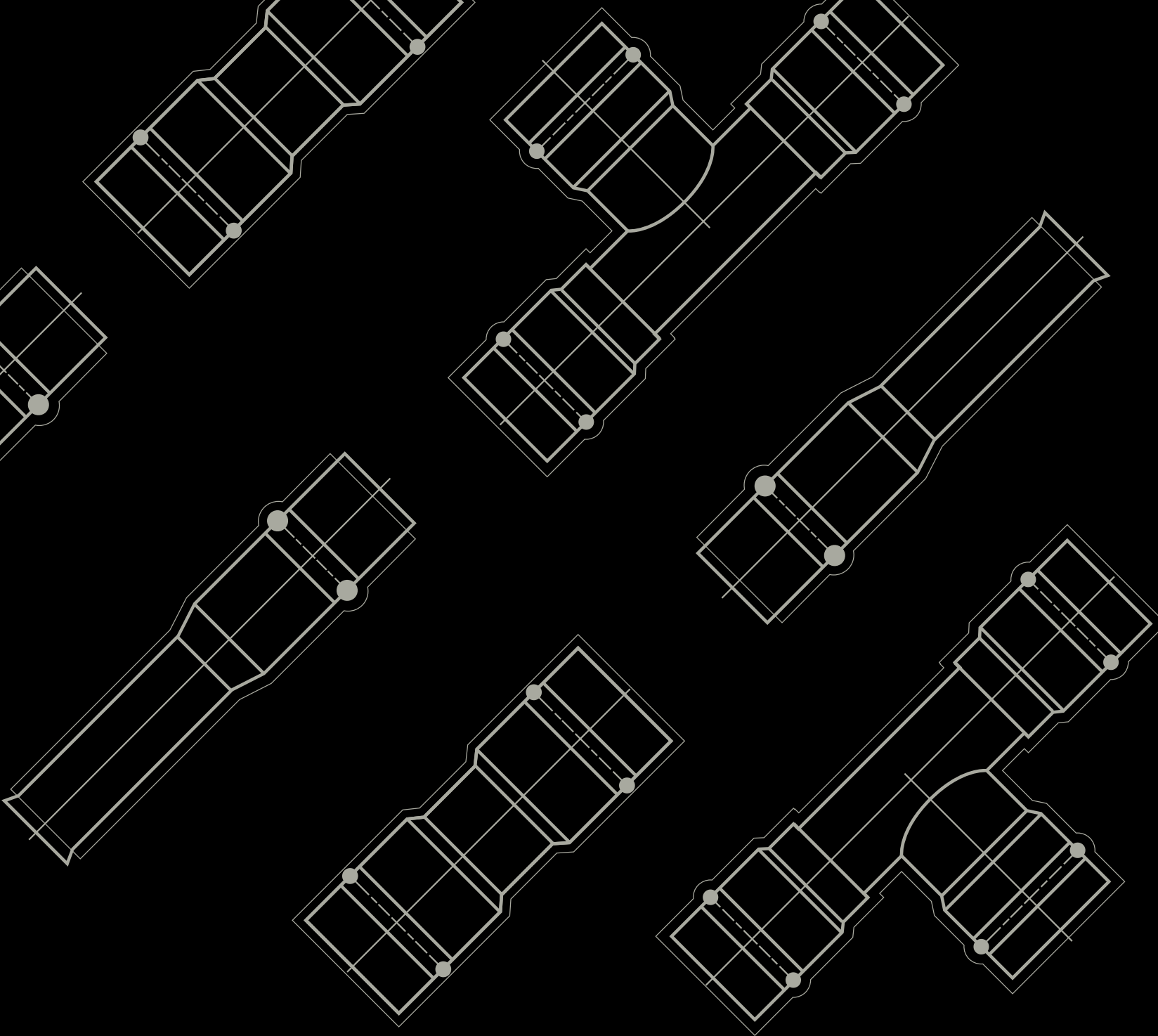


STELLAR **SANITär**





PIPE PERFECTION, EVERY CONNECTION

Rohrperfektion zu jeder Verbindung

At Stellar Sanitar we emphasize on the Philosophy of Perfection.

We aim to achieve impeccability in the world of plumbing for your exquisite space. With the mission of providing quintessential and sustainable solutions to the worlds plumbing challenges we have introduced Stainless Steel Plumbing System with Double Press V Technology designed in Germany.

The new age Plumbing System not only provides a paramount alternate to traditional Plastic Based plumbing but also ensures exceptional health benefits and perpetual lifespan.

What we offer with Perfect Plumbing Solutions



1. DISTINUGUISHED GERMAN DESIGN

Our German collaboration and Indian infrastructure with R&D facilities and labs ensures that our systems fulfills qualification tests and standards set by DVGW, WRAS, TUV and KIWA.



2. RAPID INSTALLATION

Press fit systems offers large time savings compared to welding, threading, grooving or chemical fixing.



3. TWO FACTOR SAFETY INSTALLATION FOR ZERO LEAK PLUMBING (First Time in India)

We have introduced first time in India a dual factor safety for SS plumbing systems ensuring no human or machine error and guarantee of Zero Leak Plumbing.



4. FULLY ANNEALED TUBES , FITTINGS AND SYSTEMS FOR SUPERIOR CORROSION RESISTANCE (First Time In India)

We are first in India to provide fully annealed tubes and systems , annealing process relaxes welding and manufacturing stress points in tubes and fittings which offers a much higher level of corrosion resistance in harsh water applications.



5. USE OF FOOD GRADE SUSTAINABLE GREEN METAL

Stainless steel is an infinitely recyclable green material and is the best option for drinking water supply systems.



6. SAFETY OF INSTALLATION WORKFORCE

We offer training of workforce to use single button battery powered tools to Install the systems and avoid any flames, heavy gas works, welding works or risky operation at site.

Double Press V Profile Fitting System

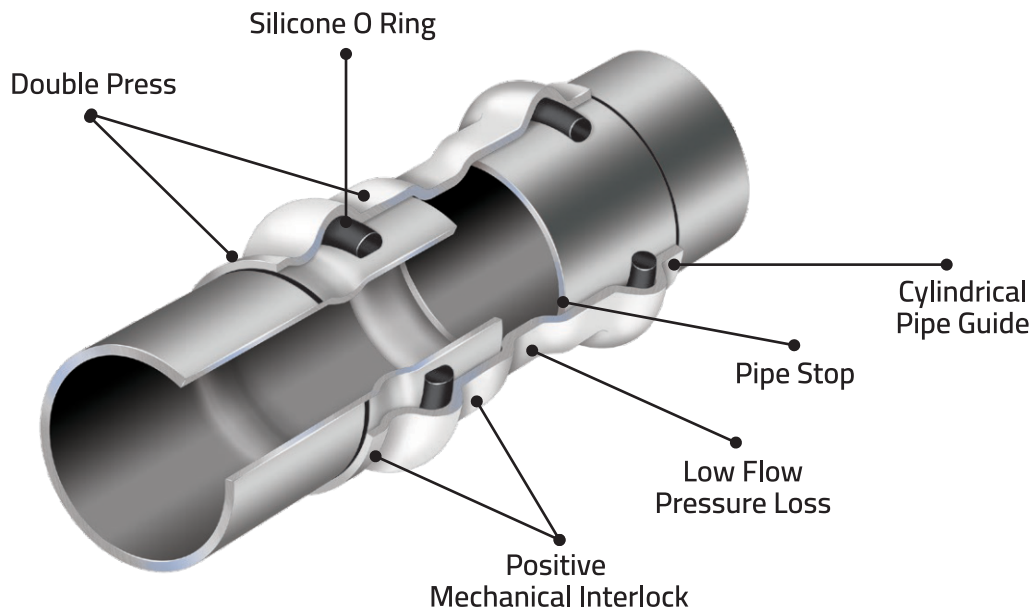
Double Press V Profile Fittings

Standard : DVGW W534

Material : Stainless Steel EN 1.4404 (316 L)

Sizes Available : § 15 to § 54





DOUBLE PRESS TECHNOLOGY

Double Press Technology makes two compression joints around the Bead in one work side of the fitting ensuring a perfect mechanical interlock around the Sealing O Ring.

SEALING O RING

Sealing O Ring is pressed in between two compression jaws to a pre defined shape which makes it a perfect seal to stop fluid flow through it. The O Ring is made of black EPDM (ethylene propylene diene) Rubber. It is suitable for temperature range of -20 to +110 degrees C and pressure of upto 20 bars. Black EPDM is best suited for potable water supply, heating and cooling systems, compressed air and Inert gas supply.

CYLINDRICAL PIPE GUIDE

To prevent damage to O Ring and ensure correct insertion of pipe inside the fitting, all fittings have a cylindrical pipe guide. This avoids any tapered insertion and damage to sealing element and the pipe and fitting are coaxial which guarantees a perfect compression Joint .

PIPE STOP

An Internal Pipe Stop locates Pipe Position to ensure correct Joining Position.

POSITIVE MECHANICAL INTERLOCK

With the help of our superior designed hand held press tool, the entire circumference of the fitting is engaged during compression which results in a secure attachment of pipe to fitting.

VERY LOW FLOW PRESSURE LOSS

The inner diameter of the presss fitting is the same as in the inner diameter of the pipe and the deformation of the pipe at the pressing points is small, so the flow and pressure loss at the pipe joint are small and negligible .

Zero Leak Guarrantee

First Time in India



Dual Factor Safety



PRESS DETECTION SLEEVE

Stellar Sanitar fittings have a unique black color press detection sleeve easily visible to human eye. This sleeve is designed in such a way that till the fitting is not compressed using a proper hand held tool the sleeve will not leave its position from joint seal pocket. Once the compression press has been applied the black color sleeve will be automatically cut with specially design press tool and leave its position to indicate that the compression press has been successfully done. With the help of press detection sleeve a simple visual Inspection can be done to check if any compression press has been missed because of human error on any fitting.



LEAK PATH TECHNOLOGY

Stellar Sanitar fittings adopts a leak path technology to check for leakage during pressure testing. The leak path arrangement guarantees that any unpressed connection becomes visible during pressure testing as fluid leaks out of the unpressed fitting connections. The leakage in unpressed connections can also be monitored with central leakage test by checking for pressure drop in the plumbing system.

Certification Standards

Our German collaboration and Indian infrastructure with R&D facilities and labs ensures that our systems fulfill qualification tests and standards set by DVGW, WRAS, TUV, KIWA and ISO





Stainless Steel Plumbing Tubes

EN1.4404 (316 L)

Stellar Sanitar provides stainless steel plumbing tubes in EN 1.4404 (316 L) grade. These tubes are fabricated as per ASTM 249, the material of the tubes are standardised as per DIN EN 10088 ,the sizes of the tubes are controlled as per DIN EN 10312 standards and the plumbing system is standardised as per DVGW W 541 and W 534.

SR #	Model	Grade	Outer Dia	Wall Thickness (As per EN STD)	Length	Dry Weight Kg / m	Wet Weight Kg / m	Volume l/m
1	Stainless Steel Tubes A249 - Model - SS/249/316-15	EN 1.4404 (316 L)	15.00 MM	1.0 MM	6000 MM	0.35	0.48	0.13
2	Stainless Steel Tubes A249 - Model - SS/249/316-22	EN 1.4404 (316 L)	22.00 MM	1.2 MM	6000 MM	0.62	0.92	0.3
3	Stainless Steel Tubes A249 - Model - SS/249/316-28	EN 1.4404 (316 L)	28.00 MM	1.2 MM	6000 MM	0.8	1.32	0.51
4	Stainless Steel Tubes A249 - Model - SS/249/316-35	EN 1.4404 (316 L)	35.00 MM	1.5 MM	6000 MM	1.25	2.06	0.8
5	Stainless Steel Tubes A249 - Model - SS/249/316-42	EN 1.4404 (316 L)	42.00 MM	1.5 MM	6000 MM	1.52	2.71	1.19
6	Stainless Steel Tubes A249 - Model - SS/249/316-54	EN 1.4404 (316 L)	54.00 MM	1.5 MM	6000 MM	1.97	4.01	2.04

Fully Annealed Stainless Steel Tubes

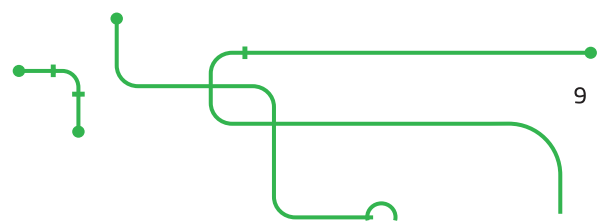
Superior Corrosion Resistance - Designed and Customised for India

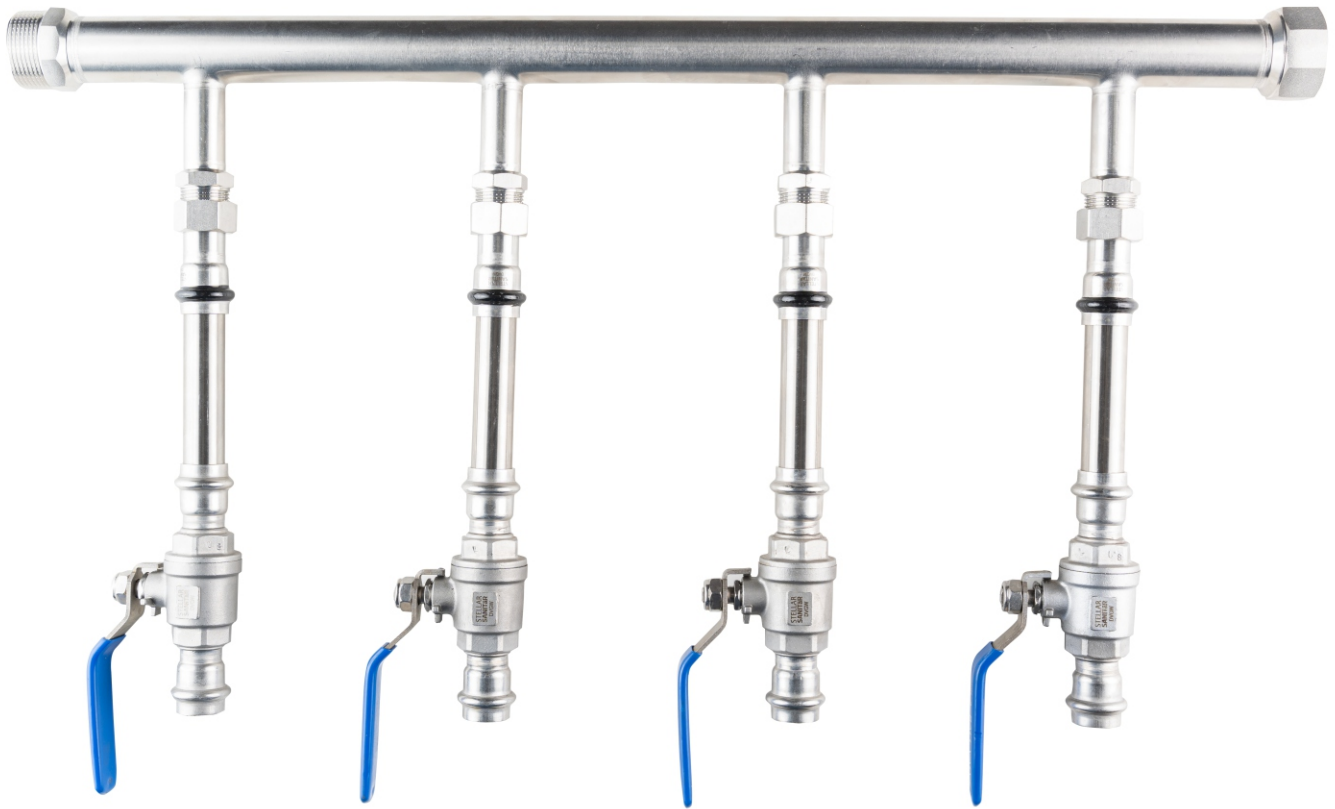
STELLAR **SANITär** STAINLESS STEEL TUBE ASTM 249 316 L (ANNEALED) 15 MM OD

15 MM OD 1MM THK (EN STANDARD) 6000 MM L HEAT NO. STV-000XX001 MADE IN INDIA

At Stellar Sanitar we understand that water quality can differ accross different suburbs, cities and states of our country. Corrosion or pitting in stainless steel is caused by harsh water quality or water with high chloride levels, it is for this reason that Stellar Sanitar has introduced Fully Annealed Tubes for our stainless steel press fit systems.

Annealing of stainless steel is paramount specially in applications where corrosion resistance is necessary. During the process of annealing the stainless steel tubes are subjected to high temperatures of 1040 Degree C and cooled rapidly. This process removes manufacturing and weld related stresses from the tubes which are the starting point for pitting corrosion.



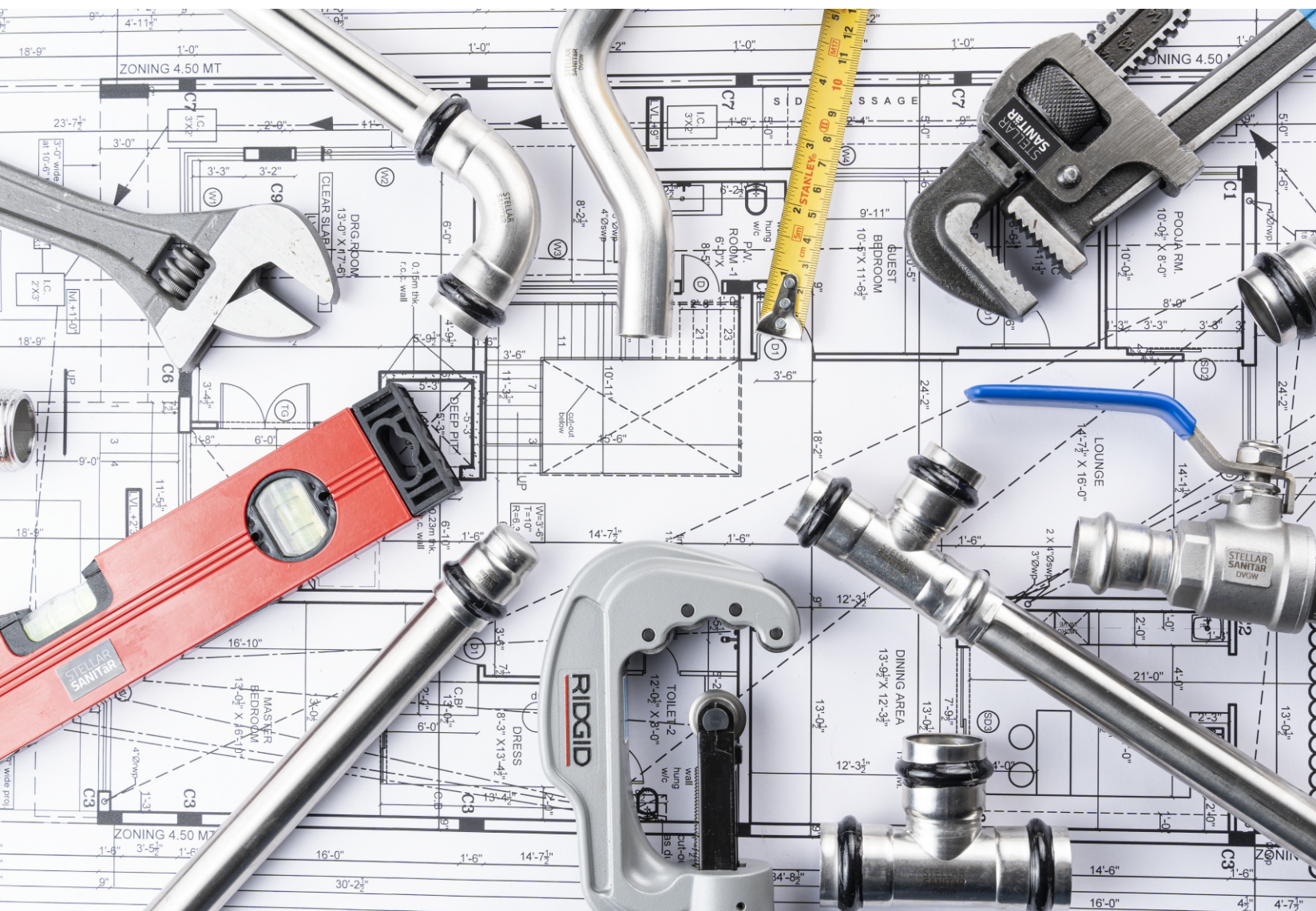


Stainless Steel Plumbing Manifold

Stainless steel plumbing manifolds are used to distribute hot and cold fluids to different utility points in your space. An inlet pipe runs from your storage tank to the distribution manifold and multiple pipes run from manifold to individual utility area such as kitchen, spa, washing area, washrooms. With the help of distribution manifolds we can isolate fluid supply to a particular area without affecting the supply to other areas.

Advantages of Manifold Distribution System

- Minimal Plumbing
- Easy Installation Process
- Minimum Pressure Drop when multiple fixtures are used.
- Cost Effective in comparison to headers made on site.
- Time Saving and Robust Installation
- Factory Tested for any Leakage
- Fully Annealed Post Fabrication - Offers High Corrosion Resistance.

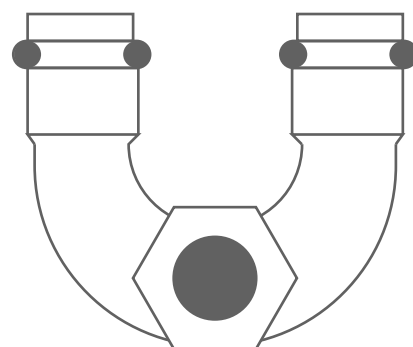


System Design Support

At Stellar Sanitar we understand that stainless steel plumbing system is a new age technology and requires awareness and cognition at all levels. We have initiated a program to assist our customers, architects, contractors and designers with Plumbing System Design and Installation Support .

Advantages of System Plumbing Design

- Wise and Judicious Use of SS Pipes and Fittings
- Calculation of Overall Project Cost
- To have consistant water flow across all utility points
- To have minimum pressure drop across all utility points
- Design of Continous Loop Reverse Lines for Steady Hot Water Flow
- Overall Savings of Cost and Time



Guidelines for Tool Use



STEP 1: MEASUREMENT

- Measure the tube length as per the application requirement.
- Make sure to take into account the insertion depth of fitting in measured length.



STEP 2: TUBE CUTTING

- Cut the tube only using a tube cutter with blade suitable for stainless steel tubes.
- Abrasive cutting wheels and high temperature gas cutters should not be used.



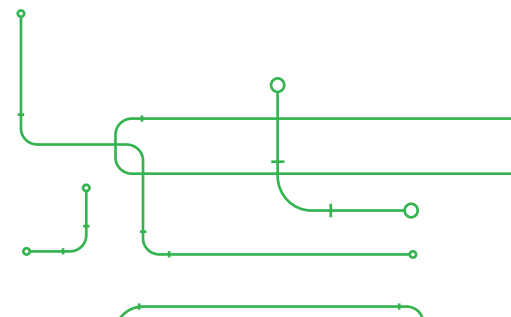
STEP 3: DEBURRING

- Deburr the inside & outside edges of tube ends.
- If tube ends are not smoothed using the correct deburring tool, there are chances of gasket being cut by tube ends.



STEP 4: PLACEMENT OF TUBE IN FITTING

- Insert the tube into the cylindrical pipe guide of the fitting till the pipe stop arrangement.
- Soapy water can be used if there is surface resistance during joining.





STEP 5: MARKING

- Mark the insertion depth on the tube edge to gauge the depth of the cylindrical tube guide.
- This marking is a visual quality measure to ensure that tube is fully inserted.



STEP 6: PREPARE THE PRESS MACHINE

- Prepare the press machine by fixing the correct size Jaw with the press machine.
- Make sure that batteries of the machines are charged and inside jaw area is clean and free of any foreign particles.



STEP 7: PLACEMENT OF JAW OVER FITTING

- Align the press jaw of correct size over the unpressed seal pocket collar.
- The machine jaw axis should always be at 90 degrees to tube and fitting axis to ensure a proper press.



STEP 8: FINISHED PRESS JOINT

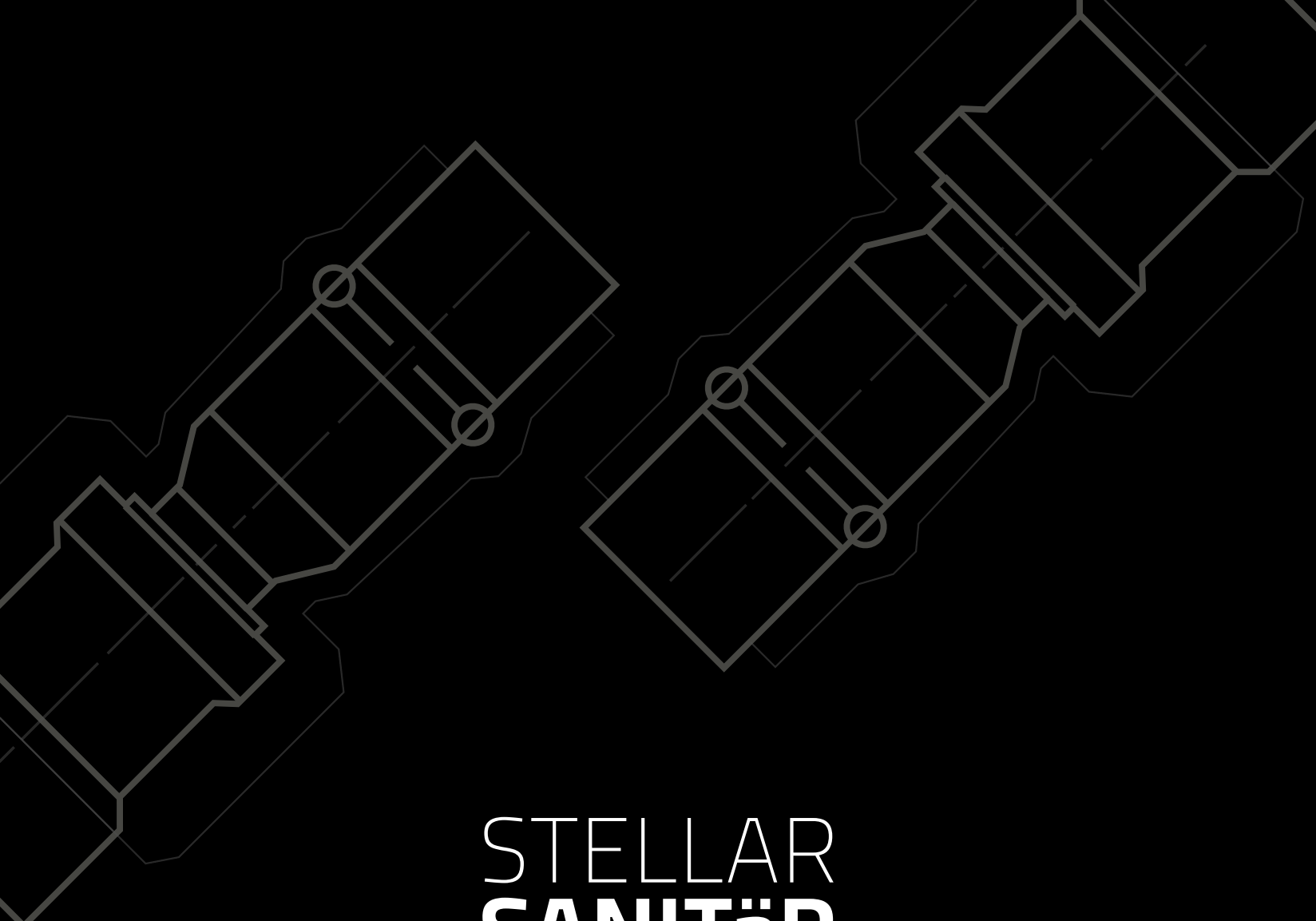
- Finish the pressing operation by pressing and holding the press button on the machine.
- The machine will initiate the press joint and will automatically retract to normal position once the press is complete.
- The press detection sleeve will wear off to indicate pressing.

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Notes

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