STUDOR®

IPS CORPORATION

CHEM-VENT®

The CHEM-VENT®

Manufactured specifically for Acid Waste systems

- Material is NSF 014 and ASTM D-4101 compliant
- NSF certified to meet all performance standard of ASSE 1051
- Designed and tested to operate in temperature up to 210º F
- High temp/chemical resistance EPDM sealing o-ring

The CHEM-VENT®

Simplify venting of ‘island sink’ chemical basins installations in Labs while providing proper and instant protection against negative pressure

MATERIAL

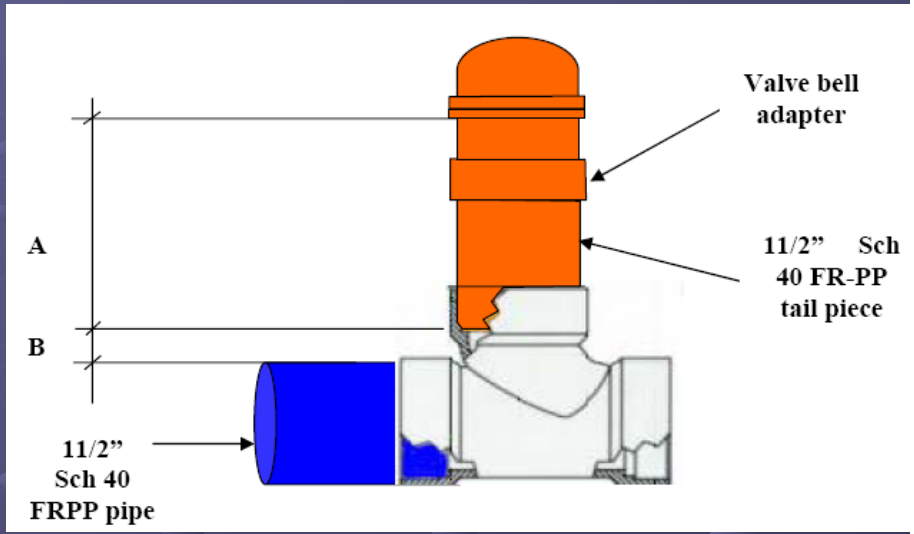
Flame Retardant Polypropylene (FR-PP)

- The material of choice in Acid Waste for the last 20 years
- Excellent resistance to chemicals and solvents
- Capable of handling exothermic reactions
- Durable & easy to install

Product:	CHEM-VENT		
Material of construction	Flame retardant Polypropylene		
O-ring material	Ethylene Propylene Diene Monomer		
MECHANICAL			
Property	**Typical Data**	**Unit**	**Method**
Tensile Modulus, 2.0 in/mm	4400	psi	ASTM D 638
Flexural Modulus	215,000	psi	ASTM D 790
Hardness, Rockwell R	100		ASTM D 1706
IMPACT			
Property	**Typical Data**	**Unit**	**Method**
Izod Impact, notched,	1.0	ft\lb/in	ASTM D 256
PHYSICAL			
Property	**Typical Data**	**Unit**	**Method**
Specific Gravity, solid	0.94		ASTM D 1505
Water Absorption 24 hrs.	0.01	%	ASTM D 570
THERMAL			
Property	**Typical Data**	**Unit**	**Method**
Coefficient of Linear Expansion	6x10-5	in/in/F	ASTM D 696
Heat Deflection Temperature@66psi load	220-240	F	ASTM D 648
Heat Deflection Temperature@264psi load	195	F	ASTM D 648
FLAME CHARACTERISTICS			
Property	**Typical Data**	**Unit**	**Method**
Time of Burning	< 5	sec	ASTM D 635
Extent of Burning	< 5	mm	—
Burning Class	V2		UL 94
Maximum Smoke Density	62.0	—	ASTM D 2843
Smoke Density Rating	40.1	—	
Oxygen Index	28	%	ASTM D 2863

DESIGN FEATURE

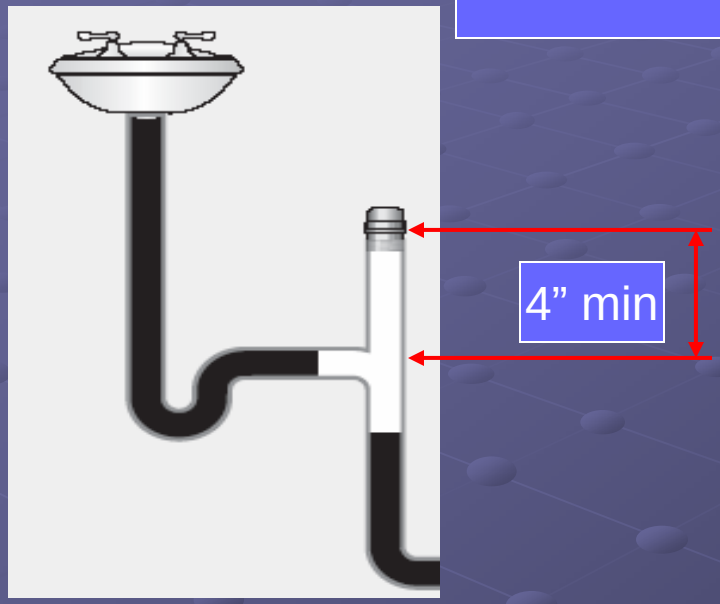
The CHEM-VENT®



- Purposely designed for Acid Waste systems installation
- Direct mount on <u>any</u> molded FR-PP sanitary Tee
- Usable with either Mechanical Joint or Electrofusion FR-PP fittings
- Easily adaptable to CPVC, glass, PVDF or Duriron® systems

DESIGN FEATURE

Must be located a minimum of 4” above the arm of the trap

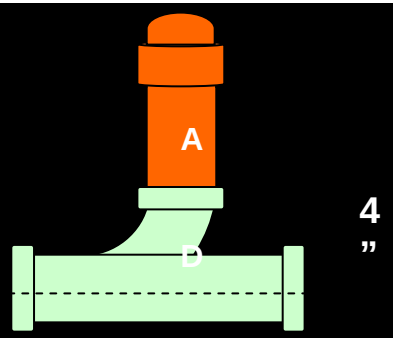


Extended tailpiece assures the 4” minimum requirement

- **Patented Studor screen keeps ‘business end’ of the valve clean**

- **High chemical resistant EPDM O-ring is used**

CONNECTING TO THE SYSTEM



FR-PP & PP systems

Will directly mount to molded sanitary Tees manufactured by: IPEX-GF/SLOANE-ORION-ZURN

<u>Electrofusion</u>

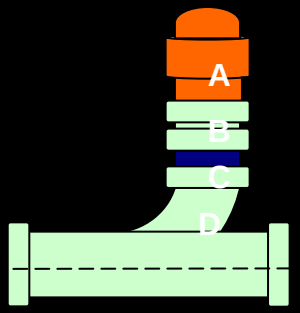
Preparation, assembly, clamping and machine programming shall strictly follow the fitting manufacturer instructions for a single (or multiple if other fittings are simultaneously welded) 11/2” pipe to fitting weld.

<u>Mechanical Joints</u>

Preparation (e.g. grooving) and assembly shall strictly follow the fitting manufacturer instructions for an 11/2” MJ pipe to fitting connection.

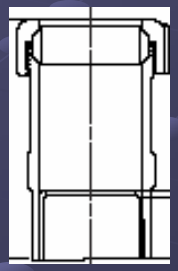
In both cases <u>no special equipment</u> other than what supplied by the fitting manufacturer is required.

CONNECTING TO THE SYSTEM



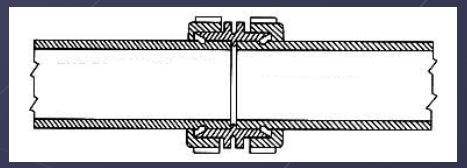
CPVC systems

The CHEM-VENT® can be easily installed on molded sanitary Tees manufactured by: SPEARS – CHARLOTTE PIPE



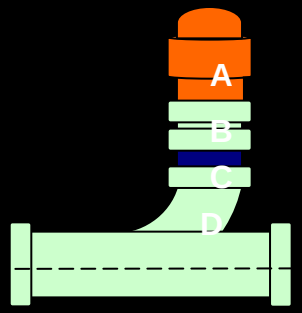
SPEARS (LabWaste™)
Using the special PP pipe adapter offered by this manufacturer.

CHARLOTTE (ChemDrain ™)
Solvent/cementing a small CPVC pup piece into the side socket of the Tee and then connecting that spigot to the valve’s tail piece with a no-hub coupling or special MJ adapter.



The CHEM-VENT® will <u>meet or exceed</u> operational temperature & chem. resistance parameters of CPVC systems

CONNECTING TO THE SYSTEM



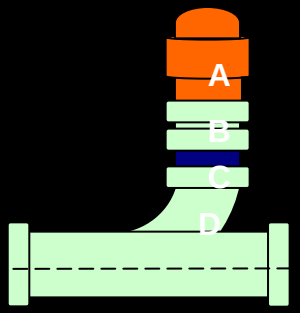
GLASS systems

The CHEM-VENT® can be easily installed on borocilicate glass sanitary Tee manufactured by Schott or CheFlowtronics

All that is needed to install The CHEM-VENT® on a Kimax™ (Schott) or Borodrain™ (ChemFlwotronics) Tee is a glass/PP adapter offered by all FR-PP acid waste system manufacturers.

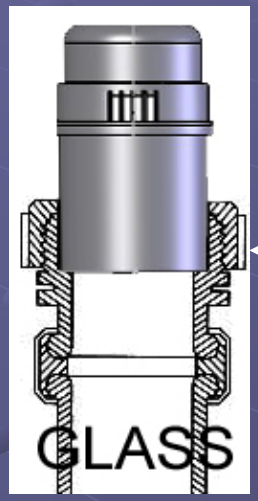
Although the CHEM-VENT® will easily meet most operational temperature & chem. resistance parameters of applications using glass, this may not always be the case. Studor should be consulted before a CHEM-VENT® is installed on a glass system.

CONNECTING TO THE SYSTEM

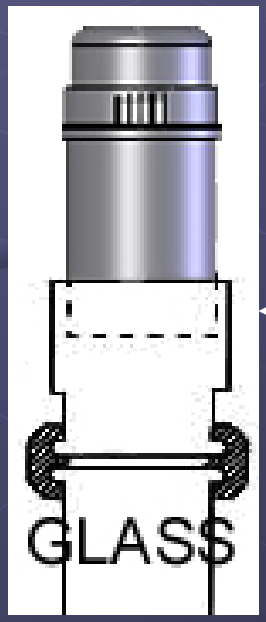


GLASS systems

The CHEM-VENT® can be easily installed on borocilicate glass systems

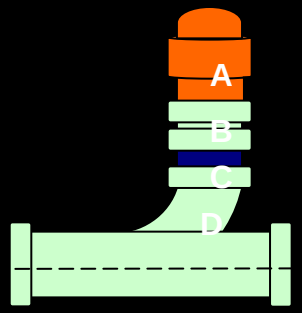


MJ glass adapter



Electrofusion glass adapter

CONNECTING TO THE SYSTEM



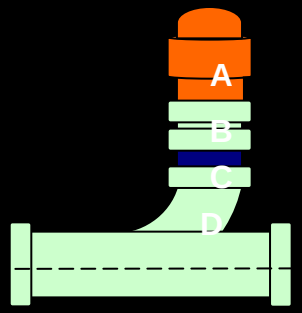
FR-PVDF systems

Will directly mount to molded MJ sanitary Tees manufactured by: IPEX-GF/SLOANE-ORION-ZURN

Although the CHEM-VENT® will easily meet most operational temperature & chem. resistance parameters of applications using FR-PVDF, this may not always be the case. Studor should be consulted before a CHEM-VENT® is installed on a FR- PVDF system.

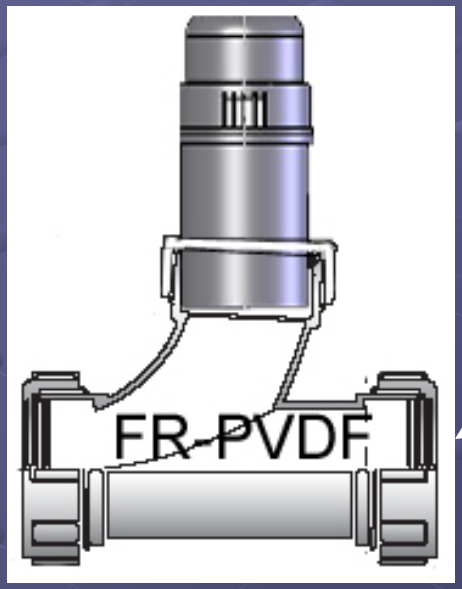
The CHEM-VENT® CANNOT BE USED IN PLENUM DESIGNATED AREAS

CONNECTING TO THE SYSTEM



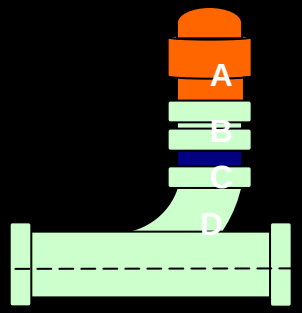
FR-PVDF systems

The CHEM-VENT® can be easily installed on FR- PVDF systems



MJ FR-PVDF Sanitary Tee

CONNECTING TO THE SYSTEM



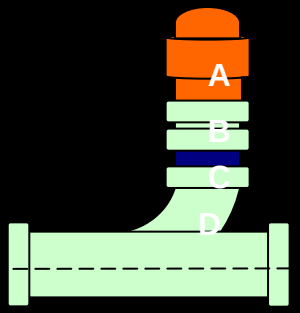
DURIRON systems

The CHEM-VENT® can be easily installed on silicon/iron cast alloy systems

All that is needed to install The CHEM-VENT® on a Duriron MJ or bell & spigot Tee is one of two adapters commercially available either through Duriron itself or all FR-PP acid waste system manufacturers.

The CHEM-VENT® will meet or exceed operational requirements (especially chem. resistance) of <u>most</u> systems using Duriron pipe & fittings.

CONNECTING TO THE SYSTEM



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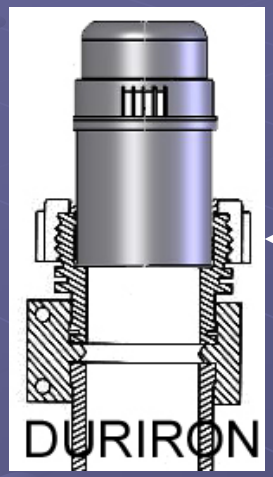
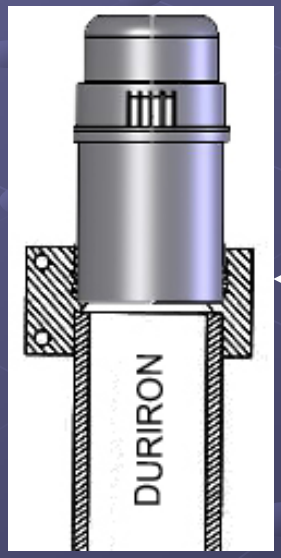
DURIRON systems

The CHEM-VENT® can be easily installed on silicon/iron cast alloy systems



MJ PP adapter + No-hub coupling



MJ glass adapter

Score pipe; use asbestos rope or acid resistant oakum; caulk with hot led, led wool or caulking cement

SELECTION PARAMETERS

The use of the CHEM-VENT® is:

Recommended: in Acid Waste systems when: FR-PP, PP, CPVC or DURIRON pipe & fittings are installed

Conditionally recommended: in Acid Waste systems when: Glass or FR- PVDF pipe & fittings are installed If FR-PP is deemed resistant to the chemical waste in a glass system, the Chem-Vent can be used on glass systems unless the system is installed in a return air plenum.

Not recommended: In Plenum rated areas or on systems which couldn't be otherwise vented to open air without the use of filtration in order to retain organic or inorganic compounds which, if inhaled in the concentrations and proportions found inside the piping system, would be harmful to humans or animals.

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