



SCHOTT  
glass made of ideas

KIMAX®

Laboratory Glass Drain and  
Vent Systems

SCHOTT is an international technology group with more than 125 years of experience in the areas of specialty glasses and materials and advanced technologies. With our high-quality products and intelligent solutions, we contribute to our customers' success and make SCHOTT part of everyone's life.

With a production capacity of more than 140,000 tons and production sites in Europe, South America and Asia, SCHOTT's business segment Tubing is one of the world's leading manufacturers of glass tubes, rods and profiles. Approximately 60 glass types are produced in large external diameters and a variety of lengths based on site-overlapping strategies in development, production and quality assurance. SCHOTT Tubing provides customized products and services for international growth markets such as pharmaceuticals and electronics as well as industrial and environmental engineering.

## KIMAX® Drainline Piping Systems for Drain and Vent Applications

This catalog contains performance, engineering, installation and specification data for KIMAX® Glass Drain and Vent Systems manufactured by SCHOTT.

KIMAX® Drainline Systems are designed for gravity flow. Borosilicate glass pipe and fittings are joined with bead-to-bead and bead-to-plain end compression couplings in diameters 1½" through 6". Detailed installation instructions are offered in the KIMAX glass drainline installation guide. For application and installation assistance, contact your local KIMAX Drainline distributor or SCHOTT North America, Inc.

With over 45 years of uninterrupted manufacturing and sales of KIMAX Systems, the use of glass drain and vent systems continues to grow. More and more specifiers, building owners and contractors recognize that glass pipe systems will not corrode, will not burn or emit toxic fumes, are easy to handle and install, and offer the best value per dollar.

For drainline installation data, see separate catalog.



## KIMAX® Glass Drainlines Eliminate Drain and Vent Problems

Yes, the projected service life of KIMAX® Glass Drainlines is as long as the life of the building itself. KIMAX Glass Drainlines are the most cost-effective, corrosion-resistant and long-lasting materials available for drain and vent lines.

Made of borosilicate glass – the same type of glass used for laboratory glassware – KIMAX Glass Drainlines are impervious to almost every corrosive and reagent known. Acids that would destroy most plastics have no effect on KIMAX Glass Drainlines.

KIMAX Glass Drainlines are transparent, so you can find blockages easily. They're rugged too. KIMAX Glass Drainlines hold up to physical conditions that would destroy most plastic drainlines. KIMAX Glass Drainlines can handle liquids as hot as boiling water; they won't burn; and they won't melt or soften like many plastics. They are UL classified and even meet ASTM specifications for underground service.

KIMAX Glass Drainlines are used in research, teaching and industrial laboratories; hospitals; and chemical, food and other processing plants.

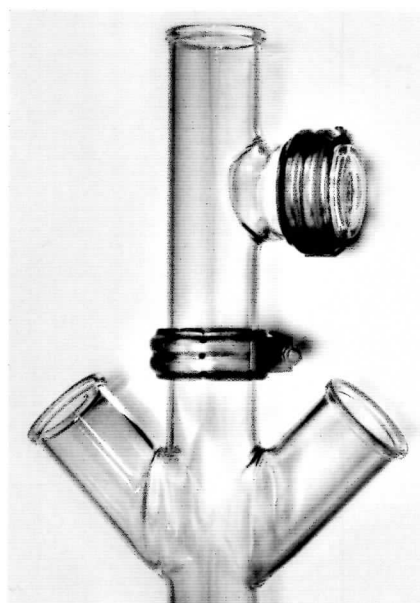
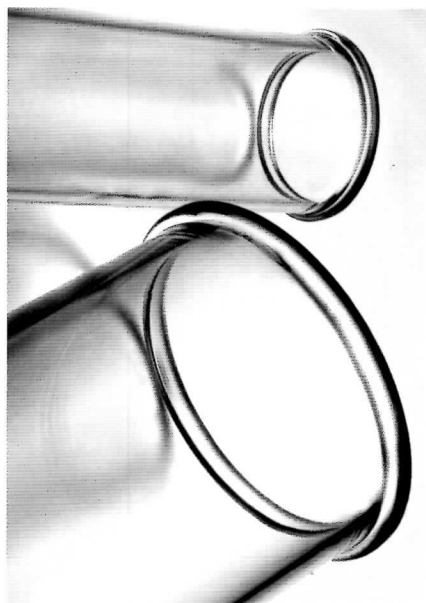
### Firewalls Stay Firewalls with KIMAX Glass Drainline.

Laboratories can be hazardous. In fact, the National Fire Protection Association classifies all laboratories as hazardous areas and requires that they be segregated with minimum one-hour fire walls and floors. But, laboratory drainlines and vents must penetrate these floors and walls.

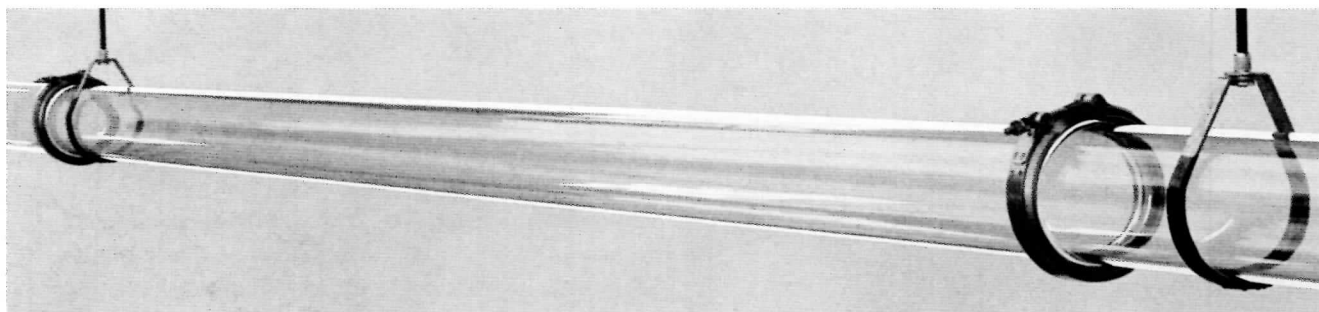
KIMAX Glass Drain and Vent Systems are Underwriter's Laboratory approved for Through Penetrating Firestops. Installed with firestop sealant, KIMAX corrosive resistant drain and vent systems meet UL Standard for Safety UL 1479 and its equivalent ASTM E-814.

Unlike plastic pipe, KIMAX Glass Drainlines don't burn or give off toxic vapors. If the fire is hot enough, KIMAX will sag and "tear drop", sealing itself and confining the fire.

KIMAX Glass Drainline Systems are the original UL classified approved drain and vent line for Through Penetrating Firestops. With our technology leadership and commitment to safety, SCHOTT is continuing to develop improved, cost-effective UL-approved drain and vent systems.







KIMAX Glass Pipe requires less hangers than polypropylene and high silicon iron pipes – only one hanger every 8 to 10 feet.

### KIMAX® Glass Drainlines Installation is Simple

**Joints are easy to make, rugged and reliable:** Installing KIMAX Glass Drainlines is fast and inexpensive – even faster and less costly than less effective materials like polypropylene pipe. Here's why:

- Glass pipe is lightweight and doesn't sag, even when it's hot. So it requires fewer hangers than high silicon iron or plastic pipes. The recommended hanger spacing for all sizes of KIMAX Glass Drainlines is every 8–10'. Polypropylene pipe manufacturers recommend hangers every 4–6' depending on the pipe diameter.
- Since glass pipe has a low coefficient of expansion, no expansion loops or joints are needed. Its coefficient of expansion – 0.2"/100 ft/100°F – is lower than any other drainline material. Polypropylene pipe needs expansion joints and/or loops.
- The UL classified firewall penetration system is simple, easy to install and effective.
- Couplings for KIMAX Glass Drainlines require no field beading, welding or fusion. To assemble a drain or vent system with the KIMAX bead-to-plain coupling, the pipe is merely cut, inserted into the coupling, and a bolt is tightened. The two pieces of pipe can even be up to 4° out of line.

The installed cost of a KIMAX Glass Drainline system is cost-competitive and often less expensive than other drainline systems.

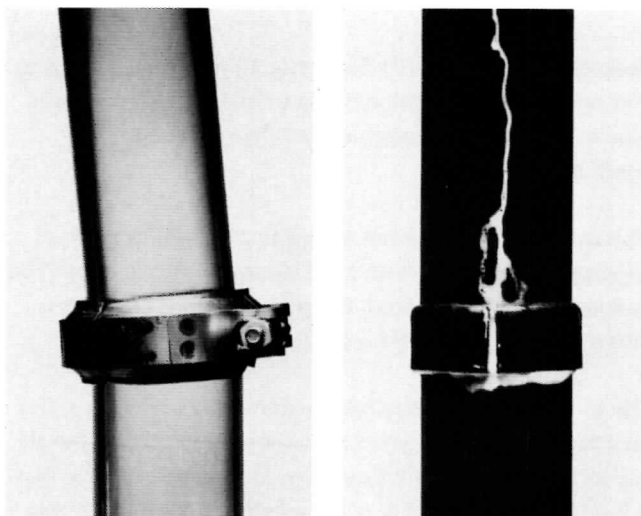
### Caution:

Suitable safeguards for equipment and personnel must be provided when glass pipe is used under gas pressure, due to the potential energy of gases under pressure or vacuum.

### KIMAX® Glass Drainline Couplings – Quick and Secure

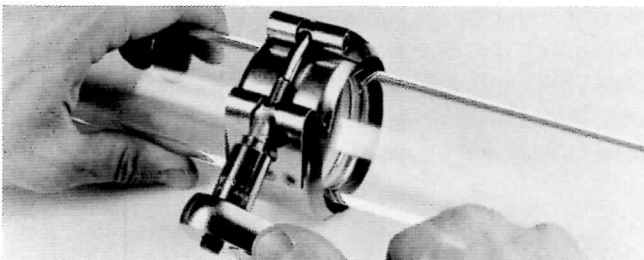
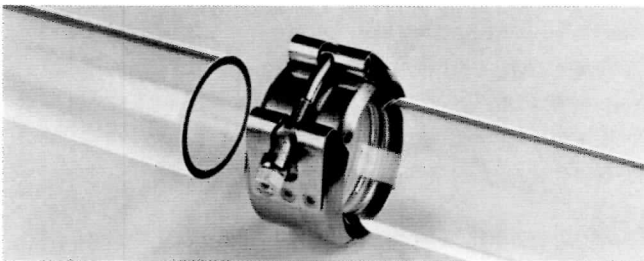
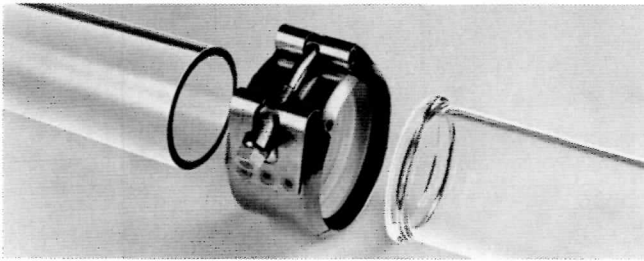
Two types of couplings are used to join KIMAX® Glass Drainline pipes and fittings – bead-to-bead and bead-to-plain end. Both types have a 300-series stainless steel outer shell, a Buna-N compression liner, and a TFE seal ring. With a KIMAX Coupling, only glass and TFE contact the fluid.

**Bead-to-bead (B/B) Couplings** are formed by placing the two beaded drainline ends into a coupling and tightening the bolt. This type of coupling is normally used when installing long runs of pipe that require no cutting. KIMAX Glass Drainline comes from the factory with a bead on each end. When the pipe must be cut in the field, use the KIMAX Bead-to-Plain end Coupling.



Left: KIMAX Couplings provide leak-free seals even when deflected up to 4°.

Right: Plastic systems do not provide joint deflection capability.



Joining KIMAX Pipe with bead-to-plain end coupling.

**Bead-to-plain end (B/P) Couplings** eliminate field beading and are applied when pipe needs to be field cut. Only one pipe or fitting end requires a bead. The other pipe end needs only to be cut.

To form a B/P joint, the outside edge of the cut pipe is wiped with an emery cloth to eliminate the sharp edge. The beaded pipe end is wetted, the two pipe ends are placed into the coupling, and the bolt tightened.

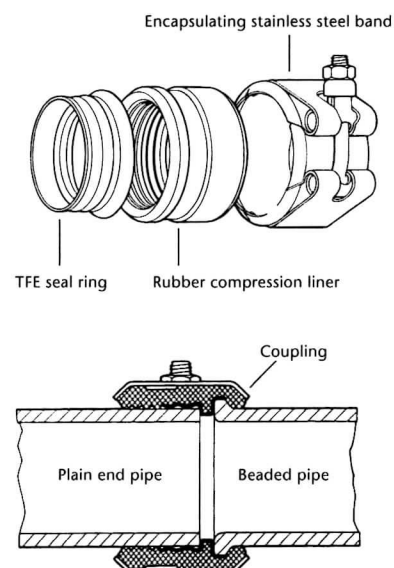
The KIMAX B/P Coupling has performed successfully in the field for more than 30 years, including underground installations. With KIMAX B/P Couplings, installation labor is minimized and the possibility of error in forming a bead in the field is eliminated.

All couplings are not alike. KIMAX B/P Couplings are designed to stand up to harsh operating conditions. Tested by an independent testing laboratory, KIMAX B/P Couplings were found to be sound even after simulated 20-year testing.

#### KIMAX® B/P Couplings Passed the Following Tests

- **Simulated 20-year underground corrosion test:** Immersion in hydrochloric, nitric and sulfuric acid (pH of 2.6) or sodium hydroxide (pH of 8.0) for 15 days at 186°F, KIMAX B/P Couplings still did not leak and retained their strength. They will not pull apart, even with a 375-pound pull force.
- **Thermocycle test:** With the two pipes deflected 4°, the KIMAX B/P Coupling was subjected to thermocycles from 0°F to 200°F. A 25 psi pressure check showed no leakage after any of the temperature cycles, and a 375-pound pull would not pull the coupling apart.
- **Deflection testing:** While under 25 psi internal pressure, the coupling was flexed over its 4° deflection range 15,000 times. No leakage occurred and the coupling still would not pull apart with a 375-pound pull.

(Details of the B/P coupling tests, performed by Pittsburgh Testing Laboratories, are available upon request.)



KIMAX Bead-to-Plain end Coupling components.

### **KIMAX® Glass Drainlines for Long-Lasting, Durable Underground Installations**

The toughness and durability of KIMAX® Glass Drainline is demonstrated by its superior performance in thousands of underground installations. Underground drains have more exacting performance criteria than above-ground drains.

KIMAX Glass Pipe is corrosion resistant, it can handle future anticipated requirements. And glass pipe is not affected by external corrosion either. KIMAX Glass Drainlines are unaffected by lime, moisture, and other materials in the soil. The smooth, non-porous surface of a KIMAX Glass Drainline minimizes plugging and scale build-up – an important feature for buried pipe.

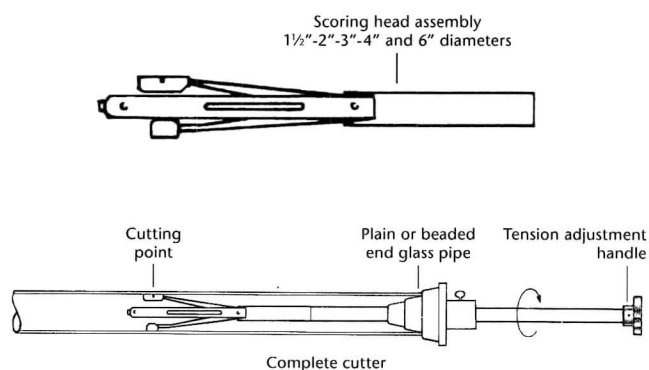
KIMAX Glass Drainlines are also tough enough to withstand the rigors of underground installation methods. EPS\*-covered KIMAX Glass Drainlines meet or exceed ASTM requirements for buried heavy schedule cast iron pipe. EPS-covered KIMAX Glass Drainline passes the ASTM three-edge bearing test, the impact test, and the earth loading test. (Testing report from Pittsburgh Testing Laboratory available upon request.)

KIMAX B/P Couplings not only resist internal and external corrosion, but their ability to deflect up to 4° without leaking allows buried KIMAX Glass Drainlines to flex with shifting ground conditions.

### **KIMAX Pipe Cutting Tools Reduce Contractor Installation Costs**

KIMAX Cutting Tools enable contractors to quickly field cut special lengths of 1½" through 6" drainline pipe.

Additional information on field cutting tools is available by contacting your local KIMAX distributor or SCHOTT North America, Inc. Also see page 23 of this catalog.



\*EPS is Expanded Polystyrene

# Guide Specifications

## Long Form: Acid Waste Drain and Vent Piping System

### I. General:

- a) Contractor shall furnish and install a complete acid waste drain and vent system as indicated. This system shall be made of U.L. Classified borosilicate glass conforming to ASTM Specification C 1053-90, Federal Specification DD-G-541 B and Military Specification MIL-P-22561 B (YD) as manufactured under the trade name "KIMAX®" by SCHOTT.
- b) This system shall include all glass straight lengths, fittings, and traps, compression type tetra-fluoroethylene lined couplings, and padded hanger supports. It shall also include protected pipe for underground burial and recommended adapter couplings to connect other piping material, where applicable.
- c) All pipe shall be installed free of strain, in a manner to permit limited movement. Padded pipe hangers shall be used on horizontal runs 8' to 10' on centers. Vertical risers shall be supported by padded riser clamps designed to restrict lateral and downward movement. Vertical risers

of 1½" and 2" may be supported at every other floor level. 3", 4" and 6" shall be supported at every floor level.

### II. Connections

- a) Glass-to-glass connections shall be made with KIMAX® compression type bead-to-bead and bead-to-plain end couplings – article numbers 6650 and 6661 respectively. Coupling's outer shell, bolt and nut to be made from 300 series stainless steel. Bead-to-plain end coupling outer shell must encapsulate compression liner to prevent cold flow and ensure leak-free joint. Coupling compression liner to be made from Buna-N-Rubber. Seal ring gasket to be made of tetra-fluoro ethylene. When installed according to the manufacturer's recommendations, they shall provide a leak-free joint when deflected up to 4°.
- b) Joints between glass and other types of piping material shall be made with KIMAX Adapters, and/or according to manufacturer's recommendations.





### III. Floor and wall penetrations

- a) Glass pipe passing through non-fire rated walls or floor slabs shall be fitted with pipe sleeves a minimum of 2" greater diameter than the pipe O.D. Space between pipe and sleeve shall be packed with fiber glass, glass wool and/or a non-hardening approved caulking material.
- b) Glass pipe passing through fire-rated walls or floor slabs shall be installed in accordance with Underwriters Laboratory fire penetration systems for KIMAX® Glass Pipe. System numbers listed in the U.L. Fire Resistance Directory include: C-AJ-2006, 2014, 2019, 2039, 2079, 2094, 2118, 2144, 8005, 8035; W-J-2032; W-L-2006, 2112, 2114.
- c) Glass pipe shall not be installed in direct contact with concrete. Fiber glass insulation or other type padding as approved by the pipe manufacturer shall be used to insulate between the two materials.
- d) Glass pipe shall be protected against all weld spatter.

### IV. Installation and testing

Install and test in accordance with manufacturer's recommendations and national and/or local code requirements.

### V. Underground pipe

- a) Excavation – shall conform to National Plumbing Code A 40.8 Section 2.7.
  1. Bottom of trench shall be properly compacted, graded, and the pipe supported throughout its entire length.
  2. A minimum of 4" of properly compacted rock-free sand or soil shall be used directly under the pipe.
- b) Buried Pipe
  1. Pipe shall be 6502 series – 5-ft. lengths covered with expanded polystyrene.
  2. All underground fittings shall be protected prior to back-filling by wrapping in polyvinyl film (5 mil), Scotch Wrap or J.M. Trans-Tex or approved equal.
- c) Backfill
 

Pipe trench shall be back-filled and tamped with rock-free sand or soil to 12" above top of pipe. Where space does not permit a minimum 12" cover, additional protection must be provided to protect pipe against crushing loads, except when buried under protective concrete slab.

### VI. Laboratory sink connection

Sink outlets, tailpieces, traps and cup sinks shall be KIMAX Borosilicate Glass.

#### Short Form: Acid Waste Drain and Vent Piping System

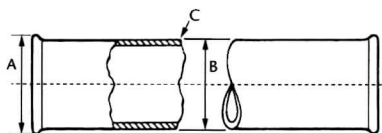
System shall be made of KIMAX U.L. Classified borosilicate glass and conforming to ASTM Specification C 1053-90, Federal Specification DD-G-541-B and Military Specification MIL-P-22561-B (YD) as manufactured by SCHOTT. Glass-to-glass connections shall be made with KIMAX compression type bead-to-bead and bead-to-plain end couplings – article numbers 6650 and 6661 respectively. Coupling's outer shell, bolt and nut to be made from 300 series stainless steel. Bead-to-plain end coupling outer shell must encapsulate compression liner to prevent cold flow and ensure leak-free joint. Inner seal ring is made of tetra-fluoroethylene. System shall be installed in accordance with the manufacturer's recommendations and the governing plumbing code.

**Underground Glass Pipe:** Excavation shall conform to National Plumbing Code A 40.8 Section 2.7. Bottom of trench shall consist of a minimum 4" of rock-free sand or soil, compacted and graded to provide uniform full length support. Back-fill with rock-free sand and/or soil to 12" above pipe. When the above conditions cannot be met, consult the manufacturer for recommendations. KIMAX Protected Pipe, and wrapped fittings shall be installed and back-filled in accordance with the manufacturer's instructions and governing plumbing code.

# Pipe and Fittings

Standard lengths of KIMAX® Drainline Pipe are 5 feet and 10 feet. Special lengths (both ends beaded) are available on request.

## 6500 5-FT. LENGTHS 6501 10-FT. LENGTHS



| Size | Weight lbs./ft. | A    | B (O.D.) | C (Wall) | 5-ft. lengths Art. No. | 10-ft. lengths Art. No. |
|------|-----------------|------|----------|----------|------------------------|-------------------------|
| 1½   | 0.87            | 2.06 | 1.84     | 0.18     | 6500-1500              | 6501-1500               |
| 2    | 1.1             | 2.58 | 2.34     | 0.17     | -2000                  | -2000                   |
| 3    | 2.0             | 3.69 | 3.41     | 0.20     | -3000                  | -3000                   |
| 4    | 3.4             | 4.84 | 4.53     | 0.26     | -4000                  | -4000                   |
| 6    | 6.3             | 7.12 | 6.66     | 0.33     | -6000                  | -6000                   |

## HW 7035 EPS DRAINLINE COVERS<sup>1)</sup> 5-FT. LENGTHS (FOR UNDER-GROUND USE)<sup>2)</sup>

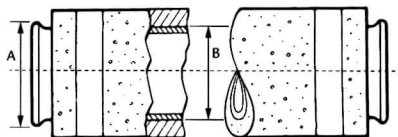
HW 7035 EPS drainline covers are designed and recommended for installation underground. Maximum length, for one piece, recommended for such installation is 5 feet.

### EPS Covers Art. No.

HW 7035 D-1500  
-2000  
-3000  
-4000  
-6000

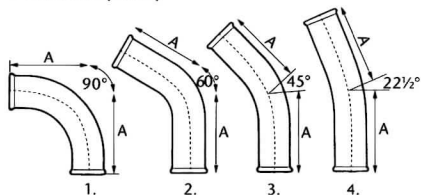
<sup>1)</sup>Expanded Polystyrene

<sup>2)</sup>4 Pieces = 5 ft.



## 6511 SWEEPS

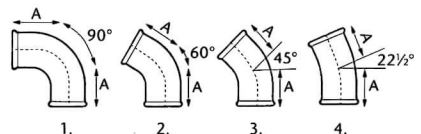
1. ¼ bend (90°)
2. ⅓ bend (60°)
3. ⅕ bend (45°)
4. ⅙ bend (22½°)



| Size | A  | 90° Art. No. | 60° Art. No. | 45° Art. No. | 22½° Art. No. |
|------|----|--------------|--------------|--------------|---------------|
| 1½   | 4½ | 6511-1590    | 6511-1560    | 6511-1545    | 6511-1522     |
| 2    | 5  | -2090        | -2060        | -2045        | -2022*        |
| 3    | 6½ | -3090        | -3060*       | -3045        | -3022*        |
| 4    | 9  | -4090        | -4060*       | -4045        | -4022*        |
| 6    | 12 | -6090        | -6060*       | -6045        | -6022*        |

## 6513 BENDS

1. ¼ bend (90°)
2. ⅓ bend (60°)
3. ⅕ bend (45°)
4. ⅙ bend (22½°)



| Size | A 90° | A 60° | A 45° | A 22½° | 90° Art. No. | 60° Art. No. | 45° Art. No. | 22½° Art. No. |
|------|-------|-------|-------|--------|--------------|--------------|--------------|---------------|
| 1½   | 3     | 2½    | 2     | 2      | 6513-1590    | 6513-1560    | 6513-1545    | 6513-1522     |
| 2    | 3¼    | 2¾    | 2¼    | 2¼     | -2090        | -2060        | -2045        | -2022         |
| 3    | 5     | 3½    | 2¾    | 2¾     | -3090        | -3060*       | -3045        | -3022*        |
| 4    | 7     | 4½    | 3¼    | 3¼     | -4090        | -4060*       | -4045        | -4022*        |
| 6    | -     | -     | 7     | -      | -            | -            | -6045        | -             |

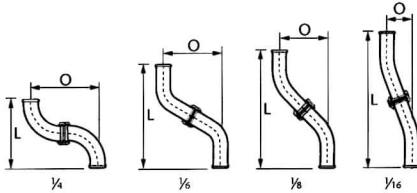
Use catalog dimensions for piping layout as gasket thickness allowance is included.

\*Manufactured per order. Not returnable.

Because of a wide variety of offset requirements, use a combination of bends (6511 and/or 6513). Order quantity of bends and KIMAX® Couplings (No. 6650) to satisfy offset dimensional requirements. Combinations do not come equipped with couplings.

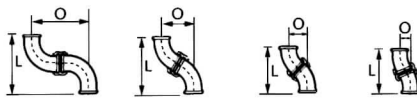
### Offsets made using Standard Sweeps and Bends

#### 6511 SWEEP OFFSETS



| Size  | 1/4 |    | 1/6    |        | 1/8    |        | 1/16   |       |
|-------|-----|----|--------|--------|--------|--------|--------|-------|
|       | L   | O  | L      | O      | L      | O      | L      | O     |
| 1 1/2 | 9   | 9  | 13 1/2 | 7 7/8  | 15 3/8 | 6 3/8  | 17 3/8 | 3 3/8 |
| 2     | 10  | 10 | 15     | 8 3/4  | 17 1/8 | 7 1/8  | 19 1/4 | 3 3/8 |
| 3     | 13  | 13 | 19 1/2 | 11 1/4 | 22 1/4 | 9 1/4  | 25     | 5     |
| 4     | 18  | 18 | 27     | 15 3/8 | 30 3/4 | 12 3/4 | 34 3/8 | 6 3/8 |
| 6     | 24  | 24 | 36     | 20 3/4 | 41     | 17     | 46 1/4 | 9 1/4 |

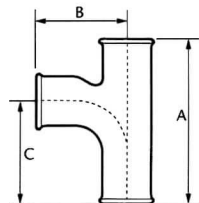
#### 6513 BEND OFFSETS



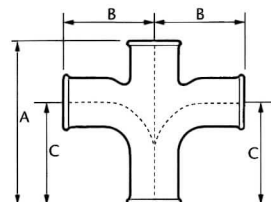
| Size  | 1/4   |       | 1/6    |       | 1/8    |       | 1/16   |       |
|-------|-------|-------|--------|-------|--------|-------|--------|-------|
|       | L     | O     | L      | O     | L      | O     | L      | O     |
| 1 1/2 | 6     | 6     | 7 1/2  | 4 3/8 | 6 3/8  | 2 3/8 | 7 3/4  | 1 1/2 |
| 2     | 6 1/2 | 6 1/2 | 8 1/4  | 4 3/4 | 7 3/4  | 3 1/4 | 8 3/8  | 1 3/4 |
| 3     | 10    | 10    | 10 1/2 | 6 1/8 | 9 3/8  | 3 3/8 | 10 1/2 | 2 1/8 |
| 4     | 14    | 14    | 13 1/2 | 7 3/8 | 11 1/8 | 4 5/8 | 10 3/4 | 2 1/2 |

### Special Purpose Bends

#### 6521 SINGLE SANITARY T

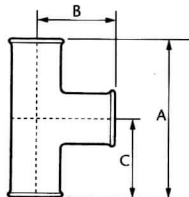


#### 6522 DOUBLE SANITARY T

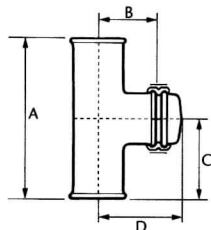


| Size          | A  | B      | C      | Single Art. No. | Double Art. No. |
|---------------|----|--------|--------|-----------------|-----------------|
| 1 1/2 x 1 1/2 | 6  | 3 1/2  | 3 3/4  | 6521-1515       | 6522-1515       |
| 2 x 1 1/2     | 8  | 3 3/4  | 5      | -2015           | -2015           |
| 2 x 2         | 8  | 4 1/2  | 5      | -2020           | -2020           |
| 3 x 1 1/2     | 12 | 4 1/4  | 7 1/16 | -3015           | -3015*          |
| 3 x 2         | 12 | 5      | 7 1/16 | -3020           | -3020           |
| 3 x 3         | 12 | 6 3/8  | 7 1/16 | -3030           | -3030           |
| 4 x 1 1/2     | 14 | 4 7/8  | 8 3/4  | -4015           | -4015*          |
| 4 x 2         | 14 | 5 5/8  | 8 3/4  | -4020           | -4020*          |
| 4 x 3         | 14 | 7      | 8 3/4  | -4030           | -4030*          |
| 4 x 4         | 14 | 8 1/4  | 8 3/4  | -4040           | -4040*          |
| 6 x 2         | 20 | 6 3/4  | 12 3/8 | -6020*          | -6020*          |
| 6 x 3         | 20 | 8      | 12 3/8 | -6030*          | -6030*          |
| 6 x 4         | 20 | 9 3/16 | 12 3/8 | -6040*          | -6040*          |
| 6 x 6         | 20 | 12     | 12 3/8 | -6060*          | -6060*          |

Use catalog dimensions for piping layout as gasket thickness allowance is included.  
\*Manufactured per order. Not returnable.

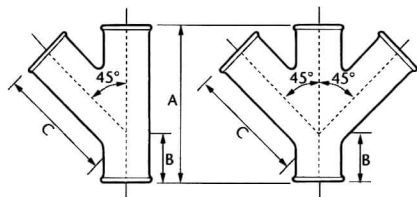
**6523 STRAIGHT T**

| Size    | A  | B  | C  | Art. No.  |
|---------|----|----|----|-----------|
| 1½ x 1½ | 6  | 3  | 3  | 6523-1515 |
| 2 x 1½  | 8  | 3¼ | 4  | -2015     |
| 2 x 2   | 8  | 4  | 4  | -2020     |
| 3 x 1½  | 12 | 4½ | 6  | -3015*    |
| 3 x 2   | 12 | 4½ | 6  | -3020     |
| 3 x 3   | 12 | 6  | 6  | -3030     |
| 4 x 1½  | 14 | 5  | 7  | -4015*    |
| 4 x 2   | 14 | 5  | 7  | -4020     |
| 4 x 3   | 14 | 6½ | 7  | -4030*    |
| 4 x 4   | 14 | 8  | 7  | -4040     |
| 6 x 3   | 20 | 7¾ | 10 | -6030*    |
| 6 x 4   | 20 | 9  | 10 | -6040*    |
| 6 x 6   | 20 | 10 | 10 | -6060*    |

**6524 TEST T WITH CLEANOUT**

| Size    | A  | B  | C | D  | Art. No.  |
|---------|----|----|---|----|-----------|
| 1½ x 1½ | 6  | 2⅜ | 3 | 3⅜ | 6524-1515 |
| 2 x 2   | 8  | 2⅞ | 4 | 3⅞ | -2020     |
| 3 x 3   | 12 | 3⅞ | 6 | 4⅞ | -3030     |
| 4 x 4   | 14 | 4⅞ | 7 | 5⅞ | -4040     |

Test T and cleanout comes as complete assembly including cap and coupling.

**6526 DRAINLINE Y SINGLE****6527 DRAINLINE Y DOUBLE**

| Size    | A  | B  | C   | Single Y<br>Art. No. | Double Y<br>Art. No. |
|---------|----|----|-----|----------------------|----------------------|
| 1½ x 1½ | 6  | 1⅞ | 4½  | 6526-1515            | 6527-1515*           |
| 2 x 1½  | 8  | 2½ | 4¾  | -2015                | -2015*               |
| 2 x 2   | 8  | 2½ | 6   | -2020                | -2020*               |
| 3 x 1½  | 12 | 3¾ | 5½  | -3015                | -3015*               |
| 3 x 2   | 12 | 3¾ | 6¾  | -3020                | -3020*               |
| 3 x 3   | 12 | 3¾ | 8   | -3030                | -3030*               |
| 4 x 1½  | 14 | 4½ | 6⅞  | -4015*               | -4015*               |
| 4 x 2   | 14 | 4½ | 7½  | -4020                | -4020*               |
| 4 x 3   | 14 | 4½ | 8¾  | -4030                | -4030*               |
| 4 x 4   | 14 | 4½ | 10  | -4040                | -4040*               |
| 6 x 2   | 20 | 5¾ | 9   | -6020*               | -6020*               |
| 6 x 3   | 20 | 5¾ | 10⅞ | -6030*               | -6030*               |
| 6 x 4   | 20 | 5¾ | 11½ | -6040*               | -6040*               |
| 6 x 6   | 20 | 5¾ | 14  | -6060*               | -6060*               |

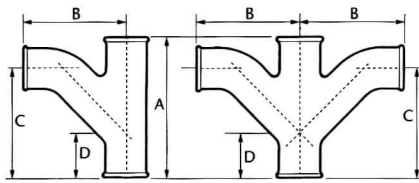
Use catalog dimensions for piping layout as gasket thickness allowance is included.

\*Manufactured per order. Not returnable.



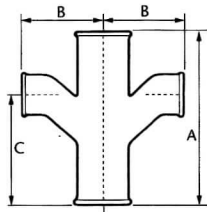
**6528** COMBINATION Y AND  $\frac{1}{8}$  BEND – SINGLE

**6529** COMBINATION Y AND  $\frac{1}{8}$  BEND – DOUBLE



| Size    | A  | B  | C   | D  | Single Art. No. | Double Art. No. |
|---------|----|----|-----|----|-----------------|-----------------|
| 1½ x 1½ | 6  | 4½ | 4¾  | 1¾ | 6528-1515       | 6529-1515       |
| 2 x 1½  | 8  | 4¾ | 5½  | 2½ | -2015           | -2015           |
| 2 x 2   | 8  | 6  | 6¼  | 2½ | -2020           | -2020           |
| 3 x 1½  | 12 | 5¾ | 7¼  | 3¾ | -3015           | -3015*          |
| 3 x 2   | 12 | 6½ | 8   | 3¾ | -3020           | -3020*          |
| 3 x 3   | 12 | 8½ | 9   | 3¾ | -3030           | -3030*          |
| 4 x 1½  | 14 | 6  | 8½  | 4½ | -4015           | -4015*          |
| 4 x 2   | 14 | 7  | 9¼  | 4½ | -4020           | -4020*          |
| 4 x 3   | 14 | 9  | 10¼ | 4½ | -4030           | -4030*          |
| 4 x 4   | 14 | 11 | 11  | 4½ | -4040           | -4040*          |
| 6 x 2   | 20 | 8¼ | 11¾ | 5¾ | -6020*          | -6020*          |
| 6 x 3   | 20 | 10 | 12½ | 5¾ | -6030*          | -6030*          |
| 6 x 4   | 20 | 12 | 13½ | 5¾ | -6040*          | -6040*          |
| 6 x 6   | 20 | 15 | 14½ | 5¾ | -6060*          | -6060*          |

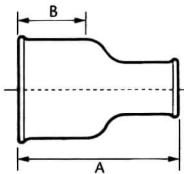
**6531** PARTITION CROSS (COMPACT)



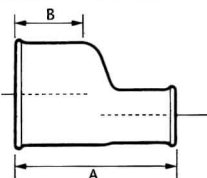
| Size             | A | B  | C | Art. No.   |
|------------------|---|----|---|------------|
| 2 x 1½           | 8 | 3¾ | 5 | 6531-2015* |
| 2 x 2            | 8 | 4½ | 5 | -2020*     |
| 2 x 1½ x 1½ x 1½ | 8 | 3¾ | 5 | -2151*     |

Partition crosses are designed to prevent cross-flow when sinks are connected back to back.

**6536** STRAIGHT REDUCERS OR INCREASERS



**6537** ECCENTRIC REDUCERS OR INCREASERS



| Size   | A | B (min.) | Straight Art. No. | Eccentric Art. No. |
|--------|---|----------|-------------------|--------------------|
| 2 x 1½ | 4 | 1¾       | 6536-2015         | 6537-2015          |
| 3 x 1½ | 5 | 2¼       | -3015             | -3015*             |
| 3 x 2  | 5 | 2¼       | -3020             | -3020*             |
| 4 x 1½ | 7 | 3        | -4015*            | -4015*             |
| 4 x 2  | 7 | 3        | -4020             | -4020*             |
| 4 x 3  | 7 | 3        | -4030             | -4030*             |
| 6 x 1½ | 9 | 4        | -6015*            | -6015*             |
| 6 x 2  | 9 | 4        | -6020*            | -6020*             |
| 6 x 3  | 9 | 4        | -6030             | -6030*             |
| 6 x 4  | 9 | 4        | -6040             | -z6040*            |

Use catalog dimensions for piping layout as gasket thickness allowance is included.

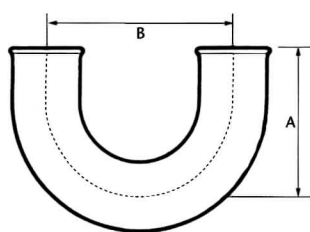
\*Manufactured per order. Not returnable.

## 6544 CLEANOUT PLUG



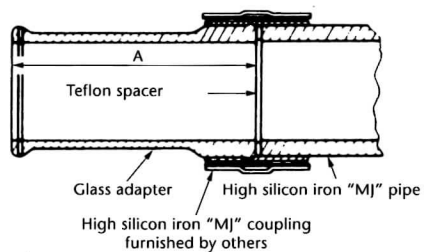
| Size | A  | Art.No.   |
|------|----|-----------|
| 1½   | 1  | 6544-1500 |
| 2    | 1  | -2000     |
| 3    | 1⅛ | -3000     |
| 4    | 1¼ | -4000     |
| 6    | 1½ | -6000     |

## 6550 U BEND (VENT LOOP)



| Size | A  | B  | Art. No.  |
|------|----|----|-----------|
| 1½   | 4  | 5  | 6550-1500 |
| 2    | 4½ | 5½ | -2000     |
| 3    | 5½ | 6½ | -3000     |
| 4    | 6½ | 7½ | -4000*    |

**Note:** U bends are often used for vent loops. No. 6705 outlets on Swivel "S" Traps are also used as vent loops.

6566 "MJ" PIPE ADAPTER<sup>1)</sup>

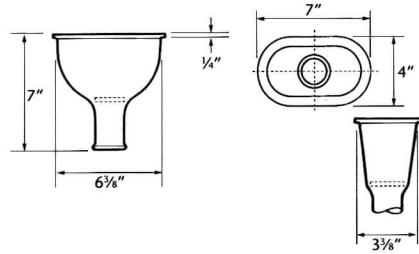
| Pipe Size | A  | Art.No.   |
|-----------|----|-----------|
| 1½        | 3½ | 6566-1500 |
| 2         | 4  | -2000     |
| 3         | 5  | -3000     |
| 4         | 6  | -4000     |

Glass Adapter to High Silicon Iron "MJ" Pipe

<sup>1)</sup> 6566 "MJ" Pipe Adapter consists of glass adapter and 6740 teflon spacer.

# Cup Sinks

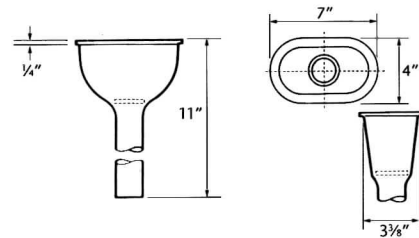
**6619** BEADED OUTLET 3" x 6" OVAL



**Art. No.**

6619-3600

**6619P** PLAIN END OUTLET 3" x 6" OVAL



**Art. No.**

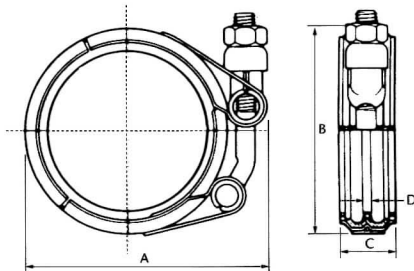
6619P-3611

**6724** SINK STRAINER (ALL CUP SINKS)

| Size  | Art.No.   |
|-------|-----------|
| 1 1/2 | 6724-1500 |
| 2     | 6724-2000 |

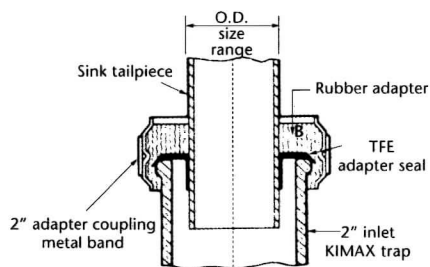
## Couplings

### 6650 DRAINLINE COUPLING (BEAD TO BEAD)



| Size | A  | B  | C  | D | Bolt Size   | Art. No.  |
|------|----|----|----|---|-------------|-----------|
| 1½   | 3  | 2⅝ | 1⅝ | ⅜ | ¼ – 28 x 2¾ | 6650-1500 |
| 2    | 3½ | 3⅞ | 1⅝ | ⅜ | ¼ – 28 x 2¾ | -2000     |
| 3    | 4¾ | 4¼ | 1⅞ | ⅜ | ¼ – 28 x 2¾ | -3000     |
| 4    | 6  | 5½ | 1½ | ⅜ | ¼ – 28 x 3¼ | -4000     |
| 6    | 8¼ | 7¾ | 1⅞ | ¼ | ⅝ – 24 x 4  | -6000     |

### 6655 ADAPTER COUPLING

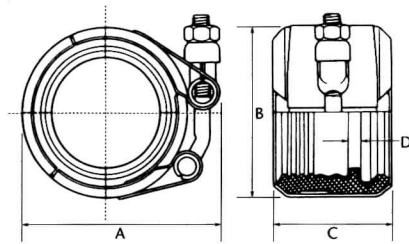


| Size   | Tailpiece Style  | O.D. Size Range | Art. No.  |
|--|--|-----------------|-----------|
| 2 x 1½   | KIMAX® glass tail pipe extension<br>No. 6728, metal tubing, and<br>lead tailpiece extensions | 1.48 to 1.53    | 6655-2015 |
| 2 x 1¾   | Lead, Class D or XL tailpiece PYREX<br>tailpiece and cup sink                                | 1.70 to 1.78    | -2017     |
| 2 x 1⅞   | Plain end KIMAX 1½ glass pipe or<br>fittings   | 1.82 to 1.90    | -2018     |
| Durcon = SO-2<br>Duriron = 11713<br>Lead-Class C or L, B or M<br>Plastic or Steel (1½ IPS) |  |                 |           |

No. 6655 adapter assembly is used to join KIMAX® Drainline Pipe and/or fittings to plain end sink tailpieces.



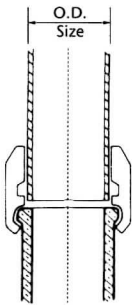
**6661 B/P DRAINLINE COUPLING  
(BEAD-TO-PLAIN END)**



| Size | A  | B  | C  | D | Bolt Size  | Art. No.  |
|------|----|----|----|---|------------|-----------|
| 1½   | 3  | 2¾ | 1¾ | ⅜ | ¼ – 28     | 6661-1500 |
| 2    | 3⅝ | 3¼ | 1¾ | ⅜ | ¼ – 28     | -2000     |
| 3    | 4⅞ | 4¼ | 2⅞ | ⅜ | ⅝ – 24     | -3000     |
| 4    | 6  | 5⅝ | 2⅞ | ⅜ | ⅝ – 24 (2) | -4000     |
| 6    | 8⅝ | 7⅝ | 4  | ¼ | ⅝ – 24 (2) | -6000     |

No. 6661 B/P drainline coupling is used for joining 1½", 2", 3", 4" or 6" KIMAX® Beaded Glass Drainline to plain end (cut) glass pipe; lead, I.P.S. metal, or plastic pipe.

**6665 ADAPTER COUPLING**



| Size    | Tailpiece Style | Art. No.   |
|---------|-----------------|------------|
| 1½ x 1¼ | 1¼ O.D. tubing  | 6665-1512* |
| 1½ x 1½ | 1½ O.D. tubing  | -1515      |

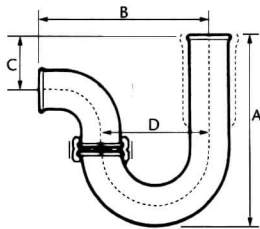
Used to join 1½" beaded KIMAX Drainline Pipe to 1¼" or 1½" O.D. tubing. Note: Rubber seal only – not recommended where solvents will come in contact with the coupling seal.

Use catalog dimensions for piping layout as gasket thickness allowance is included.  
\*Manufactured per order. Not returnable.

# Drainline Traps

Expanded inlets of traps have 4" minimum depth to permit adjustment

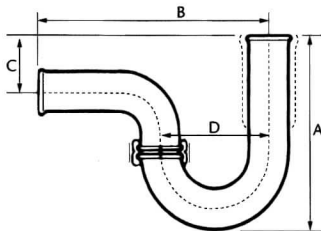
**6700 SWIVEL TRAP-P STYLE**



| Size<br>Inlet x Outlet | A  | B  | C  | D  | Art. No.  |
|------------------------|----|----|----|----|-----------|
| 1½ x 1½                | 8¾ | 8  | 2  | 5  | 6700-1515 |
| 2 x 1½                 | 8¾ | 8  | 2  | 5  | -2015     |
| 2 x 2                  | 9⅛ | 8¾ | 1⅝ | 5½ | -2020     |

No. 6700 (short outlet) swivel "P" trap assembly consists of a No. 6705 inlet with a No. 6513 outlet and a No. 6650 KIMAX® Coupling at the swivel joint. See Standard Cleanout, Page 20.

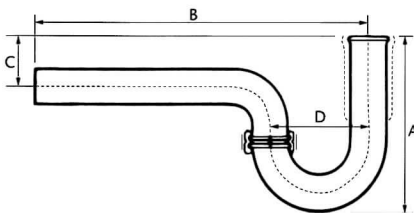
**6701 SWIVEL TRAP-P STYLE**



| Size<br>Inlet x Outlet | A  | B  | C  | D  | Art. No.  |
|------------------------|----|----|----|----|-----------|
| 1½ x 1½                | 9⅛ | 11 | 1⅝ | 5  | 6701-1515 |
| 2 x 1½                 | 8¾ | 11 | 1⅝ | 5  | -2015     |
| 2 x 2                  | 8¾ | 13 | 1¼ | 5½ | -2020     |

No. 6701 (long outlet) swivel "P" trap assembly consists of a No. 6705 inlet with a No. 6512 outlet and a No. 6650 KIMAX Coupling at the swivel joint. See Standard Cleanout, Page 20.

**6704 SWIVEL TRAP-P STYLE  
(PLAIN END OUTLET<sup>1)</sup>)**

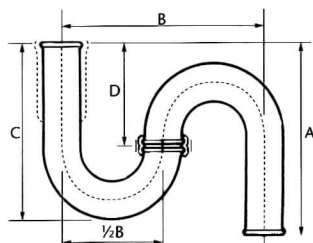


| Size<br>Inlet x Outlet | A  | B   | C  | D  | Art. No.  |
|------------------------|----|-----|----|----|-----------|
| 1½ x 1½                | 8¾ | 17  | 1⅝ | 5  | 6704-1515 |
| 2 x 1½                 | 8¾ | 17  | 1⅝ | 5  | -2015     |
| 2 x 2                  | 9⅛ | 17½ | 1¼ | 5½ | -2020     |

No. 6704 (plain end outlet) swivel "P" trap assembly consists of a No. 6705 inlet with a No. 6512P plain end outlet and a No. 6650 KIMAX Coupling at the swivel joint.

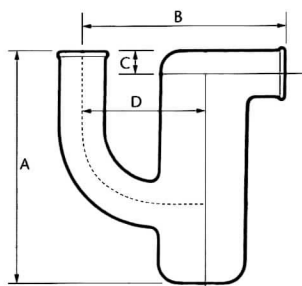
<sup>1)</sup> Plain end outlet, can be field cut.

Use catalog dimensions for piping layout as gasket thickness allowance is included.

**6706 SWIVEL TRAP-S STYLE**

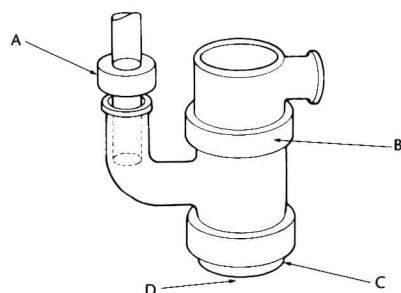
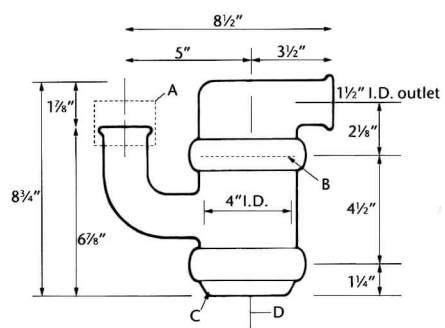
| Size<br>Inlet x Outlet | A  | B  | C  | D  | Body I.D. | Art. No.   |
|------------------------|----|----|----|----|-----------|------------|
| 1½ x 1½                | 9  | 8  | 1  | 4¾ | 3         | 6706-1515* |
| 2 x 1½                 | 9  | 8  | 1½ | 4¾ | 3         | -2015*     |
| 2 x 2                  | 9¾ | 9¼ | 2  | 5½ | 4         | -2020*     |

No. 6706 swivel "S" trap consists of two No. 6705 inlets and a No. 6650 KIMAX® Coupling at the swivel joint.

**6707 DRUM TRAP-P STYLE**

| Size<br>Inlet x Outlet | A  | B  | C  | D  | Art. No.  |
|------------------------|----|----|----|----|-----------|
| 1½ x 1½                | 10 | 10 | 8¾ | 5  | 6707-1515 |
| 2 x 1½                 | 10 | 10 | 8¾ | 5  | -2015     |
| 2 x 2                  | 9¾ | 11 | 9⅞ | 4⅞ | -2020     |

Traps available with B type cleanout. See Standard Cleanout, Page 20.

**6708 INTERCEPTOR TRAP**

| Size          | Description      | Art. No.  |
|---------------|------------------|-----------|
| 1½ x 1½       | Interceptor Trap | 6708-4015 |
| 1¼ O.D. Inlet | Adapter Coupling | 6665-1512 |
| 1½ O.D. Inlet | Adapter Coupling | 6665-1515 |

**Specifications:**

KIMAX borosilicate glass interceptor trap with 1½" I.D. inlet, 1½" I.D. outlet and 4" I.D. body. Perforated S.S. screen interceptor 4" dia. with ⅛" holes and effective 6 sq. in. free area opening. Bottom C.O. coupling with end cap for cleaning.

**Connections:**

1. For DWV Service use KIMAX Adapter Coupling 6665-1515 for 1½" O.D. tubing or 6665-1512 for 1¼" O.D. tubing. Rubber seal only.
2. To connect to 1½" IPS metal or rigid plastic plain end pipe, use KIMAX B/P Coupling 6661-1500.
3. To connect to 1½" I.D. glass drainline, use KIMAX Couplings 6650-1500 or 6661-1500.

A. Adapter coupling No. 6665-1512 (to connect to ¼" O.D. tubing) (rubber seal)  
No. 6665-1515 (to connect to 1½" O.D. tubing)

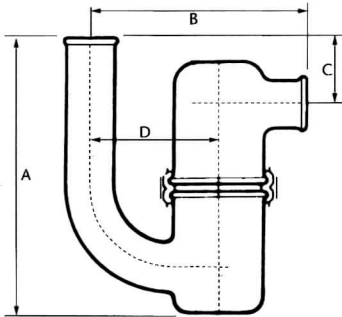
B. Perforated S.S. screen ⅛" dia. holes 6 sq. in. free area opening

C. Removable coupling/end cap for cleanout

D. Min. 3" clearance required under trap for removal of end cap

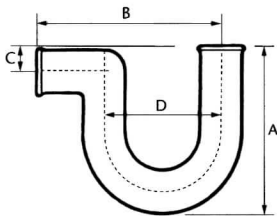
Use catalog dimensions for piping layout as gasket thickness allowance is included.

\*Manufactured per order. Not returnable.

**6710 SWIVEL DRUM TRAP-P STYLE**

| Size<br>Inlet x Outlet | A   | B  | C  | D  | Body I.D. | Art. No.  |
|------------------------|-----|----|----|----|-----------|-----------|
| 1½ x 1½                | 10¼ | 8  | 2½ | 4¾ | 3         | 6710-1515 |
| 2 x 1½                 | 10¼ | 8  | 2½ | 4¾ | 3         | -2015     |
| 2 x 2                  | 11  | 9¼ | 3  | 5½ | 4         | -2020     |

No. 6710 swivel drum trap "P" assembly consists of a No. 6715 inlet with a No. 6716 outlet and a No. 6650 KIMAX® Coupling at the swivel joint.

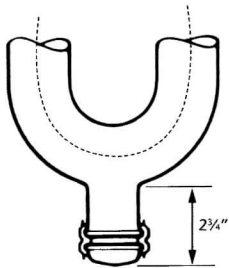
**6718 TRAP-P STYLE**

| Size<br>Inlet x Outlet | A   | B   | C  | D  | Art. No.              |
|------------------------|-----|-----|----|----|-----------------------|
| 1½ x 1½                | 7   | 8   | 1  | 5  | 6718-1515*            |
| <sup>1)</sup> 2 x 1½   | 8   | 8   | 1½ | 5  | -2015*                |
| <sup>1)</sup> 2 x 2    | 8⅝  | 8¾  | 1½ | 5½ | -2020*                |
| 3 x 3                  | 10¼ | 10½ | 2  | 6½ | -3030*                |
| 4 x 4                  | 12¼ | 12½ | 2½ | 7½ | -4040*                |
| 6 x 6                  | 18⅞ | 31  | 3⅝ | 24 | - <sup>2)</sup> 6060* |

<sup>1)</sup>Use No. 6655 adapter coupling for inlet joint.

<sup>2)</sup>No cleanouts on 6 x 6 traps – consists of two glass components and one 6650-6000 KIMAX Coupling.

Use No. 6655 adapter coupling for inlet joint. Traps available with B type cleanout.  
See Standard Cleanout, Page 20.

**TYPE B STANDARD CLEANOUT**

| Size | Art. No. |
|------|----------|
| 1½   | B        |

Standard drainline trap cleanout Type B consists of a No. 6650 standard KIMAX Coupling (1½") and a No. 6544 short glass cap (1½").

**Ordering Information:**

To order standard traps with clean-outs use catalog number for proper style and add the letter B. (Example: 8718-B-1515). For correct layout dimensions add 2¾" to overall trap height for cleanout Type B.

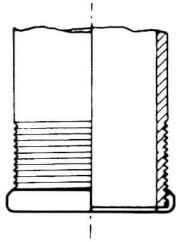
**Note:** Traps manufactured with cleanouts are not returnable.



## Accessories and Hardware

Thread adapters are used to provide beaded end on threaded pipe for connecting directly to KIMAX® Glass Drainlines with No. 6650 coupling. All TFE construction.

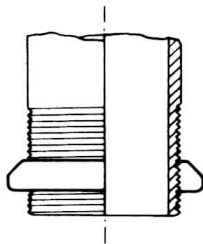
### 6680 THREAD ADAPTERS (THREADED TO BEADED PIPE)



| Size | Art. No.  |
|------|-----------|
| 1½   | 6680-1500 |
| 2    | -2000     |
| 3    | -3000     |
| 4    | -4000     |

Adapter No. 6680 will fit standard straight or tapered threads. Used for same size pipe (e.g. 1½" metal to 1½" glass). Ideal for floor drain connections. In 1½", 2", 3", and 4" sizes.

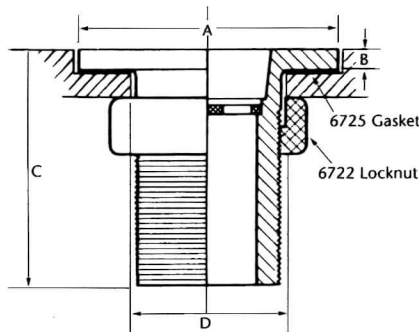
### 6685 ADJUSTABLE THREAD ADAPTER



| Size   | Art. No.  |
|--------|-----------|
| 2 x 1½ | 6685-2015 |

Adapter No. 6685 is designed to mate 1½" threaded tailpieces to 2" expanded inlets for KIMAX Traps. Can be moved up and down on tailpiece for space adjustments. In 2 x 1½" size only.

### 6720 SINK OUTLET ASSEMBLY (1½" AND 2" SIZES) 6720D 2" FOR USE WITH SINKS HAVING 3½" COUNTERBORE

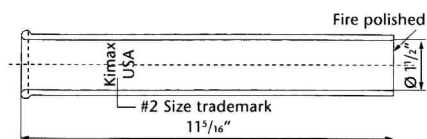


| Size | A  | B | C  | D  | Art. No.   |
|------|----|---|----|----|------------|
| 1½   | 3⅞ | ¼ | 2¾ | 2  | 6720-1500  |
| 2    | 3⅝ | ¼ | 3  | 2⅝ | 2000*      |
| 2    | 3⅞ | ¼ | 3  | 2⅝ | 6720D-2000 |

#### Consists of:

6724 sink strainer (black fluorocarbon plastic) 1½" or 2"  
6721 and 6721D sink outlet (black fluorocarbon plastic)  
6725 gasket-neoprene  
6722 locknut

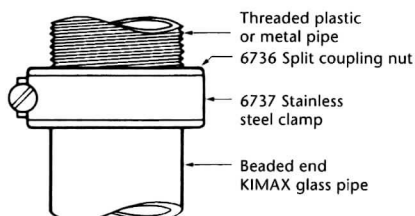
**Note:** Hand tighten 6722 locknut to sink. DO NOT USE PIPE WRENCH. 1½" and 2" size sink outlets are designed to accept standard overflows. For sink outlet tailpiece connections, see No. 6728 dimensions on Page 22.

**6500 S 264 TAILPIECE**

| Size            | Art. No.   |
|-----------------|------------|
| 11 5/16 x 1 1/2 | 6500 S 264 |

Connection to the sink strainer assembly is accomplished using a 6661-1500 Bead x Plain End coupling.

Tail Piece can be cut to desired length using the standard KIMAX® glass cutter.

**6735 1 1/2" SPLIT COUPLING  
(THREADED TO BEADED PIPE)**

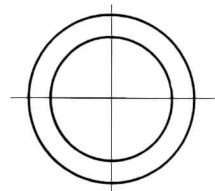
| Size  | Art.No.   |
|-------|-----------|
| 1 1/2 | 6735-1500 |

No. 6735, 1 1/2" Split Coupling is used to join 1 1/2" beaded glass pipe to a threaded 1 1/2" I.P.S. pipe. The assembly consists of:

No. 6736 split coupling nut

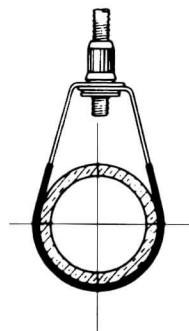
No. 6737 stainless steel clamp

To install ... remove clamp from split nut. Place split nut over beaded glass end. Replace clamp and tighten with screw driver.

**6739 GASKET**

| Size  | Art.No.   |
|-------|-----------|
| 1 1/2 | 6739-1500 |

Use gasket No. 6739 when connecting KIMAX Glass Pipe to threaded metal pipe, using No. 6735 split coupling.

**7290 (1 1/2", 2", 3", 4", 6" SIZES)  
PIPE HANGERS (PADDED)**

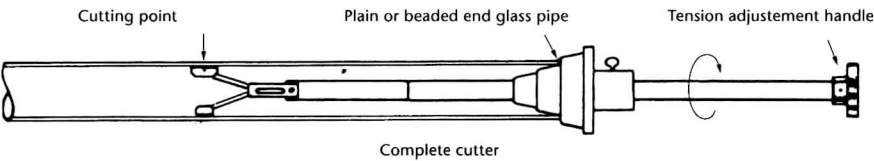
| Size   | Thread Diameter | Art. No.  |
|--------|-----------------|-----------|
| 1 1/2" | 3/8 - 16        | 7290-1500 |
| 2"     | 3/8 - 16        | -2000     |
| 3"     | 3/8 - 16        | -3000     |
| 4"     | 3/8 - 16        | -4000     |
| 6"     | 1/2 - 13        | -6000     |

Recommended for horizontal runs. Hangers contain integral cushions. Standard finish on band is A.S.T.M. type L.S. zinc coating.

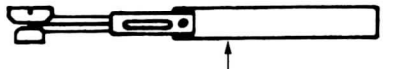
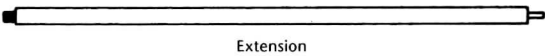
Use catalog dimensions for piping layout as gasket thickness allowance is included.

# Portable Field Cutting Tools

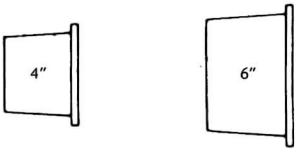
## 7310-56802 KIMAX PORTABLE GLASS PIPE CUTTER



With the KIMAX® Portable Glass Pipe Cutter you can cut 1½" – 6" glass drainline pipe anywhere on the job site. Complete cutter consists of a scoring head assembly, extension, tension arm sub-assembly and 1½" – 4" centering cones and ring stop as shown. Order 6" centering cone separately.



Scoring head assembly 1½" – 2" – 3" – 4" and 6" diameters Article No. 7310-F-5000



Centering cones  
Order 6" centering cone separately

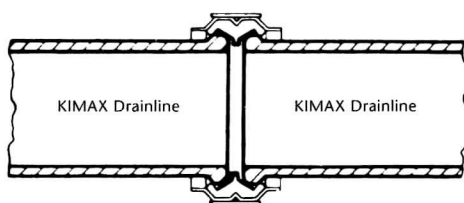
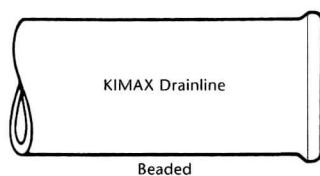
Use catalog dimensions for piping layout as gasket thickness allowance is included.

## Typical Joint Reference Chart

### Type of Pipe

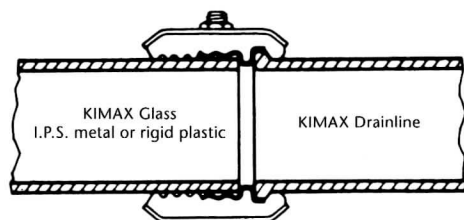
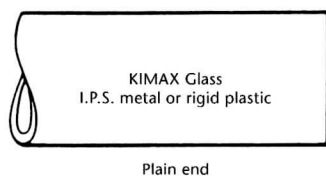
### Type of Joint

### Material needed



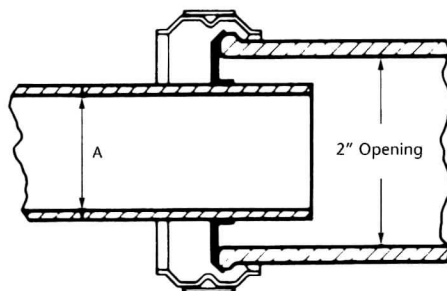
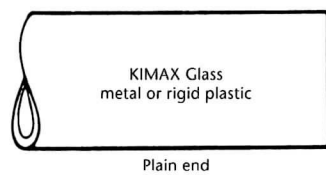
#### KIMAX® Drainline Coupling 6650

| Size | Art. No.  |
|------|-----------|
| 1½   | 6650-1500 |
| 2    | -2000     |
| 3    | -3000     |
| 4    | -4000     |
| 6    | -6000     |



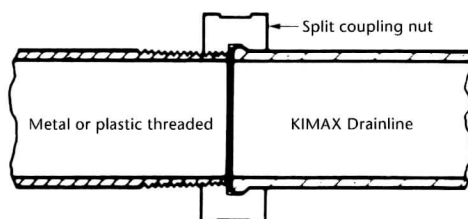
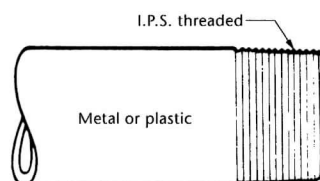
#### KIMAX® B/P Coupling 6661

| Pipe Size | Art. No.  |
|-----------|-----------|
| 1½        | 6661-1500 |
| 2         | -2000     |
| 3         | -3000     |
| 4         | -4000     |
| 6         | -6000     |



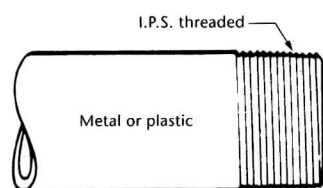
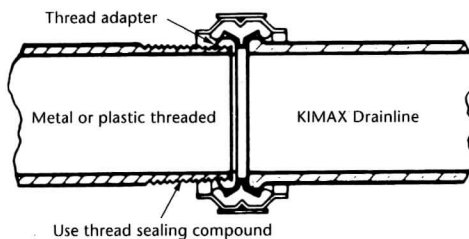
#### KIMAX® Adapter Coupling

| "A"<br>Dimension<br>Pipe O.D. | Coupling<br>Size | Art. No.  |
|-------------------------------|------------------|-----------|
| 1.48-1.53                     | 2 x 1½           | 6655-2015 |
| 1.70-1.78                     | 2 x 1¾           | -2017     |
| 1.82-1.90                     | 2 x 1⅞           | -2018     |

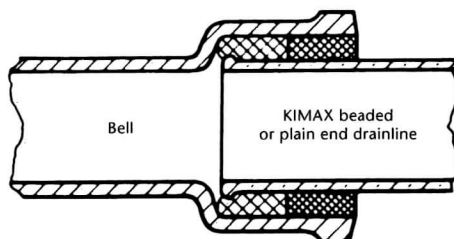
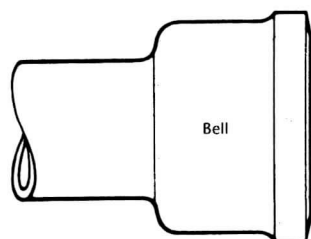


#### KIMAX® Split Coupling

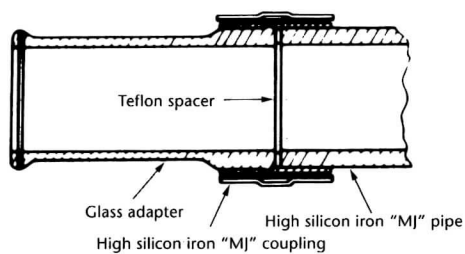
| Pipe<br>Size | Coupling<br>Art. No. | Gasket<br>Art. No. |
|--------------|----------------------|--------------------|
| 1½           | 6735-1500            | 6739-1500          |

**Type of Pipe****Type of Joint****Material needed****KIMAX® Thread Adapter and Drainline Coupling**

| Pipe Size | Adapter Art. No. | Coupling Art. No. |
|-----------|------------------|-------------------|
| 1½        | 6680-1500        | 6650-1500         |
| 2         | -2000            | -2000             |
| 3         | -3000            | -3000             |
| 4         | -4000            | -4000             |

**KIMAX Glass-to-Bell End Pipe**

1. Pack hub half full with non-asbestos rope.
2. Caulk with hot lead, lead wool or acid-proof cement. For details, see Drainline Installation Manual.

**Glass Adapter to High Silicon Iron "MJ" Pipe**

| Pipe Size | Adapter Art. No. | MJ Coupling |
|-----------|------------------|-------------|
| 1½        | 6566-1500        | Furnished   |
| 2         | -2000            | by others   |
| 3         | -3000            |             |
| 4         | -4000            |             |

Other SCHOTT Engineered Plumbing System Products:



KOCH KNIGHT-WARE™  
Ceramic Neutralizing Sump Systems

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## Notes



Tubing

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