

# SAE

SOUTH ASIA EXACT

## C A T A L O G U E

### YOUR TRUSTED UPVC PIPE & FITTING SYSTEM



  <sup>®</sup>  
SOUTH ASIA EXACT



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## UPVC S.W.V & PRESSURE PIPE AND FITTING SYSTEM

**South Asia Exact (SAE)**, with over 20 years of experience supplying high quality pipes and fittings specifically for water supply and soil, waste and ventilation (S.W.V.), is one of the leading brand in Malaysia.

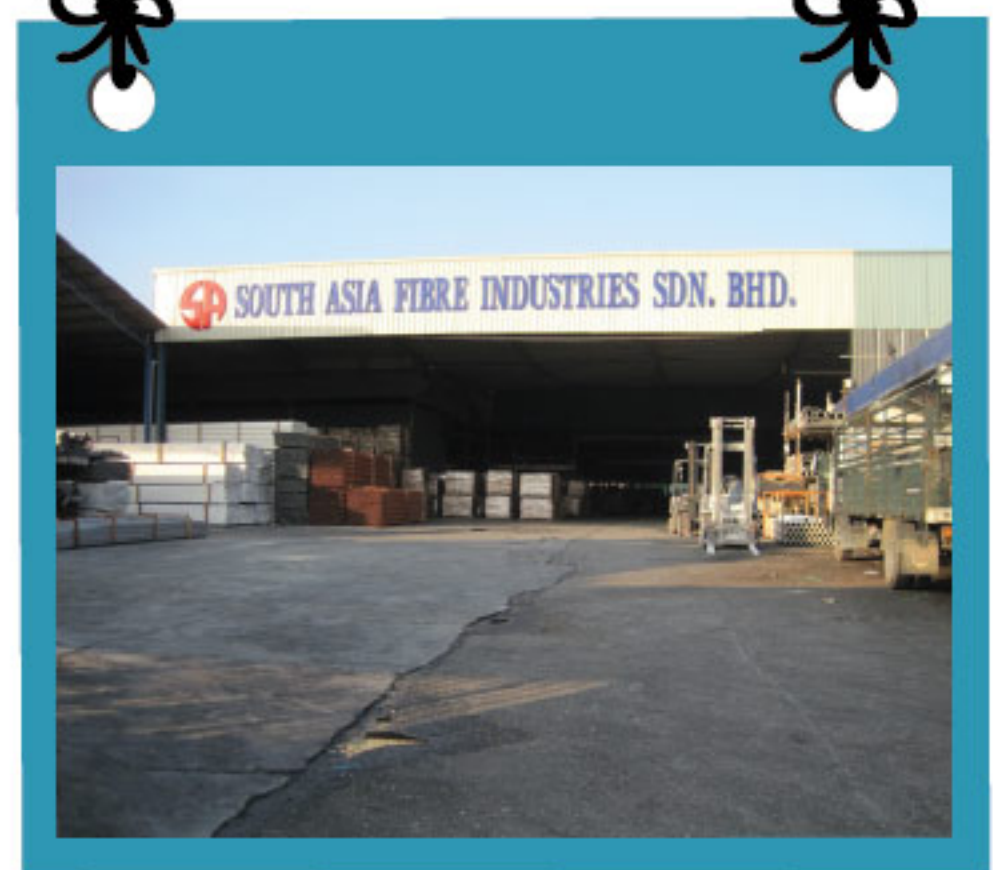
**SAE** pipes and fittings are manufactured at Tasek Industrial Estate, Perak and Balakong, Selangor respectively. We have 2 distinctive brands namely SA for pipes and EXACT for fittings in order to facilitate the learning of the intrinsic quality of SAE products. Through the years, the company has been actively upgrading its technology and production machineries to achieve its objective of improving efficiency, together with product superiority in order to win total customers' confidence and satisfaction.

**SAE** products are manufactured with stringent quality control. Our effort to continuously improve on quality and reliability over the years has been rewarded with the accreditation of ISO 9001 certification. Our products are also certified to the relevant Malaysia and British standards by SIRIM, the Malaysian standards authority. Along with Ikram and SPAN approval, Malaysian local authorities have approved the use of SAE products in projects under their jurisdiction.

**SAE** has contributed significantly towards national development over the years. The combined experience and resources of 2 major pipes and fittings manufacturers bring to the market warranty for your S.W.V. and pressure system for all your building and construction needs.









# Range of Certification



MS ISO 9001 REG. NO. AR2032

## The Quality Policy

We are committed to comply with ISO 9001: 2008 requirements and to enhance our customers' satisfaction through continuous improvement on product quality, JIT delivery and competitive pricing.

## Achievement of ISO 9001

### 1. uPVC waste applications

MS 1063 : 2002 Application area code : B  
(BS 5255 : 1989)

### 2. uPVC soil and vent applications

MS 1063 : 2002 Application area code : B  
(BS 4514 : 1983)

### 3. uPVC underground drainage applications

MS 1063 : 2002 Application area code : D

### 4. MS 979 : 1985 / MS 1034 : 1986

### 5. MS 628 : PART 1 : 1999

### 6. MS 628 : Part 2 : Section 2.1 : 1999

### 7. Quality Management Systems

ISO 9001 : 2008

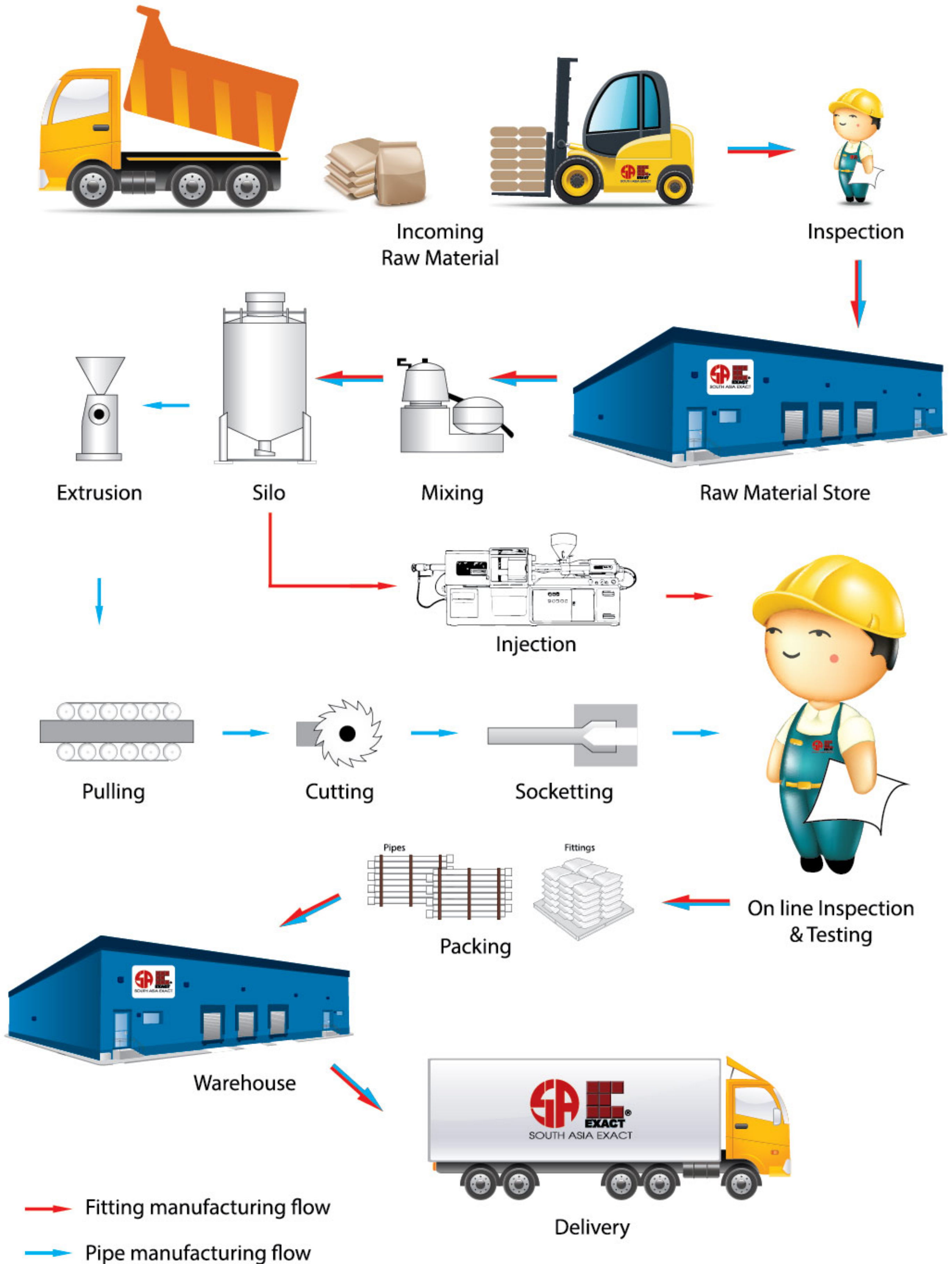
### 8. Product Certificate by SPAN

### 9. IKRAM listing

### 10. Official approval from Malaysia local authorities









## MATERIALS PROPERTIES

| Property                        | Value                | Unit              |
|---------------------------------|----------------------|-------------------|
| Specific gravity                | 1400                 | kg/m <sup>3</sup> |
| Thermal conductivity            | 1000                 | J/kg/°C           |
| Coefficient of linear expansion | 6 x 10 <sup>-5</sup> | mm/mm/°C          |
| Vicat softening point           | 79                   | °C                |
| Modulus of elasticity in bend   | 3000                 | N/mm <sup>2</sup> |
| Tensile strength at yield @ 20° | 45                   | N/mm <sup>2</sup> |
| Elongation at break             | 80                   | %                 |

## QUALITY CONTROL PROCEDURES

These quality control procedures normally include:

- Raw materials, PVC compound, processing parameters in terms of temperature, pressure and energy input.

- Visual inspection and dimension of diameter, wall thickness and length.

- Production tests carried out of one sample every 8 hours:

- 1) Impact Tests – to check the general toughness of the pipe and its ability to withstand the normal shocks which may be expected in handling, transportation and installation during normal use.

- 2) Longitudinal Reversion Tests – designed to show up any excessive built-in (residual) stresses in the pipes and fittings.

- 3) Tensile strength – to determine the strength over elongation characteristics of pipe material when applied tension is forced to the sample pieces.



**Corrosion resistance** – Sanitary drains generate significant volumes of Hydrogen Sulphide gas from bacterial action, which results in the generation of dilute Sulphuric and sulphurous acids especially in turbulent areas. PVC-u has excellent resistance to Sulphuric Acid.

**Weather Resistance** – SWV pipes and fittings provided long term UV protection when installed above ground due to the presence of additive Titanium Dioxide inside the PVC compounded.

**Handling / Installation** – The ease of handling, installation and transport provide overall project savings.

**Flexibility** – There is flexibility to cope with water & soil movements, subsidence and expansive clays.

**Superior flow characteristics** – Their very smooth bore and chemical resistance characteristics ensure no scale or built up corrosion, thus producing a high flow capacity.

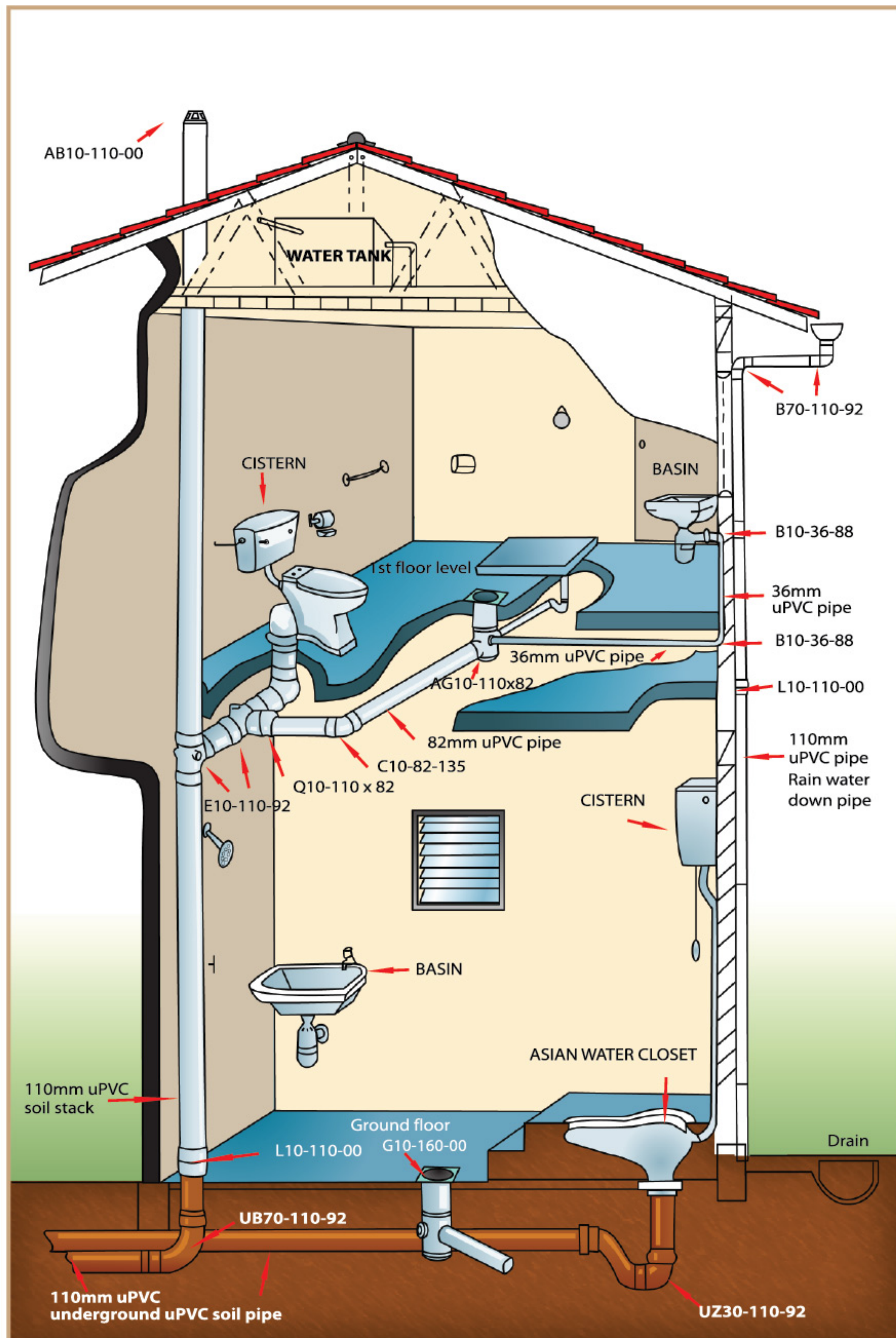
**Easily Machined / Cut** – It can be cut and machined with simple tools, ready for joints anywhere on the pipe barrel.

**Chemical Resistance** – PVC-u pipe has excellent resistance to a wide range of chemicals at ambient temperatures. PVC should not be used with aldehydes, ethers, aromatics, chlorinated hydrocarbons, ketones, benzene, mixtures or similar solvents.





## Typical soil, waste and vent piping layout for 2 storey house using SAE SWV pipes & fittings





# Product Description

S.A.E SWV pipe is a smooth external and internal surface with solid wall PVC-u pipe to given and extra rigid durable pipe system, manufactured and tested in accordance to MS 1063: 2000 (Equivalence to BS EN 1329-1)

This is excellence piping system intended to be used for soil and waste discharge pipework to conveyance the domestic waste water at low and high temperature, ventilating and rainwater pipework within the building structure.

S.A.E SWV pipe specified by:  
Diameter  
Application

Nominal Size (Pipes Diameter)

This is specified by their nominal diameter or size in millimeter, the size range covers from DN 36mm to DN 315mm (see Dimension section)

## Application Area Code

All SWV pipes and fittings marked with code "B", "BD" and "D" to indicate the application area for which they are intended as follow:

"B" intended to use above ground inside the building, or for components outside the building fixed into the wall.

"BD" intended for above ground use for both inside the building, or for components outside the building fixed into the wall and buried in building structures.

"D" For the area under and within 1m from the building where the pipes and fittings are buried in ground and are connected to the underground drainage and sewerage system.


*Note: "D" application area is recommended to use of Underground Sewerage Pipe (MS 979.1 & MS 979.2 / BS 4660 & BS 5841) as alternative.*

## Service Temperature

May be used to carry liquids when subjected to a continuous flow with maximum temperature of 76°C. Intermittent discharges of up to 100°C may occur, provided that duration of less than 90 seconds is observed.


## Marking

All SWV pipes are marked by printer, the following details at approximately meter intervals.

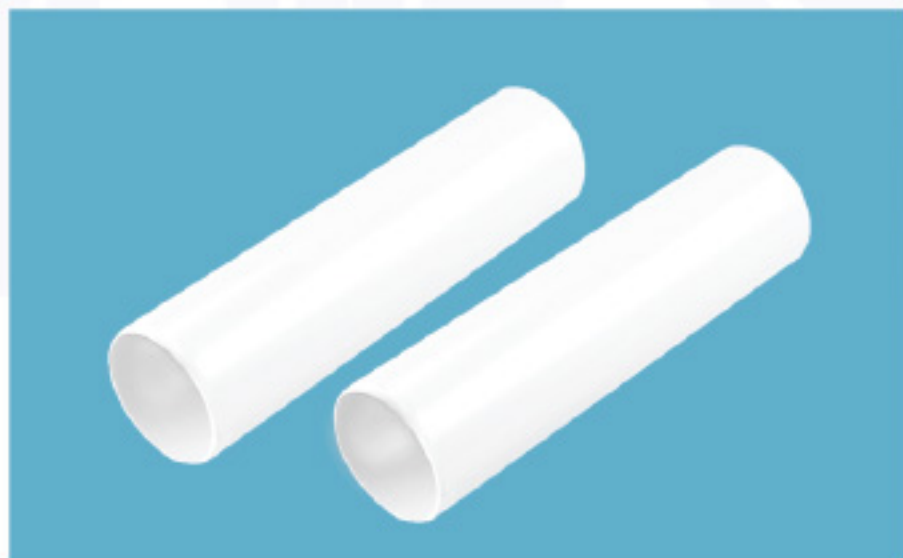
| Certification body logo   | Approval No                             | Material           | Date & Shift       |
|---|---|--------------------|--------------------|
|  | SOUTH ASIA SIRIM QAS CERTIFIED PS025301 | MS:1063 UPVC 110mm | 100105 12:23 EXACT |
| Manufacturer logo & name  | Standard reference                      | Nominal size       | Manufacturer name  |

The SWV fittings has clearly and durably marked by moulded impression for each cavity of products.



 **BS 4514 / MS 1063**  
CODE E10-110-92  
uPVC S.W.V. (B)  
MADE IN MALAYSIA





## SPECIFICATIONS OF SOIL, WASTE AND VENTILATING (S.W.V) PIPES

**Colour : White**

**Length : 4m or 5.8m**

**Type of Joint : Solvent Cement Weld Joint**

| Normal Size |      | Outside Diameter |        | Wall Thickness |     |            |     |
|-------------|------|------------------|--------|----------------|-----|------------|-----|
|             |      |                  |        | 'B'            |     | 'BD' & 'D' |     |
| Size        |      | Min              | Max    | Min            | Max | Min        | Max |
| (inches)    | (mm) | (mm)             |        | (mm)           |     | (mm)       |     |
| 1¼          | 36   | 36.20            | 36.50  | 3.0            | 3.2 | -          | -   |
| 1½          | 43   | 42.80            | 43.10  | 3.0            | 3.5 | -          | -   |
| 2           | 56   | 55.80            | 56.10  | 3.0            | 3.5 | -          | -   |
| 3           | 82   | 82.40            | 82.80  | 3.0            | 3.5 | 3.0        | 3.5 |
| 4           | 110  | 110.00           | 110.30 | 3.2            | 3.8 | 3.2        | 3.8 |
| 6           | 160  | 160.00           | 160.40 | 3.2            | 3.8 | 4.0        | 4.6 |
| 8           | 200  | 200.00           | 200.50 | 3.9            | 4.5 | 4.9        | 5.6 |
| 10          | 250  | 250.00           | 250.50 | 4.9            | 5.6 | 6.2        | 7.1 |
| 12          | 315  | 315.00           | 315.60 | 6.2            | 7.1 | 7.7        | 8.7 |







**SPECIFICATIONS UNDERGROUND DRAINAGE AND SEWERAGE PIPES**

**Colour : Brown**

**Length : 5.8m**

**Type of Joint : Solvent Cement Weld Joint**

| Normal Size |     | Outside Diameter (mm) |         | Wall Thickness (mm) |         |
|-------------|-----|-----------------------|---------|---------------------|---------|
| In.         | mm  | Minimum               | Maximum | Minimum             | Maximum |
| 4           | 110 | 110.00                | 110.40  | 3.2                 | -       |
| 6           | 160 | 160.00                | 160.60  | 4.1                 | -       |
| 8           | 200 | 200.00                | 200.60  | 4.9                 | -       |
| 10          | 250 | 250.00                | 250.70  | 6.2                 | -       |
| 12          | 315 | 315.00                | 315.90  | 7.7                 | -       |







**SPECIFICATIONS OF PRESSURE PIPES**

**Colour : Grey**

**Length : 5.8m**

**Type of Joint : Solvent Cement Weld Joint**

| STANDARD    |     | Wall Thickness (mm)   |       |         |     |                |     |                |      |                 |      |                 |      |         |     |
|-------------|-----|-----------------------|-------|---------|-----|----------------|-----|----------------|------|-----------------|------|-----------------|------|---------|-----|
|             |     | MS 762                |       |         |     | MS 628         |     |                |      |                 |      |                 |      | MS 762  |     |
| Normal Size |     | Outside Diameter (mm) |       | Class O |     | Class B (PN 6) |     | Class C (PN 9) |      | Class D (PN 12) |      | Class E (PN 15) |      | Class 7 |     |
| in.         | mm  | Min                   | Max   | Min     | Max | Min            | Max | Min            | Max  | Min             | Max  | Min             | Max  | Min     | Max |
| ½           | 15  | 21.2                  | 21.5  |         |     |                |     |                |      |                 |      | 1.7             | 2.1  | 3.7     | 4.3 |
| ¾           | 20  | 26.6                  | 26.9  |         |     |                |     |                |      |                 |      | 1.9             | 2.5  | 3.9     | 4.5 |
| 1           | 25  | 33.4                  | 33.7  |         |     |                |     |                |      |                 |      | 2.2             | 2.7  | 4.5     | 5.2 |
| 1¼          | 32  | 42.1                  | 42.4  |         |     |                |     |                |      | 2.2             | 2.7  | 2.7             | 3.2  | 4.8     | 5.5 |
| 1½          | 40  | 48.1                  | 48.4  | 1.8     | 2.2 |                |     |                |      | 2.5             | 3.0  | 3.1             | 3.7  | 5.1     | 5.9 |
| 2           | 50  | 60.2                  | 60.5  | 1.8     | 2.2 |                |     | 2.5            | 3.0  | 3.1             | 3.7  | 3.9             | 4.5  | 5.5     | 6.3 |
| 2½          | 65  | 75.0                  | 75.3  | 1.8     | 2.2 |                |     | 3.0            | 3.5  | 3.9             | 4.5  | 4.8             | 5.5  |         |     |
| 3           | 80  | 88.7                  | 89.1  | 1.8     | 2.2 | 2.9            | 3.4 | 3.5            | 4.1  | 4.6             | 5.3  | 5.7             | 6.6  |         |     |
| 4           | 100 | 114.1                 | 114.5 | 2.3     | 2.8 | 3.4            | 4.0 | 4.5            | 5.2  | 6.0             | 6.9  | 7.3             | 8.4  |         |     |
| 5           | 125 | 140.0                 | 140.4 | 2.6     | 3.1 | 3.8            | 4.4 | 5.5            | 6.4  | 7.3             | 8.4  | 9.0             | 10.4 |         |     |
| 6           | 155 | 168.0                 | 168.5 | 3.1     | 3.7 | 4.5            | 5.2 | 6.6            | 7.6  | 8.8             | 10.2 | 10.8            | 12.5 |         |     |
| 8           | 200 | 218.8                 | 219.4 | 3.1     | 3.7 | 5.3            | 6.1 | 7.8            | 9.0  | 10.3            | 11.9 | 12.6            | 14.5 |         |     |
| 10          | 250 | 272.6                 | 273.4 | 3.1     | 3.7 | 6.6            | 7.6 | 9.7            | 11.2 | 12.8            | 14.8 | 15.7            | 18.1 |         |     |
| 12          | 300 | 323.4                 | 324.3 | 3.1     | 3.7 | 7.8            | 9.0 | 11.5           | 13.3 | 15.2            | 17.7 | 18.7            | 21.6 |         |     |







**SPECIFICATIONS OF CONDUITS FOR UNDERGROUND TELECOMMUNICATION CABLE**

Colour : Black

Length : 5.8m

Type of Joint : Solvent Cement Weld Joint

| Normal<br>Size | Outside Diameter (mm) |         | Wall Thickness (mm) |         |         |
|----------------|-----------------------|---------|---------------------|---------|---------|
|                | mm                    | Minimum | Maximum             | Minimum | Maximum |
| 107            |                       | 107.0   | 108.0               | 2.6     | 3.0     |





# PRODUCT CODE

**AB 99 – 999 – 99**

## Prefix

AB – Abbreviation  
for Product Name

99 – Series Code

## Nominal Size

Nominal Size in millimeter  
(eg. "110" for 110mm)

## Nominal Angle

Nominal Angle (eg. "88" for 88°)

## Sample

**E10 – 43 – 88**

Equal Single Branch with  
Nominal Size of 43mm  
and Nominal Angle of 88°.

**PS10 – 110 – 00**

Pipe Sleeve with Nominal  
Size of 110mm and  
Nominal Angle of 0°.

**C10 – 56 – 45**

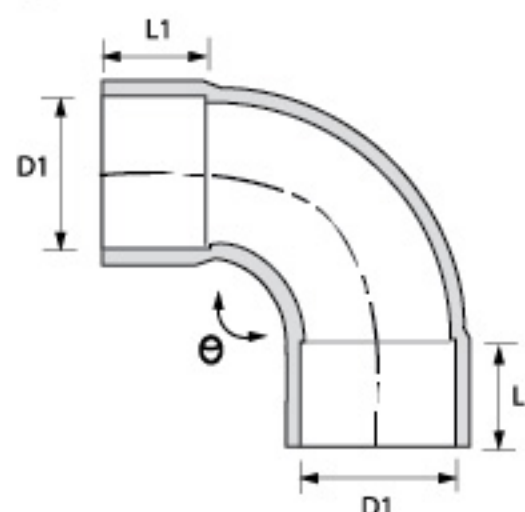
Bend with Nominal Size  
of 56mm and Nominal  
Angle of 45°.



## Sweep Bend

| Code No.   | Size (mm) | Angle $\theta$ | D1    | L1 |
|------------|-----------|----------------|-------|----|
| B10-36-88  | 36        | 91.25          | 36.3  | 20 |
| B10-43-88  | 43        | 91.25          | 42.9  | 25 |
| B10-56-88  | 56        | 91.25          | 55.9  | 28 |
| B70-82-92  | 82        | 92.5           | 82.6  | 45 |
| B70-110-92 | 110       | 92.5           | 110.2 | 50 |
| B10-160-92 | 160       | 92.5           | 160.4 | 78 |
| B10-200-92 | 200       | 92.5           | 200.5 | 80 |

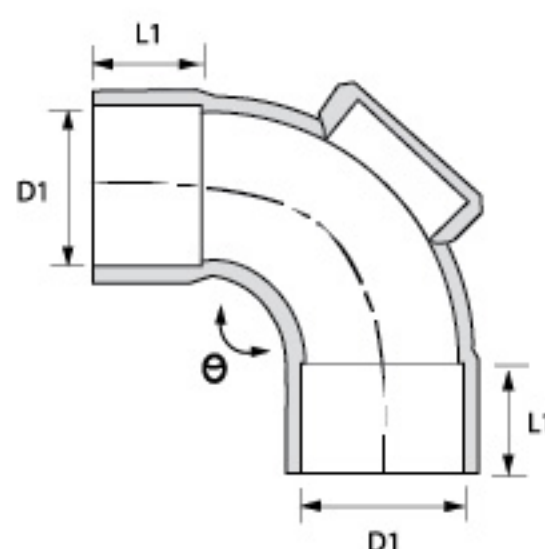
To solvent weld to pipe or fitting



## Sweep Bend with I/O

| Code No.   | Size (mm) | Angle $\theta$ | D1    | L1   |
|------------|-----------|----------------|-------|------|
| B20-43-88  | 43        | 91.25          | 42.9  | 21.5 |
| B20-56-88  | 56        | 91.25          | 55.9  | 28   |
| B20-82-92  | 82        | 92.5           | 82.6  | 45   |
| B80-110-92 | 110       | 92.5           | 110.2 | 50   |
| B20-160-92 | 160       | 92.5           | 160.4 | 78   |

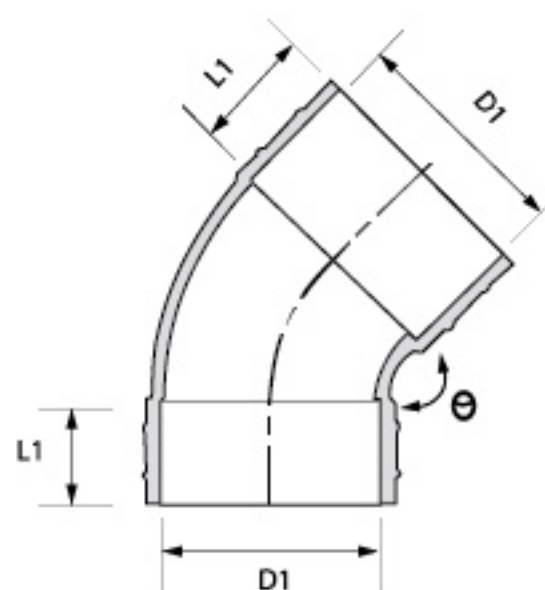
To solvent weld to pipe or fitting fitted with inspection opening.



## 45° Bend Plain

| Code No.    | Size (mm) | Angle $\theta$ | D1    | L1 |
|-------------|-----------|----------------|-------|----|
| C10-36-45   | 36        | 45             | 36.3  | 24 |
| C10-43-45   | 43        | 45             | 42.9  | 25 |
| C10-56-45   | 56        | 45             | 55.9  | 28 |
| C10-82-135  | 82        | 45             | 82.6  | 45 |
| C10-110-135 | 110       | 45             | 110.2 | 50 |
| C10-160-135 | 160       | 45             | 160.4 | 78 |
| C10-200-135 | 200       | 45             | 200.5 | 80 |

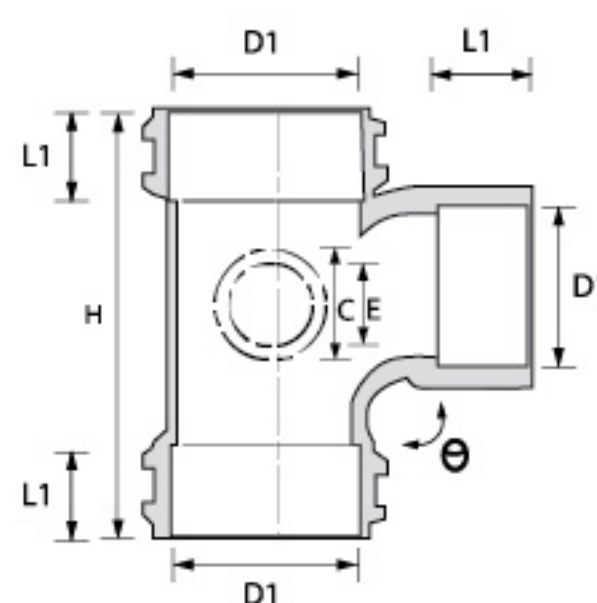
To solvent weld to pipe.



## Equal Single Branch

| Code No.   | Size (mm) | Angle $\theta$ | D1    | L1 | H     | C    | E    |
|------------|-----------|----------------|-------|----|-------|------|------|
| E10-36-88  | 36        | 91.25          | 36.3  | 24 | 89    | —    | —    |
| E10-43-88  | 43        | 91.25          | 42.9  | 25 | 109   | —    | —    |
| E10-56-88  | 56        | 91.25          | 55.9  | 28 | 135   | —    | —    |
| E10-82-92  | 82        | 92.5           | 82.6  | 45 | 205   | —    | 42.9 |
| E10-110-92 | 110       | 92.5           | 110.2 | 50 | 250   | —    | 55.9 |
| E10-160-92 | 160       | 92.5           | 160.4 | 75 | 350.5 | 82.6 | 55.9 |
| E10-200-92 | 200       | 90             | 200.5 | 80 | 404   | 82.6 | 55.9 |

To solvent weld to soil pipe.  
92° branches have integrally moulded boss adaptor socket to accept waste pipe or fitting.

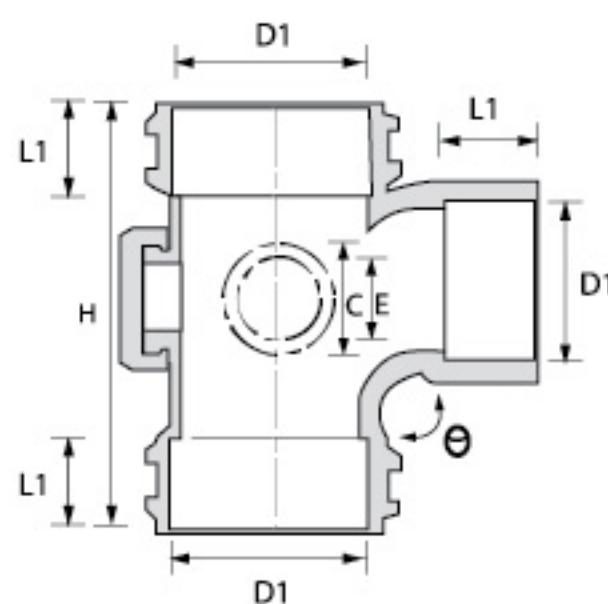




## Equal Single Branch with I/O

| Code No.   | Size (mm) | Angle $\theta$ | D1    | L1 | H     | C    | E    |
|------------|-----------|----------------|-------|----|-------|------|------|
| E20-43-88  | 43        | 91.25          | 42.9  | 25 | 110   | —    | —    |
| E20-56-88  | 56        | 91.25          | 55.9  | 28 | 135   | —    | —    |
| E20-82-92  | 82        | 92.5           | 82.6  | 45 | 205   | —    | 42.9 |
| E20-110-92 | 110       | 92.5           | 110.2 | 50 | 250   | —    | 55.9 |
| E20-160-92 | 160       | 92.25          | 160.4 | 75 | 350.5 | 82.6 | 55.9 |

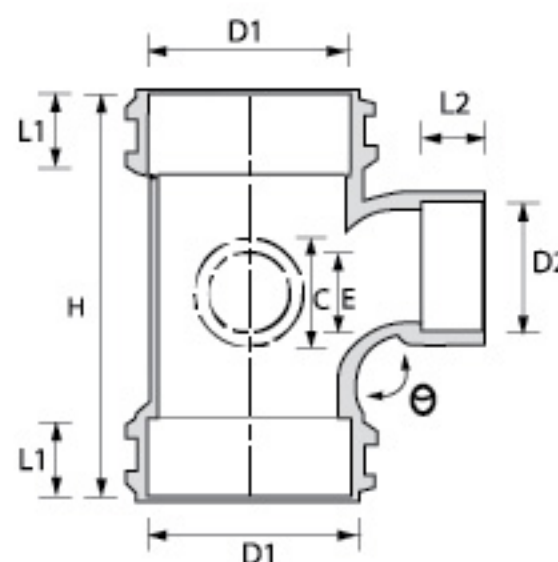
To solvent weld to soil pipe.  
92° branches have integrally moulded boss adaptor socket to accept waste pipe or fitting with inspection opening.



## Reducing Branch

| Code No.    | Size (mm) | Angle $\theta$ | D1    | D2    | L1 | L2 | H   | C | E    |
|-------------|-----------|----------------|-------|-------|----|----|-----|---|------|
| E10-160x110 | 160x110   | 92.5           | 160.4 | 110.2 | 75 | 50 | 310 | — | 55.9 |
| E10-110x82  | 110x82    | 92.5           | 110.2 | 82.6  | 50 | 45 | 230 | — | 55.9 |
| E10-110x56  | 110x56    | 91.25          | 110.2 | 55.9  | 50 | 30 | 230 | — | 55.9 |

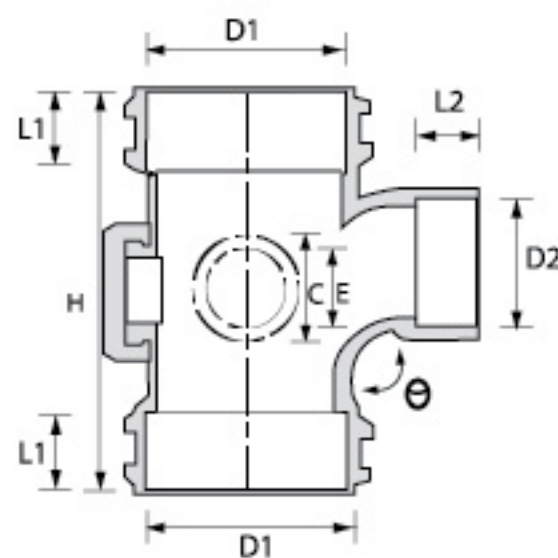
To solvent weld to soil pipe. 92° branches have integrally moulded boss adaptor socket to accept waste pipe or fitting.



## Reducing Branch with I/O

| Code No.    | Size (mm) | Angle $\theta$ | D1    | D2    | L1 | L2 | H   | C | E    |
|-------------|-----------|----------------|-------|-------|----|----|-----|---|------|
| E20-160x110 | 160x110   | 92.5           | 160.4 | 110.2 | 75 | 50 | 310 | — | 55.9 |
|             |           |                |       |       |    |    |     |   |      |
|             |           |                |       |       |    |    |     |   |      |

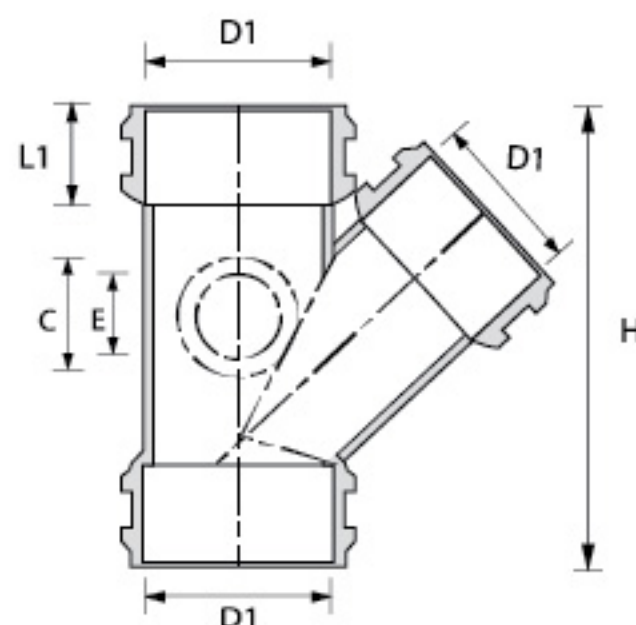
To solvent weld to soil pipe. 92° branches have integrally moulded boss adaptor socket to accept waste pipe or fitting with inspection opening.



## 45° Equal Single Branch (Y-Tee)

| Code No.     | Size (mm) | D1    | L1 | H   | C | E    |
|--------------|-----------|-------|----|-----|---|------|
| EY10-110-135 | 110       | 110.2 | 50 | 265 | — | 55.9 |

To solvent weld to soil pipe.  
45° branches have integrally moulded boss adaptor socket to accept waste pipe or fitting.

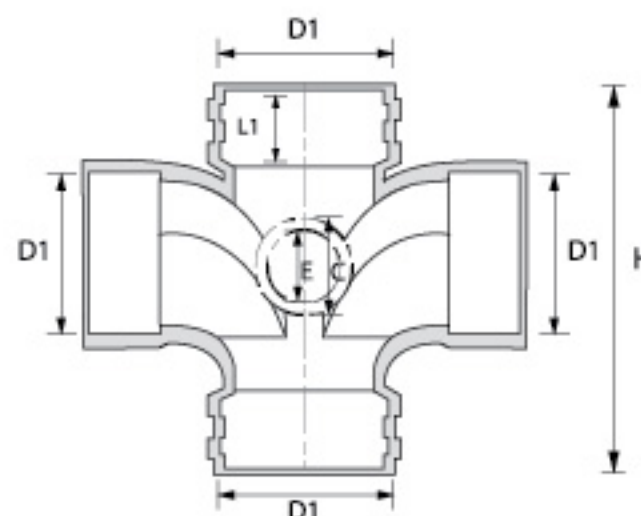




## Equal Double Branch (Cross Tee)

| Code No.    | Size (mm) | D1    | L1 | H   | C | E    |
|-------------|-----------|-------|----|-----|---|------|
| ED10-110-92 | 110       | 110.2 | 50 | 250 | — | 55.9 |

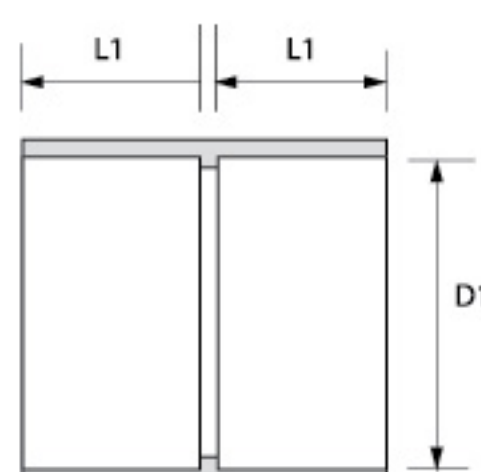
To solvent weld to soil pipe.  
92° branches have integrally moulded boss adaptor socket to accept waste pipe or fitting



## Straight Coupler

| Code No.   | Size (mm) | D1    | L1 |
|------------|-----------|-------|----|
| L10-36-00  | 36        | 36.3  | 24 |
| L10-43-00  | 43        | 42.9  | 25 |
| L10-56-00  | 56        | 55.9  | 28 |
| L10-82-00  | 82        | 82.6  | 45 |
| L10-110-00 | 110       | 110.2 | 50 |
| L10-160-00 | 160       | 160.4 | 78 |
| L10-200-00 | 200       | 200.5 | 80 |

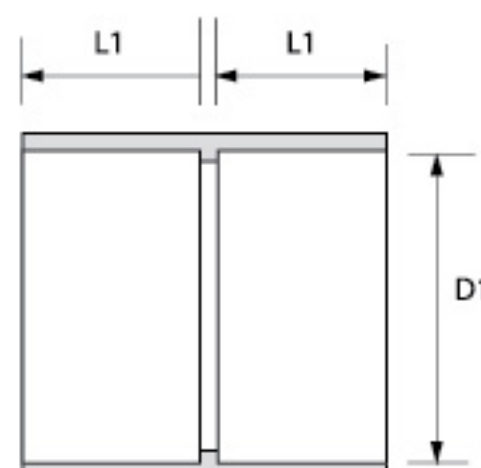
To solvent weld together two length of uPVC soil or waste pipes.



## Straight Coupler (Plain)

| Code No.   | Size (mm) | D1    | L1 |
|------------|-----------|-------|----|
| L30-110-00 | 110       | 110.2 | 50 |

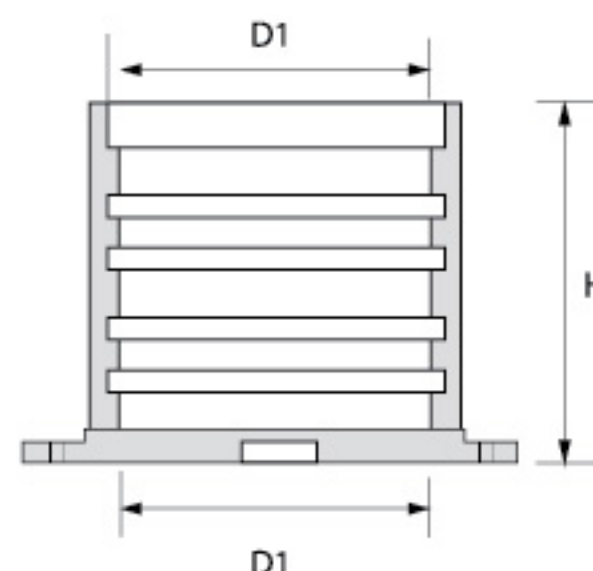
To solvent weld together two length of uPVC soil or waste pipes.



## Pipe Sleeve

| Code No.    | Size (mm) | D1    | H   |
|-------------|-----------|-------|-----|
| PS10-56-00  | 56        | 55.9  | 110 |
| PS10-82-00  | 82        | 82.6  | 110 |
| PS10-110-00 | 110       | 110.2 | 110 |
| PS10-160-00 | 160       | 160.4 | 161 |
| PS10-200-00 | 200       | 200.5 | 175 |

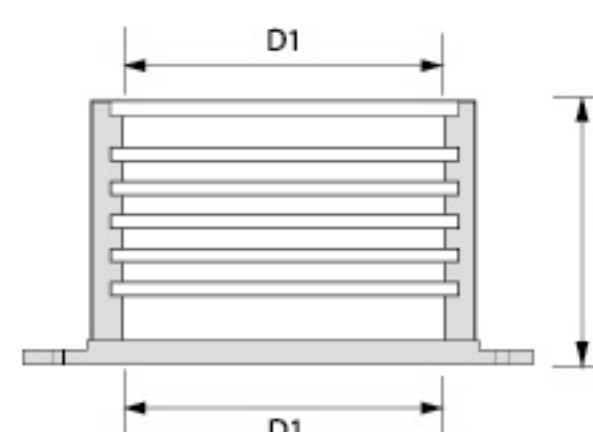
Fpr cast into RC floor slab/ concrete wall to provide a through socket for pipes.



## Pipe Sleeve ( Short )

| Code No.    | Size (mm) | D1    | H     |
|-------------|-----------|-------|-------|
| PS30-160-00 | 160       | 160.4 | 110.1 |
|             |           |       |       |
|             |           |       |       |

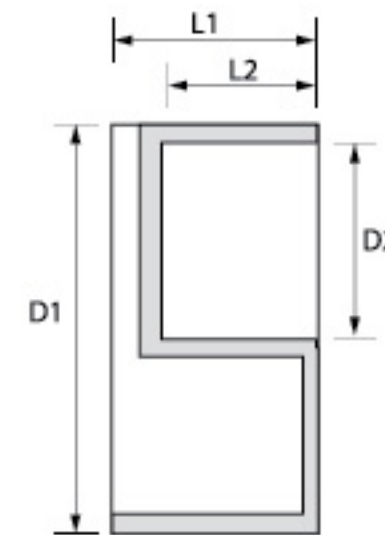
Fpr cast into RC floor slab/concrete wall to provide a through socket for pipes.





### Bush / Socket Reducer

| Code No.    | Size (mm) | D1    | D2    | L1 | L2 |
|-------------|-----------|-------|-------|----|----|
| Q10-43x36   | 43x36     | 42.9  | 36.3  | 22 | 19 |
| Q10-56x36   | 56x36     | 55.9  | 36.3  | 28 | 19 |
| Q10-56x43   | 56x43     | 55.9  | 42.9  | 28 | 22 |
| Q10-82x56   | 82x56     | 82.6  | 55.9  | 45 | 28 |
| Q10-110x56  | 110x56    | 110.2 | 55.9  | 50 | 28 |
| Q10-110x82  | 110x82    | 110.2 | 82.6  | 50 | 45 |
| Q10-160x110 | 160x110   | 160.4 | 110.2 | 78 | 50 |
| Q10-200x160 | 200x160   | 200.5 | 160.4 | 80 | 81 |



To allow for change in fittings socket diameter.

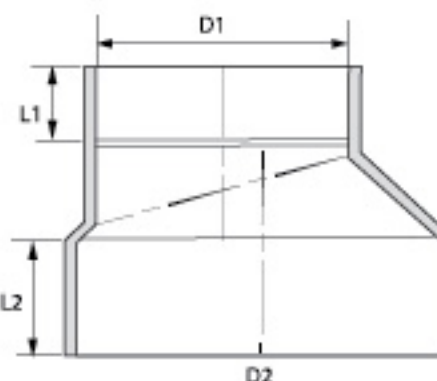
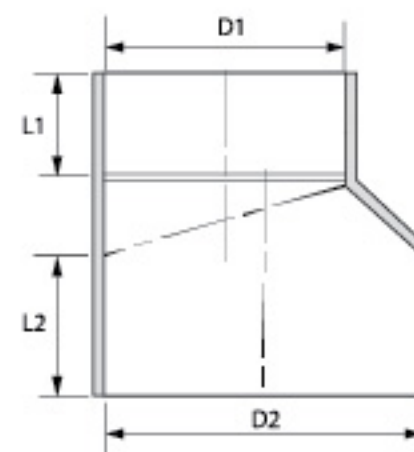
### Level Invert Reducer

| Code No.    | Size (mm) | D1    | D2    | L1   | L2 |
|-------------|-----------|-------|-------|------|----|
| Q30-110x82  | 110x82    | 82.6  | 110.2 | 46.5 | 53 |
| Q30-82x56   | 82x56     | 55.9  | 82.6  | 31   | 46 |
| Q30-110x56  | 110x56    | 55.9  | 110.2 | 31   | 53 |
| Q30-200x160 | 200x160   | 160.4 | 200.5 | 60   | 60 |

To allow for change in pipe diameter with larger end spigot to fitting and other end socket to pipe.

| Code No.    | Size (mm) | D1    | D2    | L1 | L2   |
|-------------|-----------|-------|-------|----|------|
| Q30-160x110 | 160x110   | 110.2 | 160.4 | 48 | 51.5 |

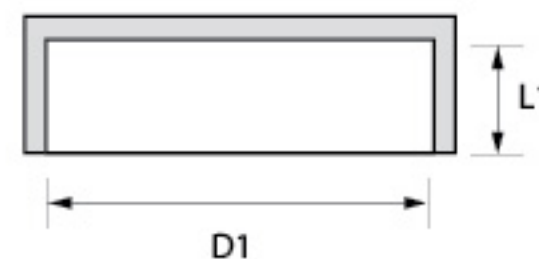
To allow for change in pipe diameter with larger end spigot to fitting and other end socket to pipe.



### End Cap

| Code No.    | Size (mm) | D1    | L1 |
|-------------|-----------|-------|----|
| EC10-56-00  | 56        | 55.9  | 31 |
| EC10-82-00  | 82        | 82.6  | 31 |
| EC10-110-00 | 110       | 110.2 | 25 |
| EC10-160-00 | 160       | 160.4 | 75 |

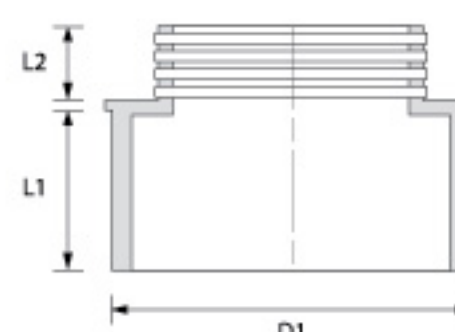
To cover up the open-end of a pipe line for later accessibility.



### Access Plug (M)

| Code No.    | Size (mm) | D1    | L1 |
|-------------|-----------|-------|----|
| AP10-82-00  | 82        | 82.6  | 45 |
| AP10-110-00 | 110       | 110.2 | 50 |

To plug up the socket to allow for later accessibility.

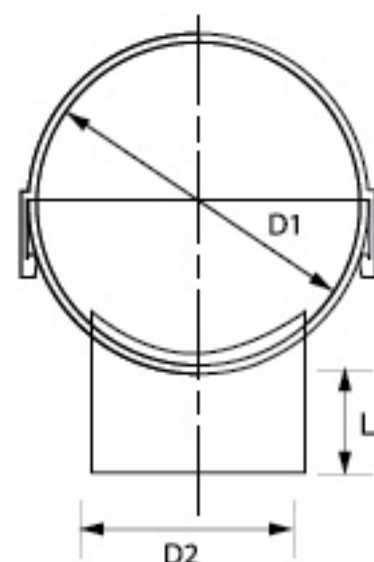




## Boss Connector

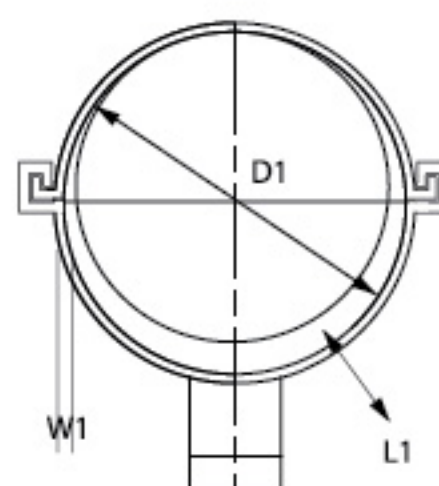
| Code No.    | Size (mm) | D1    | D2    | L  |
|-------------|-----------|-------|-------|----|
| Y20-82x56   | 82x56     | 82.6  | 55.9  | 28 |
| Y20-160x82  | 160x82    | 160.4 | 82.6  | 45 |
| Y20-160x110 | 160x110   | 160.4 | 110.2 | 50 |
| Y30-110x56  | 110x56    | 110.2 | 55.9  | 28 |
| Y30-110x82  | 110x82    | 110.2 | 82.6  | 45 |

To connect waste pipe to soil pipe and for venting by solvent cement. Incorporates a bracket specially designed to hold boss connector firmly in place during installation.



## Pipe Holder

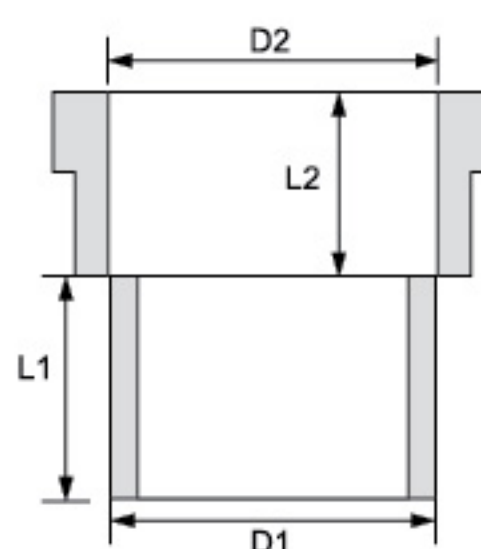
| Code No.    | Size (mm) | D1    | L2   | W1  |
|-------------|-----------|-------|------|-----|
| PH10-110-00 | 110       | 110.4 | 28.7 | 3.0 |



## PT Socket

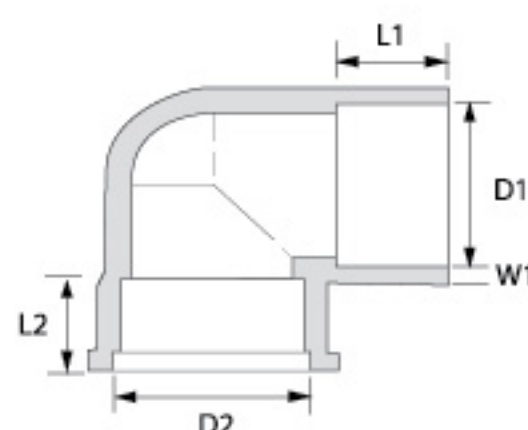
| Code No.   | Size (mm) | D1 | D2 | L1   | L2   |
|------------|-----------|----|----|------|------|
| PT10-36-00 | 36        | 36 | 42 | 33.5 | 24   |
| PT10-43-00 | 43        | 43 | 48 | 39   | 28.5 |

To connect basin joint directly to PVC pipe.



## PT Elbow

| Code No.   | Size (mm) | Angle $\theta$ | D1 | D1 | L1   | L2   | W   |
|------------|-----------|----------------|----|----|------|------|-----|
| PE10-36-00 | 36        | 92.5°          | 34 | 40 | 33.5 | 24   | 2.2 |
| PE10-43-00 | 43        | 92.5°          | 42 | 47 | 39   | 28.5 | 2.6 |

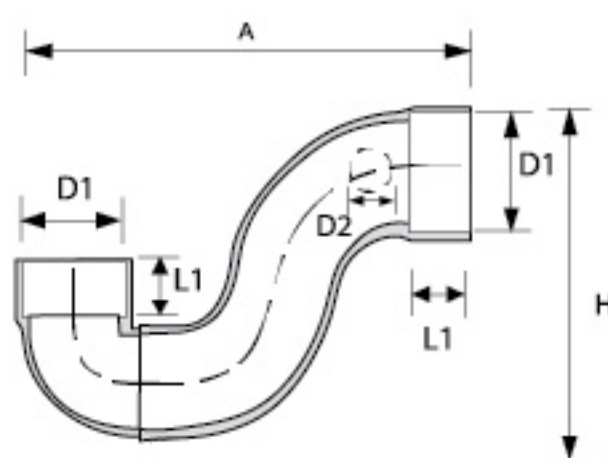




### "P" Trap Plain

| Code No.   | Size (mm) | D1    | D2   | L1 | A   | H   |
|------------|-----------|-------|------|----|-----|-----|
| Z30-110-92 | 110       | 110.2 | 55.9 | 50 | 380 | 270 |

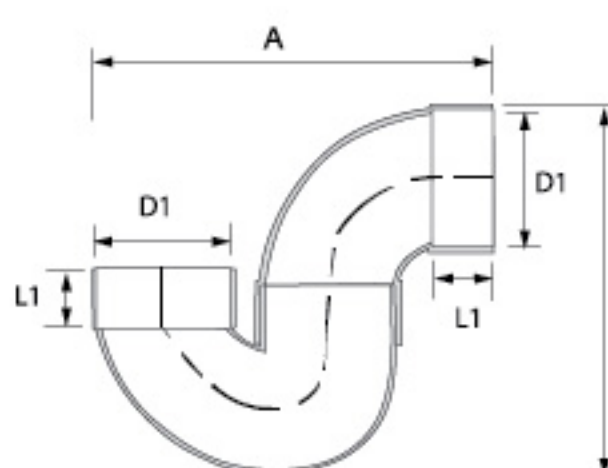
"P" Trap with water seal for gas-tight connection to SWV system.



### "P" Trap Plain (U body)

| Code No.   | Size (mm) | D1    | L1 | A   | H   |
|------------|-----------|-------|----|-----|-----|
| Z50-110-90 | 110       | 110.2 | 50 | 300 | 280 |

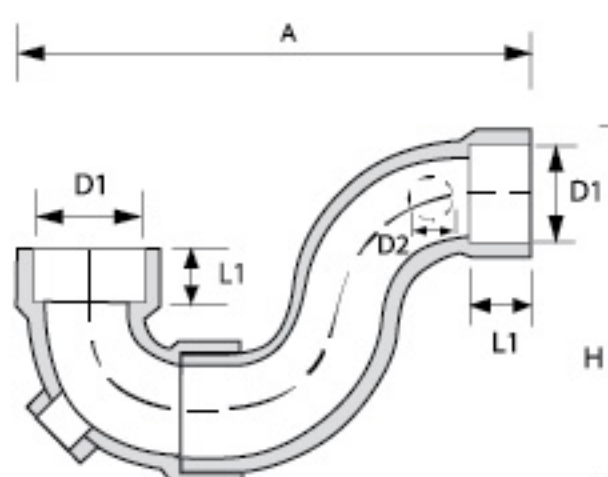
"P" Trap with water seal for gas-tight connection to SWV system.



### "P" Trap with I/O

| Code No.   | Size (mm) | D1    | D2   | L1 | A   | H   |
|------------|-----------|-------|------|----|-----|-----|
| Z10-56-88  | 56        | 55.9  | 55.9 | 28 | 240 | 180 |
| Z10-110-92 | 110       | 110.2 | 55.9 | 50 | 380 | 270 |

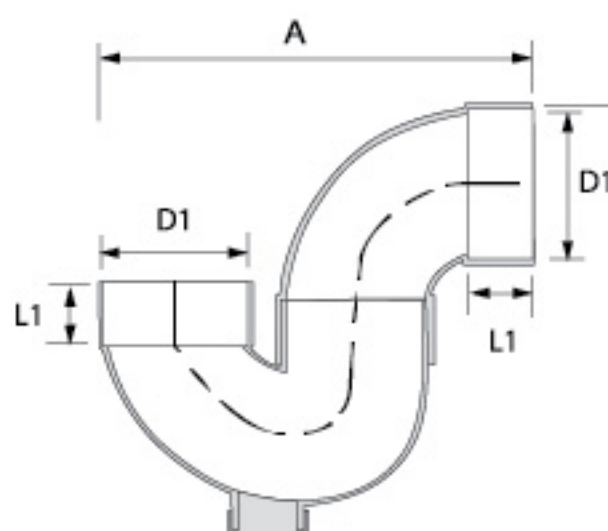
"P" Trap with water seal for gas-tight connection to SWV system with inspection opening.



### "P" Trap with I/O (U body)

| Code No.   | Size (mm) | D1    | D2   | L1 | A   | H   |
|------------|-----------|-------|------|----|-----|-----|
| Z60-110-90 | 110       | 110.2 | 55.9 | 50 | 300 | 290 |

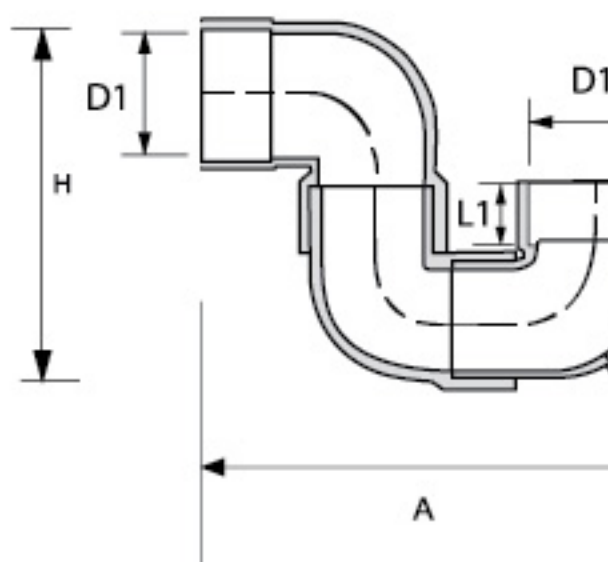
"P" Trap with water seal for gas-tight connection to SWV system with inspection opening.



### "P" Trap with I/O (Offset)

| Code No.    | Size (mm) | D1    | D2 | L1 | A | H |
|-------------|-----------|-------|----|----|---|---|
| Z10-110-OFF | 110       | 110.2 |    |    |   |   |

"P" Trap with water seal for gas-tight connection to SWV system with inspection opening.

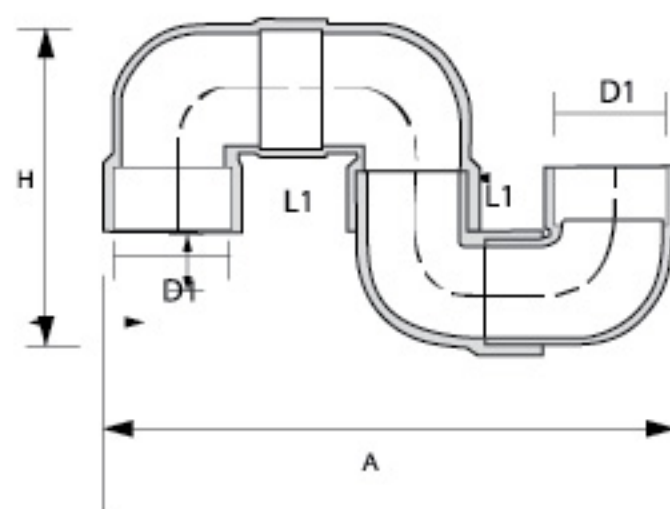




### "S" Trap Plain

| Code No.   | Size (mm) | D1    | L1 | A   | H   |
|------------|-----------|-------|----|-----|-----|
| S30-110-92 | 110       | 110.2 | 50 | 470 | 280 |

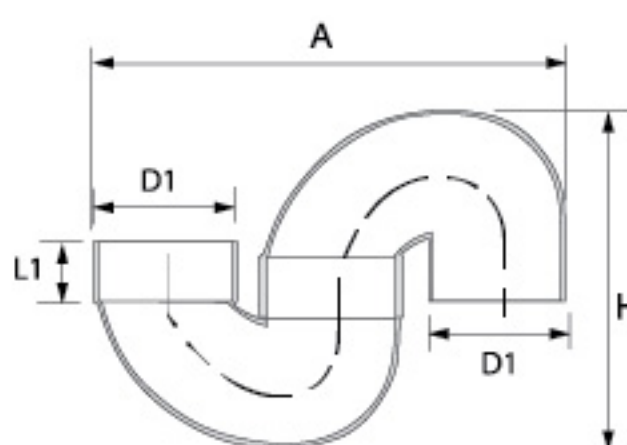
"S" Trap with water seal for gas-tight connection to SWV system.



### "S" Trap Plain (U Body)

| Code No.   | Size (mm) | D1    | L1 | A   | H   |
|------------|-----------|-------|----|-----|-----|
| S50-110-90 | 110       | 110.2 | 50 | 390 | 260 |

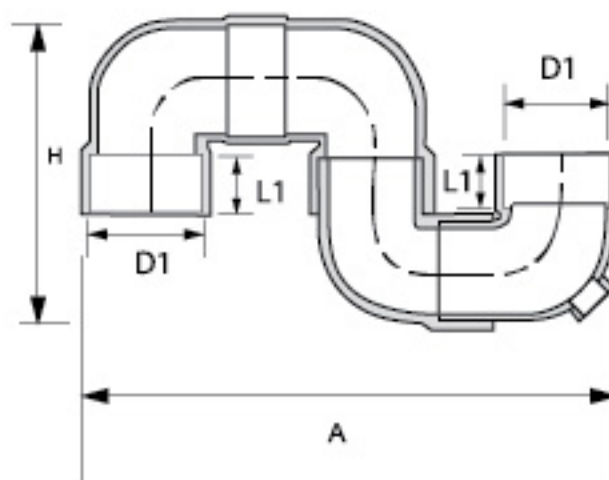
"S" Trap with water seal for gas-tight connection to SWV system.



### "S" Trap with I/O

| Code No.   | Size (mm) | D1    | L1 | A   | H   |
|------------|-----------|-------|----|-----|-----|
| S20-110-92 | 110       | 110.2 | 50 | 470 | 280 |

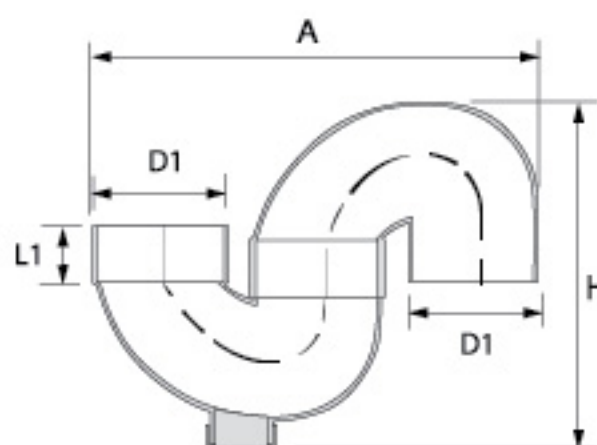
"S" Trap with water seal for gas-tight connection to SWV system with inspection opening.



### "S" Trap with I/O (U Body)

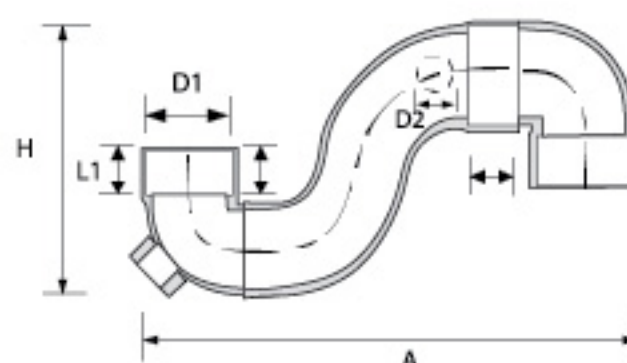
| Code No.   | Size (mm) | D1    | L1 | A   | H   |
|------------|-----------|-------|----|-----|-----|
| S60-110-90 | 110       | 110.2 | 50 | 390 | 270 |

"S" Trap with water seal for gas-tight connection to SWV system.



### "S" Trap with I/O (Offset)

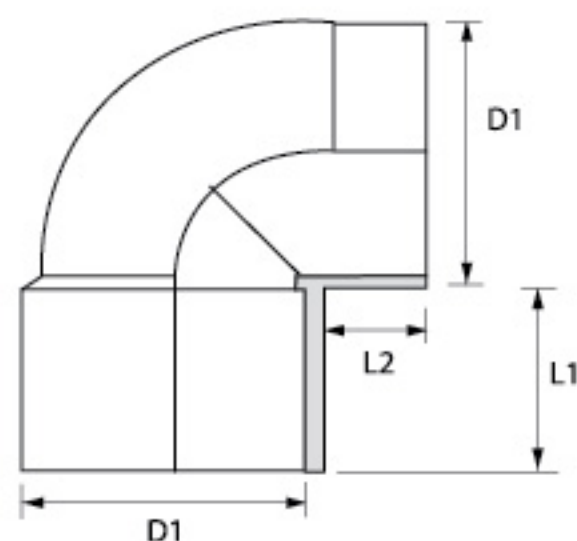
| Code No.    | Size (mm) | D1    | D2   | L1 | A   | H   |
|-------------|-----------|-------|------|----|-----|-----|
| S20-110-OFF | 110       | 110.2 | 55.9 | 48 | 495 | 270 |





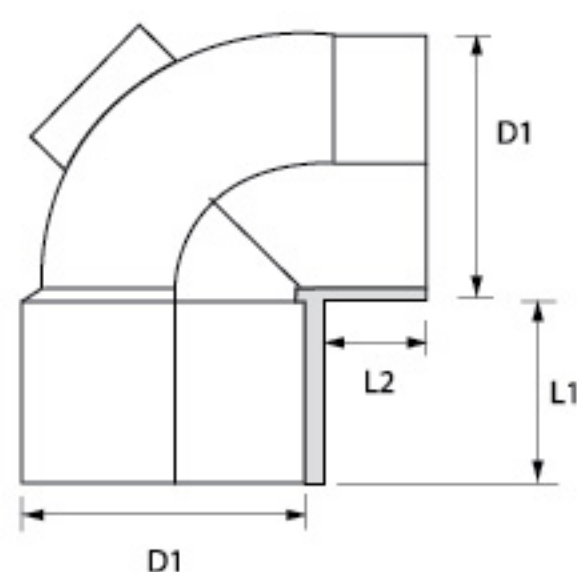
## Bossed Bend (M/F)

| Code No.   | Size (mm) | Angle $\theta$ | D1    | L1 | L2 |
|------------|-----------|----------------|-------|----|----|
| B50-110-90 | 110       | 90             | 110.2 | 50 | 25 |
|            |           |                |       |    |    |
|            |           |                |       |    |    |



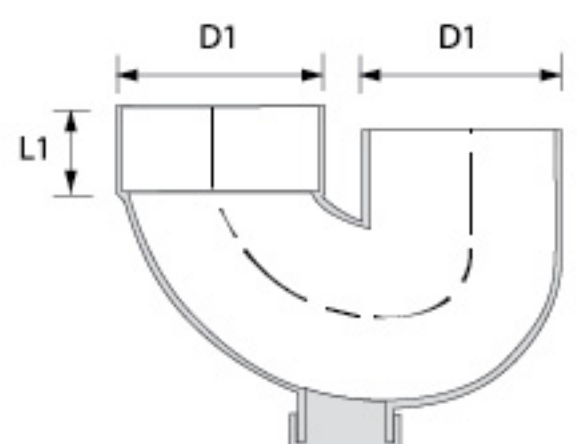
## Bossed Bend with I/O (M/F)

| Code No.   | Size (mm) | Angle $\theta$ | D1    | L1 | L2 |
|------------|-----------|----------------|-------|----|----|
| B60-110-90 | 110       | 90             | 110.2 | 50 | 25 |
|            |           |                |       |    |    |
|            |           |                |       |    |    |



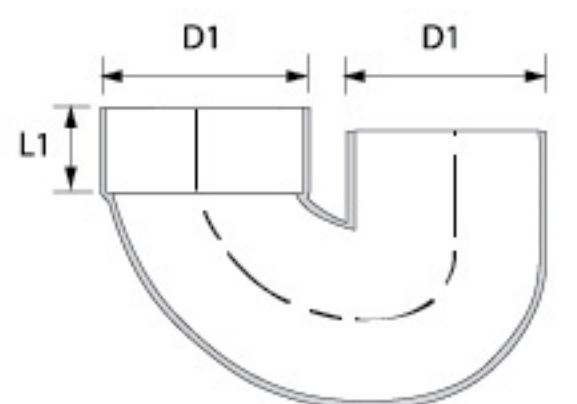
## U Body with I/O (M/F)

| Code No.   | Size (mm) | D1    | L1 |
|------------|-----------|-------|----|
| U20-110-90 | 110       | 110.2 | 50 |
|            |           |       |    |
|            |           |       |    |



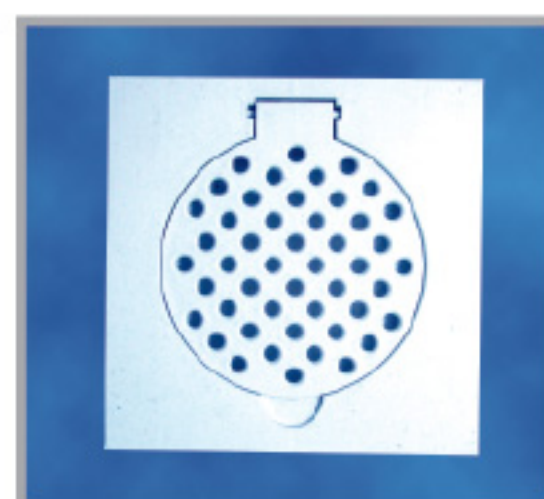
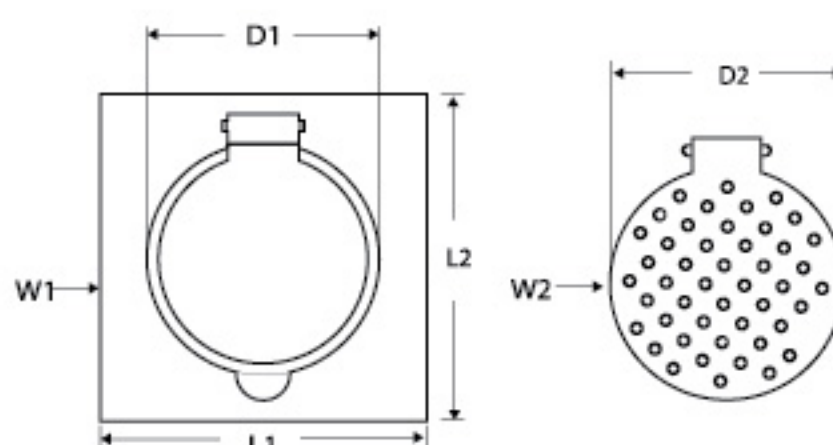
## U Body (M/F)

| Code No.   | Size (mm) | D1    | L1 |
|------------|-----------|-------|----|
| U10-110-90 | 110       | 110.2 | 50 |
|            |           |       |    |
|            |           |       |    |



## Floor Grating

| Code No.   | L1  | L2  | D1    | D2  | W1  | W2  |
|------------|-----|-----|-------|-----|-----|-----|
| G10-160-00 | 144 | 144 | 100.5 | 100 | 2.5 | 4.0 |
|            |     |     |       |     |     |     |
|            |     |     |       |     |     |     |

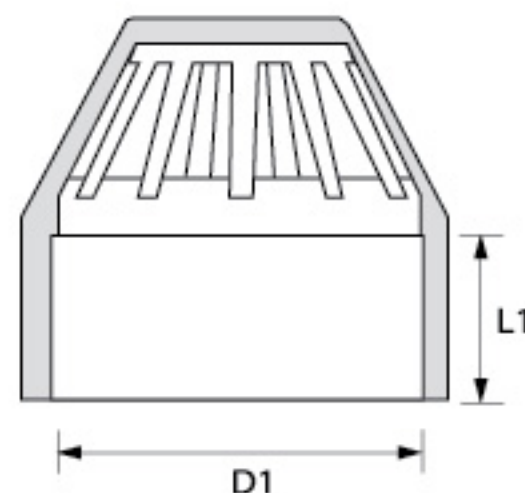




## Vent Cowl

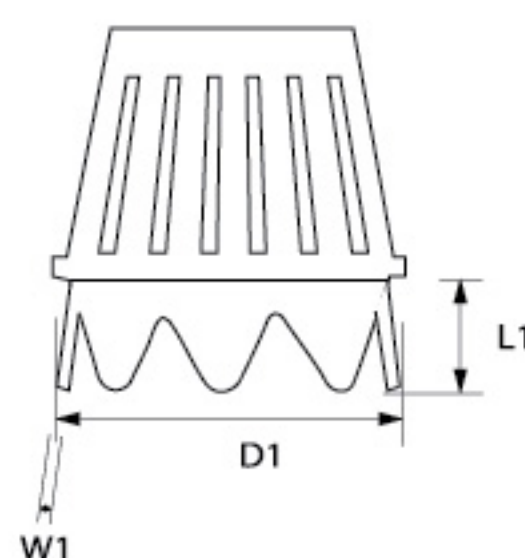
| Code No.    | Size (mm) | D1    | L1   |
|-------------|-----------|-------|------|
| AB10-56-00  | 56        | 55.9  | 30   |
| AB10-82-00  | 82        | 82.6  | 25   |
| AB10-110-00 | 110       | 110.2 | 25.5 |
| AB10-160-00 | 160       | 160.4 | 38   |

To cap open end of soil and vent stack, solvent welded to pipe.



## Dome Filter

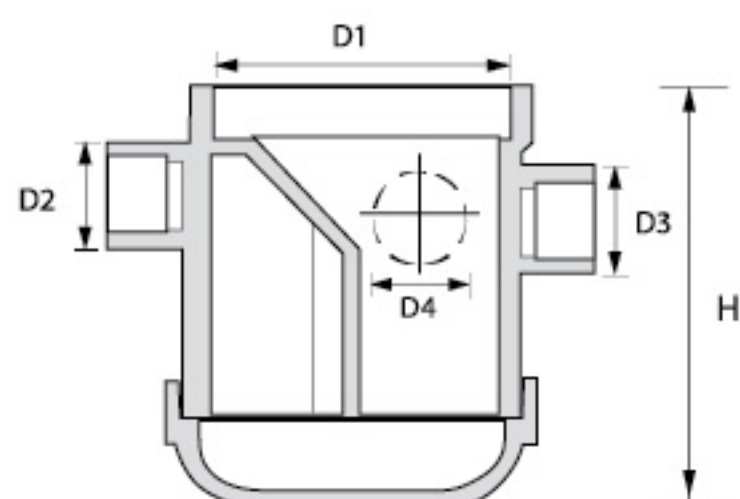
| Code No.    | Size (mm) | D1    | L1   | W1 |
|-------------|-----------|-------|------|----|
| AB30-110-00 | 110       | 110.2 | 28.5 | 4  |
| AB30-160-00 | 160       | 155   | 50   | 5  |
| AB30-200-00 | 200       | 192   | 62   | 5  |



## (i) Floor Gully with Trap & I/O

### Floor Gully with Trap & I/O (56mm)x3

| Code No.    | Size (mm) | D1    | D2   | D3   | D4   | H     |
|-------------|-----------|-------|------|------|------|-------|
| AG30-110x56 | 110x56    | 110.2 | 55.9 | 55.9 | 55.9 | 194.2 |



### Floor Gully with Trap & I/O (82mmx56mm)

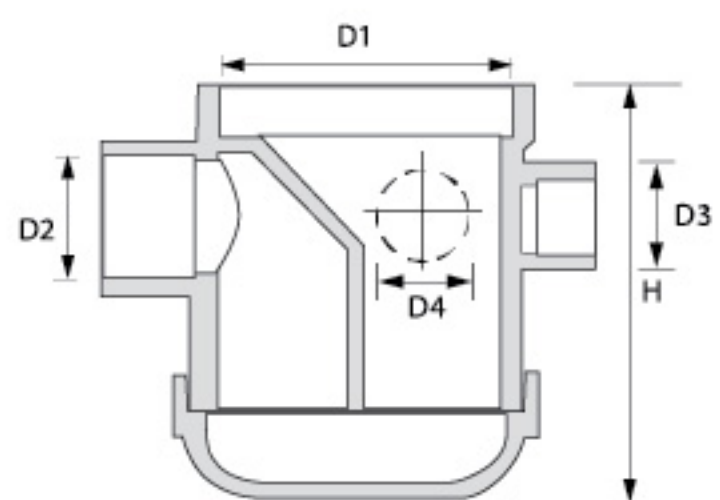
| Code No.    | Size (mm) | D1    | D2   | D3   | D4   | H     |
|-------------|-----------|-------|------|------|------|-------|
| AG30-110x82 | 110x82    | 110.2 | 82.6 | 55.9 | 55.9 | 194.2 |

Integrally moulded boss adaptor with 56mm socket to accept waste pipe or other fittings.

## (ii) Floor Gully with Trap & I/O

| Code No.    | Size (mm) | D1    | D2   | D3   | D4   | H   |
|-------------|-----------|-------|------|------|------|-----|
| AG10-110x56 | 110x56    | 110.2 | 55.9 | 55.9 | 42.9 | 212 |
| AG10-110x82 | 110x82    | 110.2 | 82.6 | 55.9 | 42.9 | 212 |

Integrally moulded boss adaptor with 43mm & 56mm socket to accept waste pipe or other fittings.

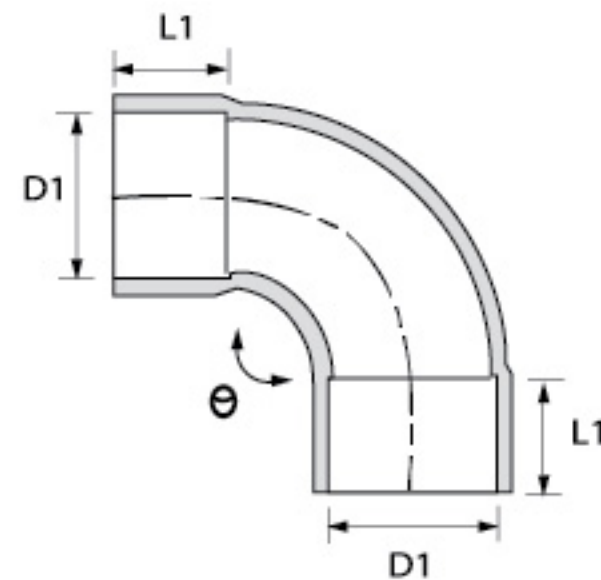




## Underground Sweep Bend

| Code No.    | Size (mm) | Angle $\theta$ | D     | L  |
|-------------|-----------|----------------|-------|----|
| UB70-110-92 | 110       | 92.5           | 110.2 | 50 |
| UB10-160-92 | 160       | 92.5           | 160.4 | 78 |
| UB10-200-92 | 200       | 92.5           | 200.5 | 80 |

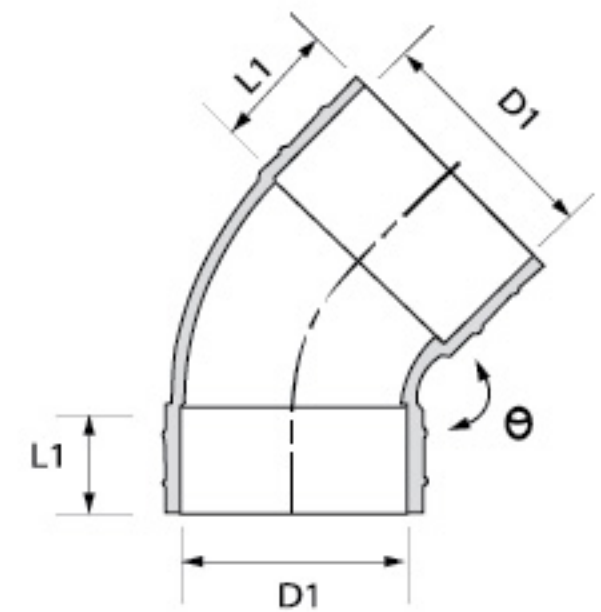
To solvent weld to soil pipe.



## 45° Underground Bend Plain

| Code No.     | Size (mm) | Angle $\theta$ | D     | L  |
|--------------|-----------|----------------|-------|----|
| UC10-110-135 | 110       | 45             | 110.2 | 50 |
| UC10-160-135 | 160       | 45             | 160.4 | 78 |
| UC10-200-135 | 200       | 45             | 200.5 | 80 |

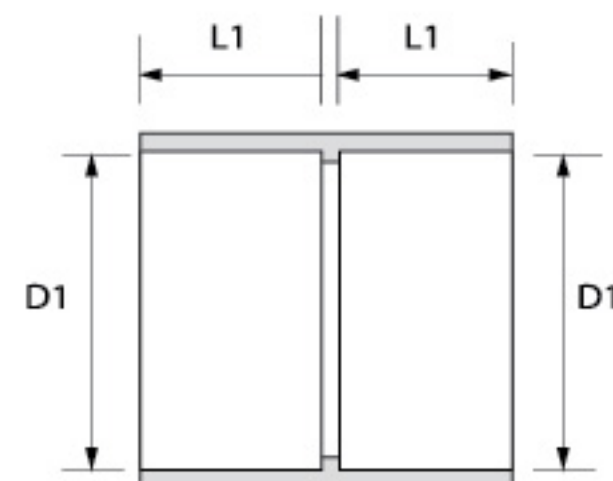
To solvent weld to soil pipe.



## Underground Straight Coupling

| Code No.    | Size (mm) | D1    | L1 |
|-------------|-----------|-------|----|
| UL10-110-00 | 110       | 110.2 | 50 |
| UL10-160-00 | 160       | 160.4 | 78 |
| UL10-200-00 | 200       | 200.5 | 80 |

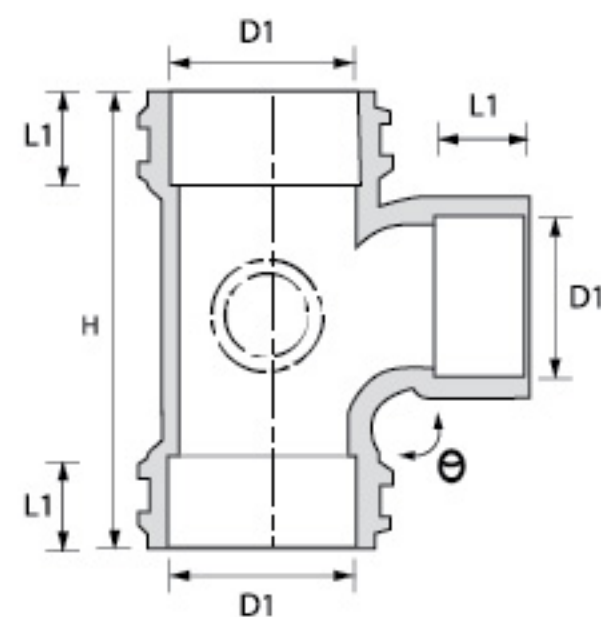
To solvent weld together two length of uPVC soil or waste pipes.



## Underground Equal Single Branch

| Code No.    | Size (mm) | Angle $\theta$ | D1    | L1 | H     |
|-------------|-----------|----------------|-------|----|-------|
| UE10-110-92 | 110       | 92.5           | 110.2 | 50 | 250   |
| UE10-160-92 | 160       | 92.5           | 160.4 | 75 | 350.5 |
| UE10-200-92 | 200       | 92.5           | 200.5 | 80 | 404   |

To solvent weld to soil pipe.  
92 branches have integrally moulded boss adaptor socket to accept waste pipes or fitting.

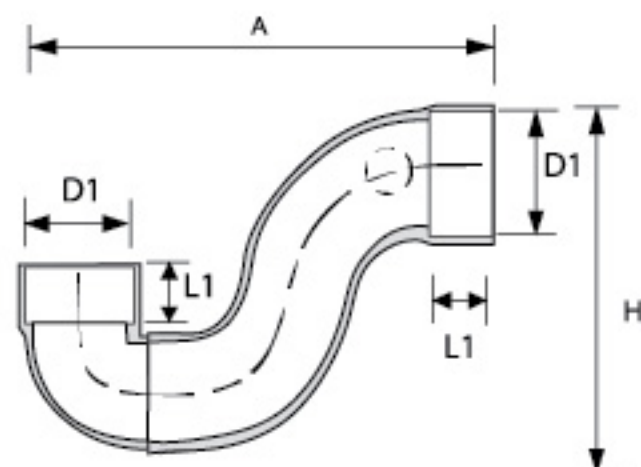




## Underground "P" Trap Plain

| Code No.    | Size (mm) | D1    | L1 | A   | H   |
|-------------|-----------|-------|----|-----|-----|
| UZ30-110-92 | 110       | 110.2 | 50 | 380 | 270 |

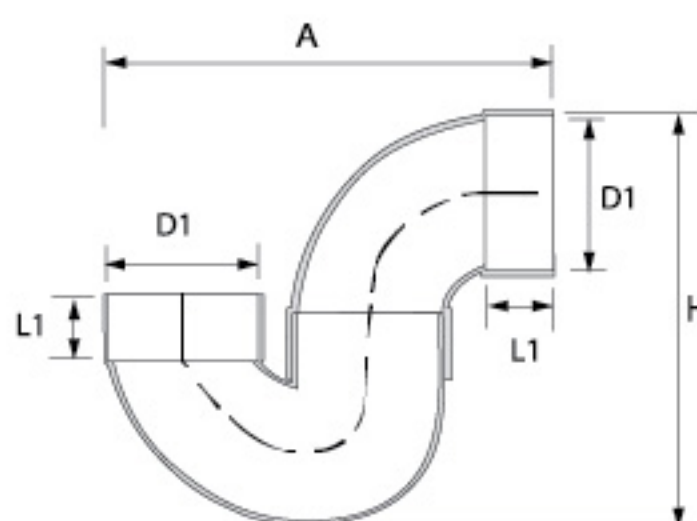
Underground "P" Trap with water seal for gas-tight connection to SWV system.



## Underground "P" Trap Plain (U body)

| Code No.    | Size (mm) | D1    | L1 | A   | H   |
|-------------|-----------|-------|----|-----|-----|
| UZ50-110-92 | 110       | 110.2 | 50 | 300 | 280 |

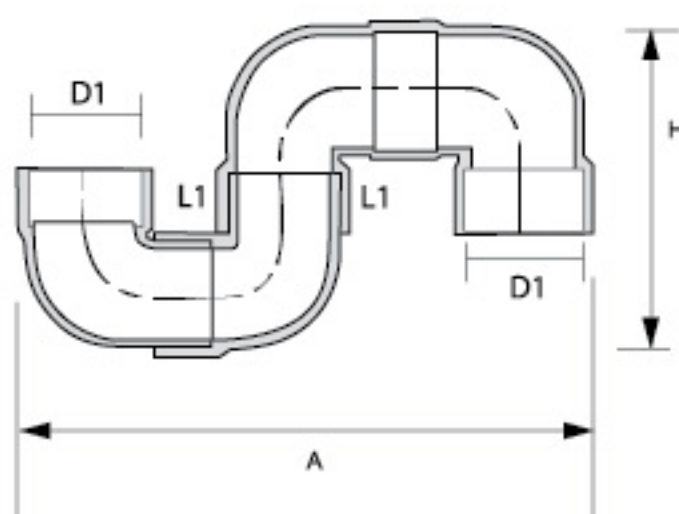
Underground "P" Trap with water seal for gas-tight connection to SWV system.



## Underground "S" Trap Plain

| Code No.    | Size (mm) | D1    | L1 | A   | H   |
|-------------|-----------|-------|----|-----|-----|
| US30-110-92 | 110       | 110.2 | 50 | 470 | 280 |

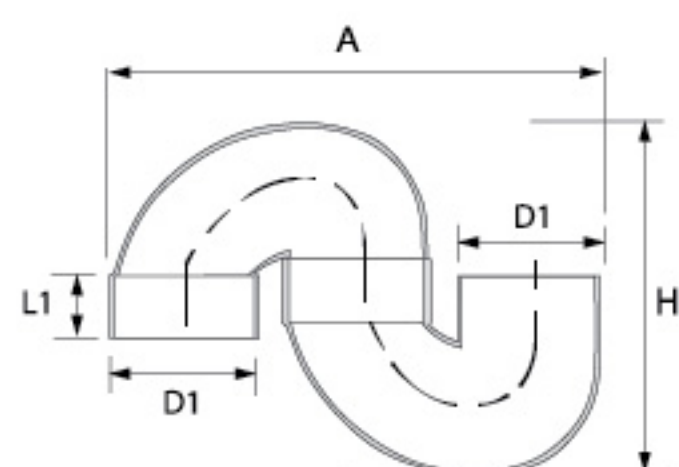
Underground "S" Trap with water seal for gas-tight connection to SWV system.



## Underground "S" Trap Plain (U body)

| Code No.    | Size (mm) | D1    | L1 | A   | H   |
|-------------|-----------|-------|----|-----|-----|
| US50-110-92 | 110       | 110.2 | 50 | 390 | 260 |

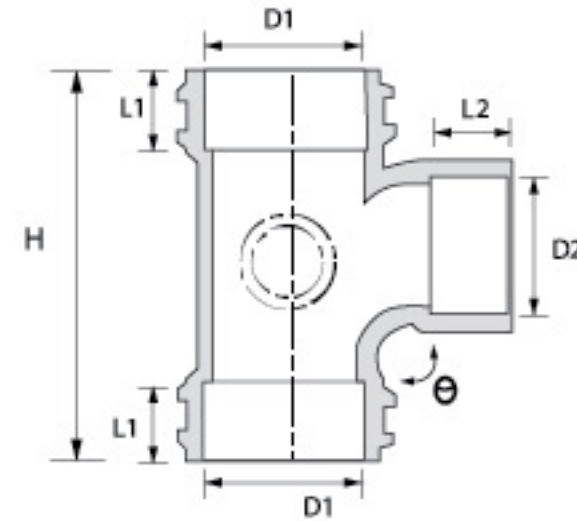
Underground "S" Trap with water seal for gas-tight connection to SWV system.





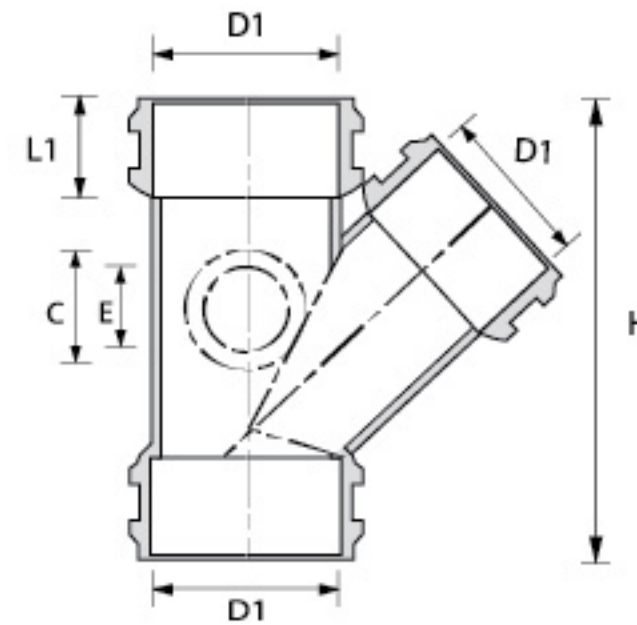
## Underground Reducing Equal Single Branch

| Code No.     | Size (mm) | Angle $\theta$ | D1    | L1 | H     | C  | E   |
|--------------|-----------|----------------|-------|----|-------|----|-----|
| UE10-160x110 | 160x110   | 92.5           | 160.4 | 75 | 110.2 | 50 | 350 |



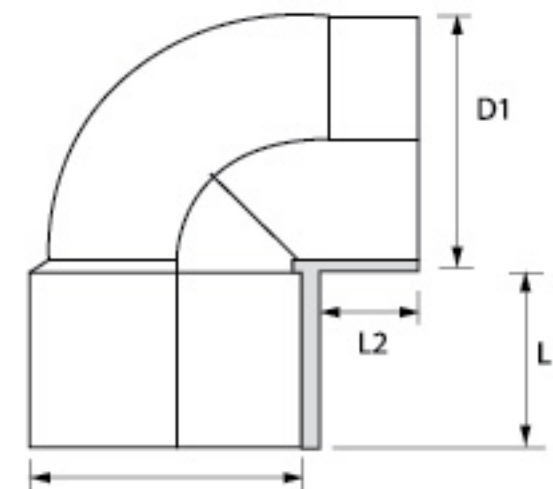
## Underground 45° Equal Single Branch (Y - Tee)

| Code No.     | Size (mm) | Angle $\theta$ | D1    | L1 | H   | C | E    |
|--------------|-----------|----------------|-------|----|-----|---|------|
| UEY10-110-92 | 110       |                | 110.2 | 50 | 265 | — | 55.9 |



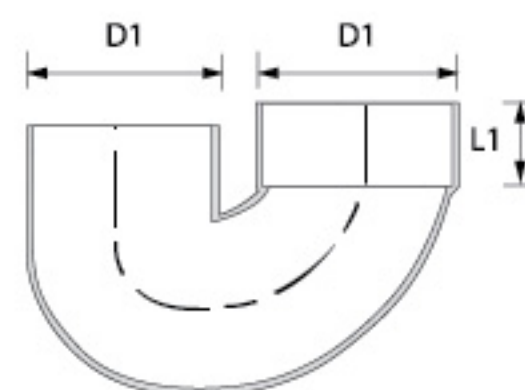
## Underground Bossed Bend (M/F)

| Code No.    | Size (mm) | Angle $\theta$ | D1    | L1 | L2 |
|-------------|-----------|----------------|-------|----|----|
| UB50-110-90 | 110       | 90             | 110.2 | 50 | 25 |



## Underground U Body (M/F)

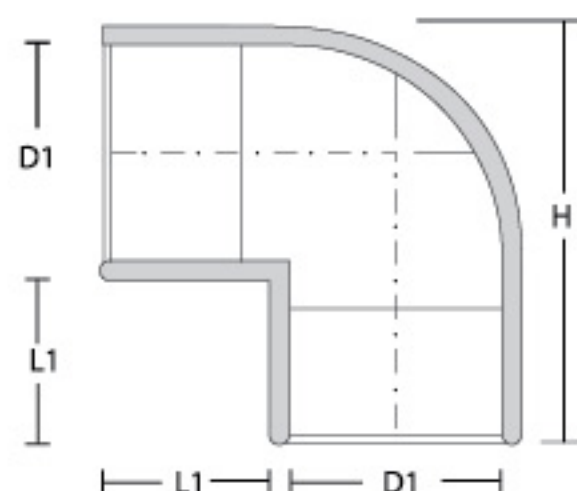
| Code No.    | Size (mm) | D1    | L1 |
|-------------|-----------|-------|----|
| UU10-110-90 | 110       | 110.2 | 50 |
|             |           |       |    |
|             |           |       |    |





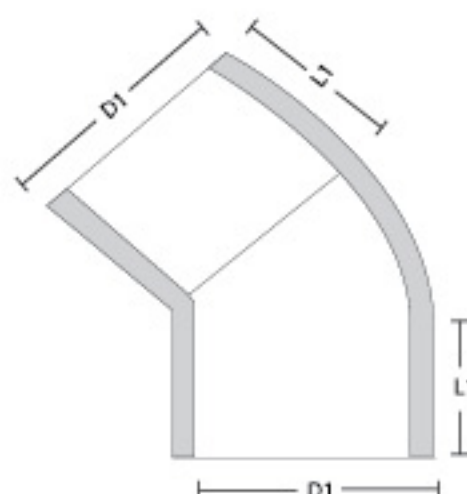
## Equal Elbow

| Code No. | Size (mm) | DIMENSION (mm) |      |       |
|----------|-----------|----------------|------|-------|
|          |           | D1             | L1   | H     |
| H-B10-15 | 15        | 21.3           | 25   | 51    |
| H-B10-20 | 20        | 26.7           | 26.5 | 57    |
| H-B10-25 | 25        | 33.5           | 28   | 67    |
| H-B10-32 | 32        | 42.2           | 32.1 | 81.5  |
| H-B10-40 | 40        | 48.2           | 34   | 91.5  |
| H-B10-50 | 50        | 60.3           | 40   | 110.5 |



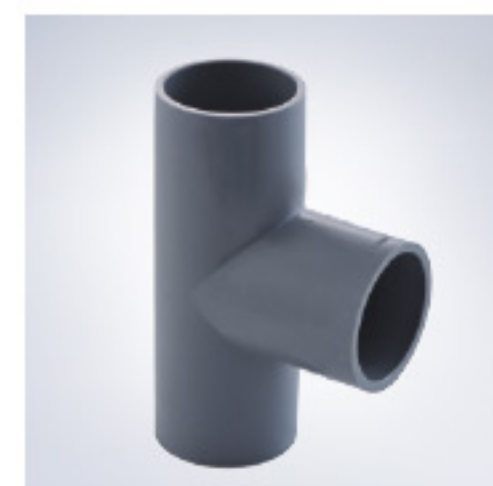
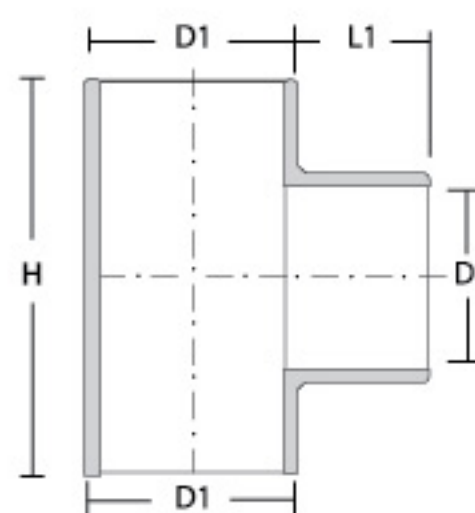
## 45° Elbow

| Code No. | Size (mm) | DIMENSION (mm) |      |   |
|----------|-----------|----------------|------|---|
|          |           | D1             | L1   | H |
| H-C10-15 | 15        | 21.3           | 21   |   |
| H-C10-20 | 20        | 26.7           | 26.5 |   |
| H-C10-25 | 25        | 33.5           | 28   |   |



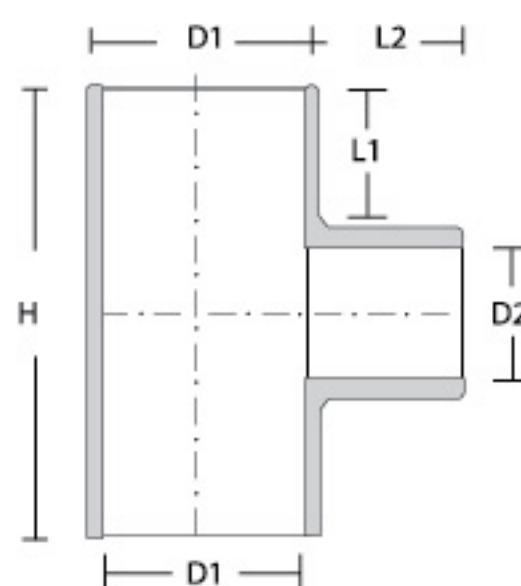
## Equal Tee

| Code No. | Size (mm) | DIMENSION (mm) |      |       |
|----------|-----------|----------------|------|-------|
|          |           | D1             | L1   | H     |
| H-E10-15 | 15        | 21.3           | 25   | 73.5  |
| H-E10-20 | 20        | 26.7           | 26.5 | 84.5  |
| H-E10-25 | 25        | 33.5           | 28   | 102   |
| H-E10-32 | 32        | 42.2           | 27.1 | 114.6 |
| H-E10-40 | 40        | 48.2           | 34   | 117   |
| H-E10-50 | 50        | 60.3           | 40   | 141   |



## Reducing Tee

| Code No.    | Size (mm) | DIMENSION (mm) |      |       |      |      |
|-------------|-----------|----------------|------|-------|------|------|
|             |           | D1             | D2   | H     | L1   | L2   |
| H-E10-20x15 | 20X15     | 26.7           | 21.3 | 84.8  | 26.5 | 25.5 |
| H-E10-25x15 | 25X15     | 33.5           | 21.3 | 102.5 | 29.5 | 30   |
| H-E10-25x20 | 25X20     | 33.5           | 26.7 | 102.5 | 29.5 | 30   |
| H-E10-32x20 | 32X20     | 42.2           | 26.7 | 114.4 | 50.2 | 28.1 |
| H-E10-32x25 | 32X25     | 42.2           | 33.5 | 114.4 | 50.2 | 28.1 |
| H-E10-40x15 | 40X15     | 48.2           | 21.3 | 121.5 | 56.5 | 34.1 |
| H-E10-40x20 | 40X20     | 48.2           | 26.7 | 121.5 | 56.5 | 34.1 |
| H-E10-40x25 | 40X25     | 48.2           | 33.5 | 121.5 | 56.5 | 34.1 |
| H-E10-40x32 | 40X32     | 48.2           | 42.2 | 121.5 | 56.5 | 34.1 |
| H-E10-50x15 | 50X15     | 60.3           | 21.3 | 145.4 | 69.4 | 42.3 |
| H-E10-50x20 | 50X20     | 60.3           | 26.7 | 145.4 | 69.4 | 42.3 |
| H-E10-50x25 | 50X25     | 60.3           | 33.5 | 145.4 | 69.4 | 42.3 |
| H-E10-50x32 | 50X32     | 60.3           | 42.2 | 145.4 | 69.4 | 42.3 |
| H-E10-50x40 | 50X40     | 60.3           | 48.2 | 145.4 | 69.4 | 42.3 |

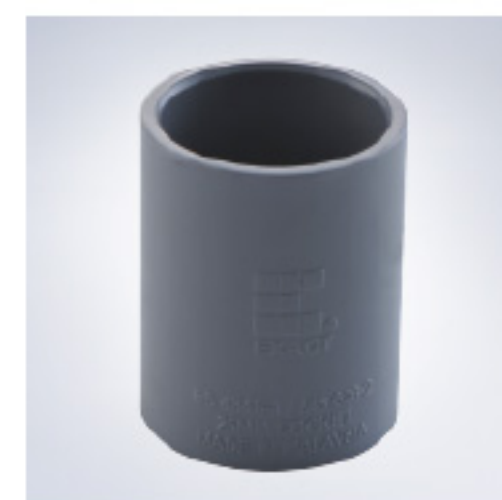
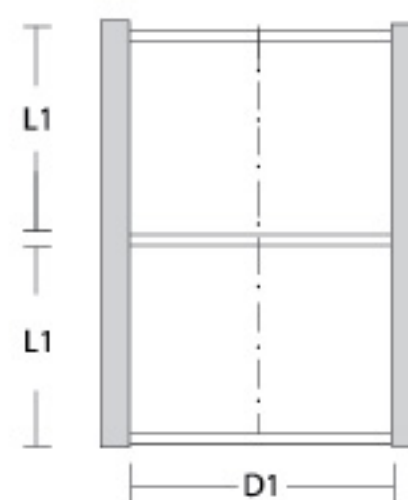


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## Double End (DE) Socket

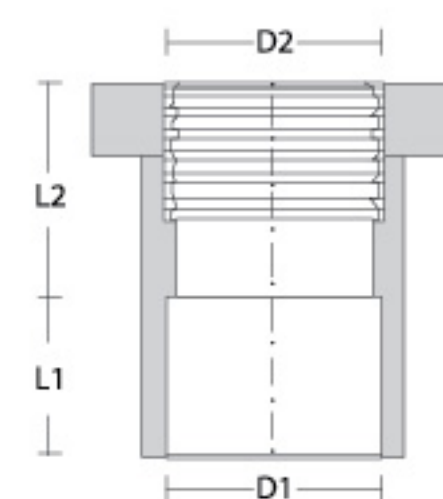
| Code No. | Size (mm) | DIMENSION (mm) |      |
|----------|-----------|----------------|------|
|          |           | D1             | L1   |
| H-L10-15 | 15        | 21.3           | 21.1 |
| H-L10-20 | 20        | 26.7           | 22.3 |
| H-L10-25 | 25        | 33.5           | 22.7 |
| H-L10-32 | 32        | 42.2           | 42.5 |
| H-L10-40 | 40        | 48.2           | 42.5 |
| H-L10-50 | 50        | 60.3           | 51   |



## Faucet (P/T) Socket

| Code No.  | Size (mm) | DIMENSION (mm) |      |      |      |
|-----------|-----------|----------------|------|------|------|
|           |           | D1             | D2   | L1   | L2   |
| H-PT10-15 | 15        | 21.3           | 21.2 | 25   | 19   |
| H-PT10-20 | 20        | 26.7           | 26.8 | 26.5 | 25.5 |
| H-PT10-25 | 25        | 33.5           | 33.5 | 30   | 29.5 |
| H-PT10-32 | 32        | 42.2           | 42.8 | 41.9 | 26.5 |
| H-PT10-40 | 40        | 48.2           | 48.4 | 45.1 | 33.8 |
| H-PT10-50 | 50        | 60.3           | 60.2 | 60.0 | 37.7 |

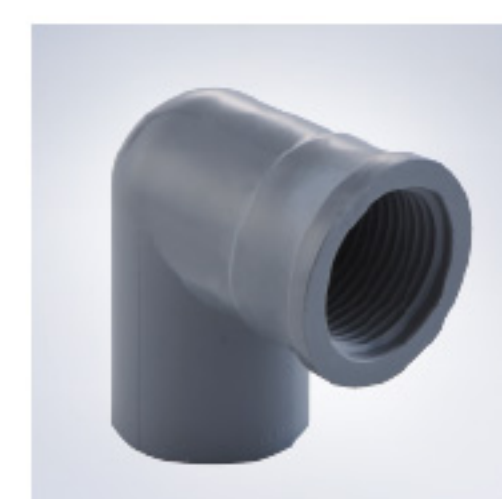
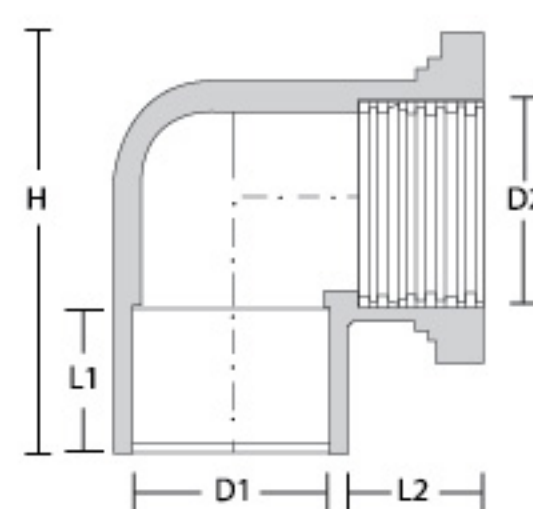
\* Coming Soon



## Faucet (P/T) Elbow

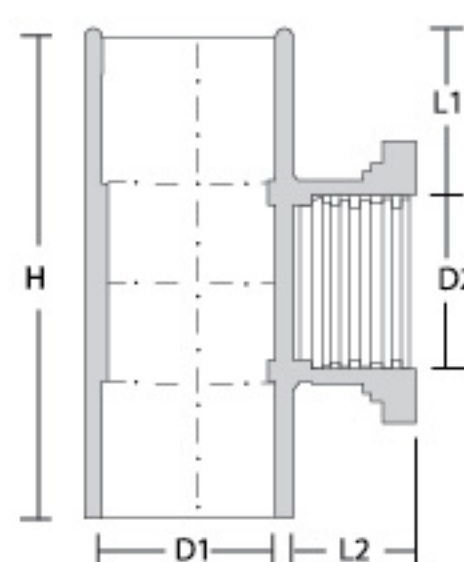
| Code No.  | Size (mm) | DIMENSION (mm) |      |      |      |       |
|-----------|-----------|----------------|------|------|------|-------|
|           |           | D1             | D2   | L1   | L2   | H     |
| H-PE10-15 | 15        | 21.3           | 21.2 | 25   | 16.5 | 59.5  |
| H-PE10-20 | 20        | 26.7           | 26.8 | 26.5 | 25.5 | 66    |
| H-PE10-25 | 25        | 33.5           | 33.5 | 30   | 29.5 | 71    |
| H-PE10-32 | 32        | 42.2           | 42.8 | 41.9 | 24.3 | 75    |
| H-PE10-40 | 40        | 48.2           | 48.8 | 45.1 | 27.2 | 95.1  |
| H-PE10-50 | 50        | 60.3           | 60.2 | 60.0 | 33   | 106.4 |

\* Coming Soon



## Faucet (P/T) Tee

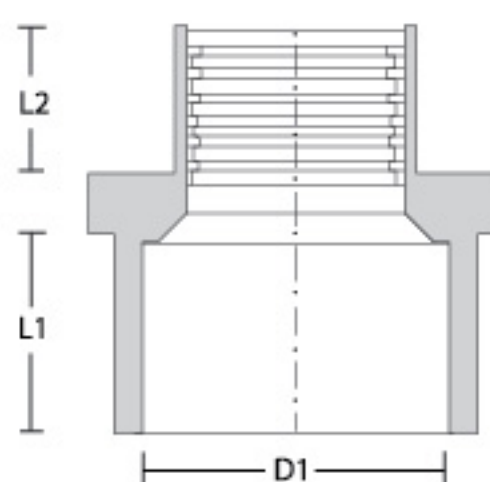
| Code No.  | Size (mm) | DIMENSION (mm) |      |      |    |    |
|-----------|-----------|----------------|------|------|----|----|
|           |           | D1             | D2   | H    | L1 | L2 |
| H-PA10-15 | 15        | 21.3           | 22.0 | 66.5 | 22 | 16 |





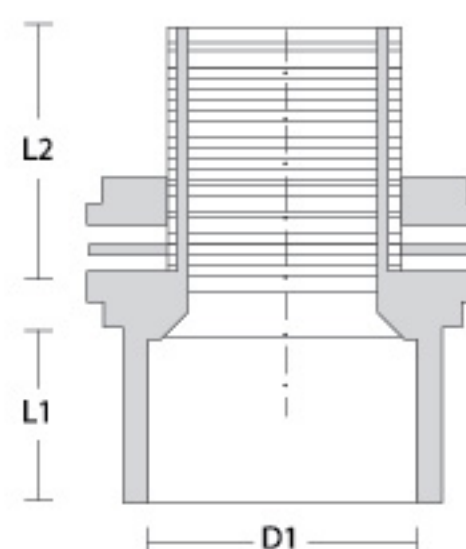
## Valve Socket

| Code No.  | Size (mm) | DIMENSION (mm) |      |      |
|-----------|-----------|----------------|------|------|
|           |           | D1             | L1   | L2   |
| H-VL10-15 | 15        | 21.3           | 26.5 | 17.3 |
| H-VL10-20 | 20        | 26.7           | 29.3 | 20   |
| H-VL10-25 | 25        | 33.5           | 31.3 | 23.8 |
| H-VL10-32 | 32        | 42.2           | 36.3 | 24.3 |
| H-VL10-40 | 40        | 48.2           | 42.6 | 26.3 |
| H-VL10-50 | 50        | 60.3           | 67.8 | 30.6 |



## V-Tank Connector

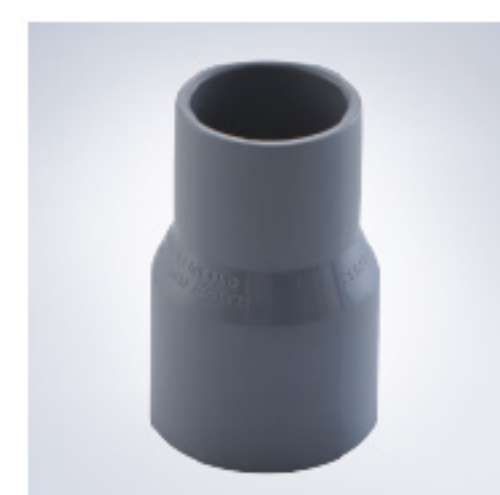
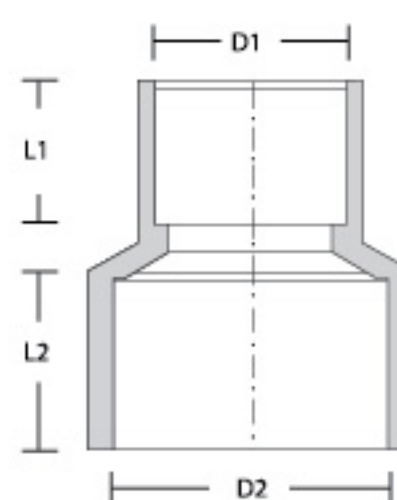
| Code No.  | Size (mm) | DIMENSION (mm) |      |      |
|-----------|-----------|----------------|------|------|
|           |           | D1             | L1   | L2   |
| H-VT10-15 | 15        | 21.3           | 32.8 | 32.8 |
| H-VT10-20 | 20        | 26.7           | 33.2 | 33.2 |
| H-VT10-25 | 25        | 33.5           | 42.4 | 40   |
| H-VT10-32 | 32        | 42.2           | 51.5 | 57.9 |
| H-VT10-40 | 40        | 48.2           | 62.8 | 56.9 |
| H-VT10-50 | 50        | 60.3           | 64.5 | 34.6 |



## Reducing Socket

| Code No.    | Size (mm) | DIMENSION (mm) |      |      |      |
|-------------|-----------|----------------|------|------|------|
|             |           | D1             | D2   | L1   | L2   |
| H-Q10-20X15 | 20X15     | 21.3           | 26.7 | 17.3 | 20.9 |
| H-Q10-25X15 | 25X15     | 21.3           | 33.5 | 20   | 25   |
| H-Q10-25X20 | 25X20     | 26.7           | 33.5 | 22   | 25   |
| H-Q10-32X15 | 32X15     | 21.3           | 42.2 | 25.7 | 27.2 |
| H-Q10-32X20 | 32X20     | 26.7           | 42.2 | 25.9 | 27.2 |
| H-Q10-32X25 | 32X25     | 33.5           | 42.2 | 25.9 | 28.0 |
| H-Q10-40X15 | 40X15     | 21.3           | 48.2 | 28.0 | 28.7 |
| H-Q10-40X20 | 40X20     | 26.7           | 48.2 | 28.0 | 28.7 |
| H-Q10-40X25 | 40X25     | 33.5           | 48.2 | 28.0 | 28.6 |
| H-Q10-40X32 | 40X32     | 42.2           | 48.2 | 28.1 | 28.6 |
| H-Q10-50X15 | 50X15     | 21.3           | 60.3 | 33.4 | 35.5 |
| H-Q10-50X20 | 50X20     | 26.7           | 60.3 | 33.3 | 35.6 |
| H-Q10-50X25 | 50X25     | 33.5           | 60.3 | 36.1 | 34.4 |
| H-Q10-50X32 | 50X32     | 42.2           | 60.3 | 33.3 | 38.1 |
| H-Q10-50X40 | 50X40     | 48.2           | 60.3 | 33.1 | 35.5 |

\* Coming Soon

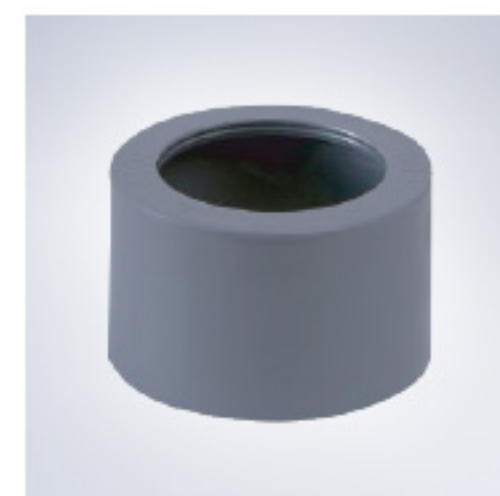
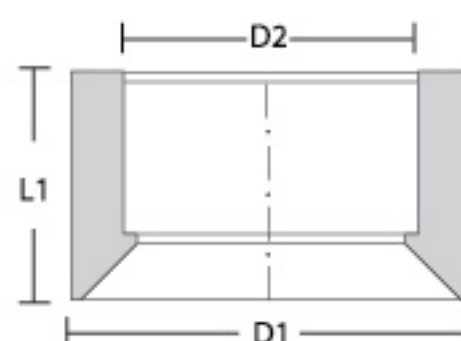




## Reducing Bush

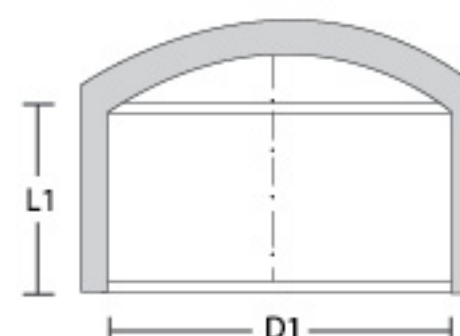
| Code No.    | Size (mm) | DIMENSION (mm) |      |        |
|-------------|-----------|----------------|------|--------|
|             |           | D1             | D2   | L1     |
| H-Q30-20x15 | 20X15     | 26.7           | 21.3 | 21.2   |
| H-Q30-25x15 | 25X15     | 33.5           | 21.3 | 26.8   |
| H-Q30-25x20 | 25X20     | 33.5           | 26.7 | 26.8   |
| H-Q30-32x15 | 32X15     | 42.2           | 21.3 | 31.7 * |
| H-Q30-32x20 | 32X20     | 42.2           | 26.7 | 31.7 * |
| H-Q30-32x25 | 32X25     | 42.2           | 33.5 | 31.7   |
| H-Q30-40x15 | 40X15     | 48.2           | 21.3 | 34 *   |
| H-Q30-40x20 | 40X20     | 48.2           | 26.7 | 34 *   |
| H-Q30-40x25 | 40X25     | 48.2           | 33.5 | 34     |
| H-Q30-40x32 | 40X32     | 48.2           | 42.2 | 34     |
| H-Q30-50x15 | 50X15     | 60.3           | 21.3 | 39 *   |
| H-Q30-50x20 | 50X20     | 60.3           | 26.7 | 39 *   |
| H-Q30-50x25 | 50X25     | 60.3           | 33.5 | 39 *   |
| H-Q30-50x32 | 50X32     | 60.3           | 42.2 | 39     |
| H-Q30-50x40 | 50X40     | 60.3           | 48.2 | 39     |

\* Coming Soon



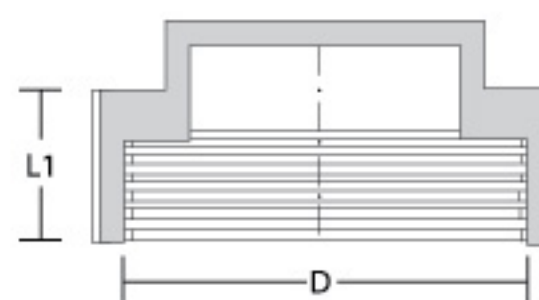
## End Cap

| Code No.  | Size (mm) | DIMENSION (mm) |      |
|-----------|-----------|----------------|------|
|           |           | D1             | L1   |
| H-EC10-15 | 15        | 21.3           | 18   |
| H-EC10-20 | 20        | 26.7           | 21.1 |
| H-EC10-25 | 25        | 33.5           | 25   |
| H-EC10-32 | 32        | 42.2           | 31.6 |
| H-EC10-40 | 40        | 48.2           | 31.7 |
| H-EC10-50 | 50        | 60.3           | 32   |

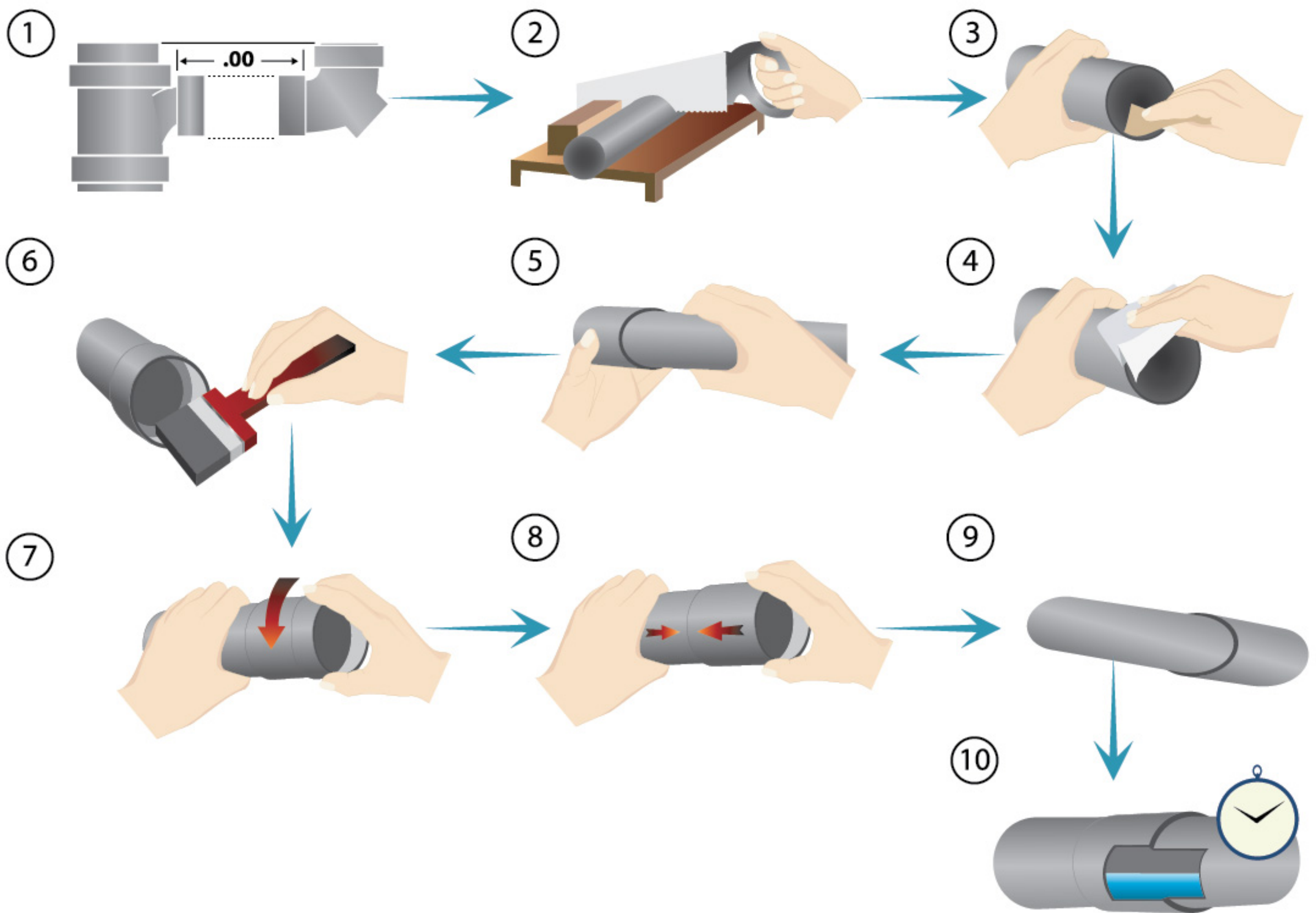


## Plug

| Code No. | Size (mm) | DIMENSION (mm) |   |
|----------|-----------|----------------|---|
|          |           | L1             | D |
| H-P10-15 | 15        | 12.5           |   |







## Installation of Pipes and Fittings with Solvent Cement Jointing Procedure

1. Measure pipe from bottom or shoulder of each socket into which pipe is fit.
2. Cut pipe to required length, making sure cut is square.
3. Ream inside and chamfer outside of pipe to eliminate all burrs and swarf.
4. Sand lightly. Failure to do so lead to failure of the joint. Clean all dirt, moisture, and grease from pipe and fitting socket, using a clean, dry cloth.
5. Check dry fit of pipe in fitting socket. Pipe should enter fitting socket to between  $\frac{1}{2}$  and  $\frac{3}{4}$  the socket depth.
6. Be sure to use only approved types of fittings and adapters. Using brush or dauber-type device, apply a light coat of approved solvent cement to the inside of the fitting socket, using straight, outward strikes.
7. Apply solvent cement to the outside of the pipe in a similar manner. Times is important at this stage: apply cement quickly and do not allow it to set before the joint is put together. Always follow safe-handling practices when using solvent cements: use in a well-ventilated area, avoid skin contact (wear gloves) and do not use near heat, sparks or open flame. Immediately insert pipe into fitting socket, giving the pipe a one-quarter turn and making sure it goes all the way to the socket bottom.
8. Hold the joint together until a tight set is attained.
9. Check cement bead around joint. A proper joint will normally show a bead around its entire perimeter.
10. Any gaps may indicate insufficient cement or the use of light boiled cement on larger diameters where heavy bodied cement was required. After setting, wipe excess cement from the pipe. Don't move the system until the joint have cured (set) at least as long a recommended by the solvent manufacturer.





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Version 5 : (Aug 16)