

Application:

Drainage and wastewater conduction in residential and industrial systems.

DWV Pipes and Fittings are used in sanitary, ventilation, pressureless sanitary drains, storm drain, and other drainage applications from -40 to 140 °F.

Check state and local codes for applications and restrictions.

ABS DWV



1. Technical Characteristics:

1.1 General Characteristics:

- Line components manufactured in ABS (Acrylonitrile-Butadiene-Styrene).
- Color: Black.
- Maximum work temperature: 140°F.

1.2 Reference Specifications:

- ASTM D-3965 - Standard Classification System and Basis for Specifications for Rigid Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings.
- ASTM F-628 - Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core.
- ASTM D-2661 - Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings.
- ASTM D-3311 - Standard Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns.
- ASTM F-1498 - Standard Specification for Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings.
- ASTM D2321 - Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications.
- ASTM F1668 - Standard Guide for Construction Procedures for Buried Plastic Pipe.
- NSF Standard 14 - Plastics Piping System Components and Related Materials (Third Party Certification products meet applicable ASTM performance requirements).

1.3 Validity and Warranty Period:

Products warranted to be free from manufacturing defects and to conform to currently applicable ASTM standards for a period of (5) five years from the date of delivery and provided that the manufacturer's installation conditions and local regulations are respected.

Properties* of ABS:

Property	Measurement Method	Units	Values
Specific Gravity	ASTM D792	g/cc	1,05
Modulus of Elasticity in Tension (73°F) Minimum	ASTM D638	Psi	240,000
Specific Heat	D 2766	BTU/ °F/lb	0.35
Cell Classification - Pipe	ASTM D3965	-	42222
Cell Classification - Fittings	ASTM D3965	-	32222
Impact Strength IZOD (notched at 73°F) Minimum	ASTM D256	ft lb/ in. of notch	6,00
Tensile Strength (73°F) minimum	ASTM D638	Psi	4,500
Flexural Strength (73°F)	ASTM D790	Psi	10,585
Hardness (Shore D)	ASTM D2240	-	70
Hardness (Rockwell R)	ASTM D785	-	100
Compressive Strength (73°F)	ASTM D695	Psi	7,000
Heat Distortion Temperature at 264 psi Minimum	ASTM D648	°F	180
Coefficient of Linear Thermal Expansion	ASTM D696	in./ in./ °F	5.5 x 10 ⁻⁵
Water Absorption (24 hours at 73°F)	ASTM D570	% weight gain	0,40 ⁵
Coefficient of Thermal Conductivity	ASTM C177	BTU/ hr/sq ft/ °F/ in.	1.1

* Above data is based upon information provided by the raw material manufacturers. It should be used only as a reference and not as a guarantee of performance.

2. Benefits:

2.1 Easy Installation:

There is no need for special tools. The fittings can be installed using the solvent cement joint technique. The pipes and fittings are light in weight significantly reducing installation costs.

2.2 No Conductivity:

It is not an electrical conductor and therefore it is not subject to the action of static energy.

2.3 Durability:

The ABS pipes and fittings are highly resilient, tough, and durable with high tensile and impact strength.

Corrosion free.

Cement bonded parts have shown excellent resistance to tree root infiltration that may cause blockages on installations.

3. Instructions:

3.2 Maintenance – Repair Coupling installation:

- 1) Cut the damaged part.
- 2) Remove burrs from the inside and outside of the pipe.
- 3) Bevel the pipe end.
- 4) Position the repair coupling between the two pipes and mark the outside of the pipe using the repair coupling socket depth as measurement.
- 5) Place the repair coupling on the pipe with the larger inside diameter end facing the gap between the pipe ends.
- 6) Apply cement on both pipes.
- 7) Push the repair coupling toward the gap. Stop when reaches the mark on the second pipe end. A bead of cement will be present around the entire diameter.



4. Instructions:

4.1 Installation:



Step 1 - Cut the pipe as straight as possible using a saw. A square cut provides the maximum surface to be used for bonding. Remove all burrs from the inner and outer edges with a knife or sandpaper. If burrs remain present, they will restrain the cement and primer and prevent proper bonding.



Step 5 - Apply a fine and uniform layer of solvent cement inside the fitting socket and on the tip of the pipe up to the pencil mark previously made. Take care not to leave any excess cement build-up at the bottom of the socket, this can cause leak points between the pipe and the fitting.



Step 2 - Check proper alignment of the pipe and the fitting. This must be done before bonding.



Step 6 - Quickly join the pieces together before the cement dries, pushing the end of the pipe to the bottom of the connection socket. Finish the process by giving a quarter turn to spread the cement evenly between the pieces. Hold the pieces in this position for at least thirty seconds without moving them.



Step 3 - Using a tape measure, measure the entire length of the connection socket. Then mark the same measurement at the pipe end. Do not use any object that scratches or damages the surface of the pipe, this would damage the seal between the pieces.



Step 7 - Remove excess cement from the pipe and the socket entrance using a clean and dry cloth. Do not move or rotate the pieces for at least five minutes, this movement may loosen the bonding.



Step 4 - Thoroughly clean the inside of the fitting socket and the end of the pipe with a clean cotton cloth soaked in primer. This will remove dust, dirt, and grease, making the parts' surfaces clean.



Step 8 - Cure time is the time required for bonded parts to reach the strength required to allow them to be tested by internal pressure or vacuum.

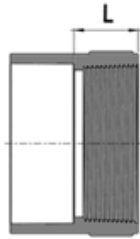
Attention:

Check the cement and primer datasheet for more details on the installation process and technical product information.



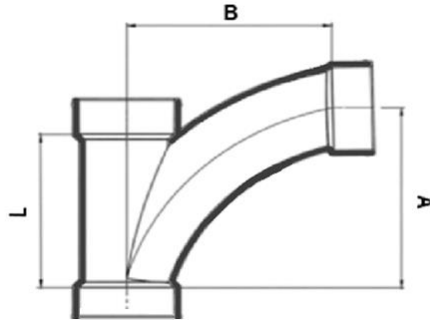
5. Line Items:

Female Adapter



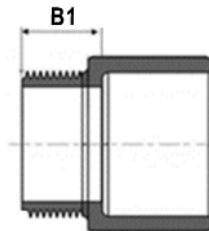
Dimensions				
Size	1 1/2"	2"	3"	4"
L	1"	1"	1 1/2"	1 5/8"
Part Number	601-385	601-393	601-401	601-419
Code	37059656	37059657	37059658	37059659

Combination Tee-Wye



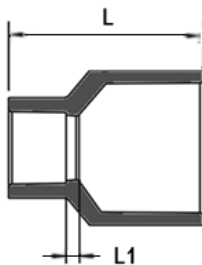
Dimensions					
Size	1 1/2"	2"	3"	3x3x2"	4"
A	3 7/8"	5 1/8"	7 9/16"	5 11/16"	10"
B	3 15/16"	5 1/8"	7 9/16"	5 1/8"	10"
L	3 1/2"	4 7/16"	6 1/2"	4 7/16"	8 1/2"
Part Number	604-264	604-272	604-280	604-603	604-298
Code	37059660	37059661	37059662	37059663	37059664

Male Adapter



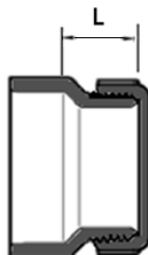
Dimensions			
Size	1 1/2"	2"	3"
B1	15/16"	31/32"	1 19/32"
Part Number	601-286	601-294	601-302
Code	37059665	37059666	37059667

Reducing Coupling



Dimensions			
Size	2 x 1.1/2"	3 x 2"	4 x 3"
L	2 3/32"	3 17/32"	4 3/16"
L1	5/8"	1 1/8"	15/16"
Part Number	601-195	601-211	601-252
Code	37059760	37059761	37059762

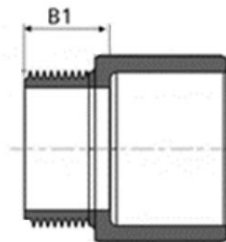
Female Trap Adapter



Dimensions		
Size	1.1/2x1.1/4"	2"
L	1 1/16"	31/32"
Part Number	601-930	18-200
Code	37059668	37059763

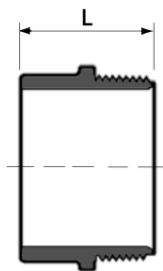


Fitting Adapter



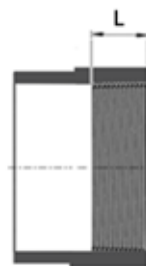
Dimensions	
Size	1 1/2"
B1	15/16"
Part Number	601-344
Code	37059671

Trap Adapter



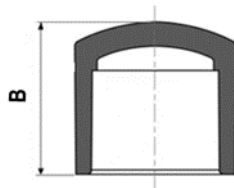
Dimensions	
Size	1 1/2 x 1 1/4"
L	1 21/32"
Part Number	601-989
Code	37059670

Fitting Cleanout Body



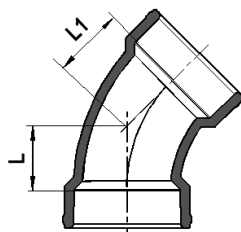
Dimensions				
Size	1 1/2"	2"	3"	4"
L	1"	1"	1 1/2"	1 5/8"
Part Number	601-450	601-468	601-476	601-484
Code	37059672	37059673	37059674	37059675

Cap



Dimensions				
Size	1 1/2"	2"	3"	4"
B	7/8"	3 1/32"	1 23/32"	2"
Part Number	602-540	602-557	602-565	602-573
Code	37059676	37059677	37059678	37059679

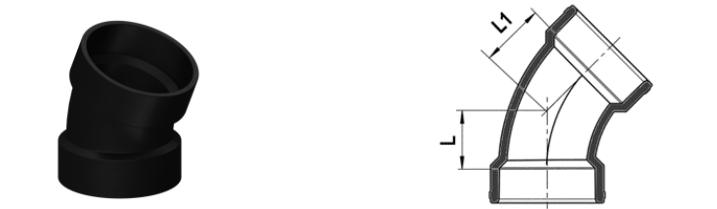
Sanitary Bend 45°



Dimensions				
Size	1 1/2"	2"	3"	4"
L	1 1/8"	1 1/2"	1 3/4"	2 3/16"
L1	1 1/8"	1 1/2"	1 3/4"	2 3/16"
Part Number	600-890	600-916	600-932	600-940
Code	37059680	37059681	37059682	37059683



Bend 60°



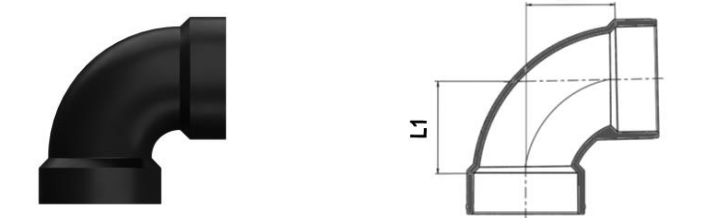
Dimensions		
Size	1 1/2"	3"
L	1"	1 11/16"
L1	1"	1 11/16"
Part Number	600-841	600-866
Code	37059684	37059685

Double Bend 90°



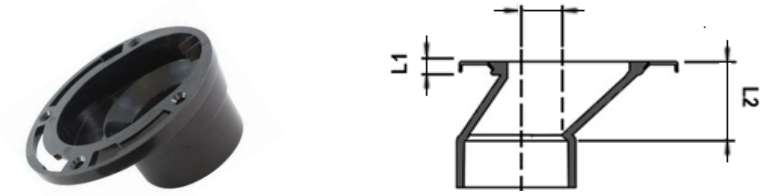
Dimensions			
Size	1 1/2"	2"	3"
L1	1 11/16"	2 5/16"	3 1/16"
L2	1 11/16"	2 5/16"	3 1/16"
A	1 11/16"	2 5/16"	3 1/16"
Part Number	285-300	285-400	285-550
Code	37059686	37059687	37059688

Sanitary Bend 90°



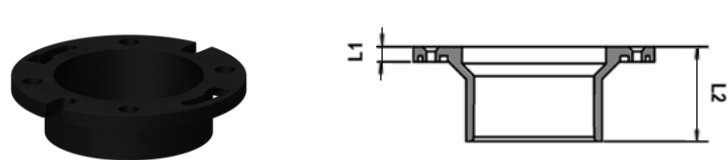
Dimensions				
Size	1 1/2"	2"	3"	4"
L1	1 3/4"	2 5/16"	3"	3 7/8"
L2	1 3/4"	2 5/16"	3"	3 7/8"
Part Number	600-601	600-627	600-643	600-676
Code	37059689	37059690	37059691	37059692

Closet Flange (Spgt)



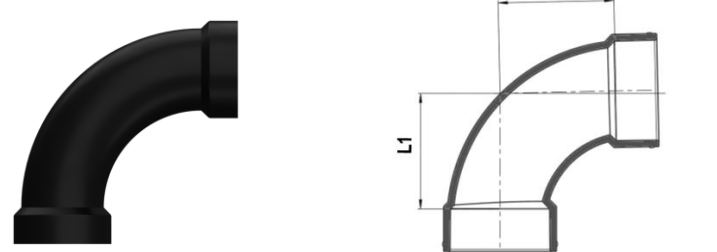
Dimensions	
Size	4x3"
L1	5/16"
L2	2 3/4 "
L3	1 1/2"
Part Number	602-227
Code	37059693

Closet Flange (Hub)



Dimensions	
Size	4x3"
L1	7/16"
L2	2"
Part Number	602-193
Code	37059694

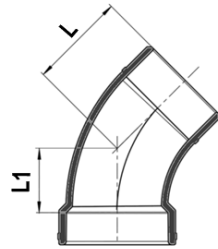
Long Sweep Bend 90°



Dimensions				
Size	1 1/2"	2"	3"	4"
L1	2 11/16"	3 7/16"	4 1/16"	4 15/16 "
L2	2 11/16"	3 7/16"	4 1/16"	4 15/16 "
Part Number	600-700	604-116	604-124	604-132
Code	37059695	37059696	37059697	37059698

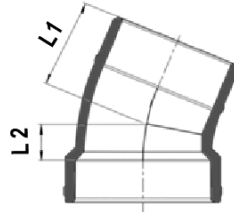


Street Bend 45°



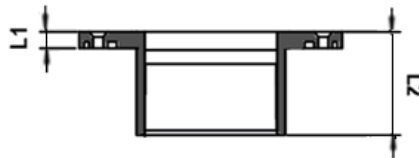
Dimensions				
Size	1 1/2"	2"	3"	4"
L	1 7/8"	2 1/4"	3 1/4"	3 15/16"
L1	1 1/8"	1 7/16"	1 3/4"	2 3/16"
Part Number	600-981	600-999	601-005	601-013
Code	370 5970 0	370 5970 1	370 5970 2	370 5970 3

Street Bend 60°



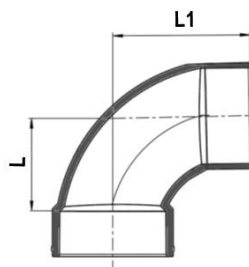
Dimensions	
Size	1 1/2"
L1	1 3/4"
L2	1"
Part Number	600-999
Code	370 5970 1

Closet Flange (Hub W/ Metal Ring)



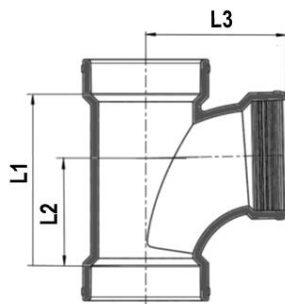
Dimensions	
Size	4/3"
L1	7/16"
L2	2"
Part Number	605-352
Code	370 5970 5

Sanitary Street Bend 90°



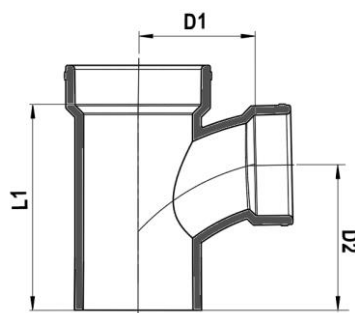
Dimensions			
Size	1 1/2"	2"	3"
L	1 3/4"	2 5/16"	3 1/16"
L1	2 1/2"	3 3/16"	4 9/16"
Part Number	600-734	604-207	604-215
Code	370 5970 6	370 5970 7	370 5970 8

Test Tee (w/o plug)



Dimensions	
Size	1 1/2"
L1	2 3/8"
L2	1 3/16"
L3	1 13/16"
Part Number	600-213
Code	370 5975 7

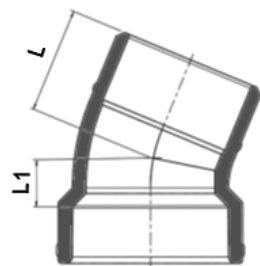
Sanitary Street Tee



Dimensions	
Size	1 1/2"
D1	1 3/4"
D2	2 1/2"
L1	3 1/2"
Part Number	604-314
Code	370 5975 8

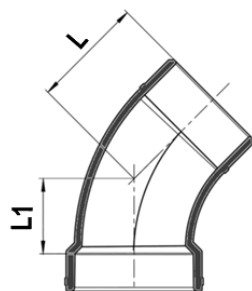


Bend 22 1/2°



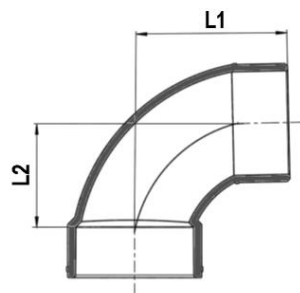
Dimensions				
Size	1 1/2"	2"	3"	4"
L	1 3/16"	1 1/2"	2 5/16"	2 3/4"
L1	7/16"	5/8"	1 3/16"	1"
Part Number	601-047	601-054	601-062	601-070
Code	37059709	37059710	37059711	37059712

Street Bend 22 1/2°



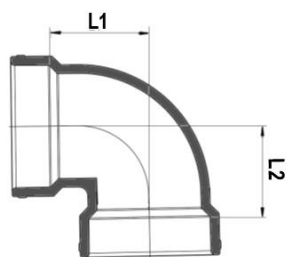
Dimensions	
Size	2"
L	1 2/3"
L1	2/3"
Part Number	605-030
Code	37059714

Long Sweep Street Bend 90°



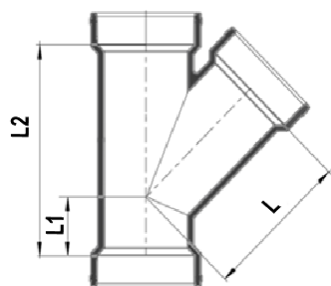
Dimensions		
Size	1 1/2"	3"
L1	2 3/4"	4 1/16"
L2	3 1/2"	5 9/16"
Part Number	604-728	604-744
Code	37059715	37059716

Vent Bend 90°



Dimensions			
Size	1 1/2"	2"	3"
L1	1 3/16"	1 1/2"	1 7/8"
L2	1 3/16"	1 1/2"	1 7/8"
Part Number	604-074	604-082	604-090
Code	37059717	37059718	37059719

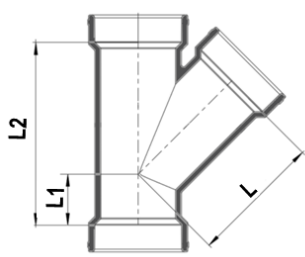
Wye



Dimensions				
Size	1 1/2"	2"	3"	4"
L	2 13/16"	3 5/8"	5"	6 3/8"
L1	1 1/16"	1 3/8"	1 5/8"	1 7/8"
L2	3 7/8"	5"	6 5/8"	8 1/4"
Part Number	600-395	600-403	600-411	600-429
Code	37059720	37059721	37059722	37059725

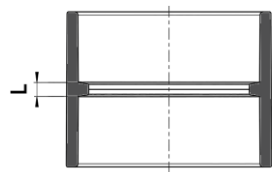


Wye Reducing



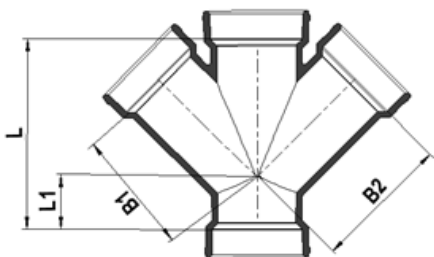
Dimensions				
Size	3x3x1 1/2"	3x3x2"	4x4x2"	4x4x3"
L	4 9/32	4 5/8	5 9/16	6
L1	7/16	7/8	3/8	1 1/16
L2	4 5/32	5	5 1/16	6 5/8
Part Number	600-478	600-486	605-139	605-147
Code	37059724	37059723	37059726	37059727

Coupling



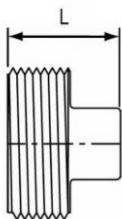
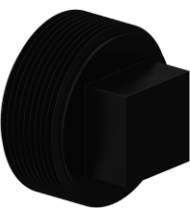
Dimensions					
Size	1 1/4"	1 1/2"	2"	3"	4"
L	1/8"	1/8"	1/8"	3/16"	1/4"
Part Number	601-112	601-120	601-138	601-146	601-153
Code	37059728	37059729	37059730	37059731	37059732

Double Wye



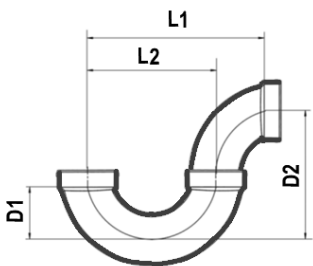
Dimensions			
Size	1 1/2"	2"	3"
B1	2 7/8"	3 5/8"	5"
B2	2 7/8"	3 5/8"	5"
L	4"	5"	6 5/8"
L1	1 1/8"	1 3/8"	1 5/8"
Part Number	600-528	600-536	600-544
Code	37059733	37059734	37059735

Plug



Dimensions				
Size	1 1/2"	2"	3"	4"
L	1 3/8"	1 3/8"	1 3/4"	1 7/8"
Part Number	602-714	602-722	602-730	602-748
Code	37059736	37059737	37059738	37059739

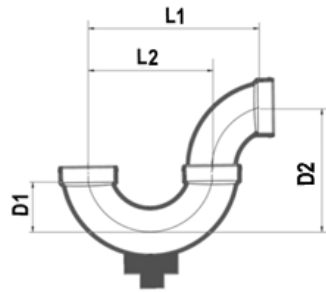
P Trap



Dimensions		
Size	1 1/2"	2"
D1	1 3/8"	2 1/4"
D2	3 5/8"	4 1/2"
L1	4 13/16"	7 1/4"
L2	3 1/4"	5"
Part Number	602-326	602-334
Code	37059740	37059741

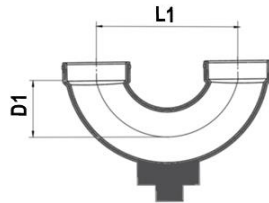


P Trap (With union)



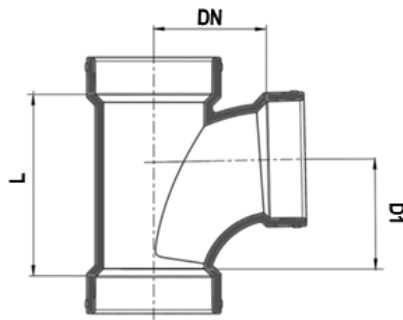
Dimensions		
Size	1 1/2"	2"
D1	1 3/8"	2 1/4"
D2	3 5/8"	4 5/8"
L1	4 7/16"	6 1/2"
L2	3 1/4"	5"
Part Number	602-409	602-417
Code	37059742	37059743

P Trap (w/ Cleanout)



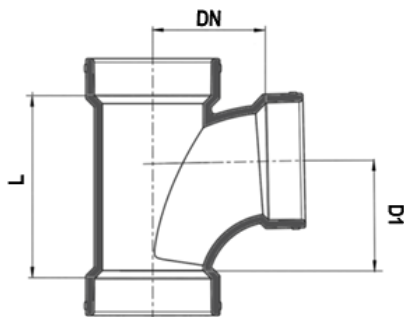
Dimensions	
Size	2"
D1	5 1/3
L1	2 1/3
Part Number	602-383
Code	37059764

Sanitary Tee



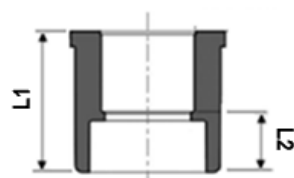
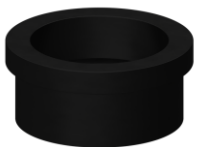
Dimensions				
Size	1 1/2"	2"	3"	4"
DN	1 11/16"	2 5/16"	3 1/16"	3 7/8"
D1	1 11/16"	2 5/16"	3 1/16"	3 7/8"
L	2 5/8"	3 11/16"	4 7/8"	6 1/8 "
Part Number	600-015	600-023	600-031	600-049
Code	37059745	37059746	37059747	37059748

Reducing Sanitary Tee



Dimensions						
Size	2x1 1/2x 1 1/2"	2x1 1/2 x 2"	2x2 x 1 1/2"	3x3 x 1 1/2"	3 x 3 x 2"	4 x 4 x 2"
DN	2 3/16"	2 5/16"	2 3/16"	1 3/4"	2 7/8"	3 5/16"
D1	2 3/16"	2 5/16"	2 3/16"	1 3/4"	2 7/8"	3 5/16"
L	3 1/8"	3 11/16"	3 1/8 "	2 11/16"	3 5/16"	3 3/16"
Part Number	600-080	600-098	600-114	600-130	600-148	600-155
Code	37059749	37059750	37059751	37059752	37059753	37059754

Bushing



Dimensions		
Size	2x1.1/2"	3x2"
L1	1 1/16"	1 3/4"
L2	3/8"	7/8"
Part Number	601-567	601-583
Code	37059755	37059756

