

### INTRODUCTION

Newton Waterproofing Systems offer a range of uPVC pipe diameters and fittings which are recommended for use with all of our pump and sump systems. The pipe is pressure rated, providing a means of discharging ground water, effluent water and sewage from our pumping systems, and is the professional choice due to its long-term strength characteristics, impact resistance and cost effectiveness. The pipe we supply has been approved by the Water Regulations Advisory Scheme (WRAS) and conforms to European Standard EN ISO 1452-2 – Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure – Unplasticized poly(vinyl chloride) (PVC-U) – Part 2: Pipes (ISO 1452-2: 2009). The pipe and socket fittings are joined together using uPVC solvent weld glue which creates a homogenous seal by fully bonding the two components together to create a watertight union. The male and female threaded fittings are screwed together and sealed using PTFE (polytetrafluoroethylene) tape to stop water tracking through the joint.

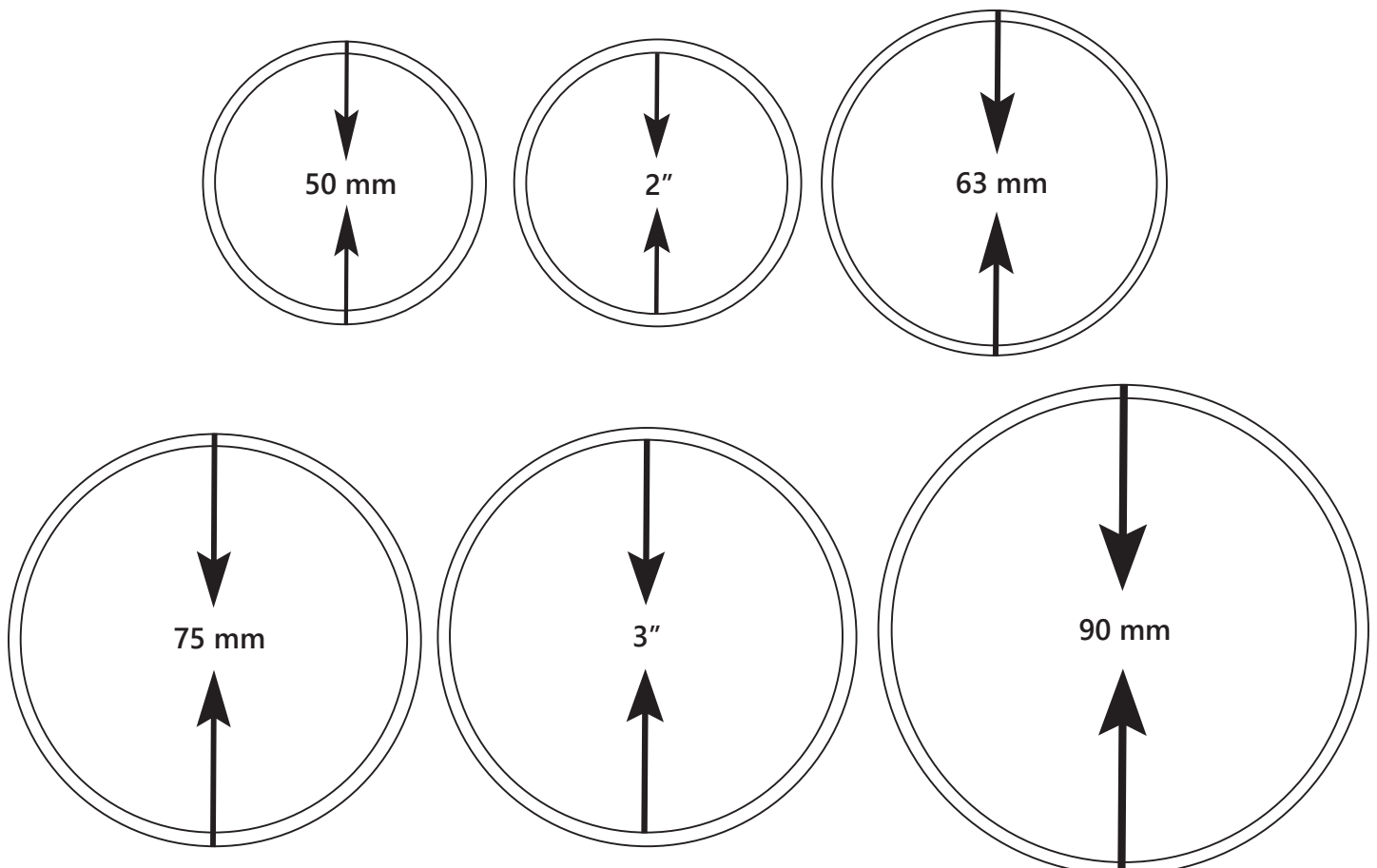
### PIPE IDENTIFICATION

uPVC pipe and fittings are available in 50 mm, 63 mm, 75 mm, 90 mm, 2" and 3" diameters. This guide provides information for all of the standard components used in our Pump and Sump Systems. It is important to note that there is a difference in the way the metric and imperial pipe diameters are measured and it is crucial when specifying or ordering pipework, that the correct measurements are used. Metric pipe is measured from the outer diameter and imperial pipe is measured from the inner diameter as illustrated in the images below.

For full technical specifications, please contact the Newton Waterproofing Systems Technical department.

For advice regarding installation, please refer to the Newton Gluing and PTFE Tape Application Guide.

For further information, please refer to the following document: ISO/TR 4191:2014 - Plastics piping systems for water.



# Pumps, Pumping Systems and Ancillaries

## uPVC Pipe and Ancillaries Guide

### uPVC Pressure Pipe and Ancillaries



Product	Code	Description
50 mm uPVC Pressure Pipe	PP1	Pipe used for the discharge of ground water on the internal and external side of a sump chamber.
63 mm uPVC Pressure Pipe	PP10	
2" uPVC Pressure Pipe	PP20	
2½"/ 75 mm uPVC Pressure Pipe	PP70	
3" uPVC Pressure Pipe	PP80	

### Flexible Pressure uPVC Pipe and Ancillaries



Product	Code	Description
50 mm Flexible Pressure Pipe - 25 m	PP9	Flexible pressure pipe to reduce joints.
63 mm Flexible Pressure Pipe - 25 m	PP19	

### Wall Mount Clip Pipe Ancillaries



Product	Code	Description
50 mm Wall Mount Clip (Pack of 10)	PP6	Clips used to secure discharge pipework to a wall. Recommended every 75 - 85 cm.
63 mm Wall Mount Clip (Pack of 10)	PP15	
90 mm Wall Mount Clip (Pack of 10)	PP94	

# Pumps, Pumping Systems and Ancillaries

## uPVC Pipe and Ancillaries Guide

### Elbow 90° uPVC Pipe and Ancillaries



Product	Code	Description
50 mm Elbow 90°	PP2	Elbow used to change the direction of pipe by 90°.
63 mm Elbow 90°	PP11	
2" Elbow 90°	PP21	
2½"/ 75 mm Elbow 90°	PP71	
3" Elbow 90°	PP81	
90 mm Elbow 90°	PP91	

### Elbow 45° uPVC Pipe and Ancillaries



Product	Code	Description
50 mm Elbow 45°	PP3	Elbow used to change the direction of pipe by 45°.
63 mm Elbow 45°	PP12	
2" Elbow 45°	PP23	
2½"/ 75 mm Elbow 45°	PP72	
3" Elbow 45°	PP82	
90 mm Elbow 45°	PP92	Fitting used to create a change in direction from one pipe to another by 45° and change the pipe size from 63 mm - 50 mm used outside the Titan Pro.
50 mm/ 63 mm Reducing Elbow 45°	PP36/ PP37	

### Tee 90° uPVC Pipe and Ancillaries



Product	Code	Description
50 mm Tee 90°	PP5	Connector used to join three pieces of pipe.
63 mm Tee 90°	PP14	
2" Tee 90°	PP22	
2½"/ 75 mm Tee 90°	PP73	
3" Tee 90°	PP83	
90 mm Tee 90°	PP95	

# Pumps, Pumping Systems and Ancillaries

## uPVC Pipe and Ancillaries Guide

### Socket uPVC Pipe and Ancillaries



Product	Code	Description
50 mm Socket	PP4	Connector used to join two pieces of pipe.
63 mm Socket	PP13	
2" Socket	PP24	
2½" Socket	PP74	
3" Socket	PP88	
90 mm Socket	PP93	

### Socket Union uPVC Pipe and Ancillaries



Product	Code	Description
50 mm Socket Union	PP46	Connector used to join two pieces of pipe with a union which can be unscrewed in the middle.
63 mm Socket Union	PP17	
2" Socket Union	PP31	

### Socket ABS Pipe and Ancillaries



Product	Code	Description
43 mm ABS Socket - 1½" BSP Male	PP41	Connector used to join 43 mm or 55 mm ABS pipe to a 1½" or 2" female threaded fitting.
55 mm ABS Socket - 2" BSP Male	PP42	

# Pumps, Pumping Systems and Ancillaries

## uPVC Pipe and Ancillaries Guide

### uPVC Ancillaries



Product	Code	Description
50 mm Socket - 1½" BSP Female	PP43	Connector to join a male threaded fitting to uPVC pipe.
50 mm Socket/ 63 mm Spigot - 2" BSP Female	PP49	
63 mm Socket - 2" BSP Female	PP34	
2" Socket - 2" BSP Female	PP29	
2½" Socket - 2½" BSP Female	PP76	
90mm Socket - 3" BSP Female	PP84	
3" Socket - 3" BSP Female	PP86	

### uPVC Ancillaries



Product	Code	Description
50 mm Socket/63mm Spigot - 1¼" BSP Male	PP40	Connector used to join a female BSP thread to uPVC pipe.
1½" BSP Male - 50mm Socket	PP57	
50 mm Socket - 2" BSP Male	PP33	
63 mm Socket - 2" BSP Male	PP44	
2" Socket - 2" BSP Male	PP30	
2½" Socket - 2½" BSP Male	PP75	
90mm Socket - 3" BSP Male	PP81	
3" Socket - 3" BSP Male	PP85	

# Pumps, Pumping Systems and Ancillaries

## uPVC Pipe and Ancillaries Guide

### Rubber Connector



Product	Code	Description
110 mm - 63 mm Rubber Connector	PP55	Connector used to to join 110 mm pipe to 50 mm or 63 mm pipe (PP1/PP10) inline.
110 mm - 50 mm Rubber Connector	PP56	Connector used to to join 110 mm pipe to 50 mm or 63 mm pipe (PP1/PP10) inline.

### Clamp Saddle Pipe Ancillaries



Product	Code	Description
75 mm Clamp Saddle - 2" BSP Female	PP63	Connector used to join a 2" male threaded fitting (PP30/PP33/PP44) by 90° to 75 mm, 90 mm or 110 mm pipe.
90 mm Clamp Saddle - 2" BSP Female	PP64	
110 mm Clamp Saddle - 2" BSP Female	PP50	

### Wall Flange Pipe Ancillaries



Product	Code	Description
50 mm Wall Flange	WF50	A rubber push-fit to enable 50 mm pipework to be pushed through the wall of a sump chamber. Compatible with HC82 dart hole cutter.
63 mm Wall Flange	WF63	A rubber push-fit to enable 63 mm pipework to be pushed through the wall of a sump chamber. Compatible with HC95 dart hole cutter.
110 mm Wall Flange	WF110	A rubber push-fit to enable 110 mm pipework to be pushed through the wall of a sump chamber. Compatible with HC140 hole cutter.
160 mm Wall Flange	WF160	A rubber push-fit to enable 160 mm pipework to be pushed through the wall of a sump chamber.

# Pumps, Pumping Systems and Ancillaries

## uPVC Pipe and Ancillaries Guide

### Check Valve uPVC



Product	Code	Description
50 mm Double Union Cone Check Valve	V2	Valve used to stop the flow of water in one direction through 50 mm pipe (PP1) - supplied as standard with Titan-Pro systems.
63 mm Cone Check Valve	V8	Valve used to allow the flow of water in one direction through 63mm pipe (PP10).
2" Check Valve	V3	Valve used to allow the flow of ground water, grey water, or sewage in one direction through 2" pipe.
3" White Check Valve	V16	Valve used to allow the flow of ground water, grey water, or sewage in one direction through 3" pipe.

### Check Valve For NP + CP Pumps



Product	Code	Description
Check valve kit for NP150 - 50 mm discharge	V30	Check valve kits used to connect 50 mm pipe (PP1) to relevant pumps - supplied as standard.
Check valve kit for CP150 & CP250 - 50 mm discharge	V31	
Check valve kit for NP400/ CP400 AND NP750 - 50 mm discharge	V32	

### Cast Iron Check Valve



Product	Code	Description
2" Cast Iron Sewage Valve	V4	Valve used to allow the flow of sewage in one direction through 2" pipe (PP20/PP26) - 2" female threads both sides.
2.5" Cast Iron Sewage Valve	V19	Valve used to allow the flow of sewage in one direction through 2.5" pipe - 2.5" female threads both sides.



# Pumps, Pumping Systems and Ancillaries

## uPVC Pipe and Ancillaries Guide

### Shut Off Valve uPVC



Product	Code	Description
50 mm 3 Way Shut Off Valve	V7	Valve used to stop the flow of water during servicing through three pieces of 50 mm pipe (PP1) - supplied as standard with Titan-2 twin pump systems.

### Shut Off Valve (Double Union) uPVC



Product	Code	Description
50 mm Double Union Shut Off Valve	V1	Valve used to stop the flow of water through pipework during servicing.
2" Double Union Shut Off Valve	V5	
63 mm Double Union Shut Off Valve	V6	
3" Double Union Shut Off Valve	V17	
2.5"/ 75 mm Double Union Shut off Valve	V20	

### Tank Connector



Product	Code	Description
1½" Tank Connector	PP40	Connector used to join two female threaded fittings through the wall of a sump chamber - supplied as standard with Titan 2 system.
2" Tank Connector	PA38	
2½" Tank Connector	PP77	
3" Tank Connector	PA39	



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### Glue and Primers



Product	Code	Description
500 ml Solvent Cement	G1	A solvent weld glue used for joining pressure pipes.
240 ml/ 500 ml Wet & Dry	G2/ G4	Extremely fast setting. Low VOC PVC cement. Premium formula for wet conditions and for quick pressurisation.
500 ml Primer	G3	A primer applied to pipework prior to applying solvent weld glue.