

# CPVC HOT & COLD WATER DISTRIBUTION SYSTEMS

1/2" – 4" (12mm – 100mm)

## AquaRISE®

While contractors and engineers have traditionally had few viable alternatives to increasingly-expensive metal for their water distribution systems, IPEX Inc. now offers a solution that ensures time and cost-savings without sacrificing the strength or performance. With AquaRise, IPEX introduces a CPVC hot and cold water distribution system that comes with reduced material costs, offers superior features and exceeds all industry testing standards.

### A SOLID ALTERNATIVE TO METAL

Compare AquaRise to traditional metal systems, and AquaRise proves itself a strong, highly-engineered and affordable improvement over copper. Manufactured tough and robust, AquaRise performs as well as—and in many cases, better than—metal, offering a rugged system that exceeds all required standards. At the same time, AquaRise costs less than copper, yielding significant project savings. Thanks to its superior durability, these cost savings will pay off even more in years to come. AquaRise's corrosion resistance ensures a longer, maintenance-free life and better performance over the long-term.

### PROJECT SAVINGS

IPEX created AquaRise to be a system that saves valuable time and money on the jobsite. Even greater savings can be achieved by using SDR 21 AquaRise, which is designed specifically for cold water applications. Its simple solvent cement system makes AquaRise fast and easy to assemble. No product specific training is needed, and no flames or torches are required during installation, reducing jobsite safety risks. In addition, AquaRise sweats less than metal pipe due to its excellent insulating properties. As a result, it can reduce the need for insulation, lowering overall job costs. AquaRise also represents a lower risk of jobsite theft.

Proven strength, competitive price, easy installation – what all this adds up to is significant time and cost-savings for contractors and building owners over the long term.

### APPLICATIONS

- Potable Water Distribution
- Hot Water Recirculating Systems

### STANDARDS



Certified to ASTM F442 and CSA B137.6



Certified to CAN/ULC-S102.2



### DID YOU KNOW?

AquaRise interior and exterior walls remain smooth in virtually any service condition, unlike metal which, over time, will rust, pit, scale and corrode.



## ADVANTAGES

**1** Proven to Exceed Toughest Standards  
Thanks to its advanced materials and rugged design, AquaRise SDR 11 for hot water provides long term pressure ratings of 400 psi at 73°F (23°C) and 150 psi at 160°F (71°C). AquaRise SDR 21 for cold water use provides a long-term pressure rating of 200 psi at 73°F (23°C), meeting the requirements of CSA B137.6. AquaRise passes the punishing burst pressure tests conforming to ASTM F442.

**2** Better Long-Term Performance  
Unlike metal piping which may pit, scale and degrade over time, AquaRise's rugged thicker walls and excellent corrosion resistance ensure years of consistent flow and maintenance-free performance, even in demanding hot water recirculation applications.

**3** Fully-Certified  
Designed to be safely used in hot and cold water distribution systems, AquaRise is certified to the following:

- CSA B137.6 (CPVC Pipe, Tubing and Fittings for Hot and Cold Water Distribution Systems)
- NSF 61 (Potable Water Classification)
- CAN/ULC S102.2

**4** Full Flame & Smoke Approvals  
Listed to the CAN/ULC S102.2 standard, AquaRise achieved a Flame Spread rating of not more than 25 and a Smoke Development classification of not more than 50. Unlike competitive products, AquaRise does not need insulation to achieve certification. Ideal for noncombustible applications, AquaRise is code compliant to the following sections of the National Building Code of Canada:

- High buildings as defined by NBC article 3.2.6
- Air plenums as defined by NBC article 3.6.4.3
- Noncombustible buildings as defined by NBC article 3.1.5.16

**5** Permanent Joining System  
IPEX supplies high quality CPVC cement, primer and applicators for enabling tough, permanent welded pipe-fitting connections.

## SPECIFICATIONS

### AQUARISE PIPE & FITTINGS

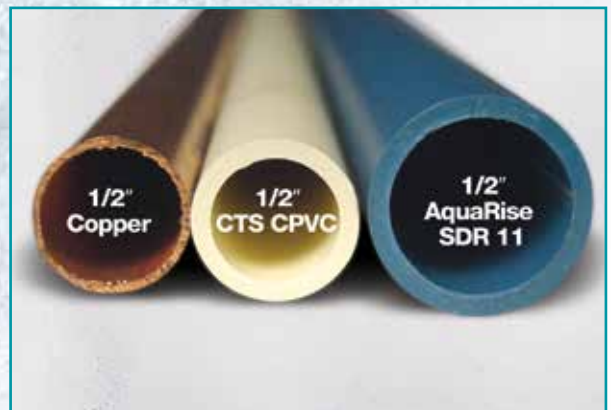
AquaRise pipe and fittings are certified to CSA B137.6. When used in noncombustible construction, high buildings and air plenums, AquaRise pipe shall be tested and listed in accordance with CAN/ULC S102.2 and clearly marked with the certification logo indicating a Flame Spread Rating not more than 25 and a Smoke Developed Classification not exceeding 50. Pipe shall be SDR 11 or SDR 21 thickness and IPS outside diameter.

### FIRESTOPPING DEVICES

Firestopping systems shall be listed under CAN/ULC S115 and tested with a pressure differential of 50 Pa. Certified firestopping devices are required whenever the system penetrates a vertical or horizontal fire separation.

### ONE-STEP & TWO STEP SOLVENT CEMENTS

IPEX has made a significant change to the current solvent cement products to be used with AquaRise Domestic Water Piping. The product offering has been modified to now offer two customized solvent cements for small and large size ranges. Both products are certified to CSA B137.6, listed to NSF 61 and sold as a kit coming complete with necessary applicators and installation instructions.



## PIPE DIMENSIONS AND WEIGHTS SDR 11

AquaRise pipe is produced (1/2" through 4") in SDR 11 dimensions with IPS (Iron Pipe Size) outside diameters. The SDR (Standard Dimension Ratio) value means that all sizes of pipe maintain a constant ratio between the pipe outside diameter and minimum wall thickness. This results in all diameters carrying the same pressure ratings of 400 psi at 73°F and 150 psi at 160°F.

AquaRise Pipe Dimensions & Weights IPS / SDR 11 (Imperial)

Nominal Size (Inches)	Average OD (Inches)	Average ID (Inches)	Average Wall Thickness (inches)	Weight - Empty lb/ft
1/2	0.840	0.687	0.076	0.130
3/4	1.050	0.859	0.095	0.202
1	1.315	1.076	0.120	0.319
1-1/4	1.660	1.358	0.151	0.507
1-1/2	1.900	1.555	0.173	0.663
2	2.375	1.943	0.216	1.037
2-1/2	2.875	2.352	0.261	1.519
3	3.500	2.864	0.318	2.250
4	4.500	3.633	0.434	3.722

AquaRise Pipe Dimensions & Weights IPS / SDR 11 (Metric)

Nominal Size (mm)	Average OD (mm)	Average ID (mm)	Average Wall Thickness (mm)	Weight - Empty Kg/m
12	21.3	17.5	1.9	0.19
19	26.7	21.8	2.4	0.30
25	33.4	27.3	3.0	0.47
32	42.2	34.5	3.8	0.76
40	48.3	39.5	4.4	0.99
50	60.3	49.4	5.5	1.55
65	73.0	59.7	6.6	2.26
75	88.9	72.7	8.1	3.35
100	114.3	92.3	11.0	5.55

## PIPE DIMENSIONS AND WEIGHTS SDR 21

AquaRise SDR 21 pipe is produced (1-1/2" through 4") in SDR 21 dimensions with IPS (Iron Pipe Size) outside diameters. The SDR (Standard Dimension Ratio) value means that all sizes of pipe maintain a constant ratio between the pipe outside diameter and minimum wall thickness. This results in all diameters carrying the same pressure ratings of 200 psi at 73°F.

AquaRise Pipe Dimensions & Weights IPS / SDR 21 (Imperial)

Nominal Size (Inches)	Average OD (Inches)	Average ID (Inches)	Average Wall Thickness (inches)	Weight - Empty lb/ft
1-1/2	1.900	1.802	0.100	0.33
2	2.375	2.251	0.123	0.52
2-1/2	2.875	2.727	0.147	0.76
3	3.500	3.323	0.177	1.13
4	4.500	4.273	0.227	1.94

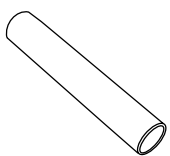
AquaRise Pipe Dimensions & Weights IPS / SDR 21 (Metric)

Nominal Size (Inches)	Average OD (Inches)	Average ID (Inches)	Average Wall Thickness (inches)	Weight - Empty lb/ft
40	48.3	45.76	2.54	0.50
50	60.3	57.18	3.12	0.78
65	73.0	69.27	3.73	1.14
75	88.9	84.41	4.50	1.68
100	114.3	108.53	5.77	2.89

## PRODUCT SELECTION CHART

Dimension		Product Code
inches	mm	

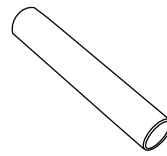
AquaRise CPVC SDR 11 Pipe 10 Ft. Lengths, PE x PE



1/2	12	119100
3/4	20	119101
1	25	119102
1-1/4	32	119103
1-1/2	40	119104
2	50	119105
2-1/2	65	119106
3	75	119107
4	100	119108

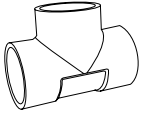
Dimension		Product Code
inches	mm	

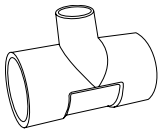
AquaRise CPVC SDR 21 (Cold Water) Pipe 10 Ft. Lengths, PE x PE

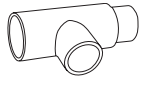
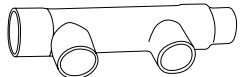


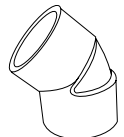
1-1/2	40	119120
2	50	119121
2-1/2	65	119122
3	75	119123
4	100	119124


## PRODUCT SELECTION CHART


	Dimension		Product Code
	inches	mm	
	Tee Soc x Soc x Soc		
	1/2	12	359481
	3/4	20	359482
	1	25	359483
	1-1/4	32	359484
	1-1/2	40	359485
	2	50	359486
	2-1/2	65	359487
	3	75	359488
4	100	359489	

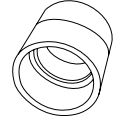
	Dimension		Product Code
	inches	mm	
	Reducing Tee Soc x Soc x Soc		
	3/4 x 1/2 x 1/2	20 x 12 x 12	359514
	3/4 x 1/2 x 3/4	20 x 12 x 20	359513
	3/4 x 3/4 x 1/2	20 x 20 x 12	359492
	1 x 1 x 1/2	25 x 25 x 12	359493
	1 x 1 x 3/4	25 x 25 x 20	359494
	1-1/4 x 1-1/4 x 1	32 x 32 x 25	359495
	1-1/2 x 1-1/2 x 1/2	40 x 40 x 12	359515
	1-1/2 x 1-1/2 x 3/4	40 x 40 x 20	359496
	1-1/2 x 1-1/2 x 1	40 x 40 x 25	359497
	2 x 2 x 1/2	50 x 50 x 12	359498
	2 x 2 x 3/4	50 x 50 x 20	359499
	2 x 2 x 1	50 x 50 x 25	359500
	2 x 2 x 1-1/2	50 x 50 x 40	359501
	2-1/2 x 2-1/2 x 1/2	65 x 65 x 12	359503
	2-1/2 x 2-1/2 x 3/4	65 x 65 x 20	359504
	2-1/2 x 2-1/2 x 1	65 x 65 x 25	359505
	2-1/2 x 2-1/2 x 1-1/4	65 x 65 x 32	359506
	2-1/2 x 2-1/2 x 2	65 x 65 x 50	359507
3 x 3 x 2	75 x 75 x 50	359502	
4 x 4 x 2	100 x 100 x 50	359508	
4 x 4 x 3	100 x 100 x 75	359509	

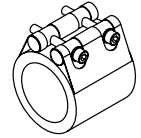
	Dimension		Product Code
	inches	mm	
	U Do-It Manifold Soc x Sp x Soc		
	3/4 x 3/4 x 1/2 x 1/2		359060
	3/4 x 3/4 x 1/2		359061

	Dimension		Product Code
	inches	mm	
	45° Elbow Soc x Soc		
	1/2	12	359164
	3/4	20	359165
	1	25	359166
	1-1/4	32	359167
	1-1/2	40	359168
	2	50	359169
	2-1/2	65	359170
	3	75	359171
4	100	359172	

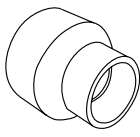
	Dimension		Product Code
	inches	mm	
	90° Elbow Soc x Soc		
	1/2	12	359194
	3/4	20	359195
	1	25	359196
	1-1/4	32	359197
	1-1/2	40	359198
	2	50	359199
	2-1/2	65	359200
	3	75	359201
4	100	359202	

	Dimension		Product Code
	inches	mm	
	90° Street Elbow Soc x Sp		
	1/2	12	359175
	3/4	20	359476
	1	25	359177

	Dimension		Product Code
	inches	mm	
	Coupling Soc x Soc		
	1/2	12	359132
	3/4	20	359133
	1	25	359134
	1-1/4	32	359135
	1-1/2	40	359136
	2	50	359137
	2-1/2	65	359138
	3	75	359139
4	100	359140	

	Dimension		Product Code
	inches	mm	
	Maintenance Coupling*		
	1	25	359204
	1-1/4	32	359205
	1-1/2	40	359206
	2	50	359207
	2-1/2	65	359208
	3	75	359209
4	100	359210	

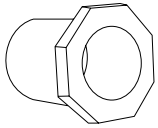
\*Torque wrench kits are available through IPEX

	Dimension		Product Code
	inches	mm	
	Reducer Coupling Soc x Soc		
	3/4 x 1/2	20 x 12	359460
	1 x 1/2	25 x 12	359461
	1 x 3/4	25 x 20	359462
	1-1/4 x 1	32 x 25	359463
	1-1/2 x 1	40 x 25	359465
	1-1/2 x 1-1/4	40 x 32	359466
	2 x 1	50 x 25	359467
	2 x 1-1/2	50 x 40	359458
	3 x 2	75 x 50	359470
4 x 2	100 x 50	359459	
4 x 3	100 x 75	359472	

# PRODUCT SELECTION CHART

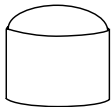
Dimension		Product Code
inches	mm	

## Reducer Bushing Sp x Soc



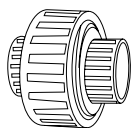
Dimension		Product Code
inches	mm	
3/4 x 1/2	20 x 12	359375
1 x 1/2	25 x 12	359376
1 x 3/4	25 x 20	359377
1-1/4 x 1/2	32 x 12	359378
1-1/4 x 3/4	32 x 20	359379
1-1/4 x 1	32 x 25	359380
1-1/2 x 1/2	40 x 12	359381
1-1/2 x 3/4	40 x 20	359382
1-1/2 x 1	40 x 25	359383
1-1/2 x 1-1/4	40 x 32	359384
2 x 1/2	50 x 12	359385
2 x 3/4	50 x 20	359386
2 x 1	50 x 25	359387
2 x 1-1/4	50 x 32	359388
2 x 1-1/2	50 x 40	359389
2-1/2 x 3/4	65 x 20	359390
2-1/2 x 1	65 x 25	359391
2-1/2 x 2	65 x 50	359392
3 x 1-1/2	75 x 40	359393
3 x 2	75 x 50	359394
3 x 2-1/2	75 x 65	359395
4 x 1-1/4	100 x 32	359428
4 x 1-1/2	100 x 40	359429
4 x 2	100 x 50	359396
4 x 2-1/2	100 x 65	359430
4 x 3	100 x 75	359397

## Cap Soc



Dimension		Product Code
inches	mm	
1/2	12	359109
3/4	20	359110
1	25	359111
1-1/4	32	359112
1-1/2	40	359113
2	50	359114
2-1/2	65	359115
3	75	359116
4	100	359107

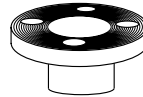
## Union Soc x Soc



Dimension		Product Code
inches	mm	
1/2	12	359520
3/4	20	359521
1	25	359522
1-1/4	32	359523
1-1/2	40	359524
2	50	359525
3	75	359051
4	100	359550

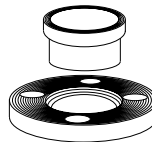
Dimension		Product Code
inches	mm	

## Flange Soc Solid Style



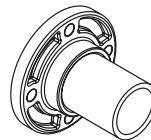
Dimension		Product Code
inches	mm	
1/2	12	359228
3/4	20	359229
1	25	359230
1-1/4	32	359231
1-1/2	40	359232
2	50	359233
2-1/2	65	359234
3	75	359235
4	100	359236

## Vanstone Flange Soc



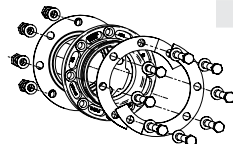
4	100	359270
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## Repair Flange Solid Style Flange x Pipe Stub



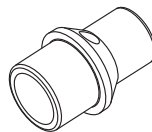
2-1/2	65	359057
3	75	359058
4	100	359059

## Full Pressure Flange Kit



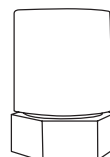
2-1/2	65	359040
3	75	359041

## CPVC Copper Tube Size Adapter (CTS)



AquaRise <b>Spigot</b> x CTS Spigot		
1/2		359100
3/4		359101
AquaRise <b>Socket</b> x CTS Spigot		
1/2		359097
3/4		359098

## Female Threaded Adapter Soc x Bronze FNPT

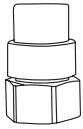


1/2		359800
3/4		359801
1		359802
1-1/4		359803
1-1/2		359804
2		359805

# PRODUCT SELECTION CHART

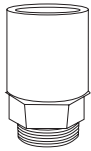
Nominal Pipe Size (inches)	Product Code
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## Female Threaded Adapter Sp x Bronze FNPT



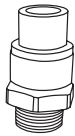
1/2	359820
3/4	359821
1	359822

## Male Threaded Adapter Soc x Bronze MNPT



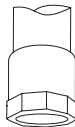
1/2	359811
3/4	359812
1	359813
1-1/4	359814
1-1/2	359815
2	359816

## Male Threaded Adapter Sp x Bronze MNPT



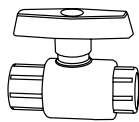
1/2	359823
3/4	359824
1	359825

## Repair Threaded Adapter Sp x Bronze MNPT



1	359063
1-1/4	359064
1-1/2	359077
2	359065

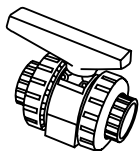
## One-Piece Ball Valve Soc x Soc



1/2	359070
3/4	359071
1	359072

Rated to 400 psi @ 73°F (23°C)  
Rated to 150 psi @ 160°F (71°C)

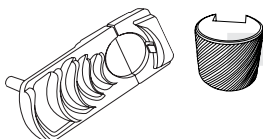
## True Union Ball Valve Soc x Soc



1/2	12	359000
3/4	20	359001
1	25	359002
1-1/4	32	359003
1-1/2	40	359004
2	50	359005
2-1/2	65	359102
3	80	359103
4	100	359104

Rated to 232 psi @ 73°F (23°C)  
72 psi @ 160°F (71°C)

## Beveling Tools



1/2, 3/4, 1	359044
1-1/4 to 4	359062

Description imperial	metric	Product Code
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## AquaRise One-Step Cement\*\*



Pint	473 ml	359086
Quart	946 ml	359092
Gallon	3785 ml	359091

\*\*FOR USE ON 1/2" TO 2"

## AquaRise Two-Step Cement w/Primer\*\*\*



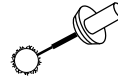
Quart	946 ml	359087
Gallon	3785 ml	359093

\*\*\*FOR USE ON 2-1/2", 3" & 4"

Cement products come complete with Primer as required plus extra daubers

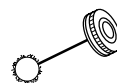
Nominal Pipe Size (inches)	Product Code
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## Can-Mate Daubers (with telescoping stem)



CM-75 (pipe sizes 1/2" - 1-1/4")	074436
CM-150 (pipe sizes 1-1/2" - 3")	074437

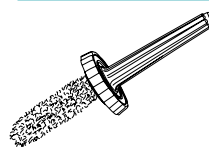
## Cap Daubers



DP 50 (pipe sizes 1/2" - 1")	074455
DP 150 (pipe sizes 1-1/4" - 3")	074421
DQ 50 (pipe sizes 1/2" - 1")	074193
DQ 150 (pipe sizes 1-1/4" - 3")	074422

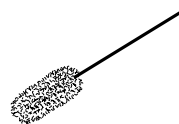
Note: DP fits Pint cans and DQ fits Quart cans

## Swab



4"	100 mm	074456
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## AquaRise Superswab Replacement



Swab is disposable and replaceable	359826
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