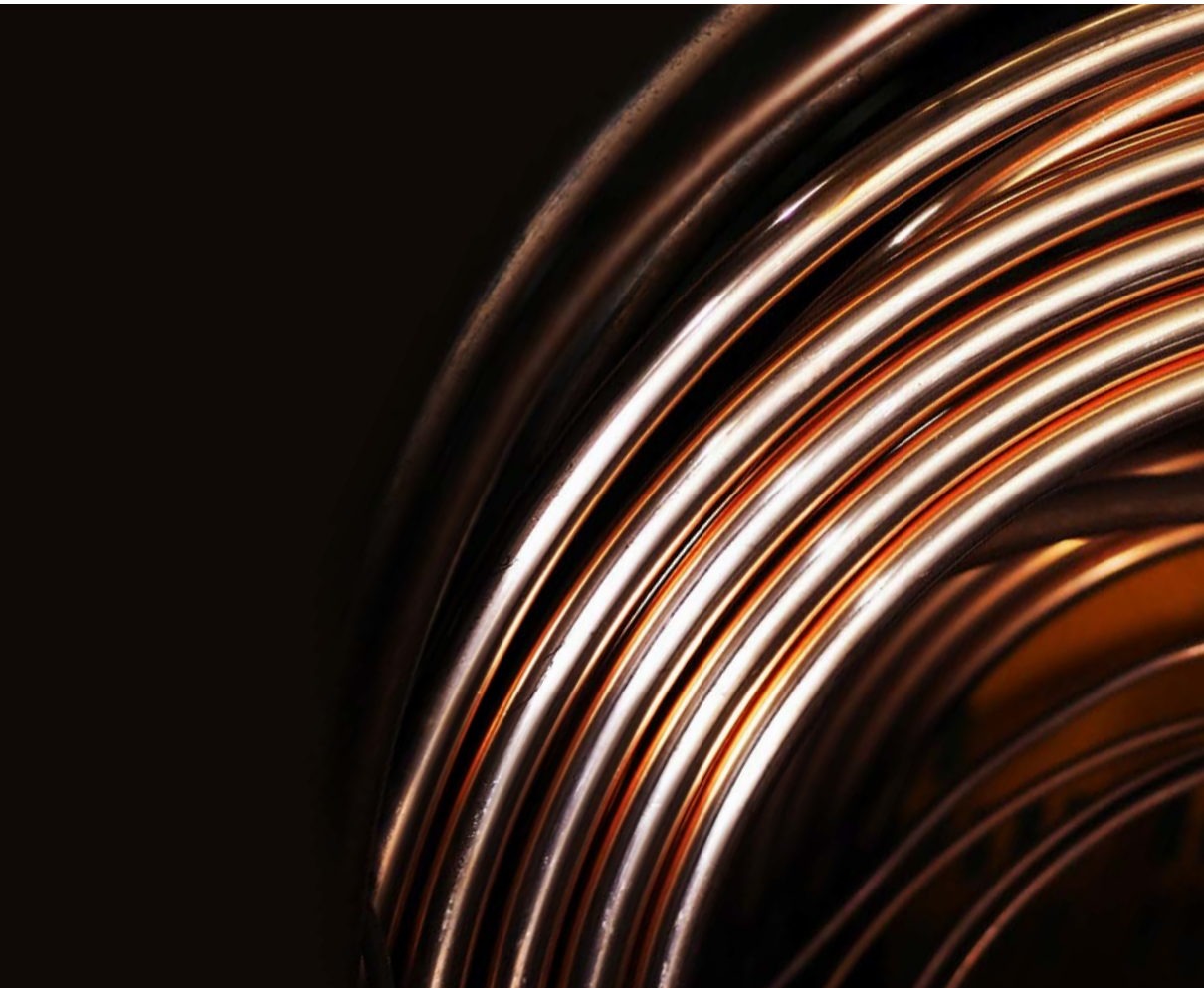


ARDENT™

Technical Guide



Every Ardent pipe and fitting is rigorously tested and made of the purest materials available.

So when you ask for Ardent, you know you're getting high quality metal, made to last.

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Copper Fittings

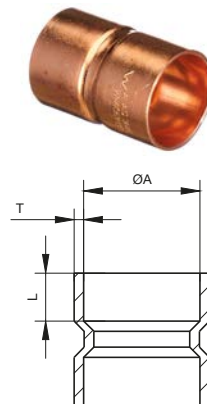
Copper Fittings

Ardent Copper Fittings

- The range of Ardent copper fittings are manufactured to comply and marked in accordance with Australian Standards AS1432 and AS3688.
- Premium quality range of fittings available, suitable for water and gas applications.
- Non-flammable and much safer as it will not burn or emit toxic fumes in the event of a fire.
- Ardent copper capillary fittings will work to the relevant safe working pressures and temperatures of copper tube marked AS1432 of equivalent nominal diameter.

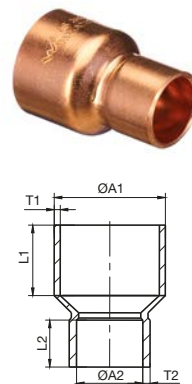
Socket

Code	Size	OA	L	T
9800095	15mm	12.72	9	0.81
9800096	18mm	15.9	11	0.91
9800097	20mm	19.07	13.5	0.91
9800098	25mm	25.42	7.5	1.09
9800099	32mm	31.77	7.5	1.09
9800100	40mm	38.12	7.5	1.09
9800101	50mm	50.82	7.5	1.09
9800102	65mm	63.55	7.5	1.09
9800103	80mm	76.25	11.1	1.47
9800104	100mm	101.65	11.1	1.47
9800105	125mm	127.05	11.1	1.47
9800106	150mm	152.45	20	1.47



Reducing Coupling

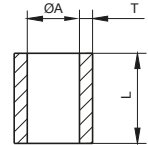
Code	Size	OA1	L1	T1	OA2	L2	T2
9800092	18 X 15mm	15.88	11	0.91	12.72	9	0.81
9800093	20 X 15mm	19.07	13.5	0.81	12.72	9	0.81
9800094	25 X 20mm	25.42	17	1.09	19.07	13.5	0.91



Copper Fittings

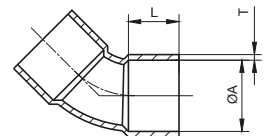
Slip Coupling

Code	Size	OA	L	T
9800148	15mm	12.72	20	0.81
9800149	20mm	19.07	29.5	0.91



45 Degree Bend

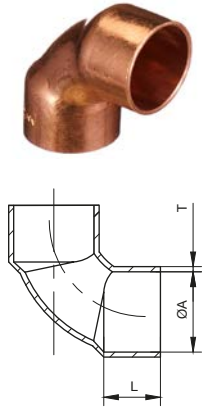
Code	Size	OA	L	T
9800062	20mm	19.07	13.5	0.91
9800063	25mm	25.42	7.5	1.09
9800064	32mm	31.77	7.5	1.09
9800065	40mm	38.12	7.5	1.09
9800066	50mm	50.82	7.5	1.09
9800067	65mm	63.55	7.5	1.09
9800068	80mm	76.25	11.1	1.47
9800069	100mm	101.65	11.1	1.47
9800070	125mm	127.05	11.1	1.47
9800151	150mm	152.45	20	1.47
9800152	200mm	203.25	20	1.47



Copper Fittings

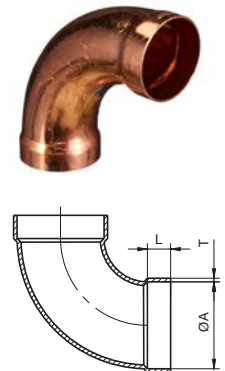
90 Degree Bend (Short Radius)

Code	Size	OA	L	T
9800071	15mm	12.72	9	0.81
9800073	20mm	19.07	13.5	0.91
9800074	25mm	25.42	7.5	1.09
9800075	32mm	31.77	7.5	1.09
9800076	40mm	38.12	7.5	1.09
9800077	50mm	50.82	7.5	1.09
9800078	65mm	63.55	7.5	1.09
9800079	80mm	76.25	11.1	1.47
9800080	100mm	101.65	11.1	1.47



90 Degree Bend (Long Radius)

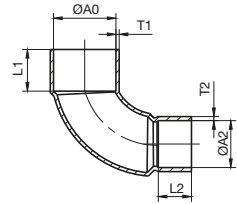
Code	Size	OA	L	T
9800081	32mm	31.77	8.5	1.09
9800082	40mm	38.12	8.5	1.09
9800083	50mm	50.82	8.5	1.09
9800084	65mm	63.55	10	1.09
9800085	80mm	76.25	13	1.47
9800086	100mm	101.65	13	1.47
9800087	125mm	127.05	20	1.47
9800088	150mm	152.45	25	1.83
9800153	150mm (3/4 RAD)	152.45	20	1.83
9800187	200mm	203.25	20	1.83



Copper Fittings

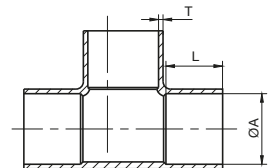
Reducing Elbow

Code	Size	OA1	L1	T1	OA2	L2	T2
9800090	20X15mm	19.07	13.5	0.91	12.72	9	0.81
9800091	25X20mm	25.42	7.5	1.09	19.07	13.5	0.91



Tee

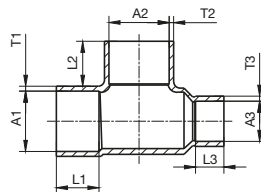
Code	Size	OA	L	T
9800020	15mm	12.72	9	0.81
9800022	20mm	19.07	13.5	0.91
9800023	25mm	25.42	7.5	1.09
9800024	32mm	31.77	7.5	1.09
9800025	40mm	38.12	7.5	1.09
9800026	50mm	50.82	7.5	1.09
9800027	65mm	63.55	7.5	1.09
9800028	80mm	76.25	11.1	1.47
9800029	100mm	101.65	11.1	1.47
9800030	125mm	127.05	11.1	1.47
9800031	150mm	152.45	14.2	1.83
9800032	200mm	203.25	14.2	1.83



Copper Fittings

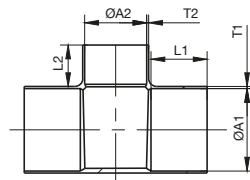
Reducing Tee (Side)

Code	Size	OA1	L1	T1	OA2	L2	T2	OA3	L3	T3
9800033	20 x 15 x 20mm	19.07	13.5	0.91	12.72	9	0.81	19.07	13.5	0.91
9800034	25 x 20 x 25mm	25.4	17	0.91	19.07	17	0.91	25.4	13.5	0.91



Reducing Tee (Centre)

Code	Size	OA1	L1	T1	OA2	L2	T2
9800055	18 x 15mm	15.9	11.1	0.81	12.72	9	0.81
9800056	20 x 15mm	19.07	13.5	0.81	12.72	9	0.81
9800057	25 x 15mm	25.4	7.5	1.09	12.72	9	0.81
9800058	25 x 20mm	25.4	7.5	1.09	19.07	13.5	0.91
9800035	32 x 15mm	31.77	7.5	1.09	12.72	9	0.81
9800036	32 x 20mm	31.77	7.5	1.09	19.07	13.5	0.91
9800037	32 x 25mm	31.77	7.5	1.09	25.42	7.5	1.09
9800038	40 x 20mm	38.12	7.5	1.09	19.07	13.5	0.81
9800039	40 x 25mm	38.12	7.5	1.09	25.4	7.5	1.09
9800040	40 x 32mm	38.12	7.5	1.09	31.77	7.5	1.09
9800042	50 x 25mm	50.82	7.5	1.09	25.4	7.5	1.09
9800043	50 x 32mm	50.82	7.5	1.09	31.77	7.5	1.09
9800044	50 x 40mm	50.82	7.5	1.09	38.12	7.5	1.09
9800045	65 x 40mm	63.55	7.5	1.09	38.12	7.5	1.09
9800046	65 x 50mm	63.55	7.5	1.09	50.82	7.5	1.09
9800047	80 x 50mm	76.25	11.1	1.47	50.82	7.5	1.09
9800048	80 x 65mm	76.25	11.1	1.47	63.55	7.5	1.09
9800049	100 x 50mm	101.65	11.1	1.47	50.82	7.5	1.09
9800050	100 x 65mm	101.65	11.1	1.47	63.55	7.5	1.09
9800051	100 x 80mm	101.65	11.1	1.47	76.25	11.1	1.47

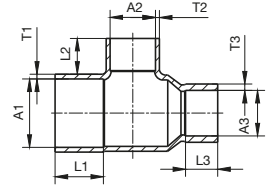


AS 3688
WMKA21321

Copper Fittings

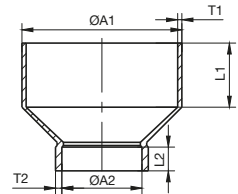
Reducing Tee (Side & Centre)

Code	Size	OA1	L1	T1	OA2	L2	T2	OA3	L3	T3
9800059	20 x 15 x 15mm	19.07	13.5	0.91	12.72	9	0.81	12.72	9	0.81
9800060	25 x 20 x 20mm	25.4	7.5	1.09	19.07	13.5	0.91	19.07	13.5	0.91



Concentric Reducer

Code	Size	OA1	L1	T1	OA2	L2	T2
9800108	20 x 15mm	19.05	13.5	0.81	12.72	9	0.81
9800109	25 x 15mm	25.4	17	1.09	12.72	9	0.81
9800110	25 x 20mm	25.4	17	1.09	19.07	13.5	0.91
9800111	32 x 15mm	31.75	21	1.09	12.72	9	0.81
9800112	32 x 20mm	31.75	21	1.09	19.07	13.5	0.91
9800113	32 x 25mm	31.75	21	1.09	25.42	7.5	1.09
9800114	40 x 20mm	38.1	25	1.09	19.07	13.5	0.81
9800115	40 x 25mm	38.1	25	1.09	25.4	7.5	1.09
9800116	40 x 32mm	38.1	25	1.09	31.77	7.5	1.09
9800117	50 x 20mm	50.8	31	1.09	19.07	13.5	0.91
9800118	50 x 25mm	50.8	31	1.09	25.4	7.5	1.09
9800119	50 x 32mm	50.8	31	1.09	31.77	7.5	1.09
9800120	50 x 40mm	50.8	31	1.09	38.12	7.5	1.09
9800178	65 x 32mm	63.5	33	1.09	31.77	7.5	1.09
9800121	65 x 40mm	63.5	33	1.09	38.12	7.5	1.09
9800122	65 x 50mm	63.5	33	1.09	50.82	7.5	1.09
9800124	80 x 50mm	76.2	48	1.47	50.82	7.5	1.09
9800125	80 x 65mm	76.2	48	1.47	63.55	7.5	1.09
9800126	100 x 50mm	101.6	57	1.47	50.82	7.5	1.09
9800127	100 x 65mm	101.6	57	1.47	63.55	7.5	1.09
9800128	100 x 80mm	101.6	57	1.47	76.25	11.1	1.47

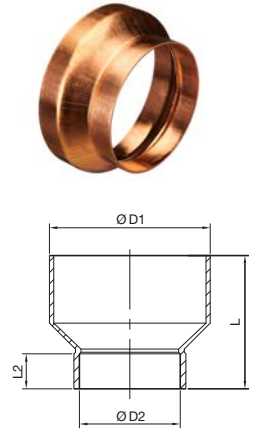


AS 3688
WMKA21321

Copper Fittings

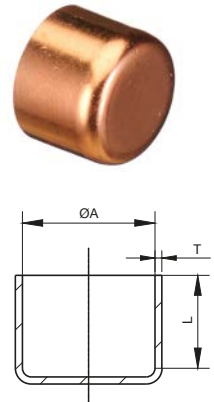
Concentric Reducer C/FAB

Code	Size	D1	D2	L2	L
9800179	150 x 100mm	152.45	101.65	15	76
9800180	125 x 100mm	127.05	101.65	15	71
9800181	100 x 65mm	101.65	63.55	11	65
9800182	150 x 125mm	152.45	127.05	15	63
9800183	125 x 80mm	127.05	76.25	15	71
9800184	200 x 150mm	203.25	152.45	20	88
9800185	150 x 80mm	152.45	76.25	15	89
9800186	200 x 125mm	203.25	127.05	15	96



Cap

Code	Size	OA	L	T
9800138	15mm	12.72	9	0.81
9800139	20mm	19.07	13.5	0.91
9800140	25mm	25.42	7.5	1.09
9800143	50mm	50.82	8.5	1.09



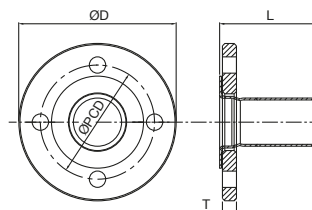
Copper Coated Flanges

Copper Coated Flanges

Ardent Press Flange Adaptors

The Ardent copper coated steel flange utilises the latest in copper coating technology to provide a flange with superior corrosion resistance:

- Copper coating suitable for all UV applications
- No insulator required - copper to copper contact
- Suitable for water, gas and all other HP copper applications
- Watermark Licence No.1344 to AS3688
- Working temperature of -10 to 110°C (Table E)
- Working temperature of -10 to 95°C (Table D)
- Patent pending - Design Registration No.342529



Code	Flange	Size (DN)	Bolt Size	Bolt Holes	PCD (mm)	D (mm)	L (mm)	T(mm)
9504366	Table E	40	M12	4	98	133	85	13
9504367	Table E	50	M16	4	114	152	90	14
9504368	Table E	65	M16	4	127	165	120	14
9504369	Table E	80	M16	4	146	184	120	14
9504370	Table E	100	M16	8	178	216	120	17.5

9504371	Table D	100	M16	4	178	216	120	17.5
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Press Flange Adaptor

Safe Working Pressure

Code	SWP (kPa)
9504366	1400
9504367	1400
9504368	1400
9504369	1400
9504370	1400
9504371	700



AS 3688
WMKA1344

Assemblies and Breeches

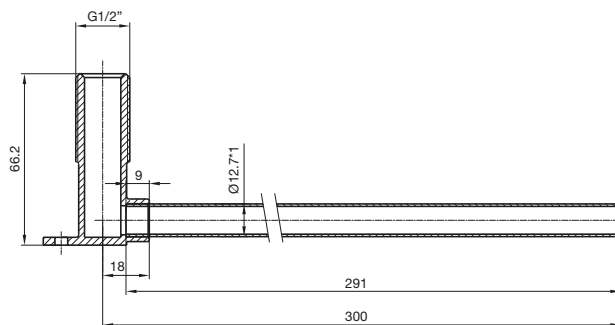
Assemblies and Breeches

Ardent Assemblies and Breeches

The Ardent range of assemblies and breeches have been manufactured in accordance with AS3718. The diverse Ardent range includes assemblies and breeches that satisfy applications including sinks, basins, showers and baths.

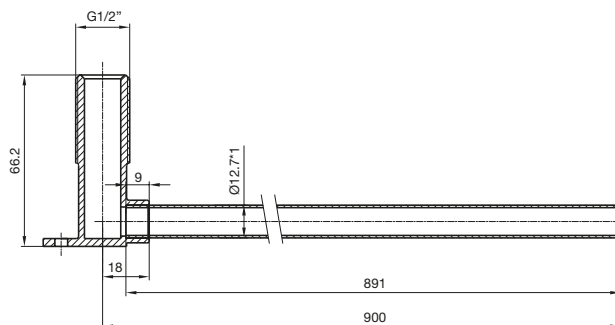
Ardent Screwed Outlet

Code	Size
9504600	300mm



Ardent Screwed Outlet

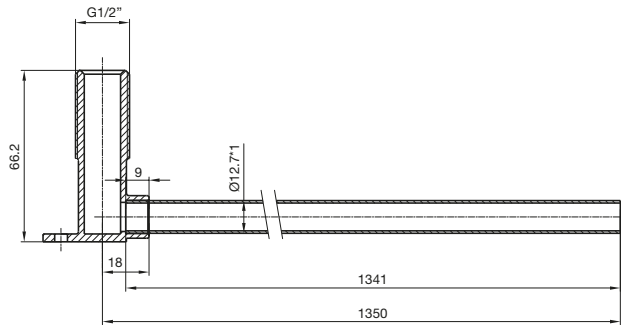
Code	Size
9504601	900mm



Assemblies and Breeches

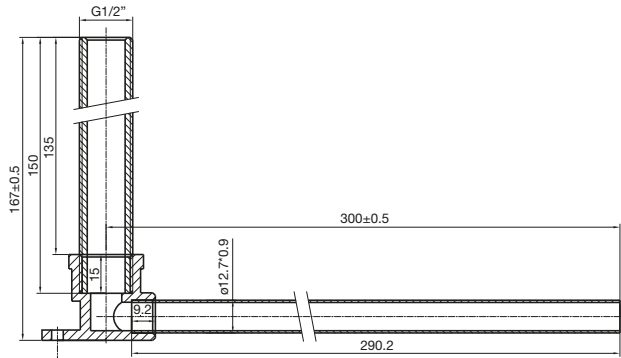
Ardent Screwed Outlet

Code	Size
9504602	1350mm



Ardent Screwed Outlet

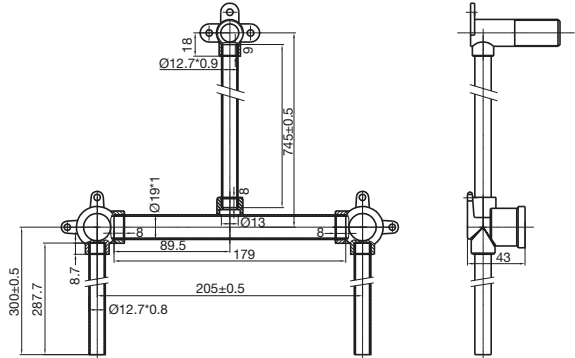
Code	Size
9504606	300mm Tails 150mm Thread (15mm BSP)



Assemblies and Breeches

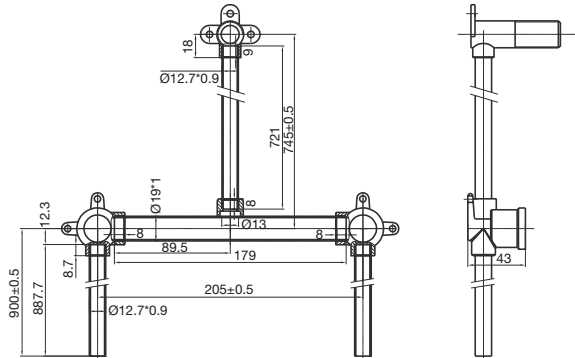
Ardent Shower Breech Bottom Entry

Code	Size
9504615	200mm Centre
	300 Tails

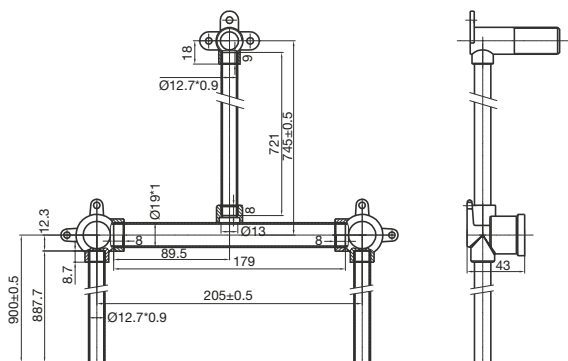


Ardent Shower Breech Bottom Entry

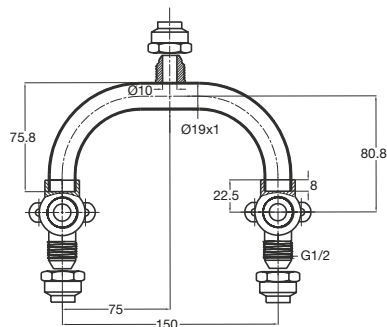
Code	Size
9504616	200mm Centre
	900 Tails



Code	Size
9504622	150mm Centre
	150 Tails



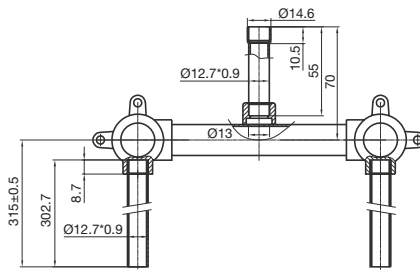
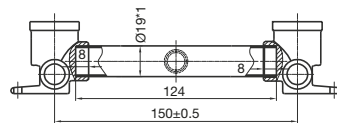
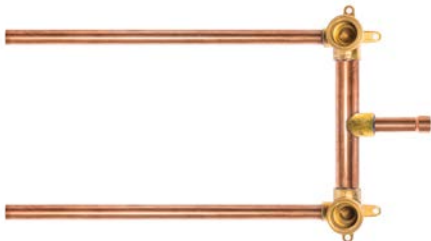
Code	Size
9504625	150mm Centre
	NO TAILS



Assemblies and Breeches

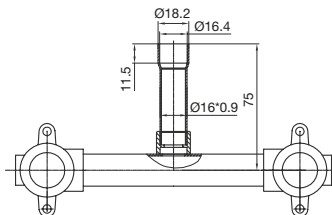
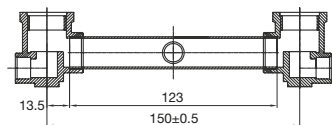
Ardent Shower Breech Bottom Entry (DN15 90mm riser)

Code	Size
9504626	150mm Centre
	300mm Tails



Ardent Shower Breech Side Entry (DN18 90mm riser)

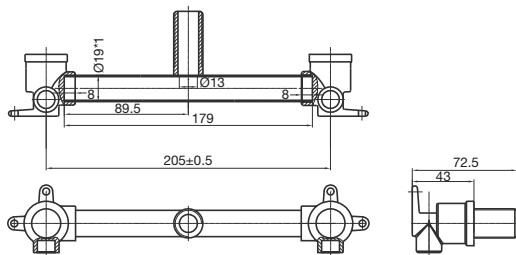
Code	Size
9504627	150mm Centre
	NO TAILS



Assemblies and Breeches

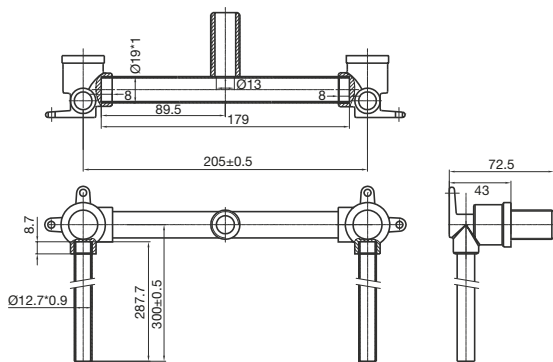
Ardent Sink Breech Bottom Entry

Code	Size
9504632	200mm Centre
	NO TAILS



Ardent Sink Breech Bottom Entry

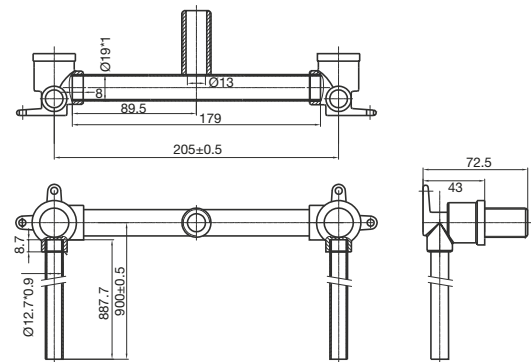
Code	Size
9504633	200mm Centre
	300mm Tails



Assemblies and Breeches

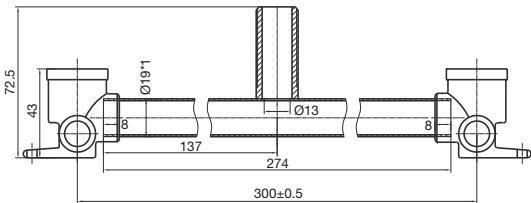
Ardent Sink Breech Bottom Entry

Code	Size
9504634	200mm Centre
	900mm Tails



Ardent Sink Breech Bottom Entry

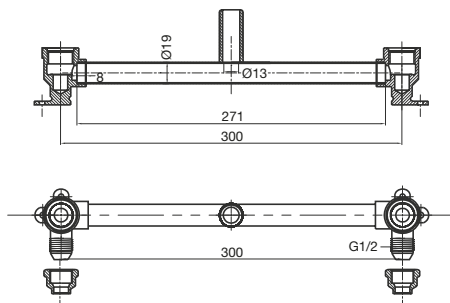
Code	Size
9504635	300mm Centre
	NO TAILS



Assemblies and Breeches

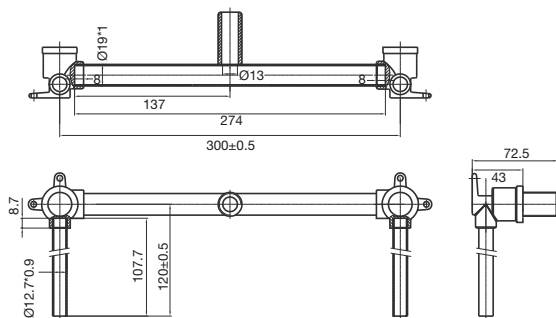
Ardent Sink Breech Bottom Entry (Compression)

Code	Size
9504636	300mm Centre
	NO TAILS



Ardent Sink Breech Bottom Entry

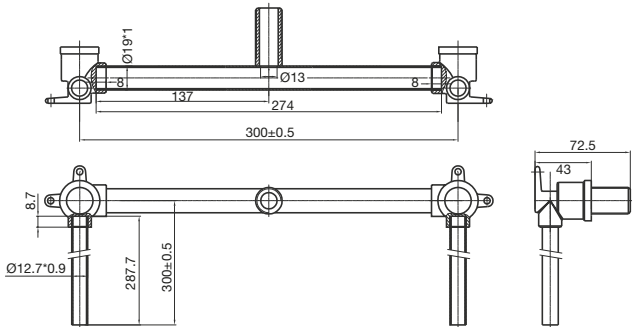
Code	Size
9504637	300mm Centre
	150mm Tails



Assemblies and Breeches

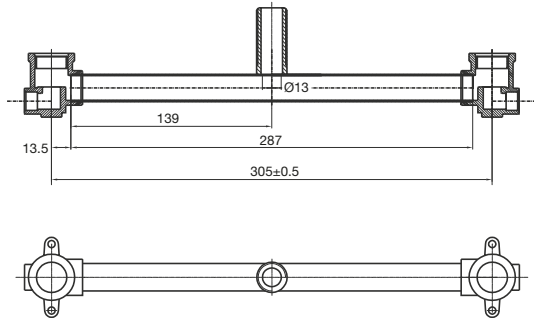
Ardent Sink Breech Bottom Entry

Code	Size
9504638	300mm Centre
	300mm Tails



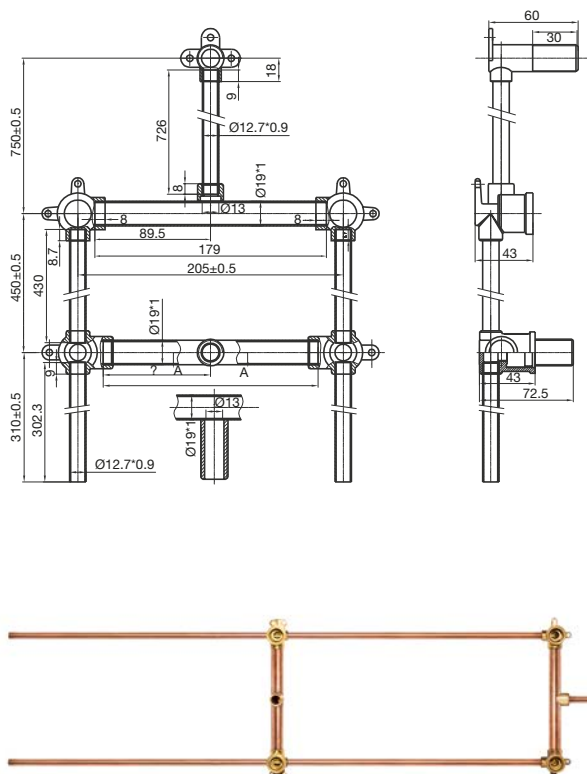
Ardent Sink Breech Side Entry

Code	Size
9504639	300mm Centre
	NO TAILS



Ardent Bath/Shower Breech Bottom Entry

Code	Size
9504649	200mm Centre
	300mm Tails



Copper Coils

Copper Coils

Ardent Copper Coils

Ardent annealed coils have been engineered to satisfy strict Australian quality standards. The coils are manufactured to comply with AS1432 and have a product warranty of 25 years.

Code	Description	SWP* (kPa)
9800001	15mm Annealed Coil (PLN B)	5290
9800002	15mm Annealed Coil (PLN A)	6100
9800004	20mm Annealed Coil (PLN B)	3970

*SWP = Safe Working Pressure @50°C



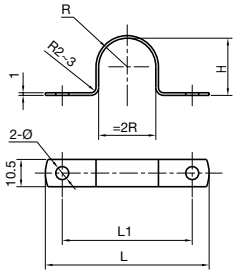
Code	Dimensions					
	Copper Tube Outside Diameter x Wall Thickness (mm)	Copper Tube Outside Diameter (Inches)	Length (m)	Coils Per Carton	Carton Dimensions (mm)	Weight Per Coil (kg)
9800001	12.7 x .91	1/2"	18	3	500 x 500 x 85	9
9800002	12.7 x 1.02	1/2"	18	3	500 x 500 x 86	6
9800004	19.05 x 1.02	3/4"	18	2	650 x 650 x 85	9.3

Refrigeration Saddles

Refrigeration Saddles

Ardent Refrigeration Saddles

Code	Size	L	L1	2R	H
2712456	5/8"	49	35.5	15.88	15.3
2712457	7/8"	62	49	22.2	21.2
2712458	1 1/8"	68	52	28.6	27.3
2712459	1 3/8"	74	61	34.9	33.5



Refrigeration Coils

Refrigeration Coils

Annealed Refrigeration Copper R410A and R32 (1/4" – 3/4")

Ardent annealed refrigeration copper is made to comply with strict Australian standards AS/NZS1571 and has a 25 year warranty. It is recommended for use in applications including:

- Air conditioning
- Refrigeration
- Mechanical services

Only sizes from 1/4" to 3/4" are R410A and R32 rated.



Code	Description	OD (mm)	Wall Thickness (mm)	Coil Length (m)
9800010	ANNEALED REFRIGERATION COIL R410A (1/4")	6.35	0.81	30
9800012	ANNEALED REFRIGERATION COIL R410A (3/8")	9.52	0.81	18
9800013	ANNEALED REFRIGERATION COIL R410A (1/2")	12.7	0.81	18
9800014	ANNEALED REFRIGERATION COIL R410A (5/8")	15.88	1.02	18
9800015	ANNEALED REFRIGERATION COIL R410A (3/4")	19.05	1.14	18
9800016	ANNEALED REFRIGERATION COIL (7/8")	22	0.91	18

Code	Description	Safe Working Pressure		
		Safe Working Pressure (kPa)		
		50°C	65°C	75°C
9800010	ANNEALED REFRIGERATION COIL R410A (1/4")	10635	9545	8820
9800012	ANNEALED REFRIGERATION COIL R410A (3/8")	6800	6105	5640
9800013	ANNEALED REFRIGERATION COIL R410A (1/2")	4995	4480	4140
9800014	ANNEALED REFRIGERATION COIL R410A (5/8")	5030	4515	4170
9800015	ANNEALED REFRIGERATION COIL R410A (3/4")	4670	4190	3870
9800016	ANNEALED REFRIGERATION COIL (7/8")	3140	2815	2600



AS/NZS 1571
SMK40029

Pair Coils

Pair Coils

Pair Coil

Ardent pair coil features a special polyethylene outer film that prevents creasing and helps to protect the insulation when passing the coil through difficult spaces. All this makes Ardent pair coil easier to install and ensures ultra long-life performance. Ardent pair coil is R410A and R32 refrigerant compliant and available in five size combinations.



Code	Description	Dimension					
		Copper Tube Outside Diameter x Wall Thickness (mm)	Copper Tube Outside Diameter (inches)	Pair Length (m)	Pair Coils Per Carton	Carton Dimensions (mm)	Weight Per Coil (kg)
9800005	PAIR COIL 1/4" X 3/8" R410A	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	20	1	505 x 505 x 195	6.5
9800006	PAIR COIL 1/4" X 1/2" R410A	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	20	1	575 x 575 x 195	7.9
9800007	PAIR COIL 1/4" X 5/8" R410A	6.35 x 0.81 - 5.88 x 1.02	1/4 - 5/8	20	1	615 x 615 x 195	10.9
9800008	PAIR COIL 3/8" X 5/8" R410A	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	20	1	645 x 645 x 195	12.3
9800009	PAIR COIL 3/8" X 3/4" R410A	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	20	1	725 x 725 x 195	15.4

Safe Working Pressure			
Copper Tube Outside Diameter x Wall Thickness	Safe Working Pressure (kPa)		
	50°C	65°C	75°C
6.35 x 0.81	10635	9545	8820
9.52 x 0.81	6800	6105	5640
12.70 x 0.81	4995	4480	4140
15.88 x 1.02	5030	4515	4170
19.05 x 1.14	4670	4190	3870



Pair Coils

Fire Retardant Pair Coil

Ardent PairCoilFR provides a quick and reliable solution to air conditioning, heating and refrigeration installations where NCC compliance is required.

- Conforms with National Construction Code fire safety regulations and requirements
- Fire rated insulation to AS/NZS 1530.3
- Available in 10mm, 13mm and 19mm insulation thickness
- Annealed copper tube manufactured to AS/NZ 1571
- R410A and R32 compliant copper
- 25 year product warranty on copper



For AWTA Fire Properties testing results, please see APPENDIX A.

Code	Copper Tube Dimensions		Insulation Wall Thickness (mm)	Material R-Value (K.m/W)		Length (m)	Weight (kg)
	Outside Diameter x Wall Thickness (mm)	Outside Diameter (inches)					
800000	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	10	1/4 = 0.54	3/8 = 0.48	18	8.5
800010	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	10	1/4 = 0.54	1/2 = 0.45	18	10.3
800011	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	10	3/8 = 0.48	5/8 = 0.42	18	13.1
800012	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	10	3/8 = 0.48	3/4 = 0.40	18	14.4
800013	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	10	1/2 = 0.45	3/4 = 0.40	18	15.9
9800167	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	13	1/4 = 0.73	3/8 = 0.63	20	10.2
9800168	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	13	1/4 = 0.73	1/2 = 0.58	20	11.34
9800169	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	13	1/4 = 0.73	5/8 = 0.55	20	15.6
9800170	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	13	3/8 = 0.63	5/8 = 0.55	20	17.4
9800171	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	13	3/8 = 0.63	3/4 = 0.53	20	19.5
9800172	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	19	1/4 = 1.25	3/8 = 1.10	18	11.84
9800173	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	19	1/4 = 1.25	1/2 = 1.00	18	13.97
9800174	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	19 - 21	1/4 = 1.25	5/8 = 1.07	18	16.7
9800175	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	19 - 21	3/8 = 1.10	5/8 = 1.07	18	20.3
9800176	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	19 - 21	3/8 = 1.10	3/4 = 1.02	18	21.85

Safe Working Pressure			
Copper Tube Outside Diameter x Wall Thickness	Safe Working Pressure (kPa)		
	50°C	65°C	75°C
6.35 x 0.81	10635	9545	8820
9.52 x 0.81	6800	6105	5640
12.70 x 0.81	4995	4480	4140
15.88 x 1.02	5030	4515	4170
19.05 x 1.14	4670	4190	3870

Pipe insulation properties tested and calculated in accordance with AS/NZS 4859.1

Thermal Conductivity @23°C (W/m.K)	Water Absorption (% W/W)	Vapour Barrier (μ)	Fungal Growth	Working Temperature (°C)
0.0334	3.85	>6000	Nil	-40 to +105



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Appendix A – AWTa Product Testing

13mm Tube Insulation

Colour	Black
Approximate Weight	816g/m ²
End Use	Insulation

MATERIAL SPECIFICATION PROVIDED BY CLIENT

Nominal Composition	Nitrile Butadiene Rubber
Nominal Thickness	13mm

AS/NZS	1530.3 - 1999
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Methods for Fire Tests on Building Materials, Components and Structures

Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

RESULTS

Face tested	Face	
Date tested	15/05/2017	
	<u>Mean</u>	<u>Standard Error</u>
Ignition time	0 min	Nil
Flame propagation time	0 sec	Nil
Heat release integral	0 kJ/m ²	Nil
Smoke release, log d	-1.3699	0.1045
Optical density, d	0.0510	–
Number of specimens ignited	0	
Number of specimens tested	6	

REGULATORY INDICES

		<u>Range</u>
Ignitability Index	0	0–20
Spread of Flame Index	0	0–10
Heat Evolved Index	0	0–10
Smoke Developed Index	3	0–10

These results only apply to the specimen mounted, as described in this report. The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

Each test specimen had an unattached backing of 4.5mm thick fibre reinforced cement board.

Each test specimen was clamped along all sides.

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