



Product Code:	See Annex A for list.
Description:	A radial crimp/Press fittings for use with MLCP piping to ISO21003.
Application:	Potable Hot and Cold water to EN806. Water based heating to EN12828. MLCP to ISO21003.
Connection type(s):	TH Profile Radial Crimp/Press fitting
Size/Range:	16mm, 20mm, 26mm, 32mm, 40mm, 50mm & 63mm
Test Pressure: (PT)	1.5x MOP (15 Bar)
Min/Max Operating pressure: (PS)	-0.8 - +10 Bar. 6 Bar @95°C. Application class 2/6 Bar & 5/6 Bar.
Min/Max Operating temperature: (TS)	-10°C - +95°C with occasional excursion up to 110°C
Colour:	Natural Brass Body, Stainless Sleeve and white LDPE guide
Package Quantity:	Various – see brochure
Storage/Handling:	Store in a cool, dry place out of direct sun [UV] light. Handle with care, wear PPE when required. Keep fittings in packaging until ready to install, to preserve O-ring lubrication, otherwise keep the fittings in a sealed container/bag.
Material Specification:	Body: Copper Alloy CW617N (UBA/4MSI) Press Sleeve: AISI 304 stainless steel Guide ring: LDPE
Manufactured to:	ISO9001:2015. ISO14001:2015. EN1254-8:2021. EN ISO 21003:2008 (System) NSAI License No. 1.153.001. BS6920. WRAS Reg4 UK No.2304341. KIWA Reg4 UK No.2303773. DVGW – EN681-1 Elastomer.

**Products produced from Brass are not suitable for underground applications!**

**Brass Fittings are NOT suitable for direct embedment into concrete, gypsum, or similar aggressive aggregates. Suitable protection measures are required. Such as chasing/Ducting/sheathing or similar protective measures to protect the brass from direct contact. Best practice is to have no concealed fittings.**

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Annex A. Fittings List	
Product code	Description
IP10001	Straight Coupler 16mm
IP10002	Straight Coupler 20mm
IP10003	Straight Coupler 26mm
IP10004	Straight Coupler 32mm
IP10005	Straight Coupler 40mm
IP10006	Straight Coupler 50mm
IP10007	Straight Coupler 63mm
IP10021	Straight Reducer 20x16mm
IP10031	Straight Reducer 26x16mm
IP10032	Straight Reducer 26x20mm
IP10042	Straight Reducer 32x20mm
IP10043	Straight Reducer 32x26mm
IP10052	Straight Reducer 40x20mm
IP10053	Straight Reducer 40x26mm
IP10054	Straight Reducer 40x32mm
IP10056	Straight Reducer 50x40mm
IP10063	Straight Reducer 50x26mm
IP10064	Straight Reducer 50x32mm
IP10074	Straight Reducer 63x32mm
IP10076	Straight Reducer 63x50mm
IP11001	Straight Coupler M.I x Pipe 1/2" M x 16mm
IP11021	Straight Coupler M.I x Pipe 3/4" M x 16mm
IP11012	Straight Coupler M.I x Pipe 1/2" M x 20mm
IP11002	Straight Coupler M.I x Pipe 3/4" M x 20mm
IP11032	Straight Coupler M.I x Pipe 1" M x 20mm
IP11013	Straight Coupler M.I x Pipe 1/2" M x 26mm
IP11023	Straight Coupler M.I x Pipe 3/4" M x 26mm
IP11003	Straight Coupler M.I x Pipe 1" M x 26mm
IP11034	Straight Coupler M.I x Pipe 1" M x 32mm
IP11004	Straight Coupler M.I x Pipe 1 1/4" M x 32mm
IP11045	Straight Coupler M.I x Pipe 1 1/4" M x 40mm
IP11056	Straight Coupler M.I x Pipe 1 1/2" M x 50mm
IP11066	Straight Coupler M.I x Pipe 2" M x 50mm
IP11057	Straight Coupler M.I x Pipe 1 1/2" M x 63mm
IP11067	Straight Coupler M.I x Pipe 2" M x 63mm
IP12001	Straight Coupler F.I. X Pipe 1/2" F x 16mm
IP12021	Straight Coupler F.I. X Pipe 3/4" F x 16mm
IP12002	Straight Coupler F.I. X Pipe 3/4" F x 20mm
IP12032	Straight Coupler F.I. X Pipe 1" F x 20mm
IP12013	Straight Coupler F.I. X Pipe 1/2" F x 26mm
IP12023	Straight Coupler F.I. X Pipe 3/4" F x 28mm
IP12003	Straight Coupler F.I. X Pipe 1" F x 26mm
IP12034	Straight Coupler F.I. X Pipe 1" F x 32mm
IP12002	Straight Coupler F.I. X Pipe 3/4" F x 20mm
IP12045	Straight Coupler F.I. X Pipe 1/2" F x 16mm
IP12056	Straight Coupler F.I. X Pipe 1/2" F x 16mm
IP12057	Straight Coupler F.I. X Pipe 1/2" F x 16mm
IP12004	Straight Coupler F.I. X Pipe 1 1/4" X 32mm

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IP13001	IP13 Adaptor 1/2" X 16mm
IP13002	IP13 Adaptor 3/4" X 20mm
IP13021	IP13 Adaptor 3/4" X 16mm
IP13023	IP13 Adaptor 3/4" X 26mm
IP13033	IP13 adaptor 1" X 26mm
IP13034	IP13 adaptor 1" X 32mm
IP13011	IP13 adaptor 15mm X 16mm
IP13012	IP13 adaptor 22mm x 20mm
IP13223	IP13 adaptor 22mm x 26mm
IP13035	IP13 adaptor 28mm X 32mm
IP13101	IP13 Elbow adaptor 1/2" X 16mm
IP13102	IP Elbow adaptor 3/4" x 20mm
IP13110	IP Elbow adaptor 15mm X 16mm
IP13111	IP Elbow adaptor 22mm X 20mm
IP14001	IP14 Spigot 1/2" X 16mm
IP14011	IP14 Spigot 15mm x 16mm
IP14002	IP14 Spigot 3/4" X 16mm
IP14022	IP14 Spigot 22mm X 20mm
IP14033	IP14 Spigot 22mm X 26mm
IP14044	IP14 Spigot 28mm X 26mm
IP14003	IP14 Spigot 3/4" x 26mm
IP14004	IP14 Spigot 1" x 26mm
IP14046	IP14 Spigot 28mm X 26mm
IP14047	IP14 Spigot 1" x 32mm
IP15001	IP15 90° Elbow 16mm
IP15002	IP15 90° Elbow 20mm
IP15003	IP15 90° Elbow 26mm
IP15004	IP15 90° Elbow 32mm
IP15005	IP15 90° Elbow 40mm
IP15006	IP15 90° Elbow 50mm
IP15007	IP15 90° Elbow 63mm
IP15055	IP15 45° Elbow 40mm
IP15066	IP15 45° Elbow 50mm
IP15077	IP15 45° Elbow 63mm
IP15011	IP15 Radiator Extension Elbow 16mm x 100mm
IP15010	IP15 Radiator Extension Elbow 16mm x 300mm
IP16001	IP16 Elbow M.I X Pipe 1/2"M x 16mm
IP16012	IP16 Elbow M.I X Pipe 1/2"M x 20mm
IP16002	IP16 Elbow M.I X Pipe 3/4"M x 20mm
IP16032	IP16 Elbow M.I X Pipe 1"M x 20mm
IP16023	IP16 Elbow M.I X Pipe 3/4"M x 26mm
IP16003	IP16 Elbow M.I X Pipe 1"M x 26mm
IP16034	IP16 Elbow M.I X Pipe 1"M x 32mm
IP16004	IP16 Elbow M.I X Pipe 1/2"M x 16mm
IP17001	IP17 Elbow F.I. X Pipe 1/2" F X 16mm
IP17001CP	IP17 Elbow F.I. X Pipe 1/2" F X 16mm Chrome
IP17012	IP17 Elbow F.I. X Pipe 1/2" F X 20mm
IP17002	IP17 Elbow F.I. X Pipe 3/4" F X 20mm
IP17032	IP17 Elbow F.I. X Pipe 1" F X 20mm
IP17013	IP17 Elbow F.I. X Pipe 1/2" F X 26mm
IP17023	IP17 Elbow F.I. X Pipe 3/4" F X 26mm

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IP17003	IP17 Elbow F.I. X Pipe 1" F X 26mm
IP17034	IP17 Elbow F.I. X Pipe 1" F X 32mm
IP17004	IP17 Elbow F.I. X Pipe 1 1/4" F X 32mm
IP18001	IP18 Equal Tee 16mm
IP18002	IP18 Equal Tee 20mm
IP18003	IP18 Equal Tee 26mm
IP18004	IP18 Equal Tee 32mm
IP18005	IP18 Equal Tee 40mm
IP18006	IP18 Equal Tee 50mm
IP18007	IP18 Equal Tee 63mm
IP18112	IP18 Reducing Tee 16x16x20mm
IP18211	IP18 Reducing Tee 20x16x16mm
IP18212	IP18 Reducing Tee 20x16x20mm
IP18221	IP18 Reducing Tee 20x20x16mm
IP18223	IP18 Reducing Tee 20x20x26mm
IP18311	IP18 Reducing Tee 26x16x16mm
IP18312	IP18 Reducing Tee 26x16x20mm
IP18313	IP18 Reducing Tee 26x16x26mm
IP18322	IP18 Reducing Tee 26x20x20mm
IP18323	IP18 Reducing Tee 26x20x26mm
IP18331	IP18 Reducing Tee 26x26x16mm
IP18332	IP18 Reducing Tee 26x26x20mm
IP18334	IP18 Reducing Tee 26x26x32mm
IP18414	IP18 Reducing Tee 32x16x32mm
IP18424	IP18 Reducing Tee 32x20x32mm
IP18432	IP18 Reducing Tee 32x26x20mm
IP18433	IP18 Reducing Tee 32x26x26mm
IP18434	IP18 Reducing Tee 32x26x32mm
IP18441	IP18 Reducing Tee 32x32x16mm
IP18442	IP18 Reducing Tee 32x32x20mm
IP18443	IP18 Reducing Tee 32x32x26mm
IP18552	IP18 Reducing Tee 40x40x20mm
IP18553	IP18 Reducing Tee 40x40x26mm
IP18554	IP18 Reducing Tee 40x40x32mm
IP18663	IP18 Reducing Tee 50x50x26mm
IP18664	IP18 Reducing Tee 50x50x32mm
IP18665	IP18 Reducing Tee 50x50x40mm
IP18774	IP18 Reducing Tee 63x63x32mm
IP18775	IP18 Reducing Tee 63x63x40mm
IP18776	IP18 Reducing Tee 63x63x50mm
IP19001	IP19 Wall plate Elbow 1/2" F x 16mm
IP19012	IP19 Wall plate Elbow 1/2" F X 20mm
IP20001	IP20 Nut and Insert adaptor 1/2" x 16mm
IP20001CP	IP20 Nut and Insert adaptor 1/2" x 16mm Chrome
IP20002	IP20 Nut and Insert adaptor 15mm x 16mm
IP20002CP	IP20 Nut and Insert adaptor 15mm x 16mm Chrome
IP20003	IP20 Nut and Insert adaptor 3/4" x 20mm
IP20004	IP20 Nut and Insert adaptor 1" x 26mm
IP20005	IP20 Nut and Insert adaptor 22 x 20mm
IP20006	IP20 Nut and Insert adaptor 28" x 26mm
IP20060	IP20 Press adaptor to compression 1/2" X 16mm

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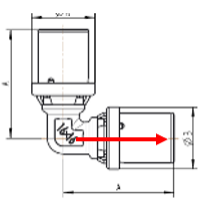
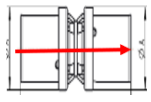
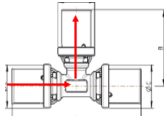
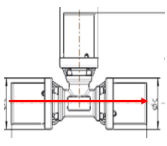
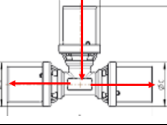
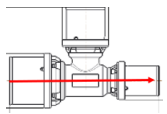




IP20061	IP20 Press adaptor to compression 15 X 16mm
IP20062	IP20 Press adaptor to compression 3/4" X 20mm
IP21001	IP21 Press adaptor to Metric 'M' Copper Press 16mm x 15mm
IP21002	IP21 Press adaptor to Metric 'M' Copper Press 20mm x 22mm
IP21003	IP21 Press adaptor to Metric 'M' Copper Press 26mm x 28mm
IP21004	IP21 Press adaptor to Imperial 'Vi' Copper Press 16mm x 1/2"
IP21005	IP21 Press adaptor to Imperial 'Vi' Copper Press 20mm x 3/4"
IP21006	IP21 Press adaptor to Imperial 'Vi' Copper Press 26mm x 1"
IP30001	IP30 Tee 16x16x1/2"F
IP30002	IP30 Tee 20x20x3/4"F
IP30003	IP30 Tee 26x26x1"F
IP30331	IP30 Tee 26x26x1/2"F
IP30443	IP30 Tee 32x32x1"F
IP51001	IP51 Stop End 16mm
IP51002	IP51 Stop End 20mm
IP51003	IP51 Stop End 26mm
IP51004	IP51 Stop End 32mm
IP93001	IP93 Shower Bracket 16mm x 1/2" F Centre 150-155mm
IP27001	IP27 Tap connector 16mm x 1/2" F
IP700051	IP70 Isolating penny valve 16mm x 1/2"
IP700049	IP70 Isolating penny valve 16mm x 15mm
IP80001	IP80 Lever ball valve 16mm
IP80002	IP80 Lever ball valve 20mm
IP80003	IP80 Lever ball valve 26mm
IP80004	IP80 Lever ball valve 32mm
IP700110	Flexi Hose 1/2" x 16mm x 300mm
IP700109	Flexi Hose 1/2" X 16mm x 500mm
IP771095	TRV Only 16mm x 3/4"
IP771096	TRV Pack 16mm x 3/4"



**Annex B. Values with water at 15°C and the flow rate at 2m/s**

Pipe Diameter:		Ø16mm	Ø20mm	Ø26mm	Ø32mm
<b>Elbow 90°</b> 	Zeta	2.021	1.87	1.974	1.981
	M	0.96	1.27	1.76	2.44
<b>Straight Coupler</b> 	Zeta	0.689	0.559	0.504	0.472
	M	0.33	0.38	0.45	0.58
<b>Tee Turn 90 to Branch</b> 	Zeta	2.329	1.89	1.974	1.844
	M	1.1	1.28	1.76	2.27
<b>Tee Straight through</b> 	Zeta	0.829	0.639	0.629	0.562
	M	0.39	0.43	0.56	0.69
<b>Tee Branch 90 to straight</b> 	Zeta	2.372	2.01	2.104	1.898
	M	1.12	1.36	1.88	2.34
<b>Straight through reducer</b> 		20mm-16mm	26mm-16mm	26mm-20mm	
	Zeta	0.765	0.746	0.684	
	M	0.52	0.67	0.61	