Installed quickly & easily, AusPress Stainless is installed without flame as the preferred method for installing grade 316 stainless pipework.

M profile

OD 15 to 168mm

WaterMark

ACTIVFIRE CERTIFIED™

6s

Press a 28mm fitting onto the stainless tube in under 6 seconds. Join done.

Faster to Install

AusPress press-fit offers large time savings compared to welding, threading, grooving or glueing.

Safer to Use

We train your team on-site.
One button tool operation.
Lightweight battery tools.
No flames or hot work permits.
No heavy gas tanks.
No hazardous fumes.
Less risk.

Experience Counts

We were the first to supply press-fit stainless in Australia & New Zealand.
We work with consultants & installers on specialised complex projects regularly.

Quality to Install

Approved to WaterMark, ActivFire, Australian & International standards.
Material traced from coil to tube & fittings (3.1 certs).
Superior temperature tolerance.
Longitudinally **TIG welded** stainless tube 15 - 108mm**.**

Reliable Design

Suits a wide range of applications.
Permanent high strength with the original **'M' press** join profile.
Consistent low profile join look & quality each time.

Environmental Choice

Long service life.
Closed loop material (completely recycled to make more stainless).
Efficient and waste free install.

Installing AusPress®

M profile

OD 15 to 168mm

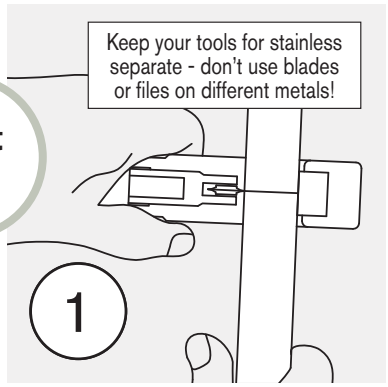
Start to install quicker...
AusPress press-fit is installed easily & quickly using a Press Tool to form a permanent 'M' profile pressed join between tube and fitting.

Start here

Check for suitability...
Both the piping material (eg 316L stainless steel) and the elastomer (the rubber ring seal) must be checked if suitable.

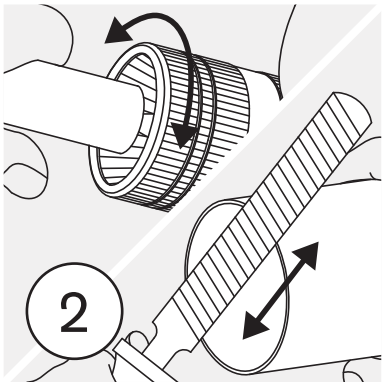
Installation only by qualified and licensed plumber in accordance with AS3500.

This guide is for standard applications. For different or specialised applications please contact us first.



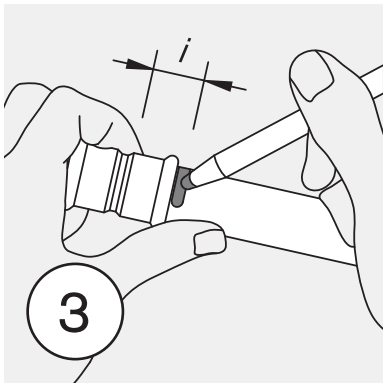
Cut to Length
Cut the tube square using a tube cutter with an 'inox' suitable blade.

For larger sizes, cut square with an 'inox' blade using a stainless rotary cutter or other suitable cold-cut tool.



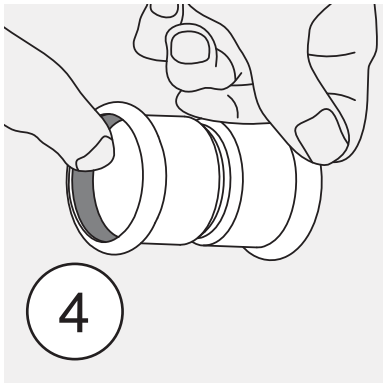
Deburr Tube
Deburr both inside & outside edges of tube ends to avoid cutting the ring seal on insertion.

For large sizes, use a half round smooth file reserved for stainless.



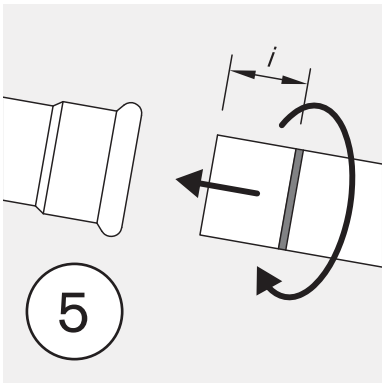
Mark the Insertion Depth "*i*"
Measure or use a depth gauge to mark the insertion depth (socket depth) onto the tube end.

This is a visual quality control mark to ensure the tube is fully inserted.



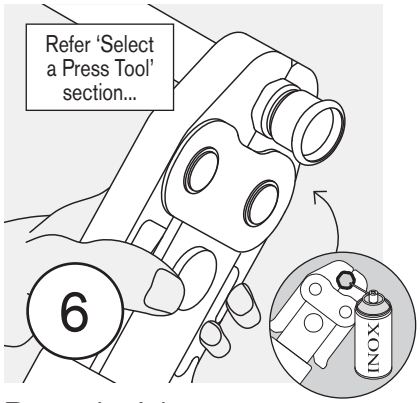
Inspect Fitting & Ring Seals
Check that the rubber ring seal is:

- The correct material type (colour) of seal is used.
- The seal is not damaged.
- Both fitting & seal are free of debris.

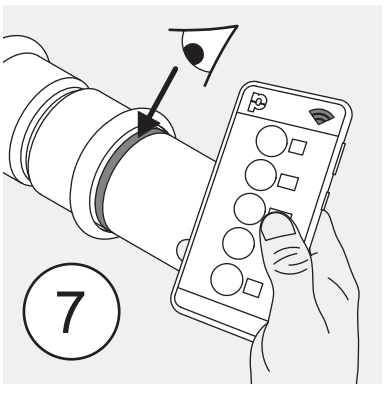


Join the Tube & Fitting
Insert the tube into the fitting press socket, turning slightly until it reaches the previously marked insertion depth.

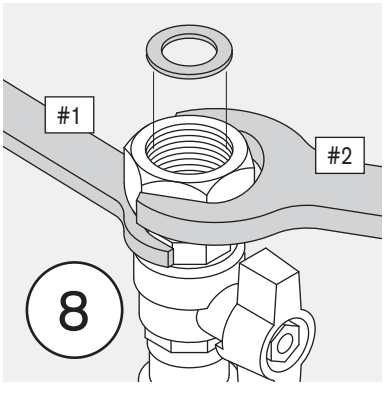
Soapy water can be used if joining is difficult.



Press the Join
Using a suitable press tool and M-profile jaw or collar, align the press jaw with the fitting and join following the tool manufacturer's instructions.



Check & Complete
Inspect the pressed fitting. Check insertion depth marking. Refer the NovoCheck app. Lubricate press zone of tool head as required.



Threaded Ends
Tighten threads with the fitting supported, don't tighten against a pressed join alone.

Select a Press Tool

The right tool for the job...

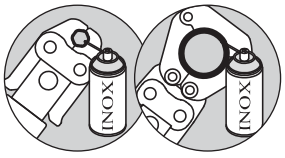
AusPress fittings are joined quickly & consistently using a press tool, fitted with an interchangable M-Profile head matching the fitting diameter to form a permanent join.

The chart below identifies the *maximum working pressure* based on the tube diameter and press tool & M-Profile head combination for potable water at 25°C using AusPress tube and fittings.

Confirm your project suitability before installing as some applications and specific fittings are limited to a lower pressure despite the system able to achieve higher; in these cases, the lesser pressure is used to rate the system capacity.

Refer to the technical section and contact us for more information.

Installation only by a qualified and licenced plumber to AS/NZS 3500.



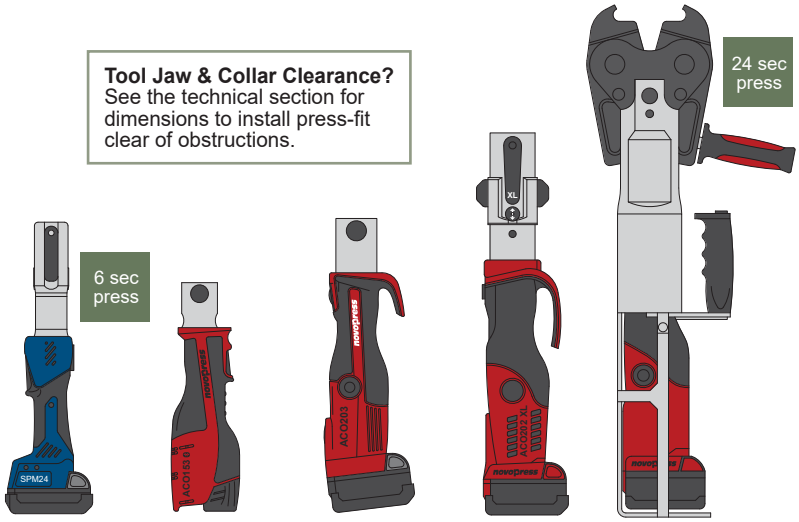
Ensure the inner press surfaces are lubricated with Inox for a smooth consistent press. Reapply as needed.

The 'M' Profile Press...

AusPress Stainless Metric fittings are manufactured with a M-Profile press socket.

The press tools, jaws and collars we supply are designed to suit M-Profile and although they may look similar to other types, the tolerances of others may be different. Using incorrect tooling may effect warranty as a result.

Tool Jaw & Collar Clearance?
See the technical section for dimensions to install press-fit clear of obstructions.



		SPM24 24kN	ACO153 24kN	ACO203 32kN	ACO203-XL 32kN	ACO403 120kN
or +	15 to 22mm	25 bar 362 psi 2,500 kPa	25 bar 362 psi 2,500 kPa	HP 60 bar 870 psi 6,000 kPa	HP 60 bar 870 psi 6,000 kPa	N/A
or +	28 to 35mm	25 bar 362 psi 2,500 kPa	25 bar 362 psi 2,500 kPa	25 bar 362 psi 2,500 kPa	25 bar 362 psi 2,500 kPa	N/A
+ **'HP'** Collar & ZB203 Adaptor		N/A	N/A	HP 60 bar 870 psi 6,000 kPa	HP 60 bar 870 psi 6,000 kPa	N/A
+ ZB203 Adaptor Jaw & 'M' Collar	42mm & 54mm	N/A	N/A	25 bar 362 psi 2,500 kPa	25 bar 362 psi 2,500 kPa	N/A
+ **'HP'** Collar & ZB203 Adaptor		N/A	N/A	HP 40 bar 580 psi 4,000 kPa	HP 40 bar 580 psi 4,000 kPa	N/A
+ Ø66.7, 76.1, 88.9 use ZB221 adaptor. Ø108 use ZB221 & ZB222 adaptors.	66.7 mm	N/A	N/A	N/A	25 bar 362 psi 2,500 kPa	N/A
	76.1 to 108mm	N/A	N/A	N/A	16 bar 232 psi 1,600 kPa	N/A
'HP' Collar (for ACO403 only)		N/A	N/A	N/A	N/A	HP 25 bar 362 psi 2,500 kPa
Double Offset Press Collar (for ACO403 only)	139.7 mm	N/A	N/A	N/A	N/A	20 bar 290 psi 2,000 kPa
	168.3 mm	N/A	N/A	N/A	N/A	16 bar 232 psi 1,600 kPa

Please Note: This chart is only a guide. Values noted are *Maximum Working Pressure* of the press join using the tool combinations shown; not the safety, or testing pressure, nor pressures for all applications. Some media are only suitable at lower pressures that shall be confirmed before installation to meet applicable safety and performance standards by the installer. Additional technical information, Tech Notes and advice is available from AusPress on request. Higher working pressures are on request with written approval from AusPress only.

AusPress Metric Stainless Range

Refer to our Technical Data Sheets for material suitability and resistance.

What Stainless Grade should I use?

We stock grade 316 post-annealed stainless steel tube, in metric diameters to suit the AusPress press-fit range.

Fittings are supplied in 316L stainless steel and are compatible with either 304 or 316 metric tube to AS 5200.053 (EN 10312, series 2).

Please ask us if you require more information or technical advice for your project.

For technical information for specialised projects please ask us. With over 30 years of experience, have access to testing metallurgist services too.

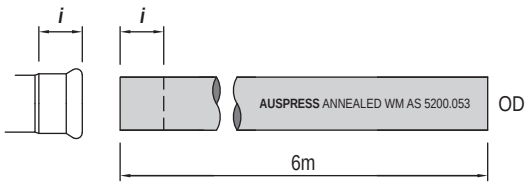
Tube Bending:
Tube diameters up to 35mm can be cold bent with a commercial bender to a radius no less than 3.5x the tube diameter.

Eg: 15 (tube dia) x 3.5 = 52.5mm radius min along the centre line.

Stainless Tube 6m ANNEALED

Tube: Post-Annealed Grade 316L Metric Tube

The insertion depth "*i*" is the tube length fully inserted into the socket of the press fitting for full joint strength to be achieved.



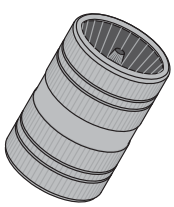
	Product No	OD (mm)	*i* depth	ID (mm)	Thk (t)	DN	Tube Weights (kg) dry/m	dry/6m	**wet/m**
1/2"	316.**96**.015	**15**	**22**	13.0	1.0	15	0.4	2.1	**0.5**
3/4"	316.**96**.022	**22**	**23**	19.6	1.2	20	0.6	3.8	**0.9**
1"	316.**96**.028	**28**	**26**	25.6	1.2	25	0.8	4.9	**1.3**
1.1/4"	316.**96**.035	**35**	**29**	32.0	1.5	32	1.3	7.6	**2.1**
1.1/2"	316.**96**.042	**42**	**32**	39.0	1.5	40	1.5	9.2	**2.7**
2"	316.**96**.054	**54**	**37**	51.0	1.5	50	2.0	11.9	**4.0**
2.1/2"	316.**96**.066	**66.7**	**51**	62.7	2.0	65	3.3	19.5	**6.3**
3"	316.**96**.076	**76.1**	**54**	72.1	2.0	80	3.7	22.3	**7.8**
3.1/2"	316.**96**.088	**88.9**	**61**	84.9	2.0	90	4.4	26.3	**10.0**
4"	316.**96**.108	**108**	**82**	104.0	2.0	100	5.3	32.1	**13.8**
5"	316.**96**.139	**139.7**	**98**	135.7	2.0	125	6.9	41.5	**21.4**
6"	316.**96**.168	**168.3**	**126**	164.3	2.0	150	8.4	50.3	**29.6**

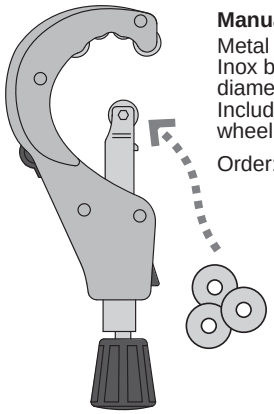
- **Grade 316 Stainless** has a greater resistance to chlorides than lesser grades such as 304 stainless.
- **Post-Aneallled Tube** for additional resistance and performance especially for filtered and purified waters.
- **WaterMark Approved** tube to AS 5200.053 & EN 10312 (series 2) conformance and AS 4020 for contact with potable water.
- **TIG longitudinal welded**, rolled seam tube construction, with internal clean & cap process before leaving the factory.
- **3.1 Certified** with each length batch traceable back to the base material.
- **Factory Tested** each length with Eddy Current (ECT) and hydrostatic quality testing for before dispatch.

Installation Tools

Press Tools: Please refer to the Press Tool Range section for tool and press head capabilities and availablity or contact AusPress directly.

Tube Deburrer
Inside and outside diameter cones, suits diameters 15 - 54mm.
Order: **VT.DEB**



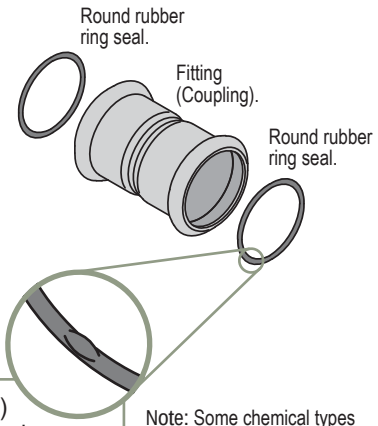


Manual Tube Cutter
Metal construction, Inox blade, suitable for diameters 6 - 76.1mm OD. Includes 1x spare cutting wheel in handle end.
Order: **VT.TCUT.006.076**

Replacement Inox Cutting Wheels
Includes wheel & bearing.
Order: **VT.TCUT.WHEEL**

Rubber Ring Seals
Fittings are supplied with an EPDM type ring seal as standard in each press-socket.

Depending on the application, the ring seal may need to be changed to a different type, ie for higher chemical or temperature resistance.



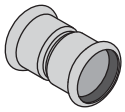
LBP (Leak Before Press) features are small depressions that allow un-pressed fittings to drip leak during initial pressure testing to identify joins that require attention up to and including 54Ø.

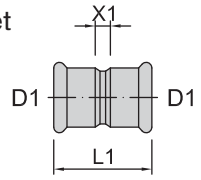
EPDM Seal: Unpressed seal leaks when tested with water, pressures between 100 to 500kPa.

Note: Some chemical types and/or high concentrations can be unsuitable with stainless steel and ring seals.

Please contact us for suitability confirmation before installing, with a Project Info Sheet and any SDS details or laboratory water test results.

Coupling Socket - Socket

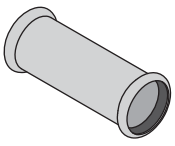


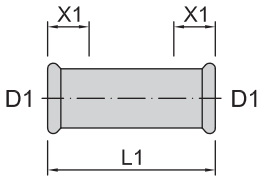


Material: 316L stainless steel. Ring Seal: EPDM x2 supplied.

Product No	D1	L	X1
316.**21**.015	**15**	48	8
316.**21**.022	**22**	51	8
316.**21**.028	**28**	52	8
316.**21**.035	**35**	70	18
316.**21**.042	**42**	78	18
316.**21**.054	**54**	86	18
316.**21**.066	**66.7**	127	31
316.**21**.076	**76.1**	141	33
316.**21**.088	**88.9**	160	45
316.**21**.108	**108**	197	58
316.**21**.139	**139.7**		
316.**21**.168	**168.3**	300	64

Slip Coupling Socket - Socket

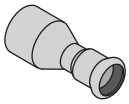


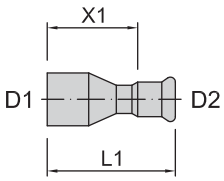


Material: 316L stainless steel. Ring Seal: EPDM x2 supplied.

Product No	D1	L	X1 min
316.**22**.015	**15**	65	28
316.**22**.022	**22**	74	20
316.**22**.028	**28**	83	22
316.**22**.035	**35**	100	26
316.**22**.042	**42**	115	30
316.**22**.054	**54**	140	34
316.**22**.066	**66.7**	194	48
316.**22**.076	**76.1**	226	54
316.**22**.088	**88.9**	255	58
316.**22**.108	**108**	300	72
316.**22**.139	**139.7**		
316.**22**.168	**168.3**		

Spigot Reducer Socket - Tube End

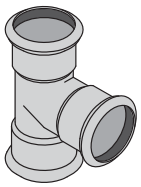


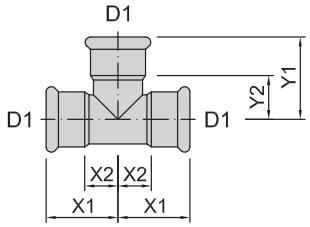


Material: 316L stainless steel. Ring Seal: EPDM x1 (D2) supplied.

Product No	D1	D2	L	X1
316.**23**.022.015	**22**	**15**	64	44
316.**23**.028.022	**28**	**22**	65	46
316.**23**.035.015	**35**	**15**	77	57
316.**23**.035.022	**35**	**22**	81	62
316.**23**.035.028	**35**	**28**	74	52
316.**23**.042.015	**42**	**15**	85	65
316.**23**.042.022	**42**	**22**	86	67
316.**23**.042.028	**42**	**28**	82	60
316.**23**.042.035	**42**	**35**	88	62
316.**23**.054.015	**54**	**15**	92	72
316.**23**.054.022	**54**	**22**	92	73
316.**23**.054.028	**54**	**28**	93	71
316.**23**.054.035	**54**	**35**	101	75
316.**23**.054.042	**54**	**42**	101	71
316.**23**.066.042	**66.7**	**42**	131	
316.**23**.066.054	**66.7**	**54**	123	
316.**23**.076.042	**76.1**	**42**	132	102
316.**23**.076.054	**76.1**	**54**	132	98
316.**23**.076.066	**76.1**	**66.7**	142	
316.**23**.088.042	**88.9**	**42**	162	132
316.**23**.088.054	**88.9**	**54**	162	128
316.**23**.088.066	**88.9**	**66.7**	161	
316.**23**.088.076	**88.9**	**76.1**	179	126
316.**23**.108.054	**108**	**54**	179	145
316.**23**.108.066	**108**	**66.7**	176	
316.**23**.108.076	**108**	**76.1**	198	145
316.**23**.108.088	**108**	**88.9**	206	148
316.**23**.139.076	**139.7**	**76.1**		
316.**23**.139.088	**139.7**	**88.9**		
316.**23**.139.108	**139.7**	**108**		
316.**23**.168.088	**168.3**	**88.9**	379	321
316.**23**.168.108	**168.3**	**108**	360	289
316.**23**.168.139	**168.3**	**139.7**	307	209

Tee Equal Socket Ends & Branch

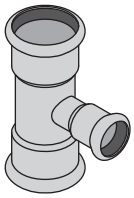


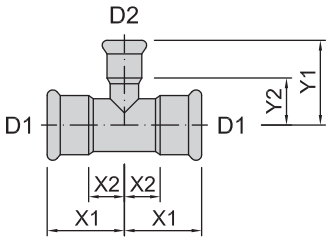


Material: 316L stainless steel. Ring Seal: EPDM x3 supplied.

Product No	D1	X1	X2	Y1	Y2
316.**51**.015	**15**	32	12	39	19
316.**51**.022	**22**	36	16	42	21
316.**51**.028	**28**	41	19	47	25
316.**51**.035	**35**	50	24	53	27
316.**51**.042	**42**	57	27	60	30
316.**51**.054	**54**	68	34	71	37
316.**51**.066	**66.7**	97	49	99.5	51.5
316.**51**.076	**76.1**	113	59	110	55
316.**51**.088	**88.9**	128	72	128	69
316.**51**.108	**108**	150	81	154	85
316.**51**.139	**139.7**				
316.**51**.168	**168.3**	257	139	235	118

Tee Reduced Socket Ends & Branch

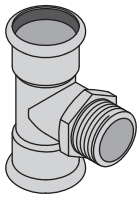


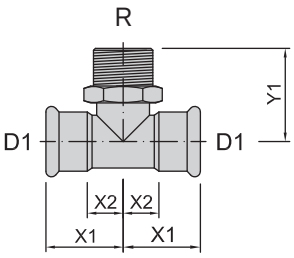


Material: 316L stainless steel. Ring Seal: EPDM x3 supplied.

Product No	D1	D2	X1	X2	Y1	Y2
316.**52**.022.015	**22**	**15**	36	16	42	22
316.**52**.028.015	**28**	**15**	41	19	45	25
316.**52**.028.022	**28**	**22**	41	19	45	25
316.**52**.035.015	**35**	**15**	50	24	48	28
316.**52**.035.022	**35**	**22**	50	24	48	28
316.**52**.035.028	**35**	**28**	50	24	51	28
316.**52**.042.015	**42**	**15**	57	27	52	32
316.**52**.042.022	**42**	**22**	57	27	51	31
316.**52**.042.028	**42**	**28**	57	27	53	31
316.**52**.042.035	**42**	**35**	57	27	57	31
316.**52**.054.015	**54**	**15**	68	34	57	38
316.**52**.054.022	**54**	**22**	68	34	57	38
316.**52**.054.028	**54**	**28**	68	34	60	38
316.**52**.054.035	**54**	**35**	68	34	63	37
316.**52**.054.042	**54**	**42**	68	34	67	37
316.**52**.066.015	**66.7**	**15**	97	49	66.5	18.5
316.**52**.066.018	**66.7**	**18**	97	49	62.5	14.5
316.**52**.066.022	**66.7**	**22**	97	49	66.5	18.5
316.**52**.066.028	**66.7**	**28**	97	49	71.5	23.5
316.**52**.066.035	**66.7**	**35**	97	49	72.5	24.5
316.**52**.066.042	**66.7**	**42**	97	49	76.5	28.5
316.**52**.066.054	**66.7**	**54**	97	49	82.5	34.5
316.**52**.076.022	**76.1**	**22**	113	59	68	48
316.**52**.076.028	**76.1**	**28**	113	59	72	49
316.**52**.076.035	**76.1**	**35**	113	59	74	48
316.**52**.076.042	**76.1**	**42**	113	59	76	46
316.**52**.076.054	**76.1**	**54**	113	59	83	47
316.**52**.076.066	**76.1**	**66.7**	97			
316.**52**.088.022	**88.9**	**22**	128	72	75	55
316.**52**.088.028	**88.9**	**28**	128	72	79	56
316.**52**.088.035	**88.9**	**35**	128	72	81	55
316.**52**.088.042	**88.9**	**42**	128	72	83	53
316.**52**.088.054	**88.9**	**54**	128	72	90	54
316.**52**.088.076	**88.9**	**76.1**	128	72	115	63
316.**52**.108.022	**108**	**22**	150	81	84	64
316.**52**.108.028	**108**	**28**	150	81	88	65
316.**52**.108.035	**108**	**35**	150	81	90	64
316.**52**.108.042	**108**	**42**	150	81	95	65
316.**52**.108.054	**108**	**54**	150	81	99	65
316.**52**.108.076	**108**	**76.1**	150	81	127	73
316.**52**.108.088	**108**	**88.9**	150	81	136	74
316.**52**.139.054	**139.7**	**54**				
316.**52**.139.076	**139.7**	**76.1**				
316.**52**.139.088	**139.7**	**88.9**				
316.**52**.139.108	**139.7**	**108**				
316.**52**.168.054	**168.3**	**54**	257	139	140	105
316.**52**.168.076	**168.3**	**76.1**	257	139	157	103
316.**52**.168.088	**168.3**	**88.9**	257	139	167	110
316.**52**.168.108	**168.3**	**108**	257	139	182	111
316.**52**.168.139	**168.3**	**139.7**	230	104	220	122

MI Tee Socket Ends - MI BSP Branch

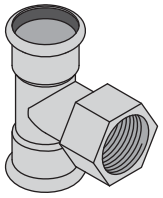


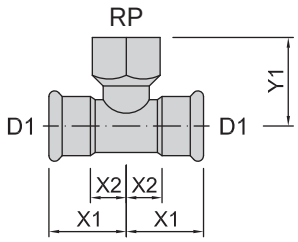


Material: 316L stainless steel. Ring Seal: EPDM x2 supplied.

Product No	D1	R	X1	X2	Y1
316.**54**.015.015	**15**	**1/2”**	32	12	36
316.**54**.022.015	**22**	**1/2”**	37	16	41
316.**54**.022.020	**22**	**3/4”**	36	16	44
316.**54**.022.025	**22**	**1”**	42	19	49
316.**54**.028.015	**28**	**1/2”**	42	19	44
316.**54**.028.025	**28**	**1”**	41	19	50
316.**54**.035.020	**35**	**3/4”**	50	24	51
316.**54**.035.032	**35**	**1.1/4”**	50	24	57
316.**54**.042.040	**42**	**1.1/2”**	57	27	60
316.**54**.054.050	**54**	**2”**	69	34	75

FI Tee Socket Ends - FI BSP Branch

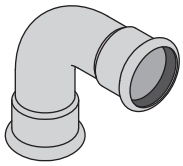


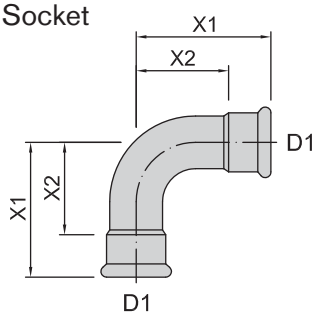


Material: 316L stainless steel. Ring Seal: EPDM x2 supplied.

Product No	D1	RP	X1	X2	Y1
316.**53**.015.015	**15**	**1/2”**	32	12	36
316.**53**.022.015	**22**	**1/2”**	36	16	39
316.**53**.022.020	**22**	**3/4”**	36	16	44
316.**53**.028.015	**28**	**1/2”**	41	19	42
316.**53**.028.020	**28**	**3/4”**	41	19	46
316.**53**.028.025	**28**	**1”**	41	19	47
316.**53**.035.015	**35**	**1/2”**	50	24	45
316.**53**.035.020	**35**	**3/4”**	50	24	50
316.**53**.035.025	**35**	**1”**	50	24	52
316.**53**.035.032	**35**	**1.1/4”**	50	24	55
316.**53**.042.015	**42**	**1/2”**	57	27	48
316.**53**.042.020	**42**	**3/4”**	57	27	52
316.**53**.042.025	**42**	**1”**	57	27	55
316.**53**.042.040	**42**	**1.1/2”**	57	27	62
316.**53**.054.015	**54**	**1/2”**	68	34	55
316.**53**.054.020	**54**	**3/4”**	68	34	58
316.**53**.054.025	**54**	**1”**	68	34	60
316.**53**.054.050	**54**	**2”**	68	34	76
316.**53**.066.015	**66.7**	**1/2”**	97	49	64.5
316.**53**.076.020	**76.1**	**3/4”**	113	59	71
316.**53**.076.050	**76.1**	**2”**	113	59	91
316.**53**.088.020	**88.9**	**3/4”**	128	70	78
316.**53**.088.050	**88.9**	**2”**	128	70	97
316.**53**.108.020	**108**	**3/4”**	150	81	87
316.**53**.108.050	**108**	**2”**	150	81	107

90 Bend Socket - Socket



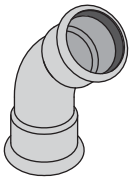


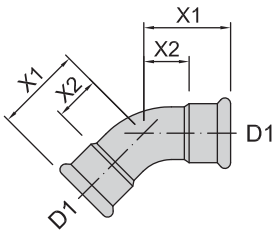
Material: 316L stainless steel.

Ring Seal: EPDM x2 supplied.

Product No	D1	X1	X2
316.**31**.090.015	**15**	43	23
316.**31**.090.022	**22**	61	40
316.**31**.090.028	**28**	72	49
316.**31**.090.035	**35**	74	48
316.**31**.090.042	**42**	86	56
316.**31**.090.054	**54**	106	72
316.**31**.090.066	**66.7**	137	89
316.**31**.090.076	**76.1**	177	124
316.**31**.090.088	**88.9**	181	123
316.**31**.090.108	**108**	214	140
316.**31**.090.139	**139.7**		
316.**31**.090.168	**168.3**	386	268

45 Bend Socket - Socket



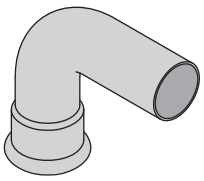


Material: 316L stainless steel.

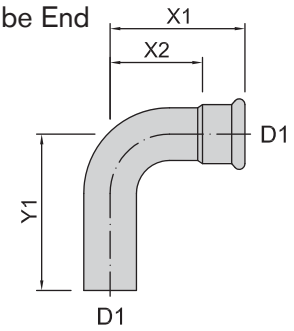
Ring Seal: EPDM x2 supplied.

Product No	D1	X1	X2
316.**31**.045.015	**15**	35	15
316.**31**.045.022	**22**	41	20
316.**31**.045.028	**28**	46	24
316.**31**.045.035	**35**	55	29
316.**31**.045.042	**42**	68	38
316.**31**.045.054	**54**	81	47
316.**31**.045.066	**66.7**	90	42
316.**31**.045.076	**76.1**	111	58
316.**31**.045.088	**88.9**	114	56
316.**31**.045.108	**108**	138	64
316.**31**.045.139	**139.7**		
316.**31**.045.168	**168.3**	252	134

90 Bend Socket - Tube End



The length of M-F Bends cannot be cut shorter.

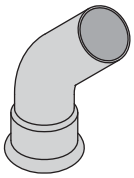


Material: 316L stainless steel.

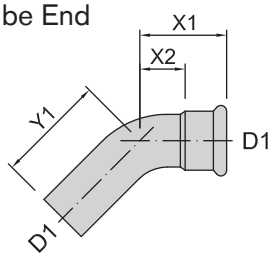
Ring Seal: EPDM x1 supplied.

Product No	D1	X1	X2	Y1
316.**32**.090.015	**15**	48	28	67
316.**32**.090.022	**22**	61	40	74
316.**32**.090.028	**28**	72	49	82
316.**32**.090.035	**35**	74	48	85
316.**32**.090.042	**42**	86	56	97
316.**32**.090.054	**54**	105	72	122
316.**32**.090.066	**66.7**	137	89	152
316.**32**.090.076	**76.1**	177	124	195
316.**32**.090.088	**88.9**	181	123	202
316.**32**.090.108	**108**	214	140	240
316.**32**.090.139	**139.7**			
316.**32**.090.168	**168.3**	386	268	404

45 Bend Socket - Tube End



The length of M-F Bends cannot be cut shorter.

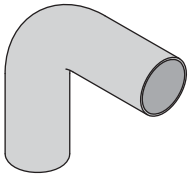


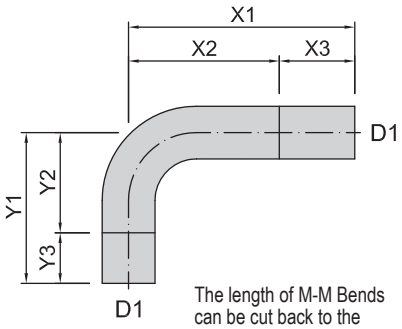
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	X1	X2	Y1
316.**32**.045.015	**15**	35	15	47
316.**32**.045.022	**22**	40	20	52
316.**32**.045.028	**28**	46	24	58
316.**32**.045.035	**35**	55	29	69
316.**32**.045.042	**42**	68	38	78
316.**32**.045.054	**54**	81	47	92
316.**32**.045.066	**66.7**	90	42	104
316.**32**.045.076	**76.1**	111	58	128
316.**32**.045.088	**88.9**	114	56	135
316.**32**.045.108	**108**	138	64	169
316.**32**.045.139	**139.7**			
316.**32**.045.168	**168.3**	252	134	253

90 Bend Tube End - Tube End





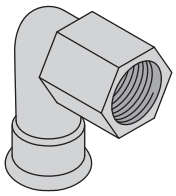
The length of M-M Bends can be cut back to the dashed line maximum.

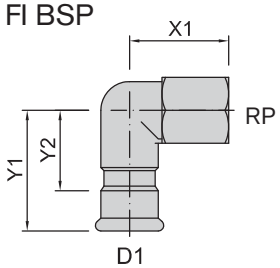
Material: 316L stainless steel.

Product No	D1	X1	X2	X3	Y1	Y2	Y3
316.**33**.090.015	**15**	120	58	62	70	58	12
316.**33**.090.022	**22**	120	70	50	70	63	7
316.**33**.090.028	**28**	120	80	40	80	70	10
316.**33**.090.035	**35**	200	100	100	120	80	40
316.**33**.090.042	**42**	250	120	130	150	100	50
316.**33**.090.054	**54**	300	145	155	200	120	80

Tube up to 35mm diameter can be bent using a commercial tube bender - refer to the technical section for more information.

FI 90 Bend Socket - FI BSP

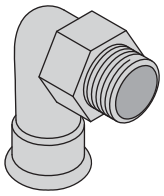


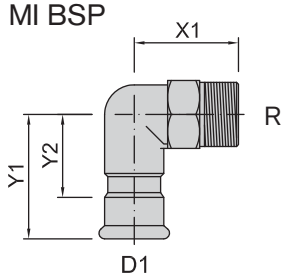


Material: 316L stainless steel. Ring Seal: EPDM x1 supplied.

Product No	D1	RP	X1	Y1	Y2
316.**34**.015.015	**15**	**1/2”**	37	57	37
316.**34**.022.015	**22**	**1/2”**	39	59	38
316.**34**.022.020	**22**	**3/4”**	46	59	39
316.**34**.028.020	**28**	**3/4”**	46	68	45
316.**34**.028.025	**28**	**1”**	54	67	44
316.**34**.035.032	**35**	**1.1/4”**	63	75	49
316.**34**.108.080	**108**	**3”**	106	186	104

MI 90 Bend Socket - MI BSP

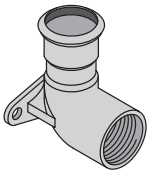


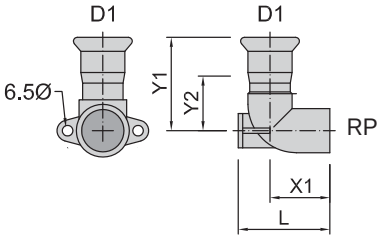


Material: 316L stainless steel. Ring Seal: EPDM x1 supplied.

Product No	D1	R	X1	Y1	Y2
316.**35**.015.015	**15**	**1/2”**	37	57	37
316.**35**.022.020	**22**	**3/4”**	46	59	39
316.**35**.028.025	**28**	**1”**	54	67	44
316.**35**.035.032	**35**	**1.1/4”**	63	75	49
316.**35**.042.040	**42**	**1.1/2”**	67	84	54
316.**35**.054.050	**54**	**2”**	78	93	60

FI 90 Bend with Wall Plate Socket - FI BSP



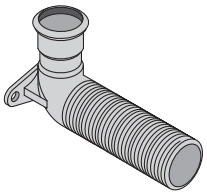


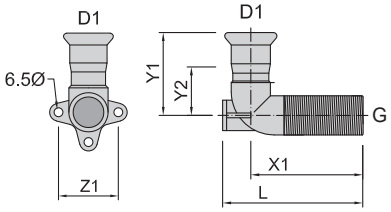
Material: 316L stainless steel. Ring Seal: EPDM x1 supplied.

Product No	D1	RP	L	X1	Y1	Y2
316.**36**.015.015	**15**	**1/2”**	44	30	50	28
316.**36L**.015.015	**15**	**1/2”**	65	30	50	30
316.**36**.022.015	**22**	**1/2”**	44	30	52	31
316.**36**.022.020	**22**	**3/4”**	51	34	55	33
316.**36L**.022.020	**22**	**3/4”**	65	34	55	34

= Longer mounting plate offset version.

MI 90 Bend with Wall Plate Socket - MI (G) BSP





Material: 316L stainless steel. Ring Seal: EPDM x1 supplied.

Product No	D1	G	L	X1	Y1	Y2
316.**37**.015.015	**15**	**1/2”**	90	44	53	32
316.**37**.022.015	**22**	**1/2”**	90	44	60	34
316.**37**.022.020	**22**	**3/4”**	90	51	64	40

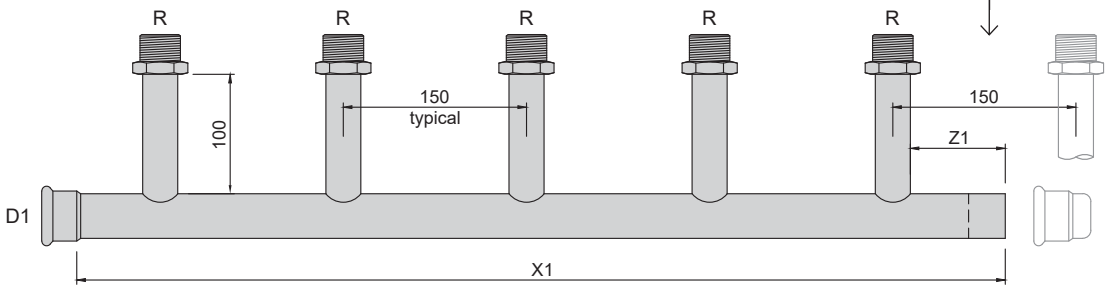
Fitting may not be suitable for flammable gasses - refer AS5601.1

Type 58: Manifold-5 Socket - MI Branch

Material: 316L stainless steel.

Another manifold can be pressed onto the end, with branches maintaining the 150 measurement.

Manifold supplied with open tube end; a cap is required (sold separately).

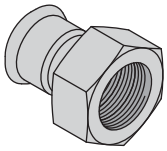


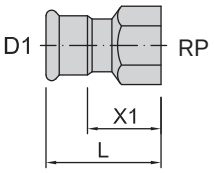
							Max Branch Load		Max Manifold Demand	
D1	**R**	X1	X2	Y1	EPDM	hNBR	Water (L/s)	Gas (MJ/h)	Water (L/s)	Gas (MJ/h)
28	**1/2”**	773	150	100	316.**58**.028.515	316G.**58**.028.515	0.30	120	< 0.50	< 220
28	**3/4”**	773	150	100	316.**58**.028.520	316G.**58**.028.520	0.30	120	< 0.50	< 220
35	**1/2”**	776	150	100	316.**58**.035.515	316G.**58**.035.515	0.35	210	< 0.85	< 380
35	**3/4”**	776	150	100	316.**58**.035.520	316G.**58**.035.520	0.35	210	< 0.85	< 380
42	**1/2”**	780	150	100	316.**58**.042.515	316G.**58**.042.515	0.60	250	< 1.35	< 630
42	**3/4”**	780	150	100	316.**58**.042.520	316G.**58**.042.520	0.60	250	< 1.35	< 630
54	**1/2”**	785	150	100	316.**58**.054.515	316G.**58**.054.515	0.80	350	< 2.40	< 1,250
108.6	**3/4”**	785	150	100	316.**58**.054.520	316G.**58**.054.520	0.80	350	< 2.40	< 1,250

Instantaneous Demand: Loads represent the total combined flow passing through the main manifold trunk at any one time to serve all active branches. Diversity Factors: Diversified peak values of actual appliances installed (as per AS/NZS 3500/5601 or equivalent) should be used to determine realistic instantaneous demand. Performance Limits: Sizing is based on maintaining a maximum pressure drop of 15 mbar (Water) or 0.05 kPa (Gas) and a velocity limit of 1.5 m/s (Water) or 5.0 m/s (Gas) to ensure silent and efficient operation. High-Pressure Gas: For 7.0 kPa or 35 kPa gas systems, higher MJ/h capacities may be achievable. Please contact our technical team for project-specific sizing.

Values to be used for general design work. All final manifold installations must be verified by a qualified professional and relevant codes, including AS/NZS 3500 & AS/NZS 5601.1.

FI Adaptor Socket - FI BSP



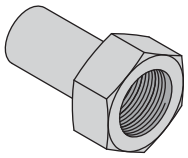


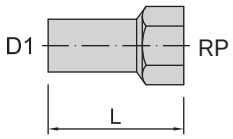
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	RP	L	X1
316.**73**.015.015	**15**	**1/2”**	54	34
316.**73**.015.020	**15**	**3/4”**	58	38
316.**73**.022.015	**22**	**1/2”**	52	32
316.**73**.022.020	**22**	**3/4”**	55	35
316.**73**.022.025	**22**	**1”**	58	38
316.**73**.028.020	**28**	**3/4”**	60	37
316.**73**.028.025	**28**	**1”**	60	37
316.**73**.028.032	**28**	**1.1/4”**	66	43
316.**73**.035.025	**35**	**1”**	64	38
316.**73**.035.032	**35**	**1.1/4”**	69	43
316.**73**.035.040	**35**	**1.1/2”**	73	47
316.**73**.042.032	**42**	**1.1/4”**	72	42
316.**73**.042.040	**42**	**1.1/2”**	77	47
316.**73**.054.040	**54**	**1.1/2”**	82	48
316.**73**.054.050	**54**	**2”**	90	56
316.**73**.066.065	**66.7**	**2.1/2”**	109	61
316.**73**.076.065	**76.1**	**2.1/2”**	117	38
316.**73**.088.080	**88.9**	**3”**	130	36
316.**73**.108.100	**108**	**4”**	156	41

FI Adaptor Tube End - FI BSP



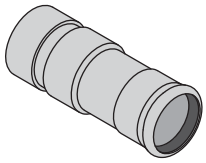


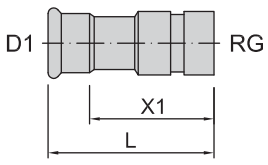
Material: 316L stainless steel.

The length of this fitting cannot be cut shorter.

Product No	D1	RP	L
316.**75**.015.015	**15**	**1/2”**	58
316.**75**.022.015	**22**	**1/2”**	58
316.**75**.022.020	**22**	**3/4”**	62
316.**75**.028.020	**28**	**3/4”**	68
316.**75**.028.025	**28**	**1”**	69
316.**75**.035.032	**35**	**1.1/4”**	83
316.**75**.042.040	**42**	**1.1/2”**	94
316.**75**.054.050	**54**	**2”**	101

Roll Groove Adaptor Socket - RG



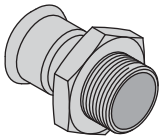


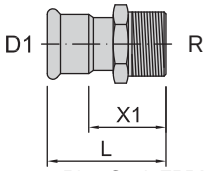
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	RG	L	X1
316.**77**.054.050	**54**	**2”**	82	45
316.**77**.066.065	**66**	**2.5”**	101	50
316.**77**.076.080	**76**	**3”**	103	49
316.**77**.088.080	**88**	**3”**	108	47
316.**77**.108.100	**108**	**4”**	123	41
316.**77**.139.100	**139.7**	**5”**	152	54
316.**77**.168.150	**168.3**	**6”**	175	49

MI Adaptor Socket - MI BSP



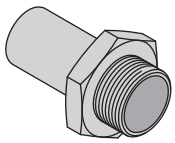


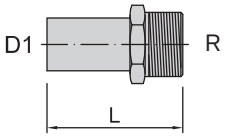
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	R	L	X1
316.**74**.015.015	**15**	**1/2”**	54	34
316.**74**.015.020	**15**	**3/4”**	58	38
316.**74**.022.015	**22**	**1/2”**	53	34
316.**74**.022.020	**22**	**3/4”**	57	38
316.**74**.022.025	**22**	**1”**	61	41
316.**74**.028.020	**28**	**3/4”**	60	38
316.**74**.028.025	**28**	**1”**	63	41
316.**74**.028.032	**28**	**1.1/4”**	67	45
316.**74**.035.025	**35**	**1”**	67	41
316.**74**.035.032	**35**	**1.1/4”**	71	45
316.**74**.035.040	**35**	**1.1/2”**	74	48
316.**74**.042.032	**42**	**1.1/4”**	75	45
316.**74**.042.040	**42**	**1.1/2”**	78	48
316.**74**.054.040	**54**	**1.1/2”**	82	48
316.**74**.054.050	**54**	**2”**	84	50
316.**74**.066.065	**66.7**	**2.1/2”**	112	64
316.**74**.076.065	**76.1**	**2.1/2”**	128	74
316.**74**.076.080	**76.1**	**3”**	142	86
316.**74**.088.080	**88.9**	**3”**	132	38
316.**74**.108.100	**108**	**4”**	157	42

MI Adaptor Tube End - MI BSP



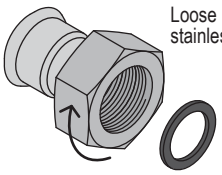


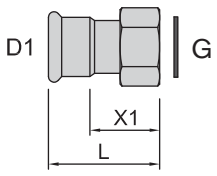
Material: 316L stainless steel.

The length of this fitting cannot be cut shorter.

Product No	D1	R	L
316.**76**.015.015	**15**	**1/2”**	60
316.**76**.022.015	**22**	**1/2”**	55
316.**76**.022.020	**22**	**3/4”**	64
316.**76**.022.025	**22**	**1”**	62
316.**76**.028.025	**28**	**1”**	71
316.**76**.035.032	**35**	**1.1/4”**	81
316.**76**.042.040	**42**	**1.1/2”**	88
316.**76**.054.050	**54**	**2”**	93

FI Adaptor Nut Socket - FI BSP





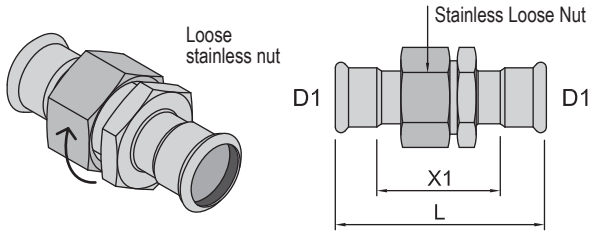
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	G	L	X1	Gasket
316.**44**.015.015	**15**	**1/2”**	50	30	A
316.**44**.015.020	**15**	**3/4”**	49	29	B
316.**44**.022.015	**22**	**1/2”**	58	37	A
316.**44**.022.020	**22**	**3/4”**	61	40	B
316.**44**.022.025	**22**	**1”**	54	33	C
316.**44**.028.025	**28**	**1”**	59	36	C
316.**44**.028.032	**28**	**1.1/4”**	61	38	D
316.**44**.035.040	**35**	**1.1/2”**	63	37	E
316.**44**.042.045	**42**	**1.3/4”**	68	38	F
316.**44**.042.050	**42**	**2”**			G
316.**44**.054.050	**54**	**2”**	94	59	G
316.**44**.054.065	**54**	**2.1/2”**	78	41	I

Note: FI (Rp) Adaptor Nut is not suitable for gas or steam applications!

Press Union Socket - Socket



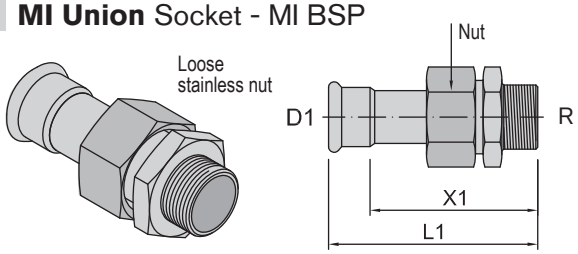
Material: 316L stainless steel.

Ring Seal: EPDM x2 supplied.
Gasket Seal: EPDM x1 supplied.

Product No	D1	L	X1	Gasket	
316.**83**.015	**15**	89	49	A	When the Union (nut) is loosened or opened, the gasket is recommended to be replaced each time.
316.**83**.022	**22**	99	57	C	
316.**83**.028	**28**	112	66	D	
316.**83**.035	**35**	115	67	E	
316.**83**.042	**42**	128	68	F	
316.**83**.054	**54**	141	71	H	

Note: Press Union is not suitable for gas or steam applications!

MI Union Socket - MI BSP



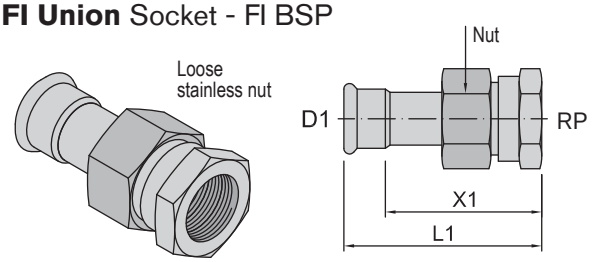
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.
Gasket Seal: EPDM x1 supplied.

Product No	D1	R	L	X1	Gasket	
316.**82**.015.015	**15**	**1/2"**	72	52	A	When the Union (nut) is loosened or opened, the gasket is recommended to be replaced each time.
316.**82**.015.020	**15**	**3/4"**	75	55	B	
316.**82**.022.015	**22**	**1/2"**	78	57	B	
316.**82**.022.020	**22**	**3/4"**	79	78	C	
316.**82**.022.025	**22**	**1"**	86	65	C	
316.**82**.028.025	**28**	**1"**	91	69	D	
316.**82**.035.032	**35**	**1.1/4"**	105	79	E	
316.**82**.042.040	**42**	**1.1/2"**	113	83	F	
316.**82**.054.050	**54**	**2"**	134	100	H	

Note: MI (R) Union is not suitable for gas or steam applications!

FI Union Socket - FI BSP



Material: 316L stainless steel.

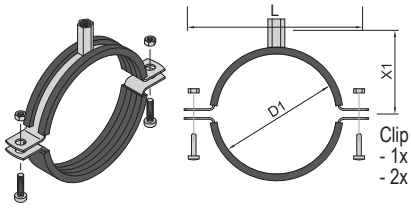
Ring Seal: EPDM x1 supplied.
Gasket Seal: EPDM x1 supplied.

Product No	D1	RP	L	X1	Gasket	
316.**81**.015.015	**15**	**1/2"**	67	47	A	When the Union (nut) is loosened or opened, the gasket is recommended to be replaced each time.
316.**81**.015.020	**15**	**3/4"**	69	49	B	
316.**81**.022.020	**22**	**3/4"**	74	54	C	
316.**81**.022.025	**22**	**1"**	77	58	C	
316.**81**.028.025	**28**	**1"**	85	63	D	
316.**81**.035.032	**35**	**1.1/4"**	96	70	E	
316.**81**.042.040	**42**	**1.1/2"**	105	95	F	
316.**81**.054.050	**54**	**2"**	127	93	H	

Note: FI (Rp) Union is not suitable for gas or steam applications!

Stainless Steel Rubber Lined Brackets

Material: 316 stainless steel, mill finish. EPDM rubber lining.

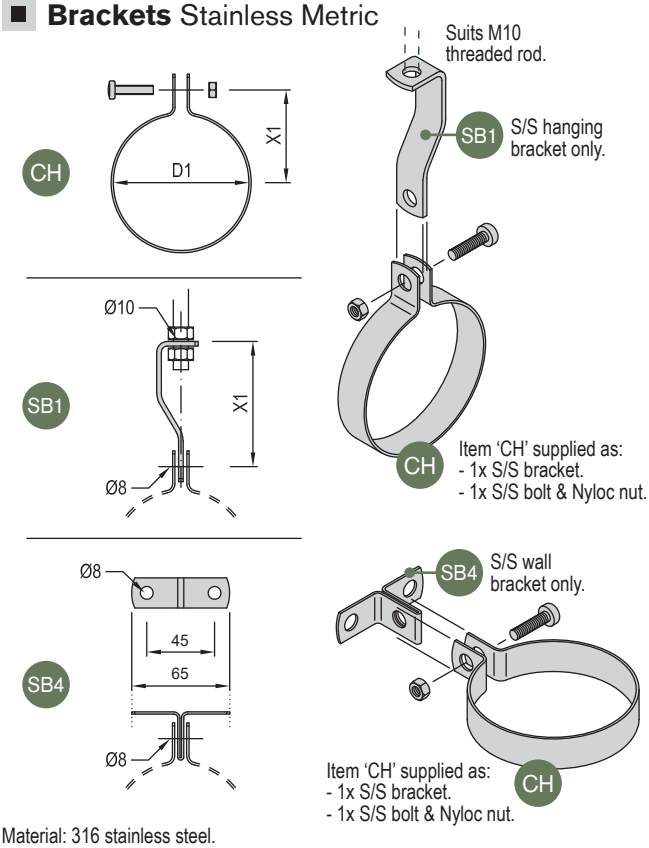


M10 Thread fixed nut

Clip Head 'D' includes:
- 1x two-piece S/S bracket.
- 2x S/S bolt & M10 x 25 Nyloc nut.

Product No	D1	X1	Thk	L
316.**PC**.015	**15**	27	1.5	70
316.**PC**.022	**22**	32	1.5	76
316.**PC**.028	**28**	34	1.5	85
316.**PC**.035	**35**	38	1.5	
316.**PC**.042	**42**	41	1.5	
316.**PC**.054	**54**	47	1.5	
316.**PC**.066	**66**	52	1.5	
316.**PC**.076	**76**	58	1.5	
316.**PC**.089	**88**	64	1.5	
316.**PC**.108	**108**	74	1.5	
316.**PC**.168	**168**	104	1.5	

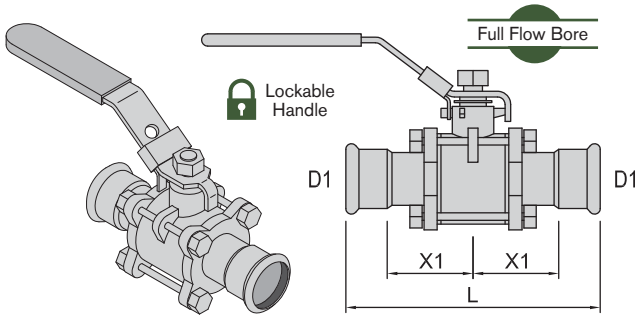
Brackets Stainless Metric



Material: 316 stainless steel.

Product No	D1	X1
316.**SB1**	-	80
316.**SB4**	-	14-22
316.**CH**.015	**15**	20
316.**CH**.022	**22**	24
316.**CH**.028	**28**	28
316.**CH**.035	**35**	32
316.**CH**.042	**42**	35
316.**CH**.054	**54**	40
316.**CH**.066	**66**	50
316.**CH**.076	**76.1**	50
316.**CH**.088	**88.9**	57
316.**CH**.108	**108**	70

Press Ball Valve 3-Piece

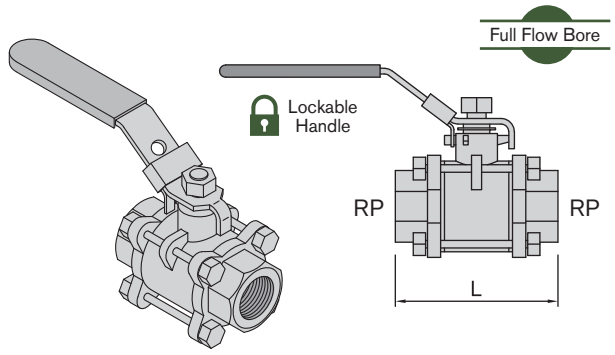


Press ends, Ball & Cast Body: 316 stainless steel.
Seat: PTFE, Handle Wrap: PVC. Ring Seal: EPDM x2 supplied.

Product No	D1	L	X1	AOP	MAOP
316.**47**.3PC.015	**15**	103	32	16 bar	19.2
316.**47**.3PC.022	**22**	118	38	16 bar	19.2
316.**47**.3PC.028	**28**	135	44	16 bar	19.2
316.**47**.3PC.035	**35**	150	49	16 bar	19.2
316.**47**.3PC.042	**42**	168	54	16 bar	19.2
316.**47**.3PC.054	**54**	200	65	16 bar	19.2
316.**47**.3PC.076	**76.1**	273	84	16 bar	19.2
316.**47**.3PC.088	**88.9**	312	96	16 bar	19.2
316.**47**.3PC.108	**108**	369	109	16 bar	19.2

*Check suitability of chemicals with us before ordering or installing.

Ball Valve 3-Piece Fl BSP

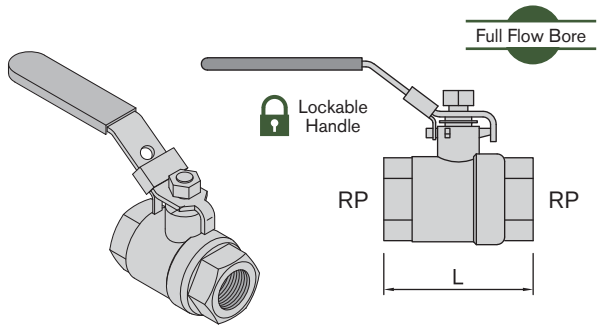


Body: CF8M stainless steel (cast version of 316).
Ball, Stem & Lever: 316 stainless steel. Working Temp: -20 to 180°C.
Seat: PTFE. Cold Max Water Working Pressure: 6,895kPa.

Product No	RP	L
316.**BV3**.015.WM	**1/2”**	64
316.**BV3**.020.WM	**3/4”**	71
316.**BV3**.025.WM	**1”**	81
316.**BV3**.032.WM	**1.1/4”**	94
316.**BV3**.040.WM	**1.1/2”**	104
316.**BV3**.050.WM	**2”**	127

*Check suitability of chemicals with us before ordering or installing.
Larger sizes are available on request.

Ball Valve 2-Piece Fl BSP

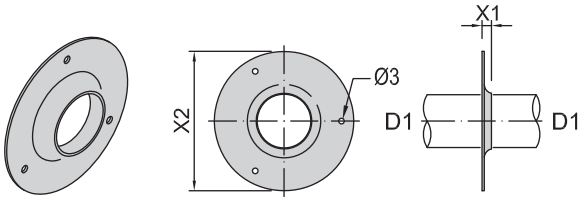


Body: CF8M stainless steel (cast version of 316).
Ball, Stem & Lever: 316 stainless steel. Working Temp: -20 to 180°C.
Seat: PTFE. Max Cold Water Working Pressure: 6,895kPa.

Product No	RP	L
316.**BV2**.015.WM	**1/2”**	58
316.**BV2**.020.WM	**3/4”**	66
316.**BV2**.025.WM	**1”**	77
316.**BV2**.032.WM	**1.1/4”**	90
316.**BV2**.040.WM	**1.1/2”**	98
316.**BV2**.050.WM	**2”**	121

*Check suitability of chemicals with us before ordering or installing.
Larger sizes are available on request.

Cover Flange (Escutcheon Plate)

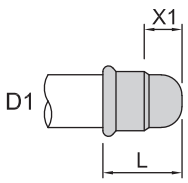


Material: 316L stainless steel. Finish: 2B surface.

Product No	D1	X1	X2
316.**CF**.015	**15**	5	40
316.**CF**.022	**22**	5	58
316.**CF**.028	**28**	5	74
316.**CF**.035	**35**	5	91
316.**CF**.042	**42**	5	110
316.**CF**.054	**54**	5	140

Note: The press socket end cannot pass through the cover flange opening, only the tube end.

End Cap Socket End

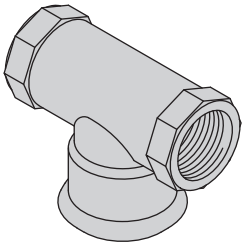


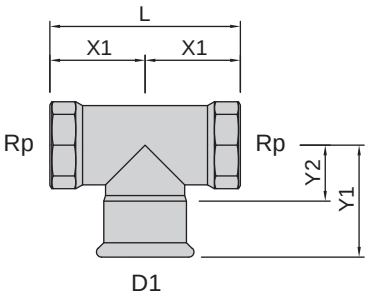
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	L	X1
316.**24**.015	**15**	36	16
316.**24**.022	**22**	40	21
316.**24**.028	**28**	42	20
316.**24**.035	**35**	51	25
316.**24**.042	**42**	54	24
316.**24**.054	**54**	59	25
316.**24**.076	**76.1**	90	36
316.**24**.088	**88.9**	102	45
316.**24**.108	**108**	125	56

Bull Head Tee Socket x FI BSP Branches





Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	Rp	L	X1	Y1	Y2
316.**56**.108.080	**108**	**3”**	260	130	153	72

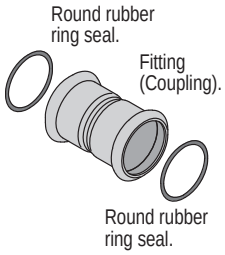
Ring Seals & Union Gaskets

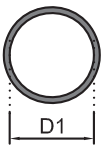
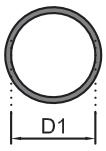
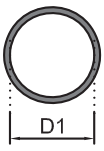
Ring Seals

Fittings with a press-fit socket are fitted with a EPDM rubber ring seal as standard.

Depending on the media, this ring seal should be changed to a different rubber material to suit the application.

Not sure? Refer to our Tech Note TN.03 Media Suitability Guide or contact us for confirmation of suitability.

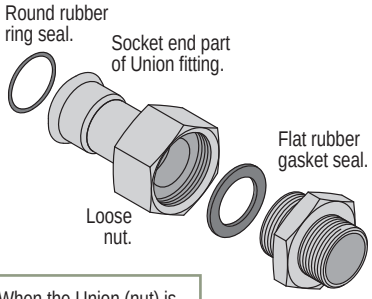


	Pre-fitted in fitting standard	Optional extra	Optional extra
Rubber:	**EPDM**	**NBR**	**FKM**
	Potable Water	Natural Gas	Oils & Fuel
			
Colour:	**Black**	**Yellow**	**Green/Red**
Temp:	-20°C to +110°C	-20°C to +70°C	-20°C to +180°C
D1	Product No	Product No	Product No
15	EPDM.**11**.015	NBR.**11**.015	FKM.**11**.015
22	EPDM.**11**.022	NBR.**11**.022	FKM.**11**.022
28	EPDM.**11**.028	NBR.**11**.028	FKM.**11**.028
35	EPDM.**11**.035	NBR.**11**.035	FKM.**11**.035
42	EPDM.**11**.042	NBR.**11**.042	FKM.**11**.042
54	EPDM.**11**.054	NBR.**11**.054	FKM.**11**.054
66.7	EPDM.**11**.066	NBR.**11**.066	FKM.**11**.066
76.1	EPDM.**11**.076	NBR.**11**.076	FKM.**11**.076
88.9	EPDM.**11**.088	NBR.**11**.088	FKM.**11**.088
108	EPDM.**11**.108	NBR.**11**.108	FKM.**11**.108
139.7	EPDM.**11**.139	NBR.**11**.139	FKM.**11**.139
168.3	EPDM.**11**.168	NBR.**11**.168	FKM.**11**.168

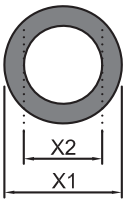
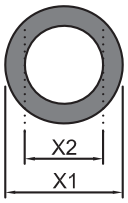
Union Gaskets

Union fittings are fitted with a (flat) rubber gasket seal and a (round) ring seal, both EPDM as standard.

Depending on the media, **both seals** should be changed to a different rubber material to suit the application.



When the Union (nut) is loosened or opened, the gasket is recommended to be replaced each time.

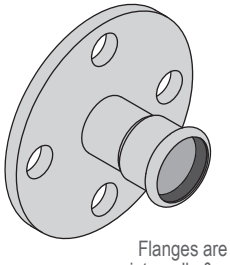
	Pre-fitted in union fittings standard	Optional extra
Rubber:	**EPDM**	**FKM**
	Potable Water	Oils & Fuel
Unions are not approved to be used for gas or steam applications!		
Colour:	**Black**	**Green**
Temp:	-20°C to +110°C	-20°C to +180°C

D1	X1	X2	Product No	Product No
A	18	13	EPDM.**12**.015.015	FKM.**12**.015.015
B	24	15	EPDM.**12**.015.020	FKM.**12**.015.020
C	30	21.5	EPDM.**12**.022.020	FKM.**12**.022.020
D	38	27	EPDM.**12**.028.025	FKM.**12**.028.025
E	44.5	33.5	EPDM.**12**.035.032	FKM.**12**.035.032
F	50	41	EPDM.**12**.042.040	FKM.**12**.042.040
G	55	47	EPDM.**12**.042.050	FKM.**12**.042.050
H	65.5	53	EPDM.**12**.054.050	FKM.**12**.054.050
I	72	59	EPDM.**12**.054.065	FKM.**12**.054.065

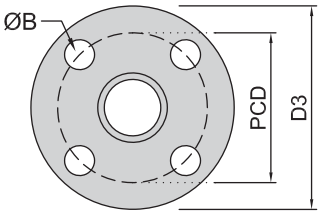
Refer to the individual fitting listing for the compatible gasket letter.

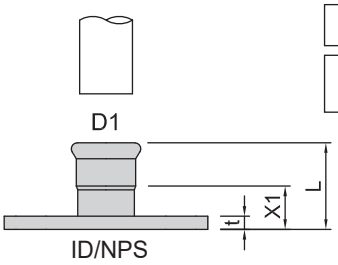
Refer to our technical information for ring seal suitability and resistance.

Adaptor Flange Socket - Flange



Flanges are welded internally & externally.





Dimension 't' includes any raised face height unless otherwise noted.

Blind (blank) Flange = 316.79...

Adaptor Flange (Tube End x Flange) = 316.72...

Bolts, nuts, washers and gaskets are not included.

ANSI-150 (B16.5) Material: 316L stainless steel. Ring Seal: EPDM x1 supplied.

Product No	D1	FLANGE	NPS	D3	L‡	X1‡	t min‡	PCD	ØB	Bolt (ØxL)
316.**71**.015A	**15**	**ANSI 150**	**1/2"**	89	35	15	11.3	60.3	16 x4	1/2x2"
316.**71**.022A	**22**	**ANSI 150**	**3/4"**	99	42	21	12.8	69.9	16 x4	1/2x2"
316.**71**.028A	**28**	**ANSI 150**	**1"**	108	52	29	14.3	79.4	16 x4	1/2x2.1/4"
316.**71**.035A	**35**	**ANSI 150**	**1.1/4"**	117	64	38	15.8	88.9	16 x4	1/2x2.1/4"
316.**71**.042A	**42**	**ANSI 150**	**1.1/2"**	127	75	45	17.3	98.4	16 x4	1/2x2.1/2"
316.**71**.054A	**54**	**ANSI 150**	**2"**	152	68	33	19.1	120.7	19 x4	5/8x2.3/4"
316.**71**.066A	**66.7**	**ANSI 150**	**2.1/2"**	178			22.2	139.7	19 x4	5/8x3"
316.**71**.076A	**76.1**	**ANSI 150**	**3"**	190	113	60	24.0	152.4	19 x4	5/8x3"
316.**71**.088A	**88.9**	**ANSI 150**	**3"**	190	127	67	24.0	152.4	19 x4	5/8x3"
316.**71**.108A	**108**	**ANSI 150**	**4"**	229	178	81	24.0	190.5	19 x8	5/8x3"
316.**71**.139A	**139.7**	**ANSI 150**	**5"**	254			24.0	215.9	23 x8	3/4x4"
316.**71**.168A	**168.3**	**ANSI 150**	**6"**	279	150	29	25.5	241.3	23 x8	3/4x4"

Pressure Ratings: Refer to Tech Note TN.25 for flange temperature, pressure and test pressure information.

Install components in accordance with ASME B16.5. Bolts & nuts shall be fitted with flat washers of 304/316 stainless.
ANSI flange dimensions 't', 'X1' & 'L1' include the raised face height of 1.6mm. Minimum machine bolt length shown, stud bolts will be longer.

AS 2129 (Tab-E) Material: 316L stainless steel. Ring Seal: EPDM x1 supplied.

Product No	D1	FLANGE	ID	D3	L	X1	t	PCD	ØB	Bolt (ØxL)
316.**71**.015E	**15**	**Tab-E.15**	13.0	95	35	15	6	67	14 x4	M12x45
316.**71**.022E	**22**	**Tab-E.20**	19.6	100	42	21	6	73	14 x4	M12x45
316.**71**.028E	**28**	**Tab-E.25**	25.6	115	52	29	7	83	14 x4	M12x45
316.**71**.035E	**35**	**Tab-E.32**	32.0	120	64	38	8	87	14 x4	M12x50
316.**71**.042E	**42**	**Tab-E.40**	39.0	135	75	45	9	98	14 x4	M12x50
316.**71**.054E	**54**	**Tab-E.50**	51.0	150	68	33	10	114	18 x4	M16x60
316.**71**.066E	**66.7**	**Tab-E.65**	62.7	165	105	56	10	127	18 x4	M16x60
316.**71**.076E	**76.1**	**Tab-E.80**	72.0	185	113	60	11	146	18 x4	M16x60
316.**71**.088E	**88.9**	**Tab-E.80**	84.9	185	127	67	11	146	18 x4	M16x60
316.**71**.108E	**108**	**Tab-E.100**	104.0	215	165	81	13	178	18 x8	M16x65
316.**71**.139E	**139.7**	**Tab-E.125**	135.7	255	148		14	210	18 x8	M16x65
316.**71**.168E	**168.3**	**Tab-E.150**	164.3	280	163		17	235	22 x8	M20x70

Pressure Ratings: Refer to Tech Note TN.25 for flange temperature, pressure and test pressure information.

Install components in accordance with AS 2129 (2000/2016). Bolts & nuts shall be fitted with flat washers of 304/316 stainless.
Bolt dimensions, metric to imperial: M12 = 1/2"; M16 = 5/8", minimum machine bolt length shown, stud bolts will be longer.

EN 1092-1 (DIN) Material: 316L stainless steel. Ring Seal: EPDM x1 supplied.

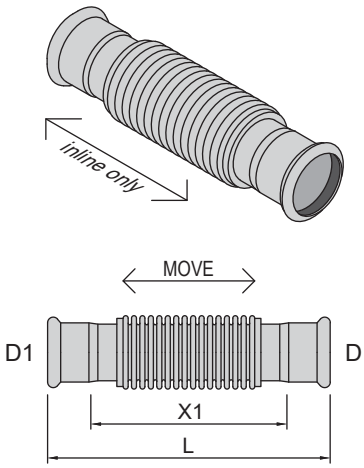
Product No	D1	FLANGE	ID	D3	L	X1	t	PCD	ØB	Bolt (ØxL)
316.**71**.015.PN16	**15**	**PN16.15**	13.0	95	46		14+2	65	14 x4	M12x45
316.**71**.022.PN16	**22**	**PN16.20**	19.6	105	52		16+2	75	14 x4	M12x50
316.**71**.028.PN16	**28**	**PN16.25**	25.6	115	57		16+2	85	14 x4	M12x50
316.**71**.035.PN16	**35**	**PN16.32**	32.0	140	57		18+2	100	18 x4	M16x55
316.**71**.042.PN16	**42**	**PN16.40**	39.0	150	67		18+3	110	18 x4	M16x55
316.**71**.054.PN16	**54**	**PN16.50**	51.0	165	74		20+3	125	18 x4	M16x55
316.**71**.066.PN16	**66.7**	**PN16.65**	62.7	185	88		20+3	145	18 x8	M16x55
316.**71**.076.PN16	**76.1**	**PN16.80**	72.0	200	116		20+3	160	18 x8	M16x60
316.**71**.088.PN16	**88.9**	**PN16.80**	84.9	200	134		20+3	160	18 x8	M16x60
316.**71**.108.PN16	**108**	**PN16.100**	104.0	220	149		22+3	180	18 x8	M16x60
316.**71**.139.PN16	**139.7**	**PN16.125**	135.7	250	176		22+3	210	18 x8	M16x60
316.**71**.168.PN16	**168.3**	**PN16.150**	164.3	285	171		24+3	240	22 x8	M20x70

Pressure Ratings: Refer to Tech Note TN.25 for flange temperature, pressure and test pressure information.

Install components in accordance with EN 1092-1 (2018). Bolts & nuts shall be fitted with flat washers of 304/316 stainless. Overall flange thickness "t" shown as plate thickness + raised face height as seperate values - add together for total flange thickness.

Axial Expansion Bellow Socket - Socket

Fitting: M-Profile, 316L stainless steel.
Ring Seal: EPDM x2 supplied fitted.



Product No	D1	L	X1	Move
316.**28**.015	**15**	139	99	-12/+6
316.**28**.022	**22**	139	97	-12/+6
316.**28**.028	**28**	150	104	-12/+6
316.**28**.035	**35**	177	125	-16/+8
316.**28**.042	**42**	202	142	-20/+10
316.**28**.054	**54**	222	152	-20/+10
316.**28**.066	**66.7**	285	183	-20/+10
316.**28**.076	**76.1**	352	246	-20/+10
316.**28**.088	**88.9**	388	272	-20/+10
316.**28**.108	**108**	446	308	-20/+10

Max Working Pressure Ratings
Water: 1,600 kPa (16 bar) AS 3688.
Gas: 200 kPa (2 bar) AS 5201.

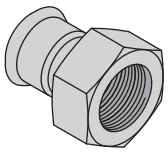
Description: Designed to allow movement within straight pipe sections, this semi-flexible fitting is capable of adjusting in length in an the axial plane to compensate for system movements associated with thermal expansion, low-level vibration, and/or seismic action.

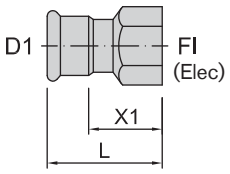
Installation: Install above ground only. Install at the factory length to allow for plus and minus movement. Refer to Tech Notes TN.20 Brackets & Supports plus TN.27 Expansion & Contraction for bracketing and support requirements. Support is required both sides of this fitting to ensure movement remains axial.

Maintenance: Ensure corrugataions remain clean and free of obstructions.

AusPress Electrical Conduit fittings are designed for use in electrical and data installations offering faster and more hygienic conduit installations in industrial applications. The AusPress Electrical Conduit fittings are designed for use in conjunction with AusPress standard tube and fittings in applications such as abattoirs, dairies, breweries, hospitals and various other applications requiring hygienic conduit systems.

Electrical Conduit Adaptor
Socket - FI Metric





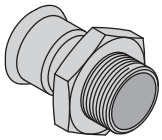
Material: 316L stainless steel.
Thread type: 1.5M

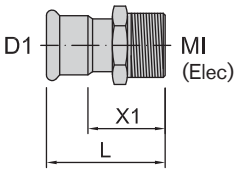
Ring Seal: EPDM x1 supplied.

Product No	D1	FI	L	X1
316.**63**.022.M20.15	**22**	**20**	**58**	**37**
316.**63**.028.M25.15	**28**	**25**	**64**	**41**
316.**63**.035.M32.15	**35**	**32**	**64**	**38**
316.**63**.042.M40.15	**42**	**40**	**70**	**40**
316.**63**.054.M50.15	**54**	**50**	**76**	**41**

Metric thread to ISO 724, ISO 261, AS1721 (metric thread) & ANSI/ASME B1.13M-1995 (not compatible with BSP).

Electrical Conduit Adaptor
Socket - MI Metric





Material: 316L stainless steel.
Thread type: 1.5M

Ring Seal: EPDM x1 supplied.

Product No	D1	MI	L	X1
316.**64**.022.M20.15	**22**	**20**	**55**	**34**
316.**64**.028.M25.15	**28**	**25**	**63**	**40**
316.**64**.035.M32.15	**35**	**32**	**67**	**41**
316.**64**.042.M40.15	**42**	**40**	**76**	**46**
316.**64**.054.M50.15	**54**	**50**	**88**	**53**

Metric thread to ISO 724 & ANSI/ASME B1.13M-1995 (not compatible with BSP).

Tech Data Sheet:
AusPress Stainless Press-Fit

M-Profile System | 3.1 Cert Traceability | Diameters 15 to 168mm

What is Press-Fit?
A quick, flame free and consistent process using a press tool fitted with matching profiled jaw or collar to form a permanent and consistent join between tube and fitting.

Applications:
Common applications include:
- Potable, Chilled and Hot Water.
- Compressed Air.
- Fire Sprinklers & Services.
- Chemical lines.
- Fuels & Oils.
- Gases - Inert & Flammable.
- Steam (wet).
- Treated Water (including RO & demineralised).
- Vacuum.
- Not suitable for gravity sewer or stormwater.
- Other applications on request.

Refer to our Tech Notes, product catalogue or contact us directly for more information and suitability.

Key Features
- Very fast installation process.
- No need for hot-work permits.
- Simple process to train users to install using a press tool.
- One system suits a wide range of applications.
- Stocked in Australia.
- Tube & fittings grade 316L (1.4404) stainless steel.
- Large range of fitting types including flanged adaptors and threaded fittings.
- Long service life and recyclable product (closed reuse loop).
- Efficient and waste free install.

FAQ:
- Insulating? Specify 'low-chloride', refer our Tech Note TN.04.
- The tool head profile must match the fitting profile: ie M-on-M.
- Lubricate the press head 'press zones' regularly with Inox spray.
- Deburr the tube in & out to prevent damage to the ring seal.
- Using Steam, Oil, Fuel, Chlorine, Chlorides or going Underground? Refer our range of Tech Notes!
- Chemicals? Ask us to confirm suitability for stainless and ring seal.
- Pressure Test? Refer to our Test Protocol Form.
- Expansion? See Tech Note TN.20 and TN.27 for bracket

Metric Tube
- Metric OD sizing, **15 to 168.3mm**.
- 316L **post-annealed** stainless steel.
- 320 grit finish (polished).
- **3.1 certified**; batch traceable.
- TIG welded (15 to 168.3mm) longitudinal welded, rolled seam, pre & post-annealed.
- ASTM 269 compliant tube.
- EN 10312 compliant tube.
- Markings – black.

Tube OD	Tube Wall	Weight (kg)	
		dry/m	wet/m
15	1.0	0.4	0.5
22	1.2	0.6	0.9
28	1.2	0.8	1.3
35	1.5	1.3	2.1
42	1.5	1.5	2.7
54	1.5	2.0	4.0
66.7	2.0	3.3	6.3
76.1	2.0	3.7	7.8
88.9	2.0	4.4	10.0
108	2.0	5.3	13.8
139.7	2.0	6.9	21.4
168.3	2.0	8.4	29.6

Press Fittings
- Metric OD sizing, **15 to 168.3mm**.
- **M-Profile** socket (with ring seal).
- Grade 316L (1.4404) **annealed** stainless steel.
- 320 grit finish (polished).
- **3.1 certified**; traceable batches.
- Ring seal pre-fitted to socket ends.
- Markings – laser etched.

Ring Seals (Elastomers)
- EPDM supplied standard.
- Contain no softening agents or other fillers which lead to embrittlement.
- Leak before press detection; identifies unpressed joins between 100-500kPa up to 54mm diameter.
- Slow aging process.
- Maintain a low compression set value, even at higher temps.
- Low oxygen permeation rate; this is critical in avoiding corrosion effects due to the intrusion of oxygen.

Seal Type*	Temp Range
EPDM	-20 to +100°C
hNBR	-20 to +70°C
FKM	-20 to +180°C

*Refer to our Tech Notes & contact us for suitability before installation.

Pressure Ratings:
The maximum working pressure depends on the tool used to form the press, the operating temperature, fitting diameter and application parameters.

Maximum working pressures (kPa) for Potable Water at 25°C:		
Tube OD	Join Type	Working Pressure*
15 & 22	Standard	6,000
28 & 35	Standard	2,500
	HP	6,000
42 & 54	Standard	2,500
	HP	4,000
66.7	Standard	2,500
76.1 to 108	Standard	1,600
	HP	2,500
139.7	Dbl Offset	2,000
168.3	Dbl Offset	1,600

* Contact AusPress for advice if higher pressures and/or different applications.

System Approvals & Compliance:
- WaterMark
  - AS 5200.053
  - AS 3688
- CSIRO ActivFire
  - AS 4118.2.1
  - AS 2419.1
- DNV
  - Shipping approved range "316M"

Technical Assistance
- Suitability checks for projects & applications on request.
- Tech Notes library and product reference material.
- Dedicated technical support.
- Onsite tool training of installers is recommended with certificates issued on completion.
- AusPress products stocked and available across Australia & New Zealand.

More Information?
Please contact us for product support, technical advice or your project specific requirements:
- Phone: 1300 287 773
- Email: sales@auspress.com.au

Visit auspress.com.au for the latest product information, tech notes & catalogues.