



AusPress®

**STAINLESS**



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



profile



15 to 168.3mm



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 onsite.
- 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®



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 joint between tube and fitting.

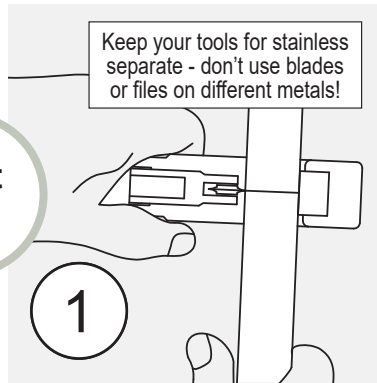


**Start here**

## Check for suitability...

Both the piping material (eg 316L stainless steel) and the elastomer (the rubber ring seal) must be checked if suitable for the conveyed fluid and exterior environments.

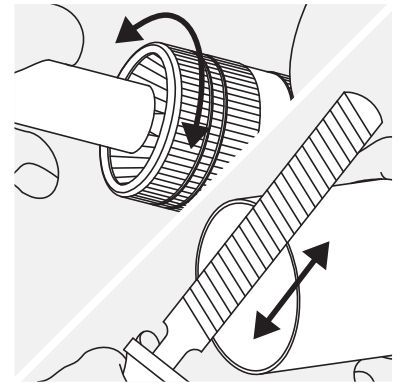
**This guide is for standard applications.** For different or specialised applications please contact us first.



## Cut to Length

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

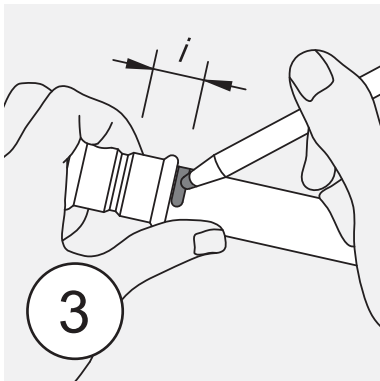
For larger sizes, cut square with an 'inox' blade using a stainless rotary cutter or 5" thin blade grinder disc.



## Deburr Tube

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

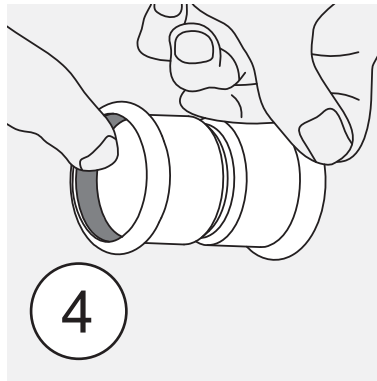
For large sizes, use a half round smooth file reserved for stainless.



## Mark the Insertion Depth "i"

Measure or use a depth gauge to mark the insertion depth (socket depth) onto the tube end.

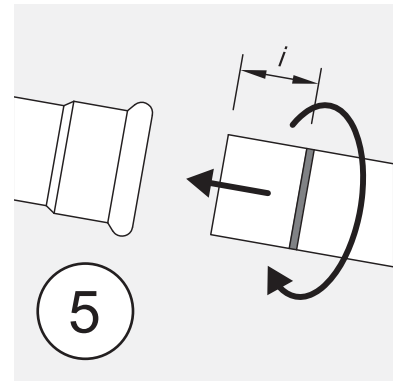
This is a visual quality control mark to ensure the tube is fully inserted.



## Inspect Fitting & Ring Seals

Check that the rubber ring seal is:

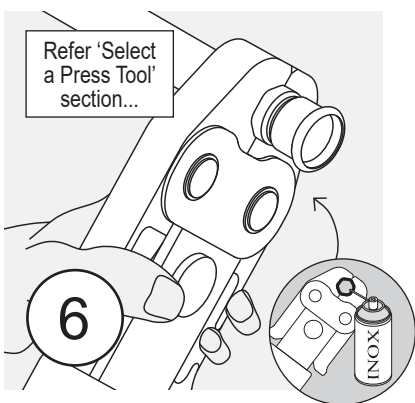
- The correct material type (colour) of seal is used.
- The seal is not damaged.
- Both fitting & seal are free of debris.



## Join the Tube & Fitting

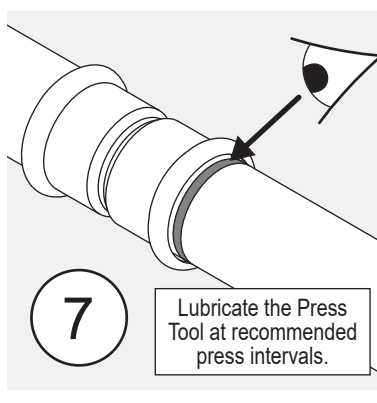
Insert the tube into the fitting press socket, turning slightly until it reaches the previously marked insertion depth.

Soapy water can be used if joining is difficult.



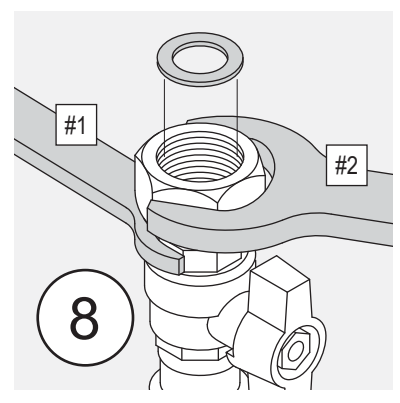
## Press the Join

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

Visually inspect the pressed fitting & that the insertion mark is aligned with the end of the socket.



## Threaded Ends

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

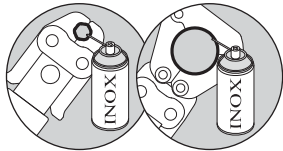
# Select a Press Tool

## The right tool for the job...

Our fleet of tools are designed to install AusPress press-fit quickly & consistently without the need for welding or threading to form a permanent join.

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

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



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

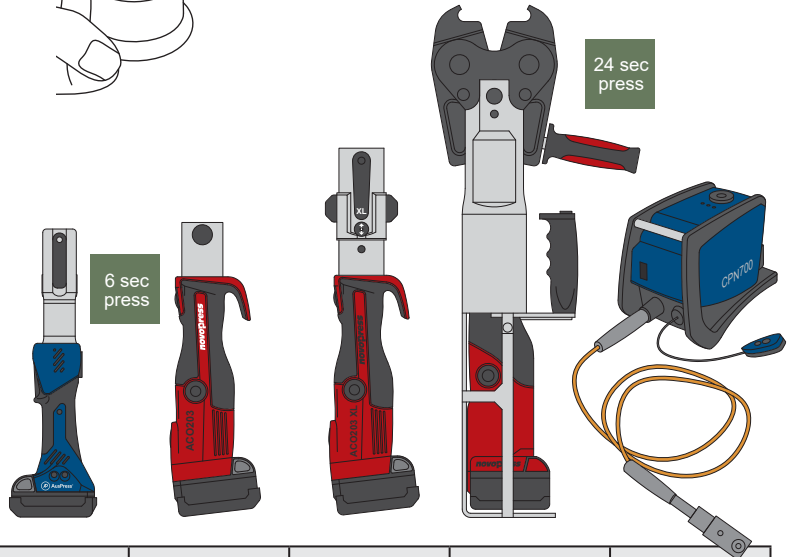
Chart below shows tool compatibility and maximum working pressure per diameter for a potable water installation up to 85°C.



## 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.



AusPress Stainless metric fittings and metric tube.

			SPM24	ACO203	ACO203-XL	ACO403	CPN700
15 to 22mm	Press Jaw		<b>25 bar</b> 362 psi 2,500 kPa	<b>25 bar</b> 362 psi 2,500 kPa	<b>25 bar</b> 362 psi 2,500 kPa	N/A	<b>25 bar</b> 362 psi 2,500 kPa
28 to 35mm	Press Jaw		N/A	<b>25 bar</b> 362 psi 2,500 kPa	<b>25 bar</b> 362 psi 2,500 kPa	N/A	25 bar 362 psi 2,500 kPa
	+	'HP' Collar & ZB203 Adaptor Jaw	N/A	<b>HP 40 bar</b> 580 psi 4,000 kPa	<b>HP 40 bar</b> 580 psi 4,000 kPa	N/A	N/A
42 & 54mm	+	ZB203 Adaptor Jaw & Collar	N/A	<b>25 bar</b> 362 psi 2,500 kPa	<b>25 bar</b> 362 psi 2,500 kPa	N/A	<b>25 bar</b> 362 psi 2,500 kPa
	+	'HP' Collar & ZB203 Adaptor Jaw	N/A	<b>HP 40 bar</b> 580 psi 4,000 kPa	<b>HP 40 bar</b> 580 psi 4,000 kPa	N/A	N/A
76.1 to 108mm	+	Adaptor Jaw(s) & Collar	N/A	N/A	<b>16 bar</b> 232 psi 1,600 kPa 76.1: ZB221 88.9: ZB221 108: ZB221 & 222	<b>HP 25 bar<sup>±</sup></b> 362 psi <sup>±</sup> 2,500 kPa <sup>±</sup> Use 'HP' collars, no Adapt Jaw req	<b>25 bar</b> 362 psi 2,500 kPa
168.3 mm		Single Press*	N/A	N/A	N/A	<b>16 bar*</b> 232 psi* 1,600 kPa*	N/A
		Double Offset Press	N/A	N/A	N/A	<b>20 bar<sup>±</sup></b> 290 psi <sup>±</sup> 2,000 kPa <sup>±</sup>	N/A

**Please Note:** This chart is a guide only with other tool and application suitability available on request. Values noted are *Maximum Working Pressure*, not the safety or testing pressure of the system. More information is available in the technical section and contact us.

\* Operating temperatures above 50°C require 168.3mm diameter to be installed using the double offset press method.

± Not suitable for gas or compressed air installations (76.1, 88.9 & 108 'HP' collars with the ACO401 or ACO403 tools).

± Higher working pressures are possible subject to the application and with written approval by AusPress.



## 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 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.

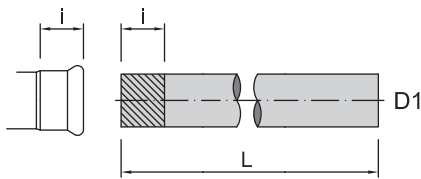
For technical information for specialised projects please ask us. We've over 27 years experience, have access to testing metallurgist services too.

### 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.*

## Tube Metric OD Stainless



Tubes are TIG welded 15 to 108mm.

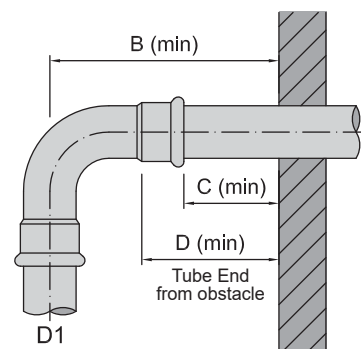
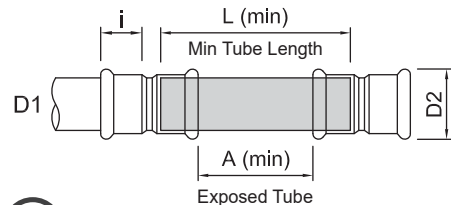
Product No	D1 (mm)	i depth	Length (L)	Thk (t)	Tube Weights (kg)			
					dry/m	dry/6m	wet/m	wet/6m
316.96.015	15	20	6m	1.0	0.4	2.1	0.5	2.9
316.96.022	22	21	6m	1.2	0.6	3.8	0.9	5.6
316.96.028	28	23	6m	1.2	0.8	4.9	1.3	7.9
316.96.035	35	26	6m	1.5	1.3	7.6	2.1	12.4
316.96.042	42	30	6m	1.5	1.5	9.2	2.7	16.3
316.96.054	54	35	6m	1.5	2.0	11.9	4.0	24.1
316.96.076	76.1	53	6m	2.0	3.7	16.9	7.8	42.1
316.96.088	88.9	58	6m	2.0	4.4	26.3	10.0	60.2
316.96.108	108	69	6m	2.0	5.3	32.1	13.8	82.9
316.96.168	168.3	121	6m	2.0	8.4	50.3	29.6	177.4



i = insertion depth. Tube must be inserted into the press socket a minimum distance to ensure the join is pressed successfully.

D1	i	L	A	D2	B	C	D
10	10	50	30	16	62	35	45
15	20	50	10	23	85	35	55
22	21	52	10	32	95	35	56
28	23	56	10	38	107	35	58
35	26	72	20	45	121	35	61
42	30	80	20	54	147	35	65
54	35	90	20	66	174	35	70
76.1	53	126	20	95	223	75	128
88.9	58	136	20	110	249	75	135
108	69	158	20	133	292	75	150
168.3	121	302	60	195	456	70	191

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

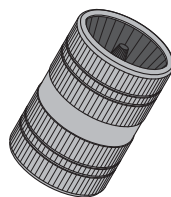


## Installation Tools

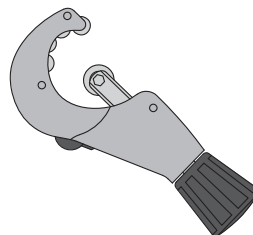
These items make installing AusPress press-fit easier.

Remember using the same cutting or deburring tool on different metals can lead to corrosion (eg cut steel then cut stainless steel).

**Press Tools:** Information and capacities are listed under "Select a Press Tool" Section.



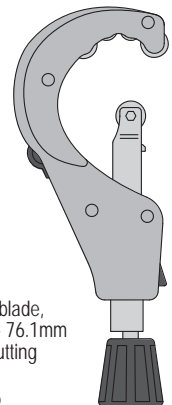
**Tube Deburrer**  
Inside and outside diameter cones, suits diameters 10 - 54mm.  
Order: VT.DEB



**Manual Tube Cutter (Mini)**  
Metal construction, Inox blade, suitable for diameters 3 - 45mm OD. Includes 1x spare cutting wheel in handle end.  
Order: VT.TCUT.003.045



**Replacement Inox Cutting Wheels (each)**  
Suitable for both cutters shown.  
Order: VT.TCUT.WHEEL

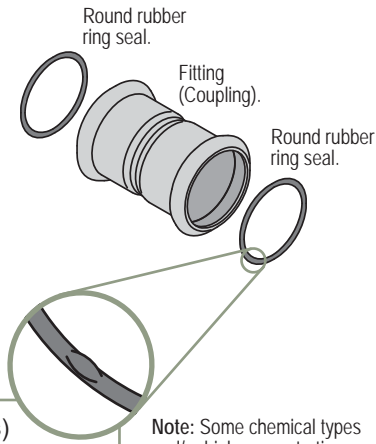


**Manual Tube Cutter**  
Metal construction, Inox blade, suitable for diameters 6 - 76.1mm OD. Includes 1x spare cutting wheel in handle end.  
Order: VT.TCUT.006.076

### Rubber Ring Seals

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

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



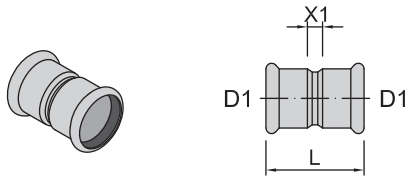
**LBP (Leak Before Press)** features are small depressions that allow un-pressed fittings to drip leak during initial commissioning (testing) to identify joints that require attention.

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 MSDS details or laboratory water testing results.

### Coupling Socket - Socket

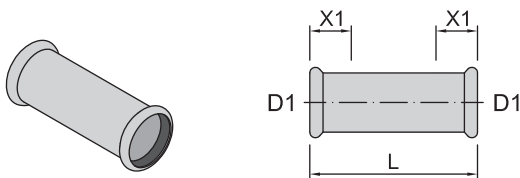


Material: 316L stainless steel.

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
316.21.076	76.1	141	33
316.21.088	88.9	160	45
316.21.108	108	197	58
316.21.168	168.3	300	64

### Slip Coupling Socket - Socket

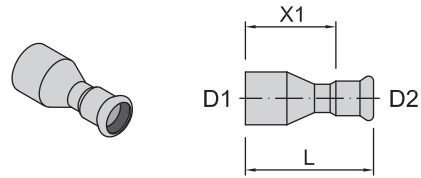


Material: 316L stainless steel.

Ring Seal: EPDM x2 supplied.

Product No	D1	L	X1min
316.22.015	15	80	28
316.22.022	22	71	20
316.22.028	28	89	22
316.22.035	35	99	26
316.22.042	42	114	30
316.22.054	54	136	34
316.22.076	76.1	226	54
316.22.088	88.9	255	58
316.22.108	108	300	72

### Spigot Reducer Socket - Tube End

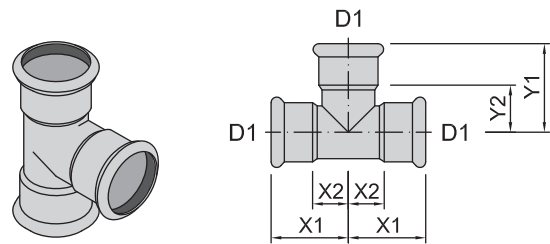


Material: 316L stainless steel.

Ring Seal: EPDM x1 (D2) supplied.

Product No	D1	D2	L	X1
316.23.022.015	22	15	64	44
316.23.028.015	28	15	68	48
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
316.23.076.042	76.1	42	132	102
316.23.076.054	76.1	54	132	98
316.23.088.042	88.9	42	162	132
316.23.088.054	88.9	54	162	128
316.23.088.076	88.9	76.1	179	126
316.23.108.054	108	54	179	145
316.23.108.076	108	76.1	198	145
316.23.108.088	108	88.9	206	148
316.23.168.088	168.3	88.9	379	321
316.23.168.108	168.3	108	360	289

### Tee Equal Socket Ends & Branch



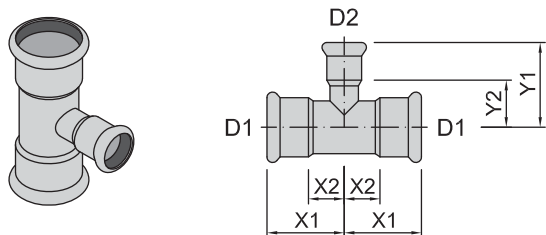
Material: 316L stainless steel.

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
316.51.076	76.1	113	59	110	55
316.51.088	88.9	128	72	128	69
316.51.108	108	150	81	154	85
316.51.168	168.3	257	139	235	118



### ■ Tee Reduced Socket Ends & Branch

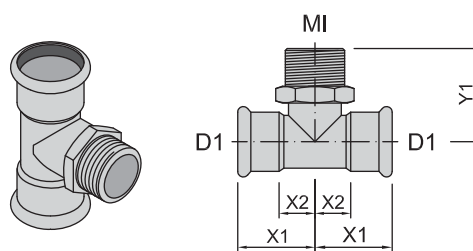


Material: 316L stainless steel.

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
316.52.076.022	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
316.52.088.022	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
316.52.168.054	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

### ■ MI Tee Socket Ends - MI BSP Branch

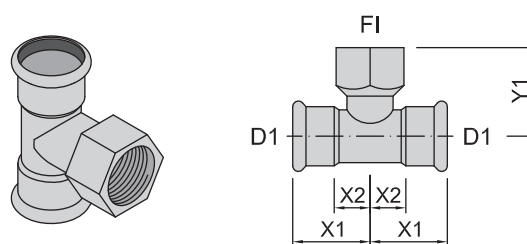


Material: 316L stainless steel.

Ring Seal: EPDM x2 supplied.

Product No	D1	MI BSP	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
316.54.054.020	54	3/4"	69	34	62
316.54.054.050	54	2"	69	34	75

### ■ FI Tee Socket Ends - FI BSP Branch



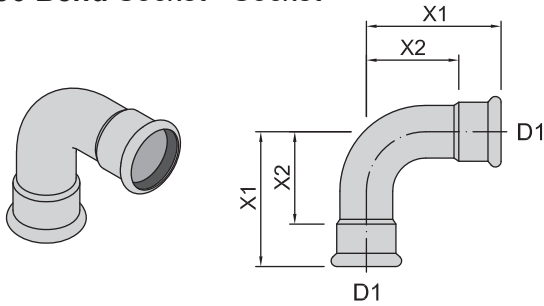
Material: 316L stainless steel.

Ring Seal: EPDM x2 supplied.

Product No	D1	FI BSP	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 <sup>‡</sup>	54	1/2"	68	34	55
316.53.054.020 <sup>‡</sup>	54	3/4"	68	34	58
316.53.054.025 <sup>‡</sup>	54	1"	68	34	60
316.53.054.050 <sup>‡</sup>	54	2"	68	34	76
316.53.076.020 <sup>‡</sup>	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

<sup>‡</sup> This fitting is also available with NPT thread; product code has 'N' at end for NPT.

### ■ 90 Bend Socket - Socket

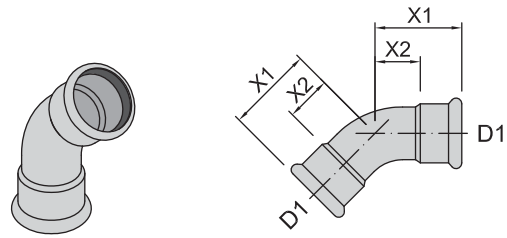


Material: 316L stainless steel.

Ring Seal: EPDM x2 supplied.

Product No	D1	X1	X2
316.31.090.015	15	48	28
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
316.31.090.076	76.1	177	124
316.31.090.088	88.9	181	123
316.31.090.108	108	214	140
316.31.090.168	168.3	386	268

### ■ 45 Bend Socket - Socket

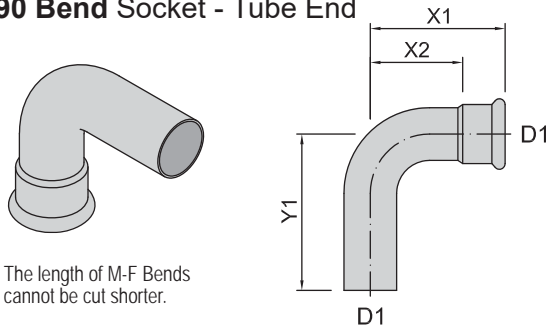


Material: 316L stainless steel.

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
316.31.045.076	76.1	111	58
316.31.045.088	88.9	114	56
316.31.045.108	108	138	64
316.31.045.168	168.3	252	134

### ■ 90 Bend Socket - Tube End



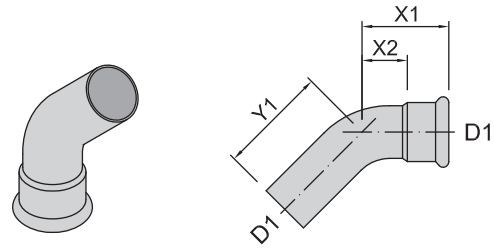
The length of M-F Bends cannot be cut shorter.

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
316.32.090.076	76.1	177	124	195
316.32.090.088	88.9	181	123	202
316.32.090.108	108	214	140	240
316.32.090.168	168.3	386	268	404

### ■ 45 Bend Socket - Tube End



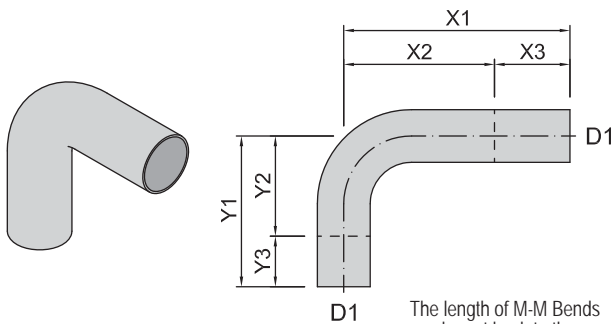
The length of M-F Bends cannot be cut shorter.

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
316.32.045.076	76.1	111	58	128
316.32.045.088	88.9	114	56	135
316.32.045.108	108	138	64	169
316.32.045.168	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.

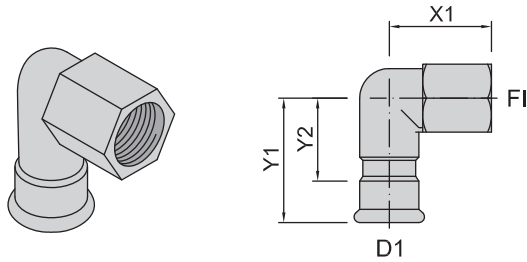
Material: 316L stainless steel.

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.



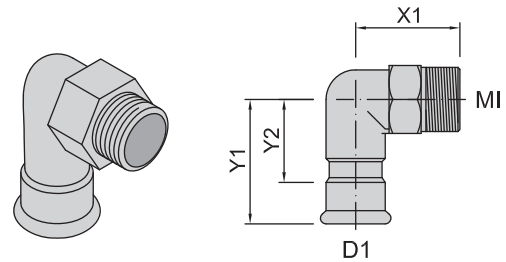
### FI 90 Bend Socket - FI BSP



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

Product No	D1	FI BSP	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

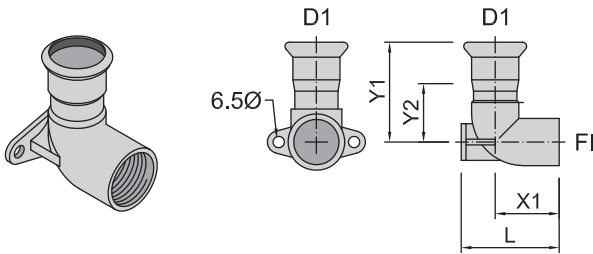
### MI 90 Bend Socket - MI BSP



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

Product No	D1	MI BSP	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	FI BSP	L	X1	Y1	Y2
316.36.015.015	15	1/2"	44	30	50	28
316.36.015.015L	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
316.36.022.020L	22	3/4"	65	34	55	34

L = Longer mounting plate offset version.

### Adaptor Flange Socket - Flange

Material: 316L stainless steel.

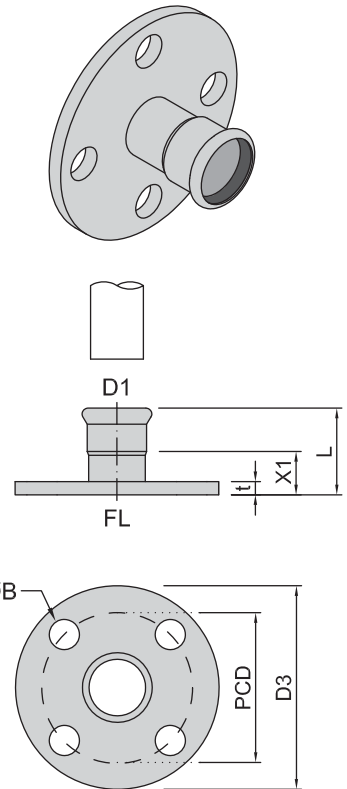
Ring Seal: EPDM x1 supplied.

Product No	D1	FL*	D3	L <sup>‡</sup>	X1 <sup>‡</sup>	t <sup>‡</sup>	PCD	ØB
316.71.015A	15	ANSI 150	90	35	15	12.7	60.3	16 x4
316.71.022A	22	ANSI 150	100	42	21	14.2	69.9	16 x4
316.71.028A	28	ANSI 150	110	52	29	15.8	79.4	16 x4
316.71.035A	35	ANSI 150	115	64	38	17.4	88.9	16 x4
316.71.042A	42	ANSI 150	125	75	45	19.0	98.4	16 x4
316.71.054A	54	ANSI 150	150	68	33	20.6	120.7	20 x4
316.71.076A	76.1	ANSI 150	190	113	60	25.4	152.4	20 x4
316.71.088A	88.9	ANSI 150	190	127	67	25.4	152.4	20 x4
316.71.108A	108	ANSI 150	230	178	81	25.4	190.5	20 x8
316.71.168A	168.3	ANSI 150	280	150	29	26.9	241.3	23 x8

\*ANSI flanges in accordance with ASME B16.5.  
<sup>‡</sup>ANSI flange dimensions 't', 'X1' & 'L1' include the raised face height of 1.5mm.

Product No	D1	FL <sup>†</sup>	D3	L	X1	t	PCD	ØB
316.71.015E	15	Table E	95	35	15	6	67	14 x4
316.71.022E	22	Table E	100	42	21	6	73	14 x4
316.71.028E	28	Table E	115	52	29	7	83	14 x4
316.71.035E	35	Table E	120	64	38	8	87	14 x4
316.71.042E	42	Table E	135	75	45	9	98	14 x4
316.71.054E	54	Table E	150	68	33	10	114	18 x4
316.71.076E	76.1	Table E	185	113	60	11	146	18 x4
316.71.088E	88.9	Table E	185	127	67	11	146	18 x4
316.71.108E	108	Table E	215	150	81	13	178	18 x8
316.71.168E	168.3	Table E	280	150	29	17	235	22 x8

<sup>†</sup>Flat face Table flanges in accordance with AS 2129.



Blind (blank) Flange = 316.79...

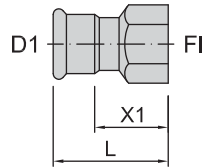
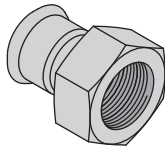
Adaptor Flange (Tube End x Flange) = 316.72...

Note: Flange working pressures are referenced in AS 2129 for Table flange types and ASME B16.5 for ANSI flange types. Confirm the type suitable for your project pressures before ordering or installing.

Flanges are welded internally & externally.



### FI Adaptor Socket - FI BSP



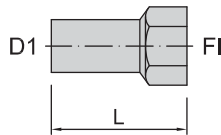
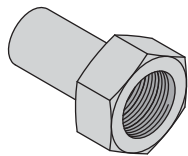
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	FI BSP	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
316.73.028.015	28	1/2"	55	32
316.73.028.020 <sup>‡</sup>	28	3/4"	60	37
316.73.028.025 <sup>‡</sup>	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 <sup>‡</sup>	42	1.1/2"	77	47
316.73.054.040	54	1.1/2"	82	48
316.73.054.050 <sup>‡</sup>	54	2"	90	56
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

<sup>‡</sup> This fitting is also available with NPT thread; product code has 'N' at end for NPT.

### FI Adaptor Tube End - FI BSP



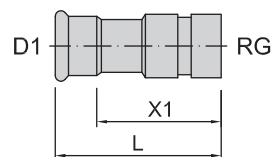
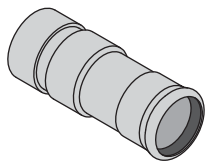
Material: 316L stainless steel.

The length of this fitting cannot be cut shorter.

Product No	D1	FI BSP	L
316.75.015.015 <sup>‡</sup>	15	1/2"	58
316.75.022.015	22	1/2"	58
316.75.022.020 <sup>‡</sup>	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

<sup>‡</sup> This fitting is also available with NPT thread; product code has 'N' at end for NPT.

### Roll Groove Adaptor Socket - RG



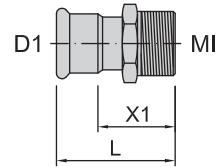
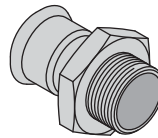
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	RG	L	X1
316.77.028.025*	28	1"	89	66
316.77.035.032*	35	1.1/4"	97	71
316.77.042.040*	42	1.1/2"	105	75
316.77.054.050*	54	2"	116	81

\* Item available on request, lead time likely.

### MI Adaptor Socket - MI BSP



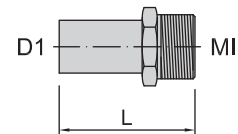
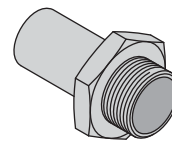
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	MI BSP	L	X1
316.74.015.015 <sup>‡</sup>	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 <sup>‡</sup>	22	3/4"	57	38
316.74.022.025	22	1"	61	41
316.74.028.020 <sup>‡</sup>	28	3/4"	60	38
316.74.028.025 <sup>‡</sup>	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 <sup>‡</sup>	35	1.1/4"	71	45
316.74.035.040 <sup>‡</sup>	35	1.1/2"	74	48
316.74.042.032	42	1.1/4"	75	45
316.74.042.040 <sup>‡</sup>	42	1.1/2"	78	48
316.74.054.040	54	1.1/2"	82	48
316.74.054.050 <sup>‡</sup>	54	2"	84	50
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

<sup>‡</sup> This fitting is also available with NPT thread; product code has 'N' at end for NPT.

### MI Adaptor Tube End - MI BSP



Material: 316L stainless steel.

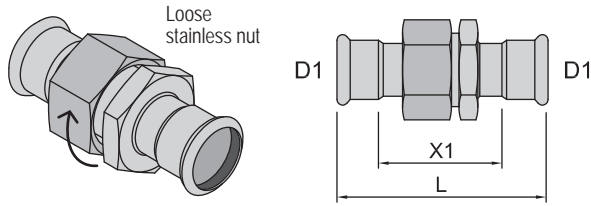
The length of this fitting cannot be cut shorter.

Product No	D1	MI BSP	L
316.76.015.015 <sup>‡</sup>	15	1/2"	60
316.76.022.015	22	1/2"	55
316.76.022.020 <sup>‡</sup>	22	3/4"	64
316.76.022.025	22	1"	62
316.76.028.025 <sup>‡</sup>	28	1"	71
316.76.035.032	35	1.1/4"	81
316.76.042.040 <sup>‡</sup>	42	1.1/2"	88
316.76.054.050	54	2"	93

<sup>‡</sup> This fitting is also available with NPT thread; product code has 'N' at end for NPT.



### ■ Press Union Socket - Socket



Material: 316L stainless steel.

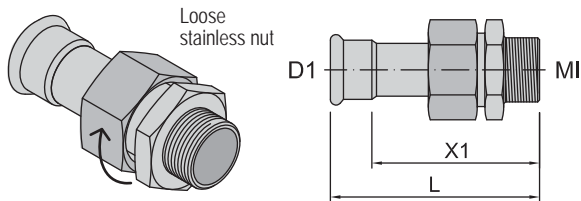
Ring Seal: EPDM x2 supplied.  
Gasket Seal: EPDM x1 supplied.

Product No	D1	L	X1
316.83.015	15	89	49
316.83.022	22	99	57
316.83.028	28	112	66
316.83.035	35	115	67
316.83.042	42	128	68
316.83.054	54	141	71

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

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

### ■ MI Union Socket - MI BSP



Material: 316L stainless steel.

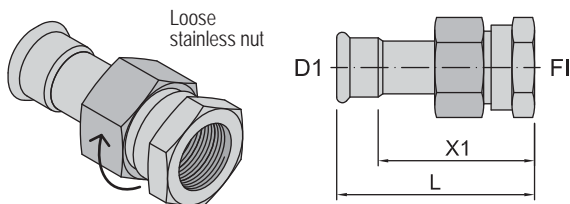
Ring Seal: EPDM x1 supplied.  
Gasket Seal: EPDM x1 supplied.

Product No	D1	MI BSP	L	X1
316.82.015.015	15	1/2"	72	52
316.82.015.020	15	3/4"	75	55
316.82.022.015	22	1/2"	78	57
316.82.022.020	22	3/4"	79	78
316.82.022.025	22	1"	86	65
316.82.028.025	28	1"	91	69
316.82.035.032	35	1.1/4"	105	79
316.82.042.040	42	1.1/2"	113	83
316.82.054.050	54	2"	134	100

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

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

### ■ FI Union Socket - FI BSP



Material: 316L stainless steel.

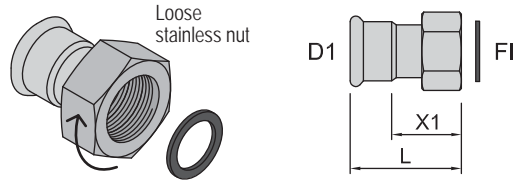
Ring Seal: EPDM x1 supplied.  
Gasket Seal: EPDM x1 supplied.

Product No	D1	FI BSP	L	X1
316.81.015.015	15	1/2"	67	47
316.81.015.020	15	3/4"	69	49
316.81.022.020	22	3/4"	74	54
316.81.022.025	22	1"	77	58
316.81.028.025	28	1"	85	63
316.81.035.032	35	1.1/4"	96	70
316.81.042.040	42	1.1/2"	105	95
316.81.054.050	54	2"	127	93

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

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

### ■ FI Adaptor Nut Socket - FI BSP



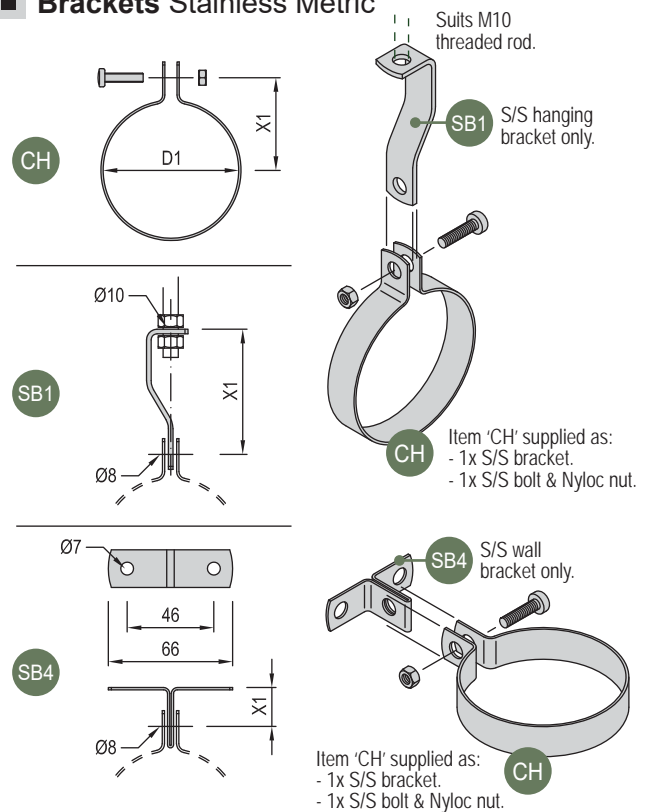
Material: 316L stainless steel.

Ring Seal: EPDM x1 supplied.

Product No	D1	FI BSP	L	X1
316.44.015.015	15	1/2"	50	30
316.44.015.020	15	3/4"	49	29
316.44.022.015	22	1/2"	58	37
316.44.022.020	22	3/4"	61	40
316.44.022.025	22	1"	54	33
316.44.028.025	28	1"	59	36
316.44.028.032	28	1.1/4"	61	38
316.44.035.040	35	1.1/2"	63	37
316.44.042.045	42	1.3/4"	68	38
316.44.054.050	54	2"	94	59

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

### ■ Brackets Stainless Metric



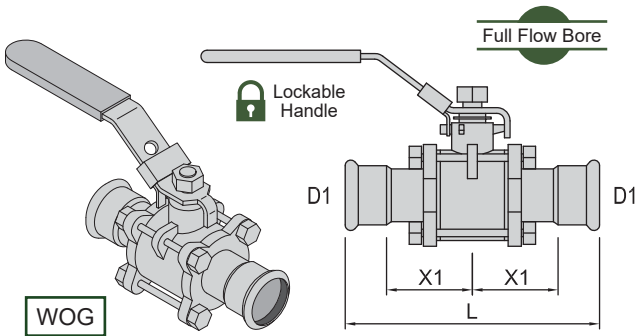
Material: 316 stainless steel.

Product No	D1	X1
316.SB1	-	80
316.SB4	-	12-22
316.CH.015	15	27
316.CH.022	22	28
316.CH.028	28	33
316.CH.035	35	34
316.CH.042	42	39
316.CH.054	54	45
316.CH.076	76.1	55
316.CH.088	88.9	61
316.CH.108	108	70

Item 'CH' supplied as:  
- 1x S/S bracket.  
- 1x S/S bolt & Nyloc nut.

Item 'CH' supplied as:  
- 1x S/S bracket.  
- 1x S/S bolt & Nyloc nut.

### ■ Press Ball Valve 3-Piece



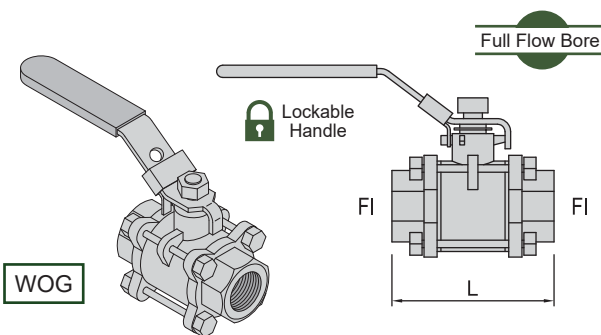
Press ends, Ball & Cast Body: 316 stainless steel.  
 Seat: PTFE, Handle Wrap: PVC.

Ring Seal: EPDM x2 supplied.

Product No	D1	L	X1	MWP
316.47.3PC.015	15	103	32	40 bar
316.47.3PC.022	22	118	38	40 bar
316.47.3PC.028	28	135	44	40 bar
316.47.3PC.035	35	150	49	25 bar
316.47.3PC.042	42	168	54	25 bar
316.47.3PC.054	54	200	65	25 bar
316.47.3PC.076	76.1	273	84	16 bar
316.47.3PC.088	88.9	312	96	16 bar
316.47.3PC.108	108	369	109	16 bar

\*Check suitability of chemicals with us before ordering or installing.  
 MWP: Cold Maximum Working Pressure (subject to tool used to install).  
 WaterMark approval pending.

### ■ Ball Valve 3-Piece FI BSP



Body: CF8M stainless steel (cast version of 316).

Ball, Stem & Lever: 316 stainless steel.

Seat: PTFE.

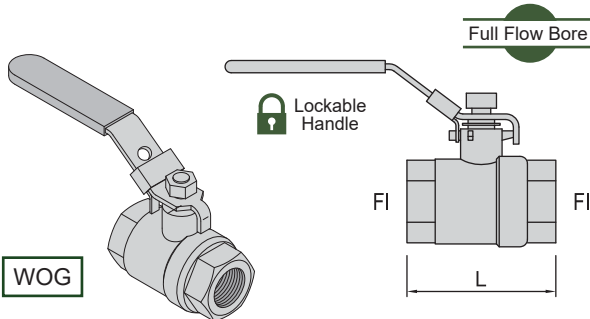
Working Temp: -20 to 180°C.

Cold Max Working Pressure: 6,895kPa.

Product No	FI BSP	L
316.BV3.006	1/4"	50
316.BV3.010	3/8"	50
316.BV3.015	1/2"	64
316.BV3.020	3/4"	71
316.BV3.025	1"	81
316.BV3.032	1.1/4"	94
316.BV3.040	1.1/2"	104
316.BV3.050	2"	127

\*Check suitability of chemicals with us before ordering or installing.  
 Larger sizes are available on request.  
 Specify if WaterMark (WM) or non-Watermark version required when ordering.

### ■ Ball Valve 2-Piece FI BSP



Body: CF8M stainless steel (cast version of 316).

Ball, Stem & Lever: 316 stainless steel.

Seat: PTFE.

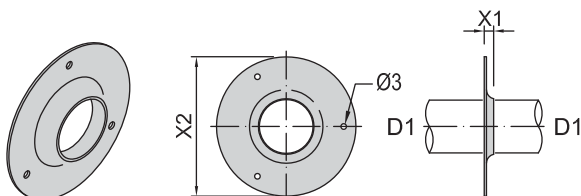
Working Temp: -20 to 180°C.

Max Cold Working Pressure: 6,895kPa.

Product No	FI BSP	L
316.BV2.006	1/4"	48
316.BV2.010	3/8"	48
316.BV2.015	1/2"	58
316.BV2.020	3/4"	66
316.BV2.025	1"	77
316.BV2.032	1.1/4"	90
316.BV2.040	1.1/2"	98
316.BV2.050	2"	121

\*Check suitability of chemicals with us before ordering or installing.  
 Larger sizes are available on request.  
 Specify if WaterMark (WM) or non-Watermark version required when ordering.

### ■ Cover Flange (Escutcheon Plate)



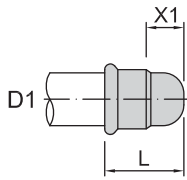
Note: The press socket end cannot pass through the cover flange opening, only the tube end.

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

### ■ End Cap Socket End

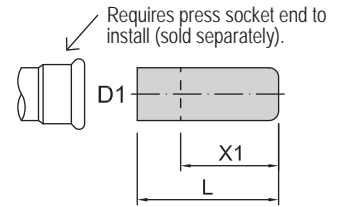
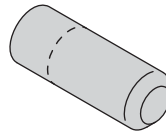


Material: 316L stainless steel.

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

### ■ Plug Tube End



Material: 316L stainless steel.

Product No	D1	L	X1
316.25.015*	15	36	16
316.25.022*	22	40	21
316.25.028	28	42	20
316.25.035*	35	51	25
316.25.042*	42	54	24
316.25.054*	54	59	25

\* Item available on request, lead time likely.

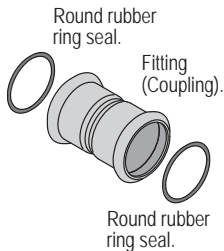
### ■ Ring Seals & Union Gaskets

#### 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 Media Chart & Suitability Guide or contact us for more confirmation of suitability.**



#### 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.

Type:	Pre-fitted in fitting standard	Optional extra	Optional extra	Optional extra	Optional extra
Ring Seal	EPDM	FKM-G	FKM-R	NBR	PTFE
Colour:	<b>Black</b>	<b>Green</b>	<b>Red</b>	<b>Yellow</b>	<b>White</b>
Temp:	-20°C to +110°C	-20°C to +180°C	-10°C to +160°C	-20°C to +70°C	-40°C to +150°C
D1	Product No	Product No	Product No	Product No	Product No
15	EPDM.11.015	FKMG.11.015	FKMR.11.015	NBR.11.015	PTFE.11.015
22	EPDM.11.022	FKMG.11.022	FKMR.11.022	NBR.11.022	PTFE.11.022
28	EPDM.11.028	FKMG.11.028	FKMR.11.028	NBR.11.028	PTFE.11.028
35	EPDM.11.035	FKMG.11.035	FKMR.11.035	NBR.11.035	PTFE.11.035
42	EPDM.11.042	FKMG.11.042	FKMR.11.042	NBR.11.042	-
54	EPDM.11.054	FKMG.11.054	FKMR.11.054	NBR.11.054	-
76.1	EPDM.11.076	FKMG.11.076	FKMR.11.076	NBR.11.076	-
88.9	EPDM.11.088	FKMG.11.088	FKMR.11.088	NBR.11.088	-
108	EPDM.11.108	FKMG.11.108	FKMR.11.108	NBR.11.108	-
168.3	EPDM.11.168	FKMG.11.168	-	-	-

Sulfur cured  
Note: FKM-G is not suitable for steam!

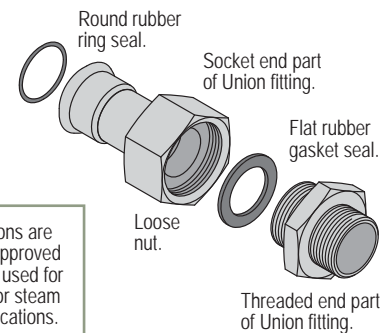
Peroxide cured

PTFE coated over FKM-G core.

Union Gasket	Black	Green
Colour:	<b>Black</b>	<b>Green</b>
Temp:	-20°C to +110°C	-20°C to +180°C

X1	X2	Product No	Product No

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



Unions are not approved to be used for gas or steam applications.