

































# impress<sup>®</sup>



**ibex**  
AUSTRALIA

**PRODUCT CATALOGUE  
& TECHNICAL MANUAL**

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# impress®

## Impress® 316L High Quality Stainless Steel Press Fit System

Impress® is an advanced, weld-free pipe system used for transporting fluids and gases used in building, industry and mining. Offering safer, smarter and faster installation, the Impress® pipe system delivers superior results in handling fuel oils, fire systems, gas and biogas, potable and non-potable water, among many other applications and services. Impress® - the installer's choice.

To see if the Impress® pipe system is the best choice for your project, please get in touch to discuss.

### ■ COST SAVINGS

- More than 10 x quicker than conventional welding
- Labour savings
- Quick & easy to install
- No consumables
- Press fit technology
- Connection consistency

### ■ INSTALLATION ADVANTAGES

- Extensive press tool compatibility
- Wide range of pipe sizes -15mm to 108mm
- Light Weight
- Simple tools -user friendly
- No welding or hot work permits
- Extensive range of fittings
- Built in- situ
- OH&S friendly
- Environmentally friendly

### ■ WATERMARK & GAS APPROVAL, MULTIPLE INTERNATIONAL APPROVALS

AS5200.053 | AS3688 2016 | AS4041 2006 | AS1940  
 Watermark certificate No: 23234  
 Gas approval certificate No: 4058  
 ActivFire®

### ■ TECHNICAL ADVANTAGES

- Quality 316L Stainless Steel
- Range of O-Rings for special applications
- Vast temperature range -20°C to 200°C
- Technical support & training

### ■ PRESSURE RATINGS

DIAMETER	
15 - 22mm	40 Bar
28 - 35mm	25 Bar
42 - 108mm	16 Bar

### ■ MULTIPLE APPLICATIONS

- Hydrocarbons
- Hot & cold water
- Fire service, hydrant & sprinkler
- Compressed air
- Gases
- Bio-gas
- Chemicals
- Diesel fuel
- Conduits

## SELECT THE 'O'RING THAT IS SUITABLE FOR YOUR APPLICATION

PLEASE NOTE: For O-ring recommendations on non-standard applications please refer to Technical Department.

'O'RING	APPLICATIONS	MARKING	TEMPERATURE RANGE
EPDM BLACK	WATER & OTHER		-30°C TO 120°C
FKM (VITON)	INDUSTRIAL & OTHER	<b>HT</b>	-20°C TO 200°C
HNBRYELLOW	NATURAL GAS/ OTHER GASES	<b>G</b>	-20°C TO 95°C

## 5 STEP PROCESS



CUT

DEBURR

WITNESS MARK

ASSEMBLE

**PRESS**  
 15 seconds  
 15mm-35mm

### ■ MORE THAN 10x QUICKER THAN CONVENTIONAL WELDING

■ Mechanical

■ Plumbing

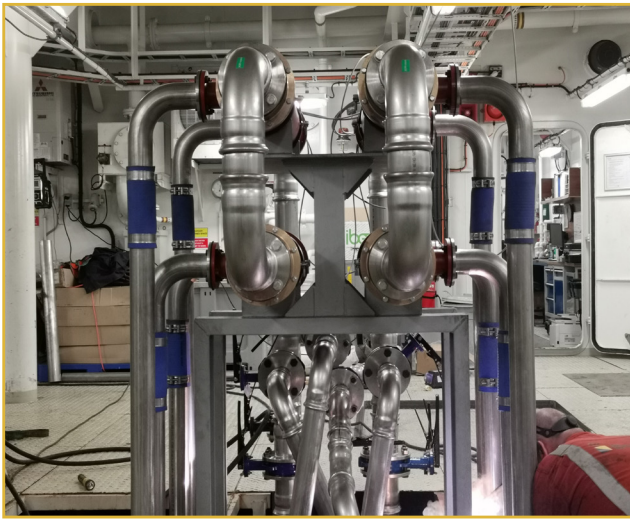
■ Fire

■ Fuel

# PROJECTS



# PROJECTS

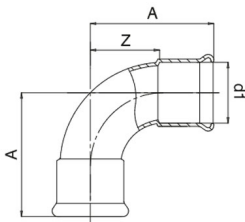


## TUBE



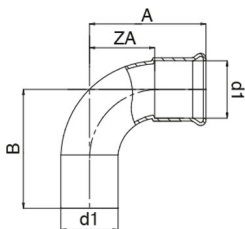
TUBE	CODE	DIMENSION D X T	LENGTH	WEIGHT KG/LTH
15	IMSSTUBE15	15 x 1.0	6 m	2.1
22	IMSSTUBE22	22 x 1.2	6 m	3.76
28	IMSSTUBE28	28 x 1.2	6 m	4.84
35	IMSSTUBE35	35 x 1.5	6 m	7.56
42	IMSSTUBE42	42 x 1.5	6 m	9.15
54	IMSSTUBE54	54 x 1.5	6 m	11.9
76.1	IMSSTUBE76	76.1 x 2.0	6 m	22.3
88.9	IMSSTUBE89	88.9 x 2.0	6 m	26.8
108	IMSSTUBE108	108 x 2.0	6 m	31.9

## ELBOW 90° FEMALE / FEMALE



TUBE X TUBE	CODE	d1	A	Z
15	IMSE15	15	42.5	22
22	IMSE22	22	52.5	31.5
28	IMSE28	28	62	39
35	IMSE35	35	71.5	44.5
42	IMSE42	42	88.5	56.5
54	IMSE54	54	110	73
76.1	IMSE76	76.1	150	95
88.9	IMSE89	88.9	174	111
108	IMSE108	108	215	138

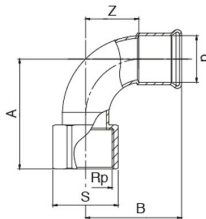
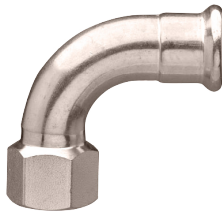
## ELBOW 90° FEMALE / MALE



FITTING X TUBE	CODE	d1	A	ZA	B
15	IMSMFE15	15	42.5	22	42
22	IMSMFE22	22	52.5	31.5	52
28	IMSMFE28	28	62	39	60
35	IMSMFE35	35	71.5	44.5	70
42	IMSMFE42	42	88.5	56.5	89
54	IMSMFE54	54	110	73	107
76.1	IMSMFE76	76.1	150	95	200
88.9	IMSMFE89	88.9	174	111	200
108	IMSMFE108	108	215	138	200

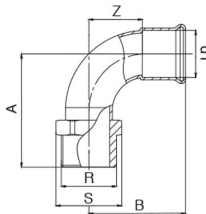
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## ELBOW 90° WITH FEMALE THREAD



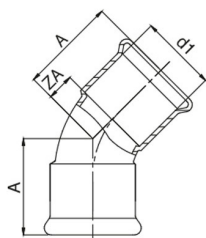
TUBE X THREAD	CODE	d	A	B	Z
15 x ½	IMSEF1515	15	42	42.5	22
22 x ¾	IMSEF2220	22	52	52.5	31.5
28 x 1	IMSEF2825	28	67	62	39
35 x 1¼	IMSEF3532	35	75	71.5	44.5

## ELBOW 90° WITH MALE THREAD



TUBE X THREAD	CODE	d1	A	B	Z
15 x ½	IMSEM1515	15	40	41	21
22 x ¾	IMSEM2220	22	52	50	29
28 x 1	IMSEM2825	28	62	61	38
35 x 1¼	IMSEM3532	35	72	75	45
42 x 1½	IMSEM4240	42	83	88	57
54 x 2	IMSEM5450	54	103	106	70

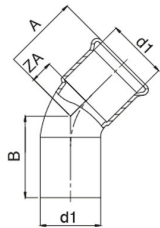
## ELBOW 45° FEMALE / FEMALE



TUBE X TUBE	CODE	d1	A	ZA
15	IMS45E15	15	30.5	10.5
22	IMS45E22	22	36	15
28	IMS45E28	28	40.5	17.5
35	IMS45E35	35	47	21
42	IMS45E42	42	57	27
54	IMS45E54	54	69	34
76.1	IMS45E76	76.1	98	43
88.9	IMS45E89	88.9	112	49
108	IMS45E108	108	138	61

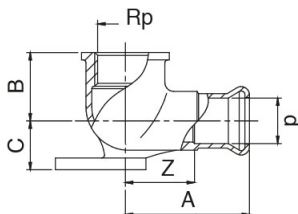
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## ELBOW 45° FEMALE / MALE



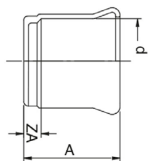
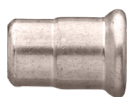
TUBE X FITTING	CODE	d1	A	B	ZA
15	IMS45MFE15	15	30.5	32	10.5
22	IMS45MFE22	22	36	36	15
28	IMS45MFE28	28	40.5	40	17.5
35	IMS45MFE35	35	47	46	21
42	IMS45MFE42	42	57	59	27
54	IMS45MFE54	54	69	69	34
76.1	IMS45MFE76	76.1	98	117	43
88.9	IMS45MFE89	88.9	112	131	49
108	IMS45MFE108	108	138	154	61

## LUGGED ELBOW



TUBE X THREAD	CODE	d	A	B	C	Z
15 x 1/2	IMSLEF1515	15	48	24	13	28
22 x 3/4	IMSLEF2220	22	67	28	21	46
28 x 1	IMSLEF2825	28	60	32	24	37

## END CAP

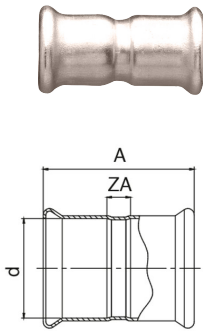


TUBE	CODE	d	A
15	IMSEC15	15	32
22	IMSEC22	22	35
28	IMSEC28	28	37
35	IMSEC35	35	43
42	IMSEC42	42	48.5
54	IMSEC54	54	56.5
76.1	IMSEC76	76.1	97
88.9	IMSEC89	88.9	107
108	IMSEC108	108	128

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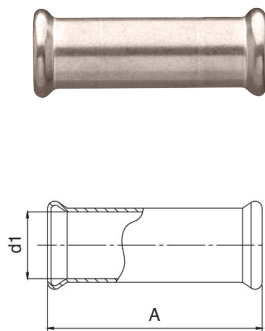


## COUPLING



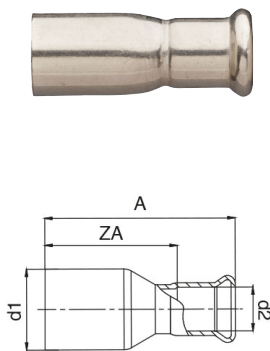
TUBE X TUBE	CODE	d1	A	ZA
15	IMSC15	15	48.5	7.5
22	IMSC22	22	53	11
28	IMSC28	28	58	12
35	IMSC35	35	65	11
42	IMSC42	42	76	12
54	IMSC54	54	87.5	13.5
76.1	IMSC76	76.1	142	32
88.9	IMSC89	88.9	163	37
108	IMSC108	108	192	38

## SLIP COUPLING



TUBE X TUBE	CODE	d1	A
15	IMSCS15	15	80
22	IMSCS22	22	85
28	IMSCS28	28	95
35	IMSCS35	35	105
42	IMSCS42	42	120
54	IMSCS54	54	135
76.1	IMSCS76	76.1	230
88.9	IMSCS89	88.9	258
108	IMSCS108	108	305

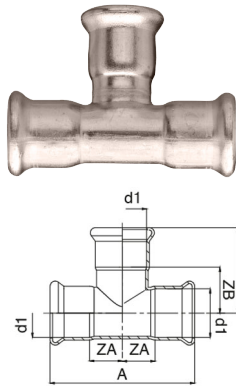
## REDUCER



TUBE X FITTING	CODE	d1	d2	A	ZA
22 x 15	IMSRC2215	22	15	55	41
28 x 15	IMSRC2815	28	15	61	41
28 x 22	IMSRC2822	28	22	60	39
35 x 22	IMSRC3522	35	22	70	49
35 x 28	IMSRC3528	35	28	67	44
42 x 22	IMSRC4222	42	22	78	57
42 x 28	IMSRC4228	42	28	82	59
42 x 35	IMSRC4235	42	35	80	54
54 x 28	IMSRC5428	54	28	92	69
54 x 35	IMSRC5435	54	35	95	69
54 x 42	IMSRC5442	54	42	101.5	65.5
76.1 x 54	IMSRC7654	76.1	54	140	103
88.9 x 54	IMSRC8954	88.9	54	156	119
88.9 x 76.1	IMSRC8976	88.9	76.1	156	101
108 x 54	IMSRC10854	108	54	204	167
108 x 76.1	IMSRC10876	108	76.1	196	141
108 x 88.9	IMSRC10889	108	88.9	190	127

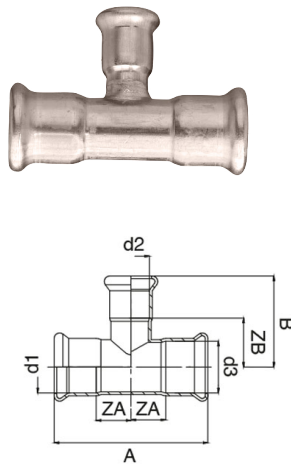
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## TEE



TUBE X TUBE X TUBE	CODE	d1	A	B	ZA
15	IMST15	15	97	34	13
22	IMST22	22	77	39.5	17.5
28	IMST28	28	88	46	21
35	IMST35	35	102	53	24
42	IMST42	42	120	62	28
54	IMST54	54	144	73	35
76.1	IMST76	76.1	232	115	55
88.9	IMST89	88.9	262	127	63
108	IMST108	108	312	155	77

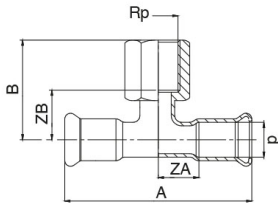
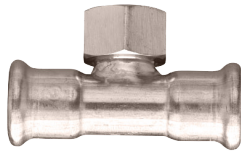
## REDUCING TEE



TUBE X TUBE X TUBE	CODE	d1	d2	d3	A	B	ZA
22 x 15 x 22	IMSRT2215	22	15	22	77	36	17.5
28 x 15 x 28	IMSRT2815	28	15	28	88	38	17.5
28 x 22 x 28	IMSRT2822	28	22	28	88	41.5	21
35 x 15 x 35	IMSRT3515	35	15	35	102	45.5	12
35 x 22 x 35	IMSRT3522	35	22	35	102	45.5	24
35 x 28 x 35	IMSRT3528	35	28	35	102	48.5	24
42 x 15 x 42	IMSRT4215	42	15	42	170	51	24.25
42 x 22 x 42	IMSRT4222	42	22	42	120	51	28
42 x 28 x 42	IMSRT4228	42	28	42	120	54	28
42 x 35 x 42	IMSRT4235	42	35	42	120	57.5	28
54 x 22 x 54	IMSRT5422	54	22	54	144	57	35
54 x 28 x 54	IMSRT5428	54	28	54	144	60	35
54 x 35 x 54	IMSRT5435	54	35	54	144	63.5	35
54 x 42 x 54	IMSRT5442	54	42	54	144	67	35
76.1 x 22 x 76.1	IMSRT7622	76.1	22	76.1	232	68	55
76.1 x 28 x 76.1	IMSRT7628	76.1	28	76.1	232	71	55
76.1 x 35 x 76.1	IMSRT7635	76.1	35	76.1	232	75	55
76.1 x 42 x 76.1	IMSRT7642	76.1	42	76.1	232	79	55
76.1 x 54 x 76.1	IMSRT7654	76.1	54	76.1	232	80	55
88.9 x 28 x 88.9	IMSRT8928	88.9	28	88.9	262	76	63
88.9 x 35 x 88.9	IMSRT8935	88.9	35	88.9	262	83	63
88.9 x 42 x 88.9	IMSRT8942	88.9	42	88.9	262	85	63
88.9 x 54 x 88.9	IMSRT8954	88.9	54	88.9	262	93	63
88.9 x 76.1 x 88.9	IMSRT8976	88.9	76.1	88.9	262	116	63
108 x 22 x 108	IMSRT10822	108	22	108	312	85	77
108 x 28 x 108	IMSRT10828	108	28	108	312	88	77
108 x 35 x 108	IMSRT10835	108	35	108	312	94	77
108 x 42 x 108	IMSRT10842	108	42	108	312	96	77
108 x 54 x 108	IMSRT10854	108	54	108	312	102	77
108 x 76.1 x 108	IMSRT10876	108	76.1	108	312	125	77
108 x 88.9 x 108	IMSRT10889	108	88.9	108	312	135	77

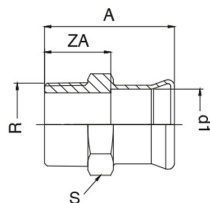
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## TEE THREADED FEMALE



TUBE X THREAD X TUBE	CODE	d	A	B	ZA
15 x ½ x 15	IMSTF1515	15	67	33	13
22 x ½ x 22	IMSTF2215	22	77	36.5	17.5
22 x ¾ x 22	IMSTF2220	22	77	40.5	17.5
28 x ½ x 28	IMSTF2815	28	88	39.5	21
28 x ¾ x 28	IMSTF2820	28	88	43.5	21
28 x 1 x 28	IMSTF2825	28	88	44.5	21
35 x ½ x 35	IMSTF3515	35	102	43	24
35 x ¾ x 35	IMSTF3520	35	102	45	24
35 x 1 ¼ x 35	IMSTF3532	35	102	52	24
42 x ½ x 42	IMSTF4215	42	120	48	28
42 x ¾ x 42	IMSTF4220	42	120	47	28
42 x 1 ½ x 42	IMSTF4240	42	120	56.5	28
54 x ½ x 54	IMSTF5415	54	144	52	35
54 x ¾ x 54	IMSTF5420	54	144	52	35
54 x 2 x 54	IMSTF5450	54	144	67.5	35
76.1 x ¾ x 76.1	IMSTF7620	76.1	232	68	55
76.1 x 2 x 76.1	IMSTF7650	76.1	232	81	55
88.9 x ¾ x 88.9	IMSTF8920	88.9	262	87	63
88.9 x 2 x 88.9	IMSTF8950	88.9	262	88	63
108 x ¾ x 108	IMSTF10820	108	312	86	77
108 x 2 x 108	IMSTF10850	108	312	98	77

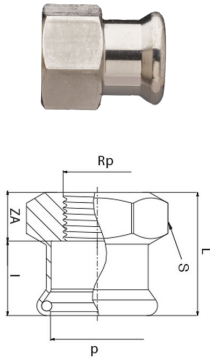
## MALE ADAPTOR



TUBE X THREAD	CODE	d1	A
15 x ½	IMSMA1515	15	53
22 x ½	IMSMA2215	22	55
22 x ¾	IMSMA2220	22	57.5
28 x ¾	IMSMA2820	28	57.5
28 x 1	IMSMA2825	28	63
35 x 1	IMSMA3525	35	75.5
35 x 1 ¼	IMSMA3532	35	75.5
42 x 1 ½	IMSMA4240	42	83
54 x 2	IMSMA5450	54	99
76.1 x 2 ½	IMSMA7665	76.1	125
76.1 x 3	IMSMA7680	76.1	125
88.9 x 3	IMSMA8980	88.9	138
108 x 4	IMSMA108100	108	142

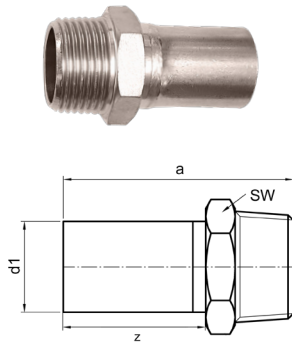
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## FEMALE ADAPTOR



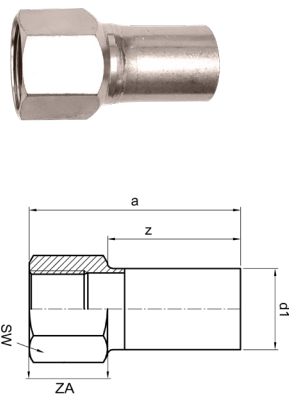
TUBE X THREAD	CODE	d	L
15 x ½	IMSFA1515	15	46.5
22 x ½	IMSFA2215	22	48.5
22 x ¾	IMSFA2220	22	57.5
28 x ¾	IMSFA2820	28	57.5
28 x 1	IMSFA2825	28	59
35 x 1¼	IMSFA3532	35	64.5
42 x 1½	IMSFA4240	42	71
54 x 2	IMSFA5450	54	84.7

## PLUGIN MALE ADAPTOR



FITTING X THREAD	CODE	d	a	z
15 x ½	IMSMAP1515	15	59	40
22 x ¾	IMSMAP2220	22	59	40
28 x 1	IMSMAP2825	28	70	44
35 x 1¼	IMSMAP3532	35	80	52
42 x 1½	IMSMAP4240	42	85	55
54 x 2	IMSMAP5450	54	103	67

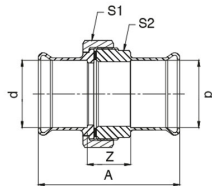
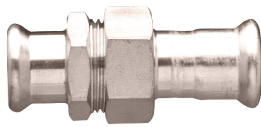
## PLUGIN FEMALE ADAPTOR



FITTING X THREAD	CODE	d1	a	ZA	Z
15 x ½	IMSFAP1515	15	51	22	29
22 x ½	IMSFAP2215	22	58	24	34
22 x ¾	IMSFAP2220	22	58	24	34
28 x 1	IMSFAP2825	28	68	28	40

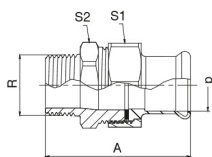
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## TUBE / TUBE BARREL UNION



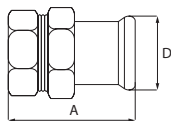
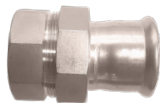
TUBE X TUBE	CODE	d	A	S1	S2	Z
15	IMSBUP15	15	85	24	25	46
22	IMSBUP22	22	97	37	34	52
28	IMSBUP28	28	91	46	45	46
35	IMSBUP35	35	120	52	50	69
42	IMSBUP42	42	134	64	60	75
54	IMSBUP54	54	144	85	75	75

## TUBE / MALE BARREL UNION



TUBE X THREAD	CODE	d	A	S1	S2
15 x ½	IMSBUPM1515	15	70	24	27
22 x ¾	IMSBUPM2220	22	82	30	30
28 x 1	IMSBUPM2825	28	77	46	45
35 x 1¼	IMSBUPM3532	35	85	52	50
42 x 1½	IMSBUPM4240	42	95	64	60
54 x 2	IMSBUPM5450	54	100	85	75

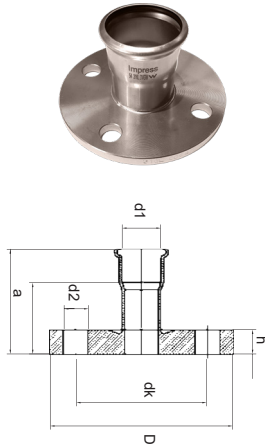
## TUBE / FEMALE BARREL UNION



TUBE X THREAD	CODE	D	A
15 x ½	IMSBUPF1515	15	70
22 x ¾	IMSBUPF2220	22	81
28 x 1	IMSBUPF2825	28	88
35 x 1¼	IMSBUPF3532	35	90
42 x 1½	IMSBUPF4240	42	99
54 x 2	IMSBUPF5450	54	109

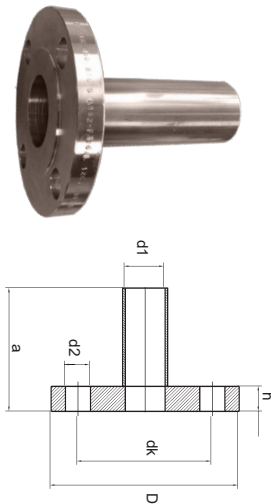
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## FLANGE TABLE D/E



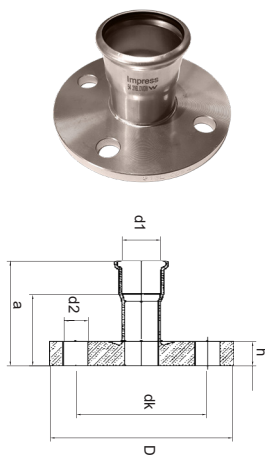
FITTING X FLANGE	CODE	A	Z	H	DK	D2	D	BOLT HOLES
15 x ½	IMSFDE15	33	12	5	67	14	95	4
22 x ¾	IMSFDE22	43	20	5	73	14	100	4
28 x 1	IMSFDE28	44	20	5	83	14	115	4
35 x 1¼	IMSFDE35	45	20	6	87	14	120	4
42 x 1½	IMSFDE42	53	18	6	98	14	135	4
54 x 2	IMSFDE54	61	22	8	114	18	150	4
76.1 x 3	IMSFDE76	76	26	10	146	18	185	4
88.9 x 3	IMSFDE89	83	27	10	146	18	185	4
108 x 4	IMSFDE108	124	25	10	178	18	215	4

## STEM FLANGE TABLE D/E



TUBE X FLANGE	CODE	A	H	DK	D2	D	BOLT HOLES
15 x ½	IMSSFDE15	60	5	67	14	95	4
22 x ¾	IMSSFDE22	90	5	73	14	100	4
28 x 1	IMSSFDE28	120	5	83	14	115	4
35 x 1¼	IMSSFDE35	130	6	87	14	120	4
42 x 1½	IMSSFDE42	150	6	98	14	135	4
54 x 2	IMSSFDE54	180	8	114	18	150	4
76.1 x 3	IMSSFDE76	180	10	146	18	185	4
88.9 x 3	IMSSFDE8976	180	10	146	18	185	4
108 x 4	IMSSFDE108	180	10	178	18	215	4

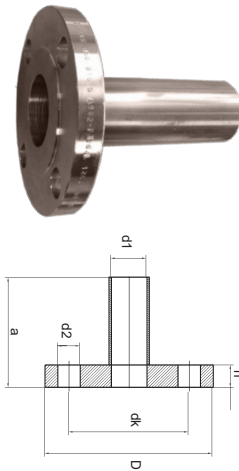
## FLANGE ANSI 150



FITTING X FLANGE	CODE	A	Z	H	DK	D2	D	BOLT HOLES
15 x ½	IMSFANSI15	38	17	9.6	60.3	16	90	4
22 x ¾	IMSFANSI22	49	26	11.2	69.9	16	100	4
28 x 1	IMSFANSI28	52	28	12.7	79.4	16	110	4
35 x 1¼	IMSFANSI35	53	28	14.3	88.9	16	115	4
42 x 1½	IMSFANSI42	63	28	15.9	98.4	16	125	4
54 x 2	IMSFANSI54	71	32	17.5	120.7	20	150	4
76.1 x 3	IMSFANSI76	88	38	22.3	152.4	20	190	4
88.9 x 3	IMSFANSI89	95	39	22.3	152.4	20	190	4
108 x 4	IMSFANSI108	138	37	22.3	190.5	20	230	8

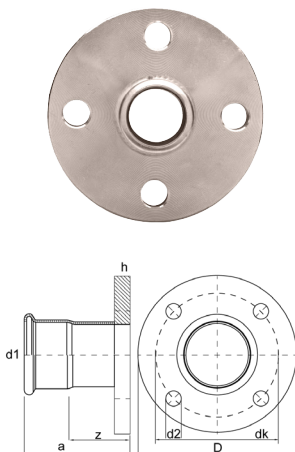
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## STEM FLANGE ANSI 150



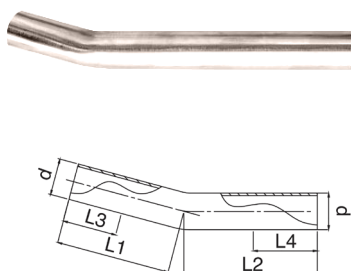
TUBE X FLANGE	CODE	A	H	DK	D2	D	BOLT HOLES
15 x ½	IMSSFANSI15	60	9.6	60.3	16	90	4
22 x ¾	IMSSFANSI22	90	11.2	69.9	16	100	4
28 x 1	IMSSFANSI28	120	12.7	79.4	16	110	4
35 x 1¼	IMSSFANSI35	130	14.3	88.9	16	115	4
42 x 1½	IMSSFANSI42	150	15.9	98.4	16	125	4
54 x 2	IMSSFANSI54	180	17.5	120.7	20	150	4
76.1 x 3	IMSSFANSI76	180	22.3	152.4	20	190	4
88.9 x 3	IMSSFANSI89	180	22.3	152.4	20	190	4
108 x 4	IMSSFANSI108	180	22.3	190.5	20	230	8

## FLANGE PN16



FITTING X FLANGE	CODE	A	Z	H	DK	D2	D	BOLT HOLES
15 x ½	IMSFPN1615	65	39	14	65	14	95	4
22 x ¾	IMSFPN1622	69	40	16	75	14	105	4
28 x 1	IMSFPN1628	75	45	16	85	14	115	4
35 x 1¼	IMSFPN1635	78	47	18	100	18	140	4
42 x 1½	IMSFPN1642	87	48	18	110	18	150	4
54 x 2	IMSFPN1654	100	55	20	125	18	165	4
76.1 x 3	IMSFPN1676	124	73	20	160	18	200	4
88.9 x 3	IMSFPN1689	137	79	20	160	18	200	8
108 x 4	IMSFPN16108	162	92	22	180	18	220	8

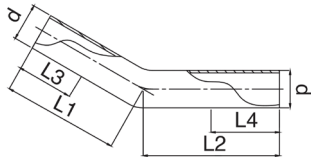
## ELBOW 15° PLAIN END



TUBE X TUBE	CODE	d	L1	L2
15	IMSPE1515	15	60	122
22	IMSPE1522	22	50	124
28	IMSPE1528	28	80	120
35	IMSPE1535	35	120	200
42	IMSPE1542	42	150	250
54	IMSPE1554	54	117	337
76.1	IMSPE1576	76.1	228	228
88.9	IMSPE1589	88.9	240	240
108	IMSPE15108	108	249	249

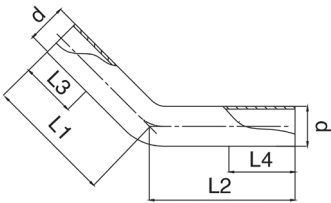
Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## ELBOW 30° PLAIN END



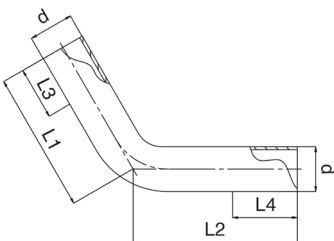
TUBE X TUBE	CODE	d	L1	L2
15	IMSPE3015	15	60	122
22	IMSPE3022	22	70	124
28	IMSPE3028	28	80	120
35	IMSPE3035	35	80	218
42	IMSPE3042	42	98	274
54	IMSPE3054	54	137	324
76.1	IMSPE3076	76.1	201	201
88.9	IMSPE3089	88.9	241	241
108	IMSPE30108	108	263	263

## ELBOW 45° PLAIN END



TUBE X TUBE	CODE	d	L1	L2
15	IMSPE4515	15	62	120
22	IMSPE4522	22	76	120
28	IMSPE4528	28	78	122
35	IMSPE4535	35	94	206
42	IMSPE4542	42	114	262
54	IMSPE4554	54	146	321
76.1	IMSPE4576	76.1	225	225
88.9	IMSPE4589	88.9	267	267
108	IMSPE45108	108	293	293

## ELBOW 60° PLAIN END

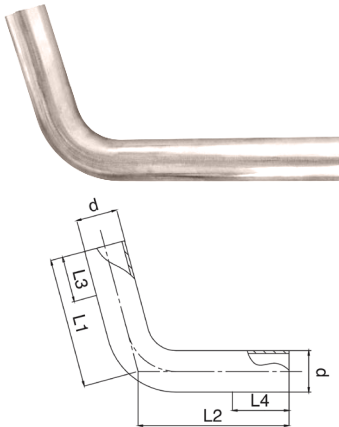


TUBE X TUBE	CODE	d	L1	L2
15	IMSPE6015	15	60	122
22	IMSPE6022	22	60	118
28	IMSPE6028	28	80	120
35	IMSPE6035	35	120	200
42	IMSPE6042	42	150	250
54	IMSPE6054	54	200	300
76.1	IMSPE6076	76.1	215	215
88.9	IMSPE6089	88.9	256	256
108	IMSPE60108	108	292	292

Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

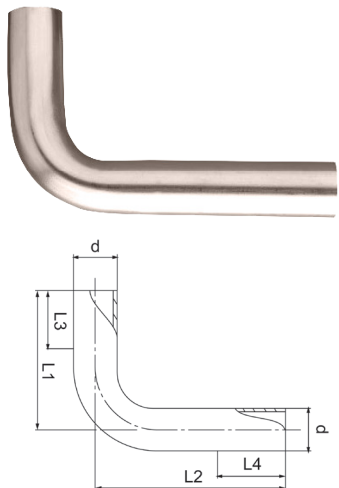


## ELBOW 75° PLAIN END



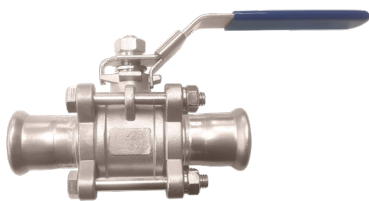
TUBE X TUBE	CODE	d	L1	L2
15	IMSPE7515	15	65	120
22	IMSPE7522	22	64	118
28	IMSPE7528	28	71	114
35	IMSPE7535	35	110	200
42	IMSPE7542	42	137	251
54	IMSPE7554	54	178	305
76.1	IMSPE7576	76.1	240	240
88.9	IMSPE7589	88.9	280	280
108	IMSPE75108	108	345	345

## ELBOW 90° PLAIN END



TUBE X TUBE	CODE	d	L1	L2
15	IMSPE9015	15	95	120
22	IMSPE9022	22	70	70
28	IMSPE9028	28	60	80
35	IMSPE9035	35	120	200
42	IMSPE9042	42	150	250
54	IMSPE9054	54	200	300
76.1	IMSPE9076	76.1	250	250
88.9	IMSPE9089	88.9	291	291
108	IMSPE90108	108	364	364

## PRESS VALVE



TUBE X TUBE	CODE	Description
15	IMSSPV15-3	Impress 316L Stainless Steel Press Valve (3-Piece) 15mm
22	IMSSPV22-3	Impress 316L Stainless Steel Press Valve (3-Piece) 22mm
28	IMSSPV28-3	Impress 316L Stainless Steel Press Valve (3-Piece) 28mm
35	IMSSPV35-3	Impress 316L Stainless Steel Press Valve (3-Piece) 35mm
42	IMSSPV42-3	Impress 316L Stainless Steel Press Valve (3-Piece) 42mm
54	IMSSPV54-3	Impress 316L Stainless Steel Press Valve (3-Piece) 54mm
76.1	IMSSPV76-3	Impress 316L Stainless Steel Press Valve (3-Piece) 76mm
88.9	IMSSPV89-3	Impress 316L Stainless Steel Press Valve (3-Piece) 89mm
108	IMSSPV108-3	Impress 316L Stainless Steel Press Valve (3-Piece) 108mm

Fittings supplied standard with EPDM O Rings. When ordering HT or GAS please add to part number

## ZINC SCL



CODE	DESCRIPTION
SCL15	Zinc Plated Clip 15mm M10 Rubber Lined
SCL22	Zinc Plated Clip 22mm M10 Rubber Lined
SCL28	Zinc Plated Clip 28mm M10 Rubber Lined
SCL35	Zinc Plated Clip 35mm M10 Rubber Lined
SCL42	Zinc Plated Clip 42mm M10 Rubber Lined
SCL54	Zinc Plated Clip 54mm M10 Rubber Lined
SCL76	Zinc Plated Clip 76mm M10 Rubber Lined
SCL89	Zinc Plated Clip 89mm M10 Rubber Lined
SCL108	Zinc Plated Clip 108mm M10 Rubber Lined

## ZINC SCL-2



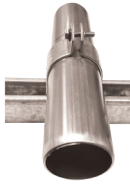
CODE	DESCRIPTION
SCL15-2	Zinc Plated Clip 15mm M10 Rubber Lined -2 bolt
SCL22-2	Zinc Plated Clip 22mm M10 Rubber Lined -2 bolt
SCL28-2	Zinc Plated Clip 28mm M10 Rubber Lined -2 bolt
SCL35-2	Zinc Plated Clip 35mm M10 Rubber Lined -2 bolt
SCL42-2	Zinc Plated Clip 42mm M10 Rubber Lined -2 bolt
SCL54-2	Zinc Plated Clip 54mm M10 Rubber Lined -2 bolt

## STAINLESS STEEL SSCL



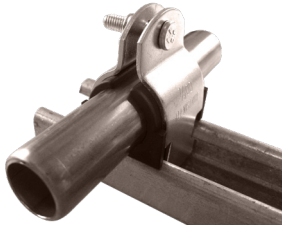
CODE	DESCRIPTION
SSCL15	Stainless Steel 316 Nut Clip M10, 15mm
SSCL22	Stainless Steel 316 Nut Clip M10, 22mm
SSCL28	Stainless Steel 316 Nut Clip M10, 28mm
SSCL35	Stainless Steel 316 Nut Clip M10, 35mm
SSCL42	Stainless Steel 316 Nut Clip M10, 42mm
SSCL54	Stainless Steel 316 Nut Clip M10, 54mm
SSCL76	Stainless Steel 316 Nut Clip M10, 76mm
SSCL89	Stainless Steel 316 Nut Clip M10, 89mm
SSCL108	Stainless Steel 316 Nut Clip M10, 108mm

**STAINLESS STEEL SSSCL**



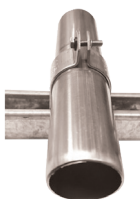
CODE	DESCRIPTION
SSSCL15	Stainless Steel 316 Two Piece Channel Clip 15mm
SSSCL22	Stainless Steel 316 Two Piece Channel Clip 22mm
SSSCL28	Stainless Steel 316 Two Piece Channel Clip 28mm
SSSCL35	Stainless Steel 316 Two Piece Channel Clip 35mm
SSSCL42	Stainless Steel 316 Two Piece Channel Clip 42mm
SSSCL54	Stainless Steel 316 Two Piece Channel Clip 54mm
SSSCL76	Stainless Steel 316 Two Piece Channel Clip 76mm
SSSCL89	Stainless Steel 316 Two Piece Channel Clip 89mm
SSSCL108	Stainless Steel 316 Two Piece Channel Clip 108mm

**ZINC SCLE5 - INSERT**



CODE	DESCRIPTION
SCLE5-15INSERT	Zinc Plated Two Piece Channel Clip with Insert 15mm
SCLE5-22INSERT	Zinc Plated Two Piece Channel Clip with Insert 22mm
SCLE5-28INSERT	Zinc Plated Two Piece Channel Clip with Insert 28mm
SCLE5-35INSERT	Zinc Plated Two Piece Channel Clip with Insert 35mm
SCLE5-42INSERT	Zinc Plated Two Piece Channel Clip with Insert 42mm
SCLE5-54INSERT	Zinc Plated Two Piece Channel Clip with Insert 54mm
SCLE5-76INSERT	Zinc Plated Two Piece Channel Clip with Insert 76mm

**ZINC TWO PIECE CHANNEL CLIP**



CODE	DESCRIPTION
SCLE5-89	Zinc Plated Two Piece Channel Clip 89mm
SCLE5-108	Zinc Plated Two Piece Channel Clip 108mm
SCLE5-PVCCROLL	PVC Strip Insert 20M Roll

**TUBE CLAMPS – SHPC**


CODE	DESCRIPTION
SHPC15	Hydraulic Tube Clamp 15mm
SHPC22	Hydraulic Tube Clamp 22mm
SHPC28	Hydraulic Tube Clamp 28mm
SHPC35	Hydraulic Tube Clamp 35mm
SHPC42	Hydraulic Tube Clamp 42mm
SHPC54	Hydraulic Tube Clamp 54mm
SHPC76	Hydraulic Tube Clamp 76mm
SHPC89	Hydraulic Tube Clamp 89mm
SHPC108	Hydraulic Tube Clamp 108mm

**STAINLESS STEEL SSSPCH**


CODE	DESCRIPTION
SSSOB	Stainless Steel 316 – Stand Off Bracket
SSSPCH15	Stainless Steel 316 Single Piece Clip Head 15mm
SSSPCH22	Stainless Steel 316 Single Piece Clip Head 22mm
SSSPCH28	Stainless Steel 316 Single Piece Clip Head 28mm
SSSPCH35	Stainless Steel 316 Single Piece Clip Head 35mm
SSSPCH42	Stainless Steel 316 Single Piece Clip Head 42mm
SSSPCH54	Stainless Steel 316 Single Piece Clip Head 54mm
SSSPCH76	Stainless Steel 316 Single Piece Clip Head 76mm
SSSPCH89	Stainless Steel 316 Single Piece Clip Head 89mm
SSSPCH108	Stainless Steel 316 Single Piece Clip Head 108mm

**PRESSING EQUIPMENT – PRESSTOOLS**



CODE	DESCRIPTION
SPT-B-203PTB	Stainless Steel Press Tool ACO203 Bluetooth, 1 x 18V Battery, 240V Charger & Tool Box. 15mm-54mm
SPT-B-203PTXLB	Stainless Steel Press Tool ACO203XL Bluetooth, 1 x 18V Battery, 240V Charger & Tool Box. 15mm-108mm
SPT-B-403PTB	Stainless Steel Press Tool ACO403 Bluetooth, 2 x 18V Battery, 240V Charger & Tool Box. 76mm-108mm



CODE	DESCRIPTION
SPT-202J15	Stainless Steel Press Jaw 15mm
SPT-202J22	Stainless Steel Press Jaw 22mm
SPT-202J28	Stainless Steel Press Jaw 28mm
SPT-202J35	Stainless Steel Press Jaw 35mm
SPT-202AJ	Stainless Steel Adaption Jaw ZB203
SPT-202C42	Stainless Steel Press Collar 42mm
SPT-202C54	Stainless Steel Press Collar 54mm
SPT-203XLAJ(1)	Stainless Steel 203XL Adaptor Jaw (1) 76-108mm
SPT-203XLAJ(2)	Stainless Steel 203XL Adaptor Jaw (2) 108mm
SPT-203XL76	Stainless Steel 203XL Collar 76mm
SPT-203XL89	Stainless Steel 203XL Collar 89mm
SPT-203XL108	Stainless Steel 203XL Collar 108mm

**CUTTERS AND DEBURRERS**



CODE	DESCRIPTION
STC35	Stainless Steel Tube Cutter 35mm
STC54	Stainless Steel Tube Cutter 54mm
STC108	Stainless Steel Tube Cutter 54 - 108mm
STC168	Stainless Steel Tube Cutter 102mm - 168mm
STD54	Stainless Steel Tube Deburrer 0 - 54mm
STDH	Stainless Steel Hand Deburrer 15 - 108mm
STC845001	Pipe Cutting Machine 22 - 108mm
STC845050	Cu-Inox Cutter Wheel for Cento (SS/Copper)
STC845110	Stainless Steel Rollers for Cento
STC849315	Stand for Cento Cutter
STC120120	Herkules Tripod Stand with Roller Heads
STC113835	Reg 10 - 54E Deburrer (Can Use on Cento/ Drill)
STC113840	Reg 28 -108 Inner Deburrer (Used on Cento)

# IMPRESS® INSTALLATION

## CORROSIVE ENVIRONMENTS

IMPRESS® has excellent resistance to a broad range of chemicals and or industrial mixtures / media. O-rings are available in a range of materials, user should verify compatibility of components with their application. IMPRESS® stainless steel pipelines generally do not require any additional corrosion protection, except in atmospheres which contain chloride or chlorine. Please consult our Technical Department if IMPRESS® is to be used for diverse media such as industrial applications, swimming pools or for reticulating sea water. When planning and installing IMPRESS®, high concentrations of chloride, which could work on the system externally, and/or internal evaporation need to be avoided as a matter of principle. In some applications the tubes should be protected by suitable coatings or jacketing. Extensive compatibility charts are available. Resistance to specific chemicals should be checked with Technical Department.

## UNDERGROUND SYSTEMS

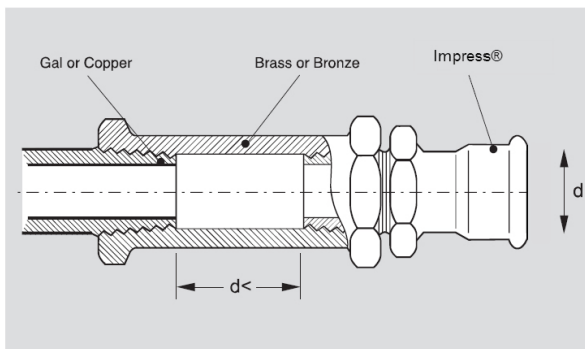
Underground pipework should be protected against possible external substances causing corrosion or damage to O-rings. Please refer to Technical Department.

## EXPLOSIVE OR IGNITABLE ATMOSPHERE

It is the responsibility of the user/customer/purchaser to identify any potential hazards and to take necessary measures or precautions to ensure complete safety. Information on protective measures is available with advice on your specific application.

## DISSIMILAR METALS

IMPRESS® may be connected to copper or galvanised steel provided a minimum separation distance of the pipe diameter, in brass or bronze, is maintained. Valves and fittings in brass or bronze may be used.



Permissible connection between stainless steel and copper or galvanised steel.

## CUTTING

It is essential IMPRESS® tubes are cut with tube cutters or a fine toothed planetary metal saw blade that has not been used previously to cut unalloyed steel. To avoid sensitisation of the material and if electrically powered saws are used, cutting speed must be limited so that temper colours are not created at the point of cutting.

### CAUTION!

DO NOT USE cutting disks (flexible) or flame cutter when cutting stainless steel tubes.

If annealing colours should arise, these must be eliminated on the inside and outside surface of the stainless steel tubes. Experience indicates that even a strawyellow discoloration of the stainless steel can lead to a sensitisation of the material. Particularly suitable for the cutting of tubes of stainless steel or copper is the saw RA 21 + GF+, with which the outside cut edges are also deburred simultaneously with the cutting. Tube ends must be de-burred inside and outside.

## BENDING

IMPRESS® 15 mm to 28 mm can be bent cold with suitable bending tools. A bending radius of at least  $r = 3.5 \times d$  is to be maintained. After bending, a sufficiently long tube section is required to fit connections. With larger than above specified dimensions, the manufacturer of the bending tools is responsible for a perfect bending result.

### HOT BENDING OF IMPRESS® IS NOT PERMITTED.

## THREAD SEALANTS

The use of permanent elastic thread sealant is recommended. No sealants containing chloride are to be used.

## STORAGE, TRANSPORT & CLIPPING

To avoid damage to the IMPRESS inherent passive layer, ensure tube and fittings do not come into contact with mild/carbon steel. A physical separation must be maintained between IMPRESS and metal strapping, racking, truck trays, trolleys, workbenches, etc.

## THERMAL EXPANSION

Impress® expands and contracts depending on medium, temperature difference, etc. The installation must allow for sufficient expansion movement. Generally this movement can be absorbed on changes of direction, elbows, or by the use of expansion bellows, etc.

### IMPRESS® THERMAL EXPANSION FORMULA

$$\Delta l = \frac{a \ell \Delta T}{1000}$$

- $\Delta l$  = Thermal Expansion (mm)
- $a$  = 16.5 Coefficient of Expansion (20°C to 100°C)
- $\ell$  = Pipe Length (M)
- $\Delta T$  = Temperature Variation (C° or K)

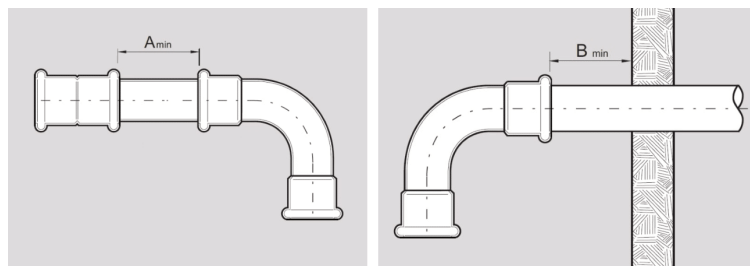
## SUPPORT SPACINGS

TUBE SIZE	SUPPORT SPACING (METRES)
15	1
22	1.5
28	1.8
35	2.2
42	2.4
54	2.7
76	3
89	3
108	3

Pipe clips are to be used on tube only, not fittings. Allowance is to be made for thermal expansion and contraction.

## SPACE REQUIREMENTS

Minimum spacing between two press points (see following chart)



Minimum spacing to wall (see following chart)

## MINIMUM SPACE REQUIREMENT BETWEEN PRESS

TUBE SIZE	A MIN	B MIN
15	20	60
22	30	60
28	30	60
35	35	60
42	40	60
54	45	60
76.1	45	60
88.9	45	60
108	50	60

# IMPRESS® PRESS PROCEDURE



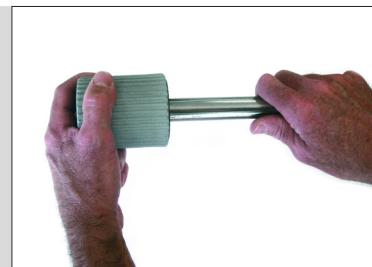
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## IMPRESS® 15 MM UP TO 35 MM

1. Cut tube to length. The tube ends must be clean with no scratches or grooves. Remove end caps.



2. Deburr tube inside and outside.



3. Witness mark the insertion depth on the tube.



4. Select pressing jaw according to the fitting dimension and insert into the press tool. Close the retention pin of the tool.



5. Check IMPRESS® fitting for correct placement of the sealing ring and push the end of the tube into the fitting by rotating it easily until it reaches a complete stop. The fitting outer edge must correlate with the witness mark.



6. Open pressing jaw lubricate and place around fitting ensuring bead of the fitting connects into the groove of the pressing jaw. Commence pressing procedure by activating the start button on the press tool, hold down for 3 seconds to activate automatic function. Support tool throughout the press cycle and when complete remove from fitting. Do not allow interruption to the press cycle. In case of danger, an interruption of the pressing process is possible by pressing the emergency-stop button. After resetting emergency stop situation, re-press ensuring that press head is located in the same position as the fitting.



Lubrication of press jaws and slings is highly recommended for seamless installation and tool longevity.



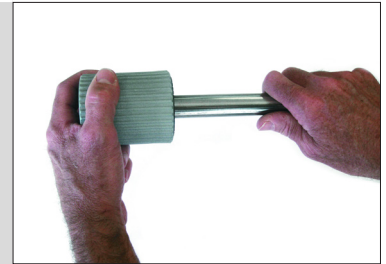
# IMPRESS® PRESS PROCEDURE



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## IMPRESS® 42 MM UP TO 54 MM

1. Cut tube to length with planetary saw or tube cutters. The tube ends must be clean with no scratches or grooves. Remove end caps.
2. Deburr tube inside and outside.
3. Witness mark the insertion depth on the tube.
4. Check IMPRESS® fitting for correct placement of the sealing ring and push the end of the tube into the fitting by rotating it easily until it reaches a complete stop. The fitting outer edge must correlate with the witness mark.
5. Select intermediate jaw, fit to press tool and close the retention pin. Select suitable pressing slings lubricate and assemble on IMPRESS® fittings.
6. Open the intermediate jaw by pressing the jaw levers down, connect jaw to pressing sling. Check whether fitting outer edge correlates with the marking of the insertion depth. Commence the pressing procedure by actuating the start button on the press tool, hold down for three seconds to activate automatic function. Do not allow interruption to the press cycle. In case of danger, an interruption of the pressing process is possible by pressing the emergency-stop button. After resetting emergency stop situation, re-press ensuring that press head is located in the same position on the fitting.



Lubrication of press jaws and slings is highly recommended for seamless installation and tool longevity.

■ Mechanical

■ Plumbing

■ Fire

■ Fuel

# IMPRESS® PRESS PROCEDURE



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## IMPRESS® 76 MM UP TO 108 MM

1. Cut tube to length with planetary saw or tube cutters. The tube ends must be clean with no scratches or grooves. Remove end caps.



2. Deburr tube inside and outside with a deburring tool.



3. Witness mark the insertion depth on the tube.



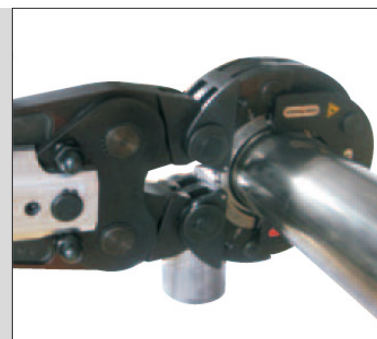
4. Check IMPRESS® fitting for correct placement of the sealing ring and push the end of the tube into the fitting by rotating it easily until it reaches a complete stop. The fitting outer edge must correlate with the witness mark.



5. Select suitable pressing slings lubricate and assemble on IMPRESS® fitting. Please Note: Press sling must be reset to original open position before each press.



6. Open the intermediate jaw by pressing the jaw levers down check whether fitting outer edge correlates with the marking of the insertion depth. Commence the pressing procedure by actuating the start button on the press tool, hold down for three seconds to activate automatic function. Do not allow interruption to the press cycle. In case of danger, an interruption of the pressing process is possible by pressing the emergency-stop button. After resetting emergency stop situation, re-press ensuring that press head is located in the same position on the fitting. When press tool completes the press cycle remove from sling. Release the pressing sling by depressing the arresting latch button. Push out the locking pins from opposite side and remove press sling from fitting.



Lubrication of press jaws and slings is highly recommended for seamless installation and tool longevity.

# PRODUCT RANGE

☎ 1300 85 45 20



- 316L Stainless Steel
- Press connection
- 40 bar plus pressure rating
- 15-108mm
- Watermark & ActivFire® Certification

**Tubepress®**



- 316L Stainless Steel
- Press connection
- 25 Bar Pressure Rating
- 140 – 168mm
- Watermark & ActivFire® Certification

**impress®**  
LARGE BORE



- 304L Stainless Steel
- Economic alternative to copper pipe
- Press connection
- Standard pressure ratings
- 15mm – 108mm
- ActivFire® Certification

**EXPRESS®**



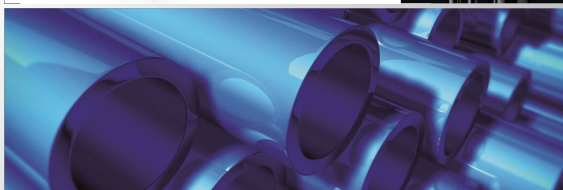
- Pressfit Conduit System
- 316L Stainless Steel
- 15mm-108mm

**Epress®**



- Stainless Steel Compression Fittings
- Double ferrule compression
- Unique perfect tightness indicator
- Seamless BA Tubing

**VIS-LOK®**



- Compressed Air Pipe System
  - PE100 polyethylene
  - PN16 Compressed Air & PN25 Fluids
  - Corrosion Free, Food Grade
  - 20mm – 160mm
- (larger sizes available on request)

**blutube®**



**STAINLESS STEEL  
THREADED  
FITTINGS  
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