SUREPRESS

Pressfit Tube System
Stainless Steel & Carbon Steel

Product & Technical Manual 4.2

Index

SUREPRESS

Introduction

1.1 Introduction

SurePress is an engineered stainless-steel press-fit connection solution which offers complete peace of mind along with a design life of over 50 years. Combine this with 25 years of market experience and SurePress is your complete stainless solution for potable water, fuel, gas, compressed air and various other suitable applications*.

Fast Safe & Easy to use

- Heat Free, Flame Free Joints
- No hot works permit required
- Speed of installation
- Faster than traditional methods
- No need to drain water from the system
- No post treatment required

Reliable

- Consistent uniform joint, every time
- Leak path detection, if not pressed the joint will purposely leak
- Visual press indicators to identify non-pressed joints
- Standard 16 Bar/232psi pressure rating. Up to 40 Bar/580psi available on approved applications

Quality 316L Stainless Steel Tube

- Low Carbon (0.013%) plus 2.3 % Molybdenum content for higher corrosion resistance
- 316L material to EN 1.4404
- Range 15-168.3mm
- Compliant to AS 5200

Quality 316L Stainless Steel Press Fittings

- AS3688 compliant
- 316L material to EN 1.4404

Quality Tooling Options

- German Engineered with a lightweight ergonomic design
- 18V Li-ion battery
- Smart technology including real-time information via Bluetooth
- Service intervals of up to 40,000 cycles

*Refer to SurePress for Terms & Conditions.

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Standards & Approvals

304 & 316 Stainless Steel Tube

WaterMark

DVGW CERT

WRAS APPROVED PRODUCT

FM APPROVED

kiwa

aardgas

ÉMI ÉPÍTÉSÜGYI MINŐSÉGELLENŐRZŐ INNOVÁCIÓS NKFT.

Technical specifications

Code 316 Tube	Code 304 Tube	Dia (mm)	Nom.ID (mm)	Length (m)	Wall thickness (mm)	Weight Kg/M
TIDTS.015600	TI4TS.015600	15	13	6m	1.0	0.35
TIDTS.022600	TI4TS.022600	22	20	6m	1.2	0.6
TIDTS.028600	TI4TS.028600	28	25	6m	1.2	0.8
TIDTS.035600	TI4TS.035600	35	32	6m	1.5	1.25
TIDTS.042600	TI4TS.042600	42	39	6m	1.5	1.5
TIDTS.054600	TI4TS.054600	54	51	6m	1.5	2.0
TIDTS.076600	TI4TS.076600	76.1	72	6m	2.0	3.7
TIDTS.089600	TI4TS.089600	88.9	85	6m	2.0	4.35
TIDTS.108600	TI4TS.108600	108	104	6m	2.0	5.3
TIDTS.139600	TI4TS.139600	139.7	135	6m	2.0	
TIDTS.168600	TI4TS.168600	168.3	164	6m	2.0	8.328

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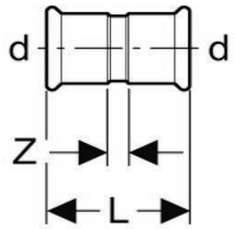
M Profile Fittings

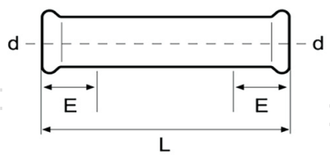
Coupling



Technical specifications

CODE	SIZE	D	L	Z
MIPCO.000015	15	15	53	13
MIPCO.000022	22	22	53	13
MIPCO.000028	28	28	59	13
MIPCO.000035	35	35	65	13
MIPCO.000042	42	42	76	16
MIPCO.000054	54	54	86	17
MIPCO.000076	76	76.1	140	30
MIPCO.000089	89	88.9	164	38
MIPCO.000108	108	108	195	43
MIPCO.000139	139	139.7	280	60
MIPCO.000168	168	168.3	309	72

Slip Coupling



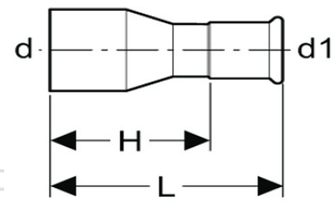
Technical specifications

CODE	SIZE	D	L
MIPCS.000015	15	15	80
MIPCS.000022	22	22	84
MIPCS.000028	28	28	91
MIPCS.000035	35	35	102
MIPCS.000042	42	42	120
MIPCS.000054	54	54	140
MIPCS.000076	76	76.1	230
MIPCS.000089	89	88.9	260
MIPCS.000108	108	108	310
MIPCS.000139	139	139.7	300
MIPCS.000168	168	168.3	390

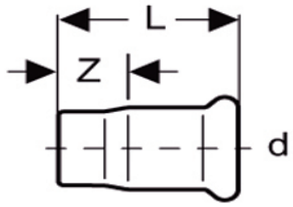
Technical specifications

CODE	SIZE	D	D1	L	Z
MISRO.022015	22 x 15	22	15	63	43
MISRO.028015	28 x 15	28	15	69	22
MISRO.028022	28 x 22	28	22	72	51
MISRO.035015	35 x 15	35	15	79	58
MISRO.035022	35 x 22	35	22	79	58
MISRO.035028	35 x 28	35	28	78	55
MISRO.042015	42 x 15	42	15	92	71
MISRO.042022	42 x 22	42	22	92	71
MISRO.042028	42 x 28	42	28	89	66
MISRO.042035	42 x 35	42	35	86	60
MISRO.054015	54 x 15	54	15	112	91
MISRO.054022	54 x 22	54	22	112	91
MISRO.054028	54 x 28	54	28	106	83
MISRO.054035	54 x 35	54	35	104	78
MISRO.054042	54 x 42	54	42	102	72
MISRO.076042	76 x 42	76.1	42	129	44
MISRO.076054	76 x 54	76.1	54	129	33
MISRO.089054	89 x 54	88.9	54	144	46
MISRO.089076	89 x 76	88.9	76.1	145	27
MISRO.108054	108 x 54	108	54	185	54
MISRO.108076	108 x 76	108	76.1	185	54
MISRO.108089	108 x 89	108	88.9	178	39
MISRO.139076	139 x 76	139.7	76.1	350	290
MISRO.139108	139 x 108	139.7	108	320	250
MISRO.168108	168 x 108	168	108	380	80

Spigot to Pressfit Reducer



End Cap



Technical specifications

CODE	SIZE	D	L
MIPEC.000015	15	15	29
MIPEC.000022	22	22	30
MIPEC.000028	28	28	30
MIPEC.000035	35	35	34
MIPEC.000042	42	42	45
MIPEC.000054	54	54	49
MIPEC.000076	76	76.1	76
MIPEC.000089	89	88.9	85
MIPEC.000108	108	108	97
MIPEC.000139	139	139.7	130
MIPEC.000168	168	168.3	150

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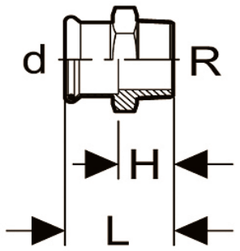
M Profile Fittings

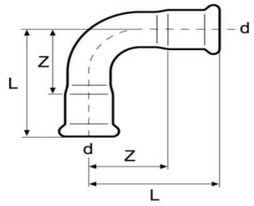
Male Adaptor



Technical specifications

CODE	SIZE	D	L	Z	R
MIPMA.015010	15 x 3/8	15	35	17	3/8 in
MIPMA.015015	15 x 1/2	15	39	19	1/2 in
MIPMA.015020	15 x 3/4	15	40	20	3/4 in
MIPMA.022015	22 x 1/2	22	44	23	1/2 in
MIPMA.022020	22 x 3/4	22	44	23	3/4 in
MIPMA.022025	22 x 1	22	44	23	1 in
MIPMA.028015	28 x 1/2	28	N/A	N/A	1/2 in
MIPMA.028020	28 x 3/4	28	43	20	3/4 in
MIPMA.028025	28 x 1	28	44	21	1 in
MIPMA.035025	35 x 1	35	49	24	1 in
MIPMA.035032	35 x 1 1/4	35	55	29.5	1 1/4 in
MIPMA.042032	42 x 1 1/4	42	78	48	1 1/4 in
MIPMA.042040	42 x 1 1/2	42	78	48	1 1/2 in
MIPMA.054040	54 x 1 1/2	54	90.5	55.5	1 1/2 in
MIPMA.054050	54 x 2	54	90.5	55.5	2 in
MIPMA.076065	76 x 2 1/2	76.1	95	40	2 1/2 in
MIPMA.076080	76 x 3	76.1	115	60	3 in
MIPMA.089080	89 x 3	88.9	107	44	3 in
MIPMA.108100	108 x 4	108	160	75	4 in

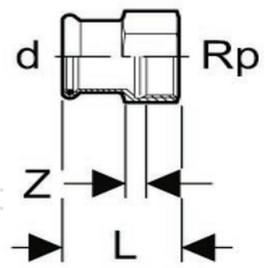
Elbow 90°



Technical specifications

CODE	SIZE	D	L	Z
MIPE9.000015	15	15	39	19
MIPE9.000022	22	22	48	27
MIPE9.000028	28	28	57	34
MIPE9.000035	35	35	76	50
MIPE9.000042	42	42	80	50
MIPE9.000054	54	54	100	65
MIPE9.000076	76	76.1	150	95
MIPE9.000089	89	88.9	173	110
MIPE9.000108	108	108	215	139
MIPE9.000139	139	139.7	314	216
MIPE9.000168	168	168.3	346	231

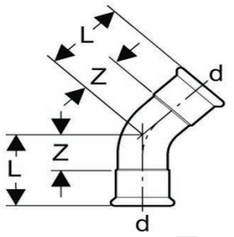
Female Adaptor



Technical specifications

CODE	SIZE	D	L	Z	Rp
MIPFA.015015	15 x 1/2	15	41	9	1/2 in
MIPFA.015020	15 x 3/4	15	40	7	3/4 in
MIPFA.022015	22 x 1/2	22	43	10	1/2 in
MIPFA.022020	22 x 3/4	22	43	9	3/4 in
MIPFA.022025	22 x 1	22	50	10	1 in
MIPFA.028020	28 x 3/4	28	44	8	3/4 in
MIPFA.028025	28 x 1	28	50	8	1 in
MIPFA.035025	35 x 1	35	54	9	1 in
MIPFA.035032	35 x 1 1/4	35	56	9	1 1/4 in
MIPFA.042032	42 x 1 1/4	42	76	21	1 1/4 in
MIPFA.042040	42 x 1 1/2	42	76	21	1 1/2 in
MIPFA.054040	54 x 1 1/2	54	87	22	1 1/2 in
MIPFA.054050	54 x 2	54	87	22	2 in
MIPFA.076080	76 x 3	76.1	119	55	3 in

Elbow 45°



Technical specifications

CODE	SIZE	D	L	Z
MIPE4.000015	15	15	36	16
MIPE4.000022	22	22	42	21
MIPE4.000028	28	28	43	20
MIPE4.000035	35	35	56	30
MIPE4.000042	42	42	62	32
MIPE4.000054	54	54	62	27
MIPE4.000076	76	76.1	102	47
MIPE4.000089	89	88.9	117	54
MIPE4.000108	108	108	139	63
MIPE4.000139	139	139.7	204	105
MIPE4.000168	168	168.3	230	105

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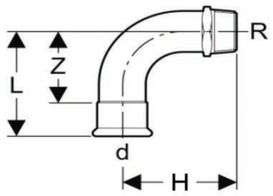
M Profile Fittings

Elbow 90° Male



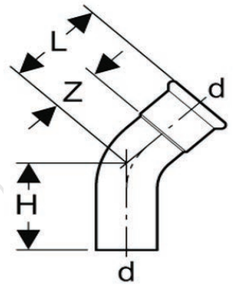
Technical specifications

CODE	SIZE	D	L	L1	Z	R
MIPM9.015015	15 x 1/2	15	41	48	21	1/2 in
MIPM9.022020	22 x 3/4	22	48	60	27	3/4 in
MIPM9.028025	28 X 1	28	57	67	34	1 in
MIPM9.035032	35 x 1 1/4	35	76	88	50	1 1/4 in
MIPM9.042040	42 x 1 1/2	42	80	88	50	1 1/2 in
MIPM9.054050	54 X 2	54	100	106	65	2 in

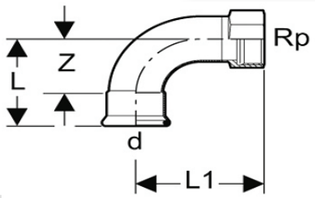
Elbow Spigot 45°

Technical specifications

CODE	SIZE	D	L	L1	Z
MISE4.000015	15	15	36	42	16
MISE4.000022	22	22	42	52	21
MISE4.000028	28	28	43	49	20
MISE4.000035	35	35	56	62	30
MISE4.000042	42	42	62	69	32
MISE4.000054	54	54	62	69	27
MISE4.000076	76	76.1	102	110	47
MISE4.000089	89	88.9	117	128	54
MISE4.000108	108	108	139	160	63
MISE4.000139	139	139.7	210	220	110
MISE4.000168	168	168	240	240	130



Elbow 90° Female



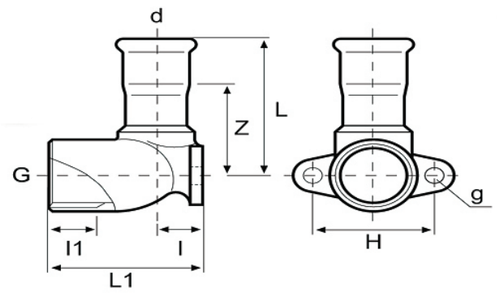
Technical specifications

CODE	SIZE	D	L	L1	Z	Z1	Rp
MIPF9.015015	15 x 1/2	15	41	44	21	29	1/2 in
MIPF9.022020	22 x 3/4	22	48	56	27	39	3/4 in
MIPF9.028025	28 X 1	28	57	67	34	44	1 in
MIPF9.035032	35 x 1 1/4	35	76	86	50	61	1 1/4 in
MIPF9.042040	42 x 1 1/2	42	N/A	N/A	N/A	N/A	1 1/2 in
MIPF9.054050	54 x 2	54	N/A	N/A	N/A	N/A	2 in

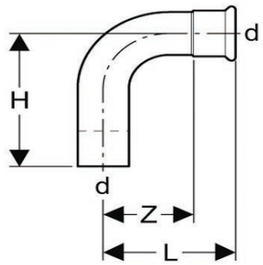
Wallplate Elbow Female

Technical specifications

CODE	SIZE	D	L	L1	Z	Z1	Rp
MIPEW.015015	15 x 1/2	15	53	48	33	14	1/2 in
MIPEW.022020	22 x 3/4	22	59	51	38	18	3/4 in



Elbow Spigot 90°



Technical specifications

CODE	SIZE	D	L	L1	Z
MISE9.000015	15	15	39.3	45	19
MISE9.000022	22	22	48	54	27
MISE9.000028	28	28	57	68	34
MISE9.000035	35	35	76	79	50
MISE9.000042	42	42	80	87	50
MISE9.000054	54	54	100	107	65
MISE9.000076	76	76.1	150	158	95
MISE9.000089	89	88.9	173	191	110
MISE9.000108	108	108	215	238	139
MISE9.000139	139	139.7	315	325	220
MISE9.000168	168	168	340	320	230

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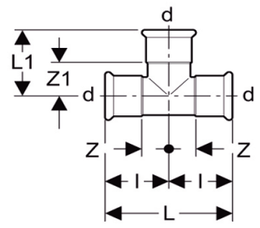
M Profile Fittings

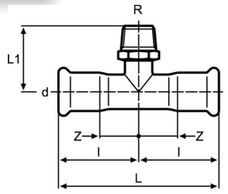
Tee



Technical specifications

CODE	SIZE	D	L	L1	Z	Z1
MIPTE.000015	15	15	64	41	12	21
MIPTE.000022	22	22	74	46	16	25
MIPTE.000028	28	28	84	51	19	28
MIPTE.000035	35	35	100	57	24	31
MIPTE.000042	42	42	114	65	27	35
MIPTE.000054	54	54	138	75	34	40
MIPTE.000076	76	76.1	230	109	60	54
MIPTE.000089	89	88.9	260	125	67	62
MIPTE.000108	108	108	310	146	79	70
MIPTE.000139	139	139.7	394		198	
MIPTE.000168	168	168.3	520	243.6	118	125.1

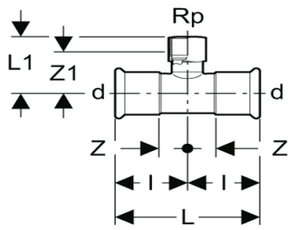
Male Centred Tee



Technical specifications

SIZE	CODE	d	Nominal flange size	D	P	L	T
MIPTM.015015	15-½ -15	74	38	16	15	37	75
MIPTM.022020	22-¾-22	82	43	18	17	41	105
MIPTM.028025	28-1-28	92	50	22	21	46	130
MIPTM.035032	35-1¼-35	102	56	24	28	51	170

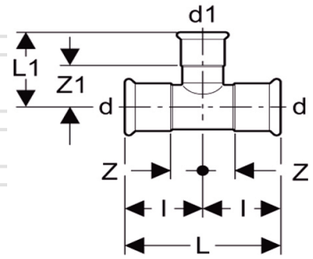
Female Thread Tee



Technical specifications

CODE	SIZE	D	L	L1	Z	Z1	R
MIPTF.015015	15 x ½	15	64	37	12	22	½ in
MIPTF.022015	22 x ½	22	74	39	16	24	½ in
MIPTF.022020	22 x ¾	22	74	40	16	24	¾ in
MIPTF.028015	28 x ½	28	84	42	19	27	½ in
MIPTF.028020	28 x ¾	28	84	43	19	27	¾ in
MIPTF.028025	28 x 1	28	84	44	19	27	1 in
MIPTF.035015	35 x ½	35	100	46	25	31	½ in
MIPTF.035020	35 x ¾	35	100	47	25	31	¾ in
MIPTF.035032	35 x 1¼	35	100	48	25	31	1¼ in
MIPTF.042015	42 x ½	42	114	49	27	34	½ in
MIPTF.042020	42 x ¾	42	114	50	27	34	¾ in
MIPTF.042040	42 x 1½	42	114	51	27	34	1½ in
MIPTF.054015	54 x ½	54	138	55	35	40	½ in
MIPTF.054020	54 x ¾	54	138	56	35	40	¾ in
MIPTF.054050	54 x 2	54	138	57	35	40	2 in
MIPTF.076020	76 x ¾	76.1	230	52	60	67	¾ in
MIPTF.076050	76 x 2	76	230	65	60	67	2 in
MIPTF.089020	89 x ¾	88.9	260	59	67	74	¾ in
MIPTF.089050	89 x 2	88.9	260	72	67	74	2 in
MIPTF.108020	108 x ¾	108	310	69	79	84	¾ in
MIPTF.108050	108 x 2	108	310	82	79	84	2 in

Reducing Tee



Technical specifications

CODE	SIZE	D	D1	L	L1	Z	Z1
MIPTR.022015	22 x 15	22	15	74	44	16	24
MIPTR.028015	28 x 15	28	15	84	47	19	27
MIPTR.028022	28 x 22	28	22	84	49	19	28
MIPTR.035015	35 x 15	35	15	100	51	25	32
MIPTR.035022	35 x 22	35	22	100	53	25	32
MIPTR.035028	35 x 28	35	28	100	55	25	32
MIPTR.042015	42 x 15	42	15	114	54	27	35
MIPTR.042022	42 x 22	42	22	114	56	27	35
MIPTR.042028	42 x 28	42	28	114	58	27	35
MIPTR.042035	42 x 35	42	35	114	61	27	36
MIPTR.054015	54 x 15	54	15	138	59	35	41
MIPTR.054022	54 x 22	54	22	138	62	35	41
MIPTR.054028	54 x 28	54	28	138	64	35	41
MIPTR.054035	54 x 35	54	35	138	67	35	42
MIPTR.054042	54 x 42	54	42	138	71	35	41
MIPTR.076022	76 x 22	76.1	22	230	74	60	53
MIPTR.076028	76 x 28	76.1	28	230	76	60	53
MIPTR.076035	76 x 35	76.1	35	230	76	60	50
MIPTR.076042	76 x 42	76.1	42	230	80	60	50
MIPTR.076054	76 x 54	76.1	54	230	86	60	51
MIPTR.089022	89 x 22	88.9	22	260	85	67	58
MIPTR.089028	89 x 28	88.9	28	260	87	67	58
MIPTR.089035	89 x 35	88.9	35	260	89	67	58
MIPTR.089042	89 x 42	88.9	42	260	91	67	58
MIPTR.089054	89 x 54	88.9	54	260	93	67	58
MIPTR.089076	89 x 76	88.9	76.1	260	116	67	61
MIPTR.108022	108 x 22	108	22	310	95	79	68
MIPTR.108028	108 x 28	108	28	310	97	79	68
MIPTR.108035	180 x 35	108	35	310	99	79	68
MIPTR.108042	180 x 42	108	42	310	101	79	68
MIPTR.108054	108 x 54	108	54	310	103	79	68
MIPTR.108076	108 x 76	108	76.1	310	126	79	71
MIPTR.108089	108 x 89	108	88.9	310	135	79	72
MIPTR.139076	139 x 76	139.7	76.1	394		198	
MIPTR.139108	139 x 108	139.7	108	394		198	
MIPTR.168035	168 x 35	168	35	520	144	118	117
MIPTR.168042	168 x 42	168	42	520	154	118	122
MIPTR.168054	168 x 54	168	54	520	169	188	132
MIPTR.168076	168 x 76	168	76.1	520	160	118	105.4
MIPTR.168108	168 x 108	168	108	520	186	118	114.7

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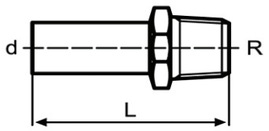
M Profile Fittings

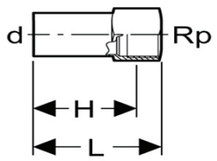
Spigot Adaptor Male



Technical specifications

CODE	SIZE	D	L	Z	R
SISTM.015015	15 x 1/2	15	57	32	1/2 in
SISTM.022020	22 x 3/4	22	62	38	3/4 in
SISTM.028025	28 x 1	28	75	39	1 in
SISTM.035032	35 x 1 1/4	35	80	80	1 1/4 in
SISTM.042040	42 x 1 1/2	42	83	80	1 1/2 in
SISTM.054050	54 x 2	54	102	85	2 in

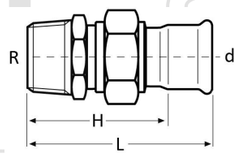
Spigot Adaptor Female



Technical specifications

CODE	SIZE	D	L	Z	R
SISTF.015015	15 x 1/2	15	53	32	1/2 in
SISTF.022020	22 x 3/4	22	60	38	3/4 in
SISTF.028025	28 x 1	28	60	39	1 in
SISTF.035032	35 x 1 1/4	35	110	80	1 1/4 in
SISTF.042040	42 x 1 1/2	42	110	80	1 1/2 in
SISTF.054050	54 x 2	54	120	85	2 in

Union Male



Technical specifications

CODE	SIZE	D	L	Z	R
MIPMU.015015	15 x 1/2	15	72	20	1/2 in
MIPMU.022020	22 x 3/4	22	75	21	3/4 in
MIPMU.028025	28 x 1	28	82	23	1 in
MIPMU.035032	35 x 1 1/4	35	89	26	1 1/4 in
MIPMU.042040	42 x 1 1/2	42	93	30	1 1/2 in
MIPMU.054050	54 x 2	54	109	35	2 in

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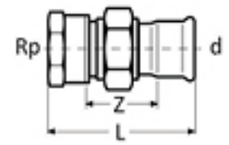
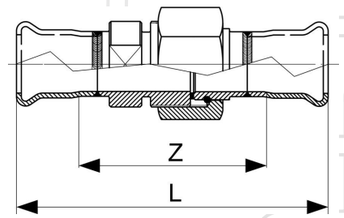
Union Female



Technical specifications

CODE	SIZE	D	L	Z	R
MIPFU.015015	15 x 1/2	15	73	40	1/2 in
MIPFU.022020	22 x 3/4	22	76	40	3/4 in
MIPFU.028025	28 x 1	28	83	43	1 in
MIPFU.035032	35 x 1 1/4	35	93	49	1 1/4 in
MIPFU.042040	42 x 1 1/2	42	96	47	1 1/2 in
MIPFU.054050	54 x 2	54	113	54	2 in

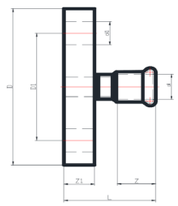
Pipe Barrel Union



Technical specifications

CODE	D-RP	L	Z	Weight gram
MIPPU.000015	15	97	55	154
MIPPU.000022	22	105	59	215
MIPPU.000028	28	111	63	334
MIPPU.000035	35	124	70	521
MIPPU.000042	42	134	70	620
MIPPU.000054	54	144	70	940

Adaptor Flange



Technical specifications

CODE	SIZE	d	Nominal flange size	D	P	L	T
MIFAE.015015	1/2	15	15	95	67	30	6
MIFAE.022020	3/4	22	20	102	73	32	6
MIFAE.028025	1	28	25	114	83	36	7
MIFAE.035032	1 1/4	35	32	121	87	41	8
MIFAE.042040	1 1/2	42	40	133	98	46	9
MIFAE.054050	2	54	50	152	114	50	10
MIFAE.076080	3	76.1	80	185	146	77	11
MIFAE.089080	3	88.9	80	185	146	91	11
MIFAE.108100	4	108	100	215	178	107	13
MIFAE.139125	5	139.7	125			138	
MIFAE.168150	6	168	150	285		163	28

ANSI 150, DIN Flanges and Gaskets are also available.

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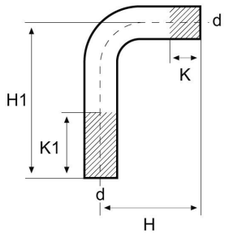
M Profile Fittings

Pipe Bend 90°



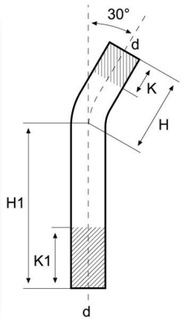
Technical specifications

CODE	d	H1	H	K	K1	Weight gram
SISB9.000015	15	120	70	22	72	59
SISB9.000022	22	120	70	9	59	102
SISB9.000028	28	125	97	7	47	153
SISB9.000035	35	200	120	30	110	183
SISB9.000042	42	250	160	44	144	565
SISB9.000054	54	305	200	65	165	868
SISB9.000076	76.1	250	250	62	62	1,752
SISB9.000089	88.9	291	291	90	90	2,532
SISB9.000108	108	364	364	45	45	3,604

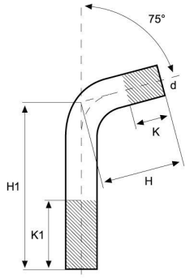
Pipe Bend 30°

Technical specifications

CODE	d	H1	H	K	K1	Weight gram
SISB3.000015	15	122	60	21	83	76
SISB3.000022	22	124	50	6	80	110
SISB3.000028	28	130	54	7	47	144
SISB3.000035	35	218	80	30	110	382
SISB3.000042	42	274	98	44	144	560
SISB3.000054	54	324	137	65	165	905
SISB3.000076	76.1	200	202	66	66	1,410
SISB3.000089	88.9	262	264	80	80	2,183
SISB3.000108	108	259	272	95	95	2,622



Pipe Bend 75°



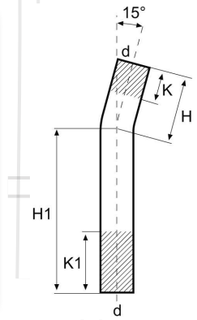
Technical specifications

CODE	d	H1	H	K	K1	Weight gram
SISB7.000015	15	117	66	22	73	77
SISB7.000022	22	118	64	9	63	114
SISB7.000028	28	114	71	7	50	150
SISB7.000035	35	200	110	26	119	393
SISB7.000042	42	251	137	44	158	595
SISB7.000054	54	305	178	60	187	960
SISB7.000076	76.1	240	240	62	62	1,682
SISB7.000089	88.9	280	280	90	90	2,436
SISB7.000108	108	345	345	60	60	3,416

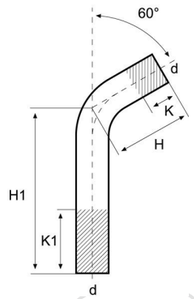
Pipe Bend 15°

Technical specifications

CODE	d	H1	H	K	K1	Weight gram
SISB1.000015	15	122	60	21	83	76
SISB1.000022	22	124	50	7	81	110
SISB1.000028	28	136	45	7	47	146
SISB1.000035	35	234	62	30	110	381
SISB1.000042	42	276	94	41	144	558
SISB1.000054	54	337	117	65	165	869
SISB1.000076	76.1	230	226	65	65	1,607
SISB1.000089	88.9	260	240	80	80	2,109
SISB1.000108	108	291	222	95	95	2,546



Pipe Bend 60°



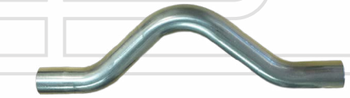
Technical specifications

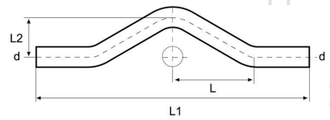
CODE	d	H1	H	K	K1	Weight gram
SISB6.000015	15	122	60	21	83	76
SISB6.000022	22	118	60	5	63	112
SISB6.000028	28	116	71	7	47	140
SISB6.000035	35	226	101	30	110	383
SISB6.000042	42	251	124	44	145	564
SISB6.000054	54	308	162	65	165	889
SISB6.000076	76.1	219	223	70	70	1,479
SISB6.000089	88.9	250	257	80	80	1,996
SISB6.000108	108	288	298	95	95	2,780

Pipe Bridge

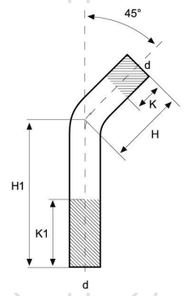
Technical specifications

CODE	d	H1	H	K	K1	Weight gram
SISPB.000015	15	202	38	65	74	74
SISPB.000022	22	233	40	68	158	158
SISPB.000028	28	303	64	93	258	258





Pipe Bend 45°



Technical specifications

CODE	d	H1	H	K	K1	Weight gram
SISB4.000015	15	120	62	19	77	76
SISB4.000022	22	120	56	7	71	111
SISB4.000028	28	122	58	2	66	146
SISB4.000035	35	206	94	20	132	380
SISB4.000042	42	262	114	1	149	576
SISB4.000054	54	321	146	37	212	928
SISB4.000076	76.1	225	225	69	69	1,577
SISB4.000089	88.9	267	267	103	103	2,323
SISB4.000108	108	293	293	66	66	2,901

Other angles and sizes for all products on page 15 - 16 can be made to order.
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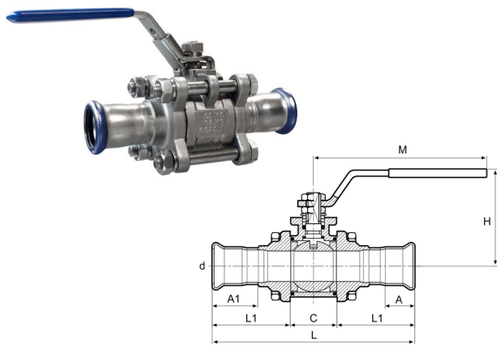
M Profile Fittings

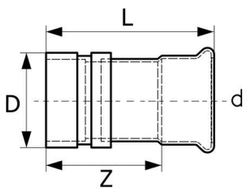
3 Piece Pressfit Ball Valve



Technical specifications

CODE	d	L	L1	C	A	M	H	Weight gram
MIPBV.000015	15	118	48	22	20	105	57	454
MIPBV.000022	22	133	51	31	21	110	67	860
MIPBV.000028	28	147.9	55	37.9	24	130	85	1,054
MIPBV.000035	35	177	65	47	27	130	85	1,922
MIPBV.000042	42	205	74	57	32	160	100	2,584
MIPBV.000054	54	228	80	68	38	160	110	3,500
MIPBV.000076	76.1	316	115	86	55	235	130	9,180
MIPBV.000089	88.9	346	124	98	64	245	140	12,980
MIPBV.000108	108	432	153	126	78	330	170	20,240

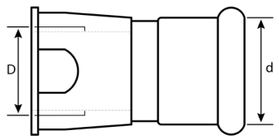
Roll Groove Adaptor



Technical specifications

CODE	d-D	L	Z	Weight gram
MIPRG.028025	28 x 33.7	87	63	171
MIPRG.035032	35 x 42.4	94.5	67.5	239
MIPRG.042040	42 x 48.3	105.5	73.5	298
MIPRG.054050	54 x 60.3	124	87	429
MIPRG.076065	76.1 x 76.1	150	95	986
MIPRG.089080	88.9 x 88.9	165.5	102.5	1,229
MIPRG.108100	108 x 114.4	184	107	1,393

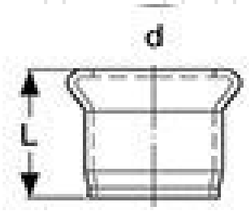
Female Adaptor
(with Metric Thread to suit electrical conduit)



Technical specifications

CODE	SIZE	D	d
E-MIPFA.022M20	22 x 20	20	22
E-MIPFA.028M25	28 x 25	25	28
E-MIPFA.035M32	35 x 32	32	35

Weld Joint

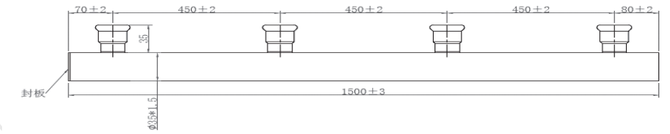


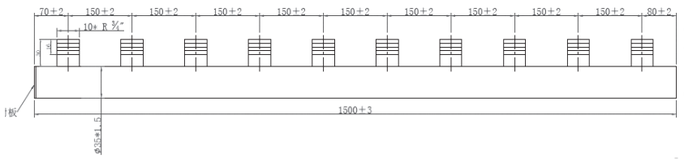
Technical specifications

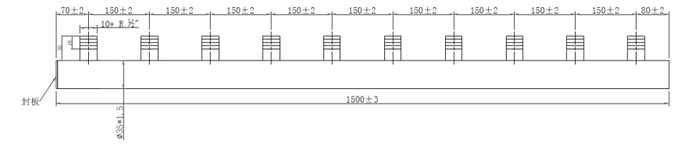
CODE	d	L	Weight gram
MIPWJ.000015	15	25	17
MIPWJ.000022	22	27	30
MIPWJ.000028	28	30	37
MIPWJ.000035	35	34	51
MIPWJ.000042	42	38	67
MIPWJ.000054	54	44	100
MIPWJ.000076	76	68	290
MIPWJ.000089	89	78	390
MIPWJ.000108	108	94	595
MIPWJ.000139	139	160	1,200
MIPWJ.000168	168	150	1,900

Technical specifications

CODE	DESCRIPTION	D	L	Z	R
SIMMJ.028015	28mm x 1.5m long 10 x ½ in. BSPM 316SS	28	1500	150	½"
SIMMJ.028020	28mm 1.5m long 10 x 3/4 in. BSPM 316SS	28	1500	150	¾"
SIMMJ.035015	35mm 1.5m long 10 x 1/2 in. BSPM 316SS	35	1500	150	½"
SIMMJ.035020	35mm 1.5m long 10 x 3/4 in. BSPM 316SS	35	1500	150	¾"
SIMMJ.042015	42mm 1.5m long 10 x 1/2 in. BSPM 316SS	42	1500	150	½"
SIMMJ.042020	42mm 1.5m long 10 x 3/4 in. BSPM 316SS	42	1500	150	¾"
SGMPD.035022	35mm 1.8m long 4 x 22mm Gas M 316SS	35	1800	550	22







Prefabrifacted Manifold

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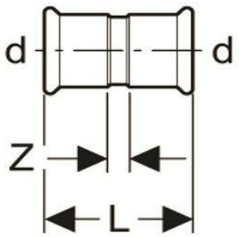
Carbon Steel

External/Internal Hot Galvanising

Technical specifications

Internal	External only	ext mm	thickness	length	Weight gram
TCCTI.015006	TCCTE.015006	15	1.2	6	408
TCCTI.022006	TCCTE.022006	22	1.5	6	758
TCCTI.028006	TCCTE.028006	28	1.5	6	980
TCCTI.035006	TCCTE.035006	35	1.5	6	1,239
TCCTI.042006	TCCTE.042006	42	1.5	6	1,498
TCCTI.054006	TCCTE.054006	54	1.5	6	1,942
TCCTI.076006	TCCTE.076006	76.1	2	6	3,655
TCCTI.089006	TCCTE.089006	88.9	2	6	4,286
TCCTI.108006	TCCTE.108006	108	2	6	5,228

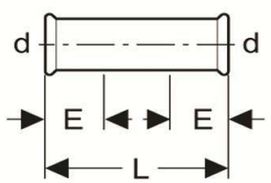
Coupling



Technical specifications

CODE	SIZE	D	L	Z
MSPCO.000015	15	15	52	10
MSPCO.000022	22	22	59	13
MSPCO.000028	28	28	61	13
MSPCO.000035	35	35	72	18
MSPCO.000042	42	42	79	15
MSPCO.000054	54	54	90	16
MSPCO.000076	76	76.1	142	32
MSPCO.000089	89	88.9	163	37
MSPCO.000108	108	108	192	38

Slip Coupling



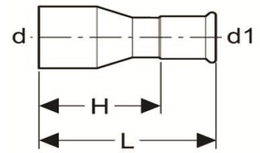
Technical specifications

CODE	D	L	Z	Weight gram
MSPCS.000015	15	75	24	51
MSPCS.000022	22	86	27	81
MSPCS.000028	28	92	28	112
MSPCS.000035	35	99	31	136
MSPCS.000042	42	119	35	203
MSPCS.000054	54	145	40	280
MSPCS.000076	76.1	230	60	875
MSPCS.000089	88.9	262	70	1,200
MSPCS.000108	108	304	80	1,705

Spigot to Pressfit Reducer

Technical specifications

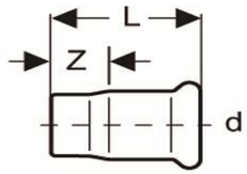
CODE	d-d1	L	H	Weight gram
MSSRO.022015	22 x 15	60	39	42
MSSRO.028015	28 x 15	81	60	62
MSSRO.028022	28 x 22	70	47	67
MSSRO.035015	35 x 15	84	63	84
MSSRO.035022	35 x 22	76	53	95
MSSRO.035028	35 x 28	74	48	87
MSSRO.042022	42 x 22	87	64	177
MSSRO.042028	42 x 28	100	176	128
MSSRO.042035	42 x 35	78	52	115
MSSRO.054022	54 x 22	110	88	185
MSSRO.054028	54 x 28	100	76	185
MSSRO.054035	54 x 35	129	102	206
MSSRO.054042	54 x 42	108	76	189
MSSRO.076042	76.1 x 42	151	119	425
MSSRO.076054	76.1 x 54	145	108	454
MSSRO.089054	88.9 x 54	157	120	591
MSSRO.089076	88.9 x 76.1	157	105	660
MSSRO.108054	108 x 54	204	167	880
MSSRO.108076	108 x 76.1	196	144	94
MSSRO.108089	108 x 88.9	192	133	962



End Cap

Technical specifications

CODE	d	L	Z	Weight gram
MSPEC.000015	15	38	17	27
MSPEC.000022	22	42	19	45
MSPEC.000028	28	46	22	62
MSPEC.000035	35	51	24	79
MSPEC.000042	42	59	27	123
MSPEC.000054	54	73	36	179
MSPEC.000076	76.1	95	40	361
MSPEC.000089	88.9	115	52	495
MSPEC.000108	108	130	53	707



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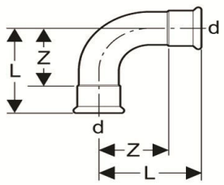
Carbon Steel

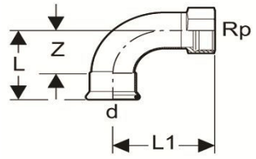
Elbow 90°



Technical specifications

CODE	d-d1	L	Z	Weight gram
MSPE9.000015	15	41	20	47
MSPE9.000022	22	49	26	78
MSPE9.000028	28	59	35	112
MSPE9.000035	35	72	45	175
MSPE9.000042	42	91	59	246
MSPE9.000054	54	110	73	395
MSPE9.000076	76.1	150	95	977
MSPE9.000089	88.9	174	111	1,324
MSPE9.000108	108	215	138	1,991

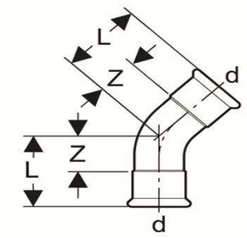
Elbow 90° Female



Technical specifications

CODE	d-R	L	H	Z	Weight gram
MSPF9.015010	15 x ⅜	41	44	20	60
MSPF9.015015	15 x ½	41	44	20	74
MSPF9.022020	22 x ¾	49	56	26	119
MSPF9.02801	28 x ½	59	64	35	97

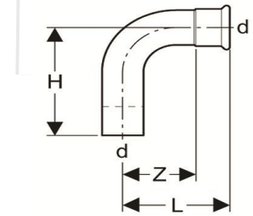
Elbow 45°



Technical specifications

CODE	d	L	Z	Weight gram
MSPE4.000015	15	30	9	39
MSPE4.000022	22	35	12	63
MSPE4.000028	28	41	17	90
MSPE4.000035	35	56	29	150
MSPE4.000042	42	63	31	201
MSPE4.000054	54	75	38	304
MSPE4.000076	76.1	98	43	800
MSPE4.000089	88.9	113	50	1,034
MSPE4.000108	108	138	61	1,550+

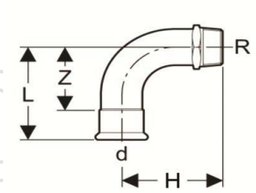
Elbow Spigot 90°



Technical specifications

CODE	d	L	H	Z	Weight gram
MSSE9.000015	15	41	49	20	47
MSSE9.000022	22	49	59	26	80
MSSE9.000028	28	59	69	35	113
MSSE9.000035	35	72	83	45	175
MSSE9.000042	42	91	96	59	250
MSSE9.000054	54	110	116	73	392
MSSE9.000076	76.1	150	166	95	991
MSSE9.000089	88.9	174	190	111	1,329
MSSE9.000108	108	215	230	138	1,988

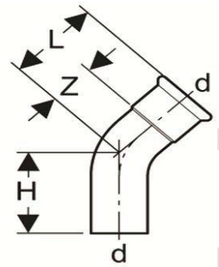
Elbow 90° Male



Technical specifications

CODE	d-R	L	H	Z	Weight gram
MSPM9.015010	15 x ⅜	41	39	20	54
MSPM9.015015	15 x ½	41	40	20	62
MSPM9.022020	22 x ¾	49	54	26	100
MSPM9.028025	28 x 1	59	68	35	180
MSPM9.035032	35 x 1 ¼	72	102	45	259
MSPM9.042040	42 x 1 ½	91	116	59	375
MSPM9.054050	54 x 2	110	142	73	670

Elbow Spigot 45°



Technical specifications

CODE	d	L	H	Z	Weight gram
MSSE4.000015	15	30	42	9	39
MSSE4.000022	22	35	47	12	66
MSSE4.000028	28	41	47	17	90
MSSE4.000035	35	36	66	29	153
MSSE4.000042	42	63	70	31	202
MSSE4.000054	54	75	82	38	316
MSSE4.000076	76.1	98	119	43	800
MSSE4.000089	88.9	113	130	50	1,054
MSSE4.000108	108	138	160	61	1,580

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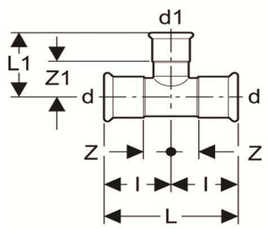
Carbon Steel

Reducing Tee



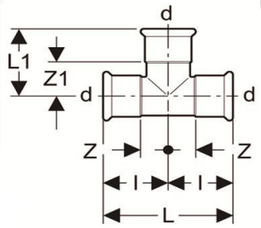
Technical specifications

CODE	d	L	L1	Z	Z1	I	Weight gram
MSPTR.022015	22 x 15 x 22	82	40	18	19	41	98
MSPTR.028015	28 x 15 x 28	92	42	22	21	46	126
MSPTR.028022	28 x 22 x 28	92	46	22	23	46	135
MSPTR.035015	35 x 15 x 35	102	45	24	24	51	159
MSPTR.035022	35 x 22 x 35	102	48	24	25	51	169
MSPTR.035028	35 x 28 x 35	102	50	24	25	51	178
MSPTR.042015	42 x 15 x 42	118	52	27	31	59	224
MSPTR.042022	42 x 22 x 42	118	54	27	31	59	233
MSPTR.042028	42 x 28 x 42	118	53	27	29	59	239
MSPTR.042035	42 x 35 x 42	118	57	27	30	59	254
MSPTR.054015	54 x 15 x 54	142	54	34	33	71	349
MSPTR.054022	54 x 22 x 54	142	56	34	33	71	360
MSPTR.054028	54 x 28 x 54	142	59	34	35	71	339
MSPTR.054035	54 x 35 x 54	142	64	34	37	71	350
MSPTR.054042	54 x 42 x 54	142	68	34	36	71	378
MSPTR.076022	76.1-22-76.1	232	68	61	45	116	942
MSPTR.076028	76.1 x 28 x 76.1	232	71	61	47	116	956
MSPTR.076035	76.1 x 35 x 76.1	232	75	61	48	116	968
MSPTR.076042	76.1 x 42 x 76.1	232	79	61	47	116	981
MSPTR.076054	76.1 x 54 x 76.1	232	80	61	43	116	1,050
MSPTR.089022	88.9 x 22 x 88.9	262	76	68	53	131	1,256
MSPTR.089028	88.9 x 28 x 88.9	262	75.5	68	51.5	131	1,244
MSPTR.089035	88.9 x 3 x 88.9	262	83	68	56.5	131	1,267
MSPTR.089042	88.9 x 42 x 88.9	262	85	68	53	131	1,271
MSPTR.089054	88.9 x 54 x 88.9	262	92.5	68	55.5	131	1,297
MSPTR.089076	88.9 x 76.1 x 88.9	262	128	68	73	131	1,500
MSPTR.108022	108 x 22 x 108	312	85	79	62	156	1,838
MSPTR.108028	108 x 28 x 108	312	87.5	79	63.5	156	1,939
MSPTR.108035	108 x 35 108	312	93.5	79	66	156	1,955
MSPTR.108042	108 x 42 x 108	312	96	79	64	156	1,886
MSPTR.108054	108 x 54 x 108	312	102	79	65	156	1,967
MSPTR.108076	108 x 76.1 x 108	312	125.2	79	70.2	156	2,147
MSPTR.108089	108 x 88.9 x 108	312	135	79	72	156	2,184

Tee

Technical specifications

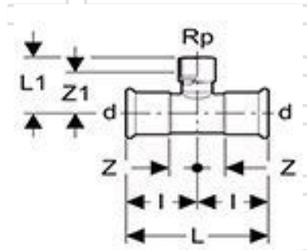
CODE	d	L	L1	Z	Z1	I	Weight gram
MSPTE.000015	15	74	36	16	15	37	67
MSPTE.000022	22	82	43	18	20	41	109
MSPTE.000028	28	92	46	22	22	46	144
MSPTE.000035	35	102	55	24	28	51	189
MSPTE.000042	42	118	60	27	28	59	270
MSPTE.000054	54	142	73	34	36	71	396
MSPTE.000076	76.1	232	121	61	66	116	1,150
MSPTE.000089	88.9	262	126	68	63	131	1,600
MSPTE.000108	108	312	152	79	75	156	2,319



Female Thread Tee

Technical specifications

CODE	d	L	L1	Z	Z1	I	Weight gram
MSPTF.015010	15 x ½ x 15	74	38	16	23	37	82
MSPTF.015015	22 x ½ x 22	82	42	18	30	41	113
MSPTF.015020	22 x ¾ x 22	82	43	18	30	41	120
MSPTF.022015	28 x ½ x 28	92	44	22	32	46	140
MSPTF.022020	28 x ¾ x 28	92	45	22	32	46	159
MSPTF.022025	35 x ½ x 35	102	48	24	36	51	176
MSPTF.028020	35 x ¾ x 35	102	48	24	35	51	191
MSPTF.028025	42 x ½ x 42	118	46	27	34	59	250
MSPTF.035032	42 x ¾ x 42	118	51	27	38	59	255
MSPTF.035040	54 x ½ x 54	142	58	34	46	74	333
MSPTF.042040	54 x ¾ x 54	142	59	34	46	74	350
MSPTF.054050	76.1 x ¾ x 76.1	232	69	61	56	116	950
MSPTF.076065	88.9 x ¾ x 88.9	262	76	68	63	131	1,240
MSPTF.089080	108 x ¾ x 108	312	86	79	73	156	1,830



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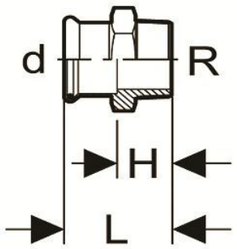
Carbon Steel

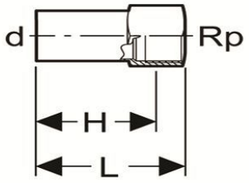
Adaptor with Male Thread



Technical specifications

CODE	d-R	L	H	Weight gram
MSPMA.015010	15 x ⅜	43	22	41
MSPMA.015015	15 x ½	43	22	55
MSPMA.015020	15 x ¾	44	23	87
MSPMA.022015	22 x ½	44	21	75
MSPMA.022020	22 x ¾	45	22	95
MSPMA.022025	22 x 1	47	24	154
MSPMA.028020	28 x ¾	47	23	101
MSPMA.028025	28 x 1	49	25	107
MSPMA.035032	35 x 1¼	54	27	169
MSPMA.035040	35 x 1½	54	27	172
MSPMA.042040	42 x 1½	58	26	226
MSPMA.054050	54 x 2	69	32	368
MSPMA.076065	76.1 x 2½	123	68	830
MSPMA.089080	88.9 x 3	134	71	1,160
MSPMA.108100	108 x 4	156	78	2,005

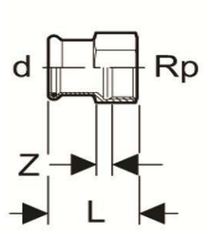
Spigot Adaptors Male



Technical specifications

CODE	d-R	H	Weight gram
SSSTF.015015	15 x ½	57	70
SSSTF.022015	22 x ½	57	77
SSSTF.022020	22 x ¾	59	105

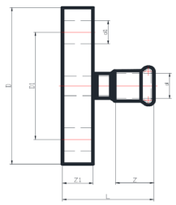
Adaptor with Female Thread



Technical specifications

CODE	d-Rp	L	Z	Weight gram
MSPFA.015010	15 x ¾	35	4	65
MSPFA.015015	15 x ½	37	4	70
MSPFA.015020	15 x ¾	38	4	71
MSPFA.022015	22 x ½	37	3	87
MSPFA.022020	22 x ¾	40	4	80
MSPFA.022025	22 x 1	43	4	114
MSPFA.028015	28 x ½	45	9	191
MSPFA.028020	28 x ¾	43	6	139
MSPFA.028025	28 x 1	45	5	119
MSPFA.035025	35 x 1	45	8	130
MSPFA.035032	35 x 1¼	73	25	300
MSPFA.042032	42 x 1½	75	20	270
MSPFA.054050	54-2	85	18	360

Adaptor Flange

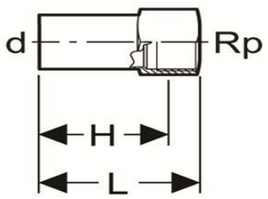


Technical specifications

CODE	SIZE	d	Nominal flange size	D	P	L	T
MSFAE.015015	$^1/_2$	15	15	95	67	30	6
MSFAE.022020	$^3/_4$	22	20	102	73	32	6
MSFAE.028025	1	28	25	114	83	36	7
MSFAE.035032	$1^1/_4$	35	32	121	87	41	8
MSFAE.042040	$1^1/_2$	42	40	133	98	46	9
MSFAE.054050	2	54	50	152	114	50	10
MSFAE.076080	3	76.1	80	185	146	77	11
MSFAE.089080	3	88.9	80	185	146	91	11
MSFAE.108100	4	108	100	215	178	107	13
MSFAE.168150		168	150				

ANSI 150, DIN Flanges and Gaskets are also available.

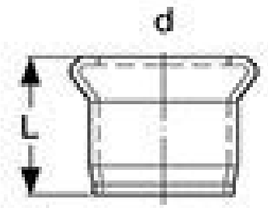
Spigot Adaptor Female



Technical specifications

CODE	d-Rp	L	Z	Weight gram
SSSTM.015010	15-¾	74	64	57
SSSTM.015015	15-½	61	49	60
SSSTM.022015	22-½	61	49	65
SSSTM.022020	22-¾	65	52	93

Welding Joint



Technical specifications

CODE	d	L	Weight gram
MSPWJ.00015	15	25	17
MSPWJ.00022	22	27	29
MSPWJ.00028	28	30	36
MSPWJ.00035	35	34	50
MSPWJ.00042	42	38	65
MSPWJ.00054	54	44	97
MSPWJ.00076	76.1	68	282
MSPWJ.00089	88.9	78	375
MSPWJ.000108	108	94	578

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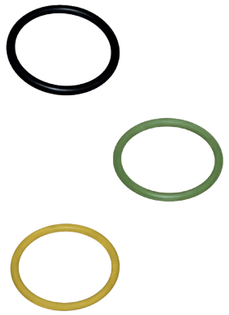
Tools & Accessories

Replacement O-Rings



Technical specifications

CODE FKM (green)	CODE HNBR (yellow)	CODE PTFE (Teflon)	PIPE SIZE
SFOFG.000015	SHOHY.000015	SPOPW.000015	15
SFOFG.000022	SHOHY.000022	SPOPW.000022	22
SFOFG.000028	SHOHY.000028	SPOPW.000028	28
SFOFG.000035	SHOHY.000035	SPOPW.000035	35
SFOFG.000042	SHOHY.000042	SPOPW.000042	42
SFOFG.000054	SHOHY.000054	SPOPW.000054	54
SFOFG.000076	SHOHY.000076	SPOPW.000076	76.1
SFOFG.000089	SHOHY.000089	SPOPW.000089	88.9
SFOFG.000108	SHOHY.000108	SPOPW.000108	108
SFOFG.000168	SHOHY.000168	SPOPW.000168	168.3

Bolted Clip Head Zinc Insulated

Technical specifications

CODE	PIPE SIZE	DESCRIPTION
HZIP.012015	15mm	Insulated Zinc Bolted Clip M10
HZIP.020025	22mm	Insulated Zinc Bolted Clip M10
HZIP.026028	28mm	Insulated Zinc Bolted Clip M10
HZIP.032035	35mm	Insulated Zinc Bolted Clip M10
HZIP.040042	42mm	Insulated Zinc Bolted Clip M10
HZIP.050054	54mm	Insulated Zinc Bolted Clip M10
HZIP.063067	76mm	Insulated Zinc Bolted Clip M10
HZIP.083091	89mm	Insulated Zinc Bolted Clip M10
HZIP.108110	108mm	Insulated Zinc Bolted Clip M10
HZIP.165168	168mm	Insulated Zinc Bolted Clip M11

Clip Head Stainless Steel

Technical specifications

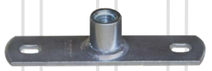
CODE	PIPE SIZE	DESCRIPTION
HUNP.000015	15mm	SS Clip Head w bolt
HUNP.000022	22mm	SS Clip Head w bolt
HUNP.000028	28mm	SS Clip Head w bolt
HUNP.000035	35mm	SS Clip Head w bolt
HUNP.000042	42mm	SS Clip Head w bolt
HUNP.000054	54mm	SS Clip Head w bolt
HUNP.000076	76mm	SS Clip Head w bolt
HUNP.000089	89mm	SS Clip Head w bolt
HUNP.0000108	108mm	SS Clip Head w bolt
HUNP.0000168	168mm	SS Clip Head w bolt
HTNP.015108	15-108mm	T-Bracket SS

Saddle Clamp

Technical specifications

CODE	PIPE SIZE	DESCRIPTION
SSSC15	15mm	SS Saddle Clamp
SSSC22	22mm	SS Saddle Clamp
SSSC28	28mm	SS Saddle Clamp
SSSC35	35mm	SS Saddle Clamp
SSSC42	42mm	SS Saddle Clamp
SSSC54	54mm	SS Saddle Clamp
SSSC76	76mm	SS Saddle Clamp
SSSC89	89mm	SS Saddle Clamp
SSSC108	108mm	SS Saddle Clamp
SSSC168	168mm	SS Saddle Clamp

Bolted Clip Head Stainless Steel



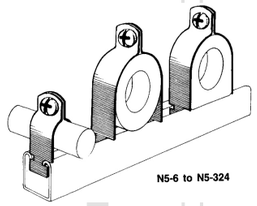
Technical specifications

CODE	PIPE SIZE	DESCRIPTION
SSHSBC15M10	15mm	SS Bolted Clip Head M10
SSHSBC22M10	22mm	SS Bolted Clip Head M10
SSHSBC28M10	28mm	SS Bolted Clip Head M10
SSHSBC35M10	35mm	SS Bolted Clip Head M10
SSHSBC42M10	42mm	SS Bolted Clip Head M10
SSHSBC54M10	54mm	SS Bolted Clip Head M10
SSHSBC76M10	76mm	SS Bolted Clip Head M10
SSHSBC89M10	89mm	SS Bolted Clip Head M10
SSHSBC108M10	108mm	SS Bolted Clip Head M10
SSHSBC168M10	168mm	SS Bolted Clip Head M10
SSHSCMP10	N/A	Wall Plate M10 SS

Channel Clip Stainless Steel & Powder Coated

Technical specifications

CODE	PIPE SIZE	DESCRIPTION
FM132.15	15mm	2 Piece Channel Clip
FM132.22	22mm	2 Piece Channel Clip
FM132.28	28mm	2 Piece Channel Clip
FM132.35	35mm	2 Piece Channel Clip
FM132.42	42mm	2 Piece Channel Clip
FM132.54	54mm	2 Piece Channel Clip
FM132.76	76mm	2 Piece Channel Clip
FM132.89	89mm	2 Piece Channel Clip
FM132.108	108mm	2 Piece Channel Clip
FM132.168	168mm	2 Piece Channel Clip



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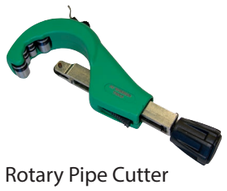
Tools & Accessories

Cutting Tools



Rotary Pipe Cutter

Pipe Cutter Machine

PEC220E

PEC170E

TR05

TRS05

Technical specifications

CODE	DESCRIPTION
PC35/SS	Rotary Pipe Cutter 15-35mm
PC76/SS	Rotary Pipe Cutter 15-76mm
PC140	Rotary Pipe Cutter 54-108mm
PCM22-108	Pipe Cutter Machine 22-108mm
PCM22-108-B	Pipe Cutter Machine 22-108mm (battery)
PEC170E	ExactCUT Pipe Cutting System 170E Kit
PEC220E	ExactCUT Pipe Cutting System 220E Kit
TR05	Internal & External Deburrer 15-54mm
TRS05	15-54mm Pipe Chamfering Tool Spindle
TI05	12-54mm Insertion Depth Tool

TI05

Cutting blades and wheels also available.

Technical specifications

DESCRIPTION	CODE
18V Li-ion 3.0AH	M18BX-1
18V Li-ion 4.0AH	M18B4
18V Li-ion 5.0AH	M18B5

Battery Options

Technical specifications

Select Jaw or Collar:		
ADAPTOR	DESCRIPTION	ITEM
28 - 54mm	28 - 54mm Adaptor	ZB203
76 - 108mm	76mm - 108mm step1 Adaptor	ZB221
COLLAR		
28mm	28mm M profile HP collar	HP 28
35mm	35mm M profile HP collar	HP 35
42mm	42mm M profile HP collar	HP 42
54mm	54mm M profile HP collar	HP 54
76mm	76mm M profile HP collar	HP 76.1
89mm	89mm M profile HP collar	HP88.9
108mm	108mm M profile HP collar	HP108

M Profile - High Pressure

Collars 28 to 108mm

Adaptors 42 to 108mm

Press Tools

Technical specifications

CODE	DESCRIPTION
ACO203BT	15-54mm Press Tool
ACO203XL	15-108mm Press Tool
ACO403BT	76-168mm Press Tool

ACO203BT

ACO203XL

ACO403BT

Technical specifications

	Select Jaw or Collar:	
CODE	JAW	DESCRIPTION
M15	15mm	15mm M profile jaw
M22	22mm	22mm M profile jaw
M28	28mm	28mm M profile jaw
M35	35mm	35mm M profile jaw
	ADAPTORS	
		Use With Collars
ZB203	42 - 54mm	42 - 54mm Adaptor
ZB221	76 - 108mm	76mm - 108mm step1 Adaptor
ZB222	108mm	108mm step2 Adaptor
	COLLAR	
M42	42mm	42mm M profile collar
M54	54mm	54mm M profile collar
M76.1	76mm	76mm M profile collar
M88.9	89mm	89mm M profile collar
M108	108mm	108mm M profile collar
M168.3	168mm	168mm M profile collar

M Profile - Standard Pressure

Jaws 15 to 54mm

Collars 42 to 54mm

Adaptors 42 to 54mm

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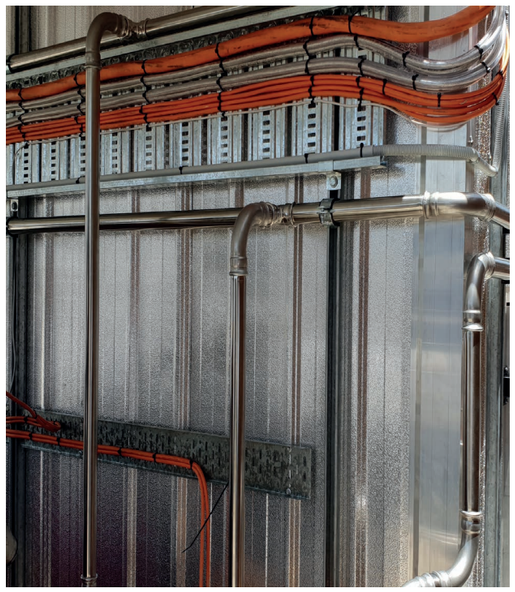
Product Specification & Information

3.1 SurePress Stainless Steel Tube

SurePress 316L (EN 1.4404) Stainless Steel tube is a longitudinally seam welded, thin walled pipe complying to EN 10088. The material is a high-alloy, austenitic, Cr-Ni-Mo steel with low carbon (0.013%) and high Molybdenum content of (2.3%) for an increased corrosion resistance. Fabricated to correspond to the requirements of EN 10312 and DVGW 541.The tube is compliant to AS5200.053 and has Watermark Approval. It is supplied in 6M lengths with an Outside Diameter range od 15mm-168.3mm. SurePress tube has a high polished finish which is aesthetically pleasing, hygienic and highly durable.



Technical Data

Nominal Diameter DN	d x s in mm	d_i in mm	A_i in mm^2	Mass in kg/m	Water Content l/m
15	18 x 1,0	16,0	176,7	0,426	0,1767
20	22 x 1,2	19,6	301,7	0,640	0,3017
25	28 x 1,2	25,6	514,7	0,806	0,5147
32	35 x 1,5	32,0	804,2	1,297	0,8042
40	42 x 1,5	39,0	1194,6	1,500	1,1946
50	54 x 1,5	51,0	2042,8	1,912	2,0428
65	76,1 x 2,0	72,1	4082,8	3,710	4,0828
80	88,9 x 2,0	84,9	5661,2	4,350	5,6612
100	108 x 2,0	104,0	8494,9	5,310	8,4949
150	168,3 x 2,0	164,3	21201,4	8,331	21,2014

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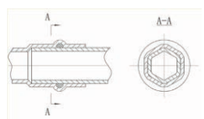
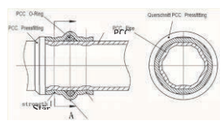
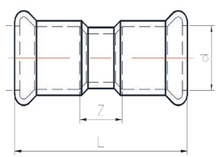
3.2 SurePress Stainless Steel Press Fittings

SurePress 316L Stainless Steel Fittings are manufactured from 316L (EN 1.4404) to AS3688 from high-alloy, austenitic, CR-Ni-Mo with low carbon (0.013%) and high Molybdenum content of (2.3%) for an increased corrosion resistance. Fabricated to correspond to the requirements of EN 10312 and DVGW 541. EPDM O-rings are factory fitted as standard with the option of FKM, HNBR & PTFE on request. SurePress can assist with choosing the best performing O-ring for your application.

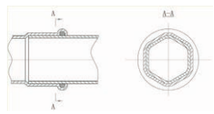
M Profile

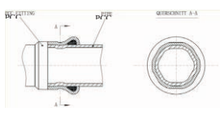


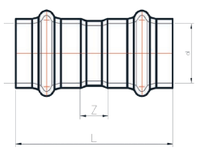




V Profile







DIAMETER IN MM	WALL THICKNESS IN MM
15 … 54mm	1,5
76,1 … 168mm	2

3.2.1 'M' versus 'V' Profile

The first prototype for press fittings was developed by Swedish Engineer Gunnar Larsson back in 1950. Subsequently in 1964 following the lodgement of a patent a German manufacturer began producing the product and introduced it to the European Market. Since that time there have been multiple advancements in press technology and its usage across a wide spectrum of applications.

Two different profiles, which is best? 'M' versus 'V' profiles are a frequent talking point in the market but, they both conform to the same standards and undergo the same rigorous testing procedures. Pressure ratings, tooling and media applications are also the samepress the different profiles. There is no advantage in regards flow rates nor is there any restriction in performance of either type. There is an argument that a second press after the O-ring is a benefit, but this is usually pushed by the manufacturers of that profile. The choice really is up to the contractor and it is for this reason that SurePress offer both 'M' and 'V" profiles.

There is one advantage to 'M' profile however, it is available from 15mm to 168.3mm whereas 'V' profile is only manufactured up to and including 54mm.

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Product Specification & Information

3.3 O-Rings

3.3.1 EPDM (Standard)

SurePress Stainless Steel fittings are available with a variety of different O-rings dependent on the media suitability. EPDM (Ethylene Propylene) are factory installed and are contoured (Leak Path) to assist in identifying un-pressed fittings.

3.3.2 FKM (Industrial)

FKM (Flurocarbon) O-rings are utlilised when resitance to higher temperatures are required up to 180°C. This is media dependent. The material has excellent resistance to mineral oils, petroleum products, greases, some acids and compressed air. Contact SurePress for application suitability.

3.3.3 HNBR (Gas)

HNBR (Hydrogenated Nitrile Butadiene Rubber) O-rings are suitable for a wide range of gas applications including natural gas, propane, LPG and Butane.

Contact SurePress for application suitability.

SurePress O-Ring Specifications			
Colour	Black	Green	Yellow
Material	EPDM	FKM	HNBR
Temperature Range	-10°C - +110°C	-10°C - +180°C	-10°C - +70°C
Diameter	15-168mm	15-168mm	15-168mm
Typical Applications	Drinking Water	Compressed Air	NPG
	Fire	Diesel Oil	LPG
	Rain Water	Mineral Oil	Butane
	Heating	Greases	
	Process Water	Petroleum Products	
	Carbon Dioxide	Some Acids	
	Demineralised Water	Urea	

3.4 Press Tools

SurePress offer premium quality German manufactured tooling with the latest 'state of the art' technology. Our range comes with a range of features including Smart Technology, lightweight brushless motors and Bluetooth data transfer all of which result in increased efficiency. The ACO203 model now has LED illumination of the joint area for safe working, plus lower maintenance requirements and increased performance. (40% more presses per battery charge).

SurePress Press Tools	ACO203	ACO203XL	ACO403
Nominal Diameters	up to 54mm	up to 108mm	76.1 to 168.3mm
Piston Force	32kN	32kN	120kN
Stroke	40mm	80mm	60mm
Mass	2.8kg (inc Battery)	3.9kg (inc Battery)	13.0kg
Length	387mm	460mm	650mm
Width	75mm	83mm	95mm
Height	111mm	113mm	320mm
Recorded Electrical Power	450W	450W	450W
Battery Pack	18V Li-ion 1.5Ah & 3.0Ah	18V Li-ion 3.0Ah	18V Li-ion 3.0Ah & 5.0Ah
Battery Capacity (1)	80/160 press cycles	Up to 250 press cycles	20/30 press cycles
Charging Time (2)	approx 30-60min	approx 30-60mins	60-120mins

1-depending on the nominal diameter u. material
2-depending on the battery capacity

Product Specification & Information

3.4.1 Press Jaws & Collars

28mm Jaw

54mm Collar

SurePress Tools	Pressing Jaws	Pressing Collars
Nominal Diameter	up to 35mm	42-54mm (with ACO203XL up to 108mm) 76.1-168.3
Mass	1.5kg	2.5kg-13KG
Available Profiles	M & V	

168.3mm Collar

Adaptors

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Installation Considerations

4.1 Tube Cutting and De-burring

It is important when cutting the tube to use the correct tools to ensure a clean square cut. It is recommended that a pipe cutter with a stainless steel cutting wheel. This item should not have been used to cut other materials including Carbon Steel or Ferrous metals. This will prevent bi-metallic corrosion and a failure point. Slow running electric saws can be used but caution is required. If discoloration is identified, remove the affected area and inspect thoroughly. Heat transfer can alter the material and decrease its corrosion resistance. Angle grinders are not permitted along with oil-cooled saws and tools that cause tarnishing.

Deburr both the inside and outside of the cut to remove any burrs(swarf) that may remain. Burrs can damage the O-ring so their removal is to ensure a leak free installation. Stainles Steel files can also be utilised to deburr with the same precautions as per cutting.

4.14 Corrosion

Stainless steel consistent with DVGW GW 541 and W 534 commensurate to DIN 50930-6 can be used for drinking water without restrictions. Stainless steel behaves neutrally in drinking water due to the passive layer forming in connection with oxygen. This denotes that reactions with substances found in drinking water do not occur. Washed-in corrosion products from other metallic pipe materials do not therefore elicit corrosion processes on properly designed passive layers in SurePress 316L. A mixed installation of SurePress 316L and all non-ferrous metals can be executed directly and independent of the sequence.

The direct joining of stainless steel with galvanized materials results in bi-metal corrosion of the galvanized steel. A separation of these two pipe materials using a non-ferrous metal armature can occur according to DIN 1988-7 in order to avoid this. Empirically, the installation of a spacer at least 50 mm in length is sufficient for avoiding this type of corrosion.

Pitting corrosion can occur through certain factors, such as sensitisation of the material, false use of desinfectants or excessive chloride contents in drinking water (over 250 mg/l). The sensitisation of the stainless steel can be elicited through the formation of oxide layers and tarnish if heat treatment is improperly conducted (for example, from welding, separation with fast running saws or circular saws) and should be avoided. Only slow running saws are therefore permissible. Likewise, the hot bending of steel pipes is not permissible.

Such a sensitisation of stainless steel can surely be avoided by plastically cold forming the pressing.

External Corrosion

For stainless steel pipes that are laid underground or flush-mounted, corrosion protection bands and heat-shrinkable sleeves consistent with DIN 30672 pressure class A (non-corrosive soil) and/or pressure class B (corrosive soil) can be used for retroactive external corrosion protection. Empirically, coatings consistent with DIN 55928 (protective coats) can applied if they are universal and free of defects. Stainless steel pipes can be utilized with insulation materials according to 1988 with a maximum per cent weight of 0,05% water-soluble chloride ions. Insulating materials of AS-quality, (AS = austenitic steels) consistent with AGI- Q 135, are therefore of recommendation for stainless steels.

Stainless steel pipes that are installed in chlorine-containing environments (swimming pools for example) require a suitable coating.

4.15 Pressure Testing

Pressure testing should be as per AS3500. This should be 1.5 times the maximum operating pressure or 1,500kPa (15bar or 218psi) whichever is greatest. Note do not exceed the maximum operating pressure of the system. See diagram for more information.

4.16 Flushing

Flushing is to be conducted immediately following the pressure test and start-up of the system according to AS3500. Potable water is recommended. Once complete the system should remain full, if the pipework is to be drained or partially drained following the test it is advisable to use an alternative media such as air or an inert gas. This is to avoid an increased risk of corrosion from water sitting in the pipe.

4.17 Disinfecting the Installation

Prior to commissioning the installation, the system is to be disinfected as per the (ADWG) Australian Drinking Water Guidelines. They provide a list of recommended disinfectant agents. It is possible to use chlorine for this exercise. For example, a constant chlorine allowance of maximum of 1.2ppm chlorine (free chloride in the disinfecting solution) can be added. The threshold of free chloride in purified drinking water may only amount to a maximum of 0.3 mg/l. In an exceptional case, a maximum of 6 mg/l of chlorine (free chloride in the disinfecting solution) is allowed in the event of high/increased microbial contamination. The content of free chloride in the drinking water may in this case be increased to a maximum of 0.6 mg/l.

4.18 Maintenance

The installation should be inspected on a regular basis to identify any damage caused by contaminants etc. This should include inspecting the exterior and interior of the pipework and rectifying any potential issues in a timely manner. This will avoid any potential hazards or issues occurring.

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Installation Considerations

4.2 Insertion & Marking

Mark the insertion depth onto the tube or plain end fitting using a waterproof felt pen. It is recommended that a SurePress depth gauge be used so that full insertion is verified. For all fiiting insertion depth details reference Table X.

4.3 Pipe Bending

Please refer to SurePress for recommended sizes and methods.

4.4 Insulation

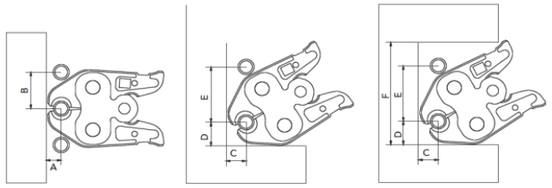
Insulating SurePress is recommend but consideration must be given to the insulation type used. Any insulation coming into contact with 316 stainless must be 'low chloride' with less than 0.05% water soluble chloride content by weight. Failure to use the correct material will result in reduced performance levels of the installed system. Corrosion of the installation can occur at any temperature

4.5 Bracketing

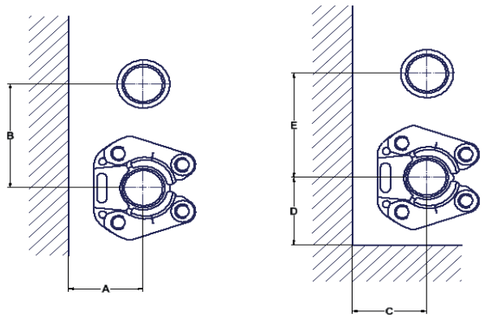
Brackets are to be installed as per the local recommended standards (AS3500 & AS4041), please refer to the Thermal Expansion section for fixed point and positinal recommendations.

4.6 Press Clearances

Press tool space requirements for jaws and slings.



Jaws						
Size mm	A	B	C	D	E	F
15	20	56	25	31	73	135
22	25	65	31	37.5	80	155
28	25	75	31	38.5	83	160
35	30	75	36	45	90	180



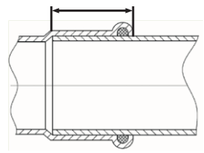
Sling	A	B	C	D	E
HP35	61	90	61	68	90
M42	61	94	61	68	94
HP42	65	102	65	75	102
M54	68	108	68	73	108
HP54	68	108	68	76	108
M67	81	139	81	98	139
M76.1	88	156	88	108	156
HP76.1	92	161	92	113	161
M108	108	204	108	137	204
HP108	112	208	112	141	208

4.7 Installation Clearances

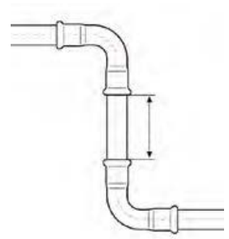
Before installation it is important to identify the minimum spacing requirements between two press-fittings and the distance from a wall or floor penetration. This will ensure the optimum deformation of the press. The table below shows the insertion depths for profile 'M' and the following table (to the right) confirms minimum spacing requirements.

M-Profile

d in mm	Insertion Depth in MM
15	17
22	21
28	23
35	26
42	30
54	35
76.1	55
88.9	63
108	76
139	95
168.3	121



	Min Tube Length in mm	Min Exposed Tube in mm
d in mm	M-Profile	M Profile
15	44	10
22	52	10
28	56	10
35	62	10
42	80	20
54	90	20
76.1	165	20
88.9	191	20
108	232	20
139	250	60
168.3	377	60



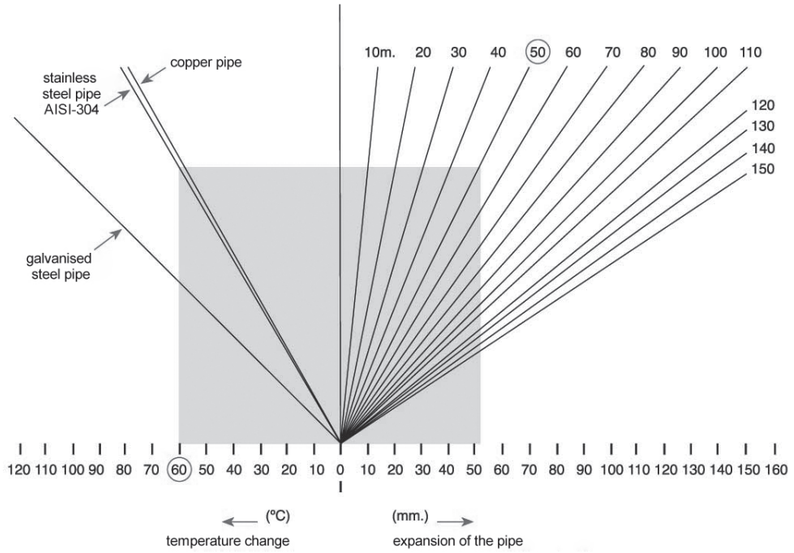
Installation Considerations

4.8 Thermal Expansion

During operation fluid pipeline installations contract and expand due to temperature fluctuations.

To allow for movement the following must be provided:

- enough space for longitudinal expansion.
- correct mounting of the corresponding mounting points.
- expansion compensators if necessary



Application methods for the diagram.

Example: To determine the extension required for a 50m long pipe with a fluid temperature change of 60°C. We go from the 60°C position "temperature change" vertically up to the sloping line of the "rust-proof" pipe. We then turn right up to the other sloping line, which indicated the meters (50m). Then we go vertical.

Solution: 51,5 mm.

The following table, as well as the diagram, can be used for calculating the extension.

ΔT (°K) Thermal Expansion										
L (m)	10	20	30	40	50	60	70	80	90	100
1	0,16	0,33	0,50	0,70	0,82	1,00	1,15	1,32	1,50	1,65
6	1,00	2,00	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00
10	1,65	3,30	5,00	6,60	8,25	10,00	11,55	13,20	14,85	16,50

4.8.1 Allowing for Movement

Most installations are, except for industrial installations, seldom visible and are usually installed as flush-mounted and floating along floor coverings. In the case of visibly installed installations or those that run under galleries, - there is usually enough space, certainly in the case of piping that must be cleaned - an elastic protective filling made of insulation material must be used, such as glass wool or plastic (closed-cell foam) (image1). If an installation is carried out under floating floors, the pipes are installed within the insulating layer, so they can expand unhindered. The vertical outlets and junctions must be equipped with elastic sockets made of insulating material or insulating plastic (image 2). In the same way, fillings must be used for wall and ceiling pipes, so they can move in every direction (image 3).

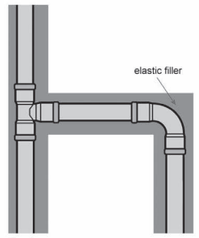


fig 1

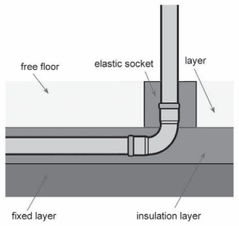


fig 2

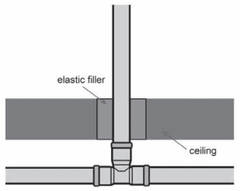
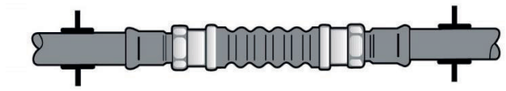


fig 3

4.8.2 Expansion compensators

If piping length fluctuations cannot be absorbed by their own elasticity or with enough space, expansion compensators must be applied. There are three types of expansion compensators: U or Z form or those with internal threading, allowing it to be screwed onto the fixture. The compensators can be bent in a U or Z form or also originate from a straight pipe and angled attachment (figures 5, 6, 7 and 8 below). The following method of calculation can be used for calculating the length of the angular offset: - Calculation of the thermal expansion, Calculation of the angular offset length (in the case of compensator2).



L= KVde.Δl

K = Material constants = 45 (STAINLESS STEEL) De = Outer diameter of the pipe Δl = the thermal expansion to be compensated

If the U type is utilised, the length of the angular offset must be divided by 2 according to the named formula, because there are two expansion arms. For the sake of accuracy, the divided value must equal L/1,8 and not 2.

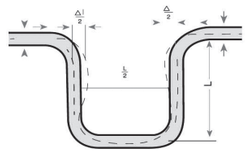


fig 5

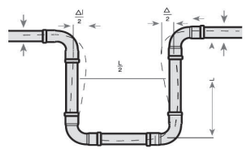


fig 6

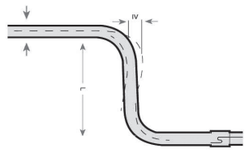


fig 7

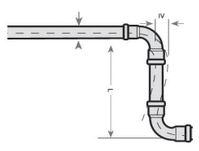


fig 8

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Installation Considerations

4.8.3 Expansion Bend

As shown in images 5, 6, 7 and 8 (page 32), correct compensation depends on the adjustment of the fixation and displacement points. A fixation point may not be applied near the fixture. It must also be observed that the floating points may not be applied in such a way that they act as a fixation point. For a straight pipe or expansion compensator, only one fixation point may be applied to avoid deformation, namely in the centre of the straight section if possible to distribute the expansion. Based on the thermal expansion of the pipe, the SurePress connection attachments can disrupt pressures by twisting. It must be observed that the permissible torsion angles not be larger than 50° and the length of the lever is dependent on the free length of the pipe. The attached diagram Fig 12 can be used to calculate the lengths of the lever on the compression equipment.

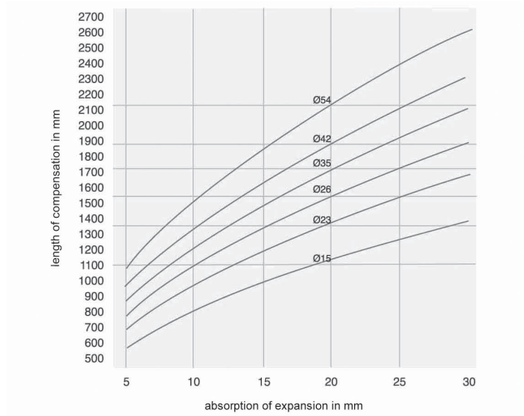


fig 10 determination of the length of the Z-bend expansion compensation

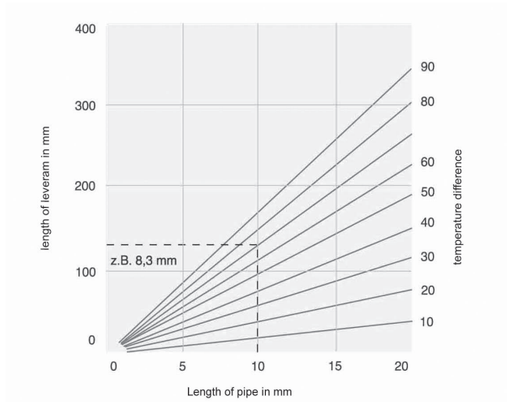


fig 12 determination of the length of the leverarm

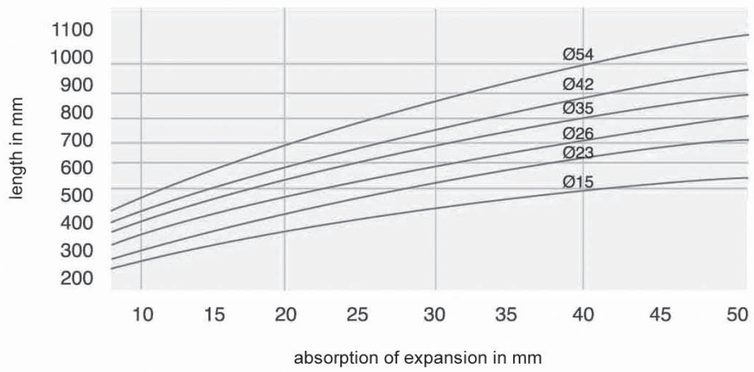


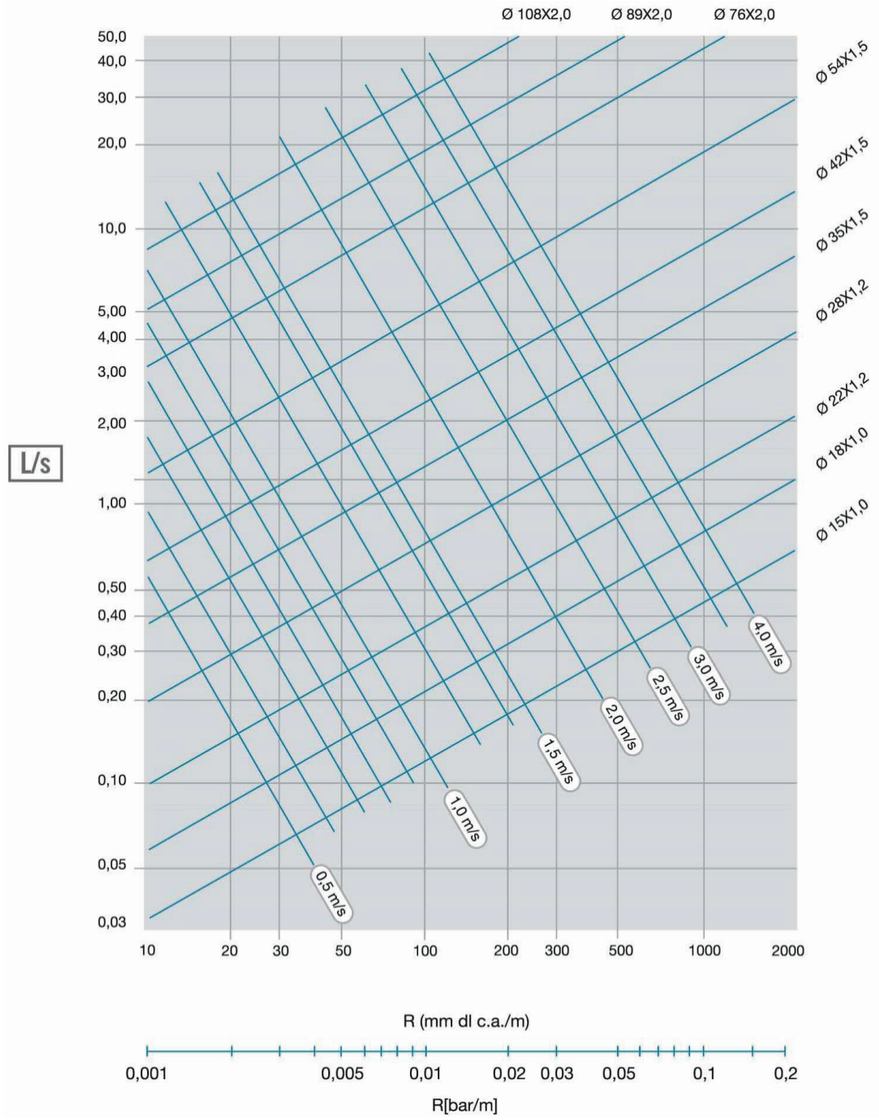
fig 11 determination of the length of the U-bend expansion compensation

4.9 Pressure Losses

Every liquid that flows through a network of pipes experiences a drop-in pressure due to constantly rubbing against the inner wall of the pipe, changes in direction and turbulences caused by resistances, all of which make its calculation complex.

The following diagram can be utilized for avoiding complicated calculations. It allows the user to quickly and reliably determine water column loses in mm.

The chart below is valid for drinking water (10°C).



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Installation Considerations

4.10 Bracket Distances

SurePress offer two mounting options to clamp pipes to ceilings, walls or floors. By setting fixation and floating points, the elongation of the pipe resulting from temperature fluctuations is guided in the desired direction.

Pipe clamps must not be applied to fittings. Fixing floating points must occur so that the elongation of the pipe is not hindered.

Unless otherwise stated, clamp intervals (table below) can be used as guidelines for SurePress.

DN	d x s in mm	Distance in M to AS 3500
15	18 x 1	1.50
20	22 x 1,2	1.50
25	28 x 1,2	2.00
32	35 x 1,5	2.50
40	42 x 1,5	2.50
50	54 x 1,5	3.00
65	76,1 x 2	3.00
80	88,9 x 2	3.00
100	108 x 2	3.00
150	168 x 2	4.00

4.11 Electrical Heat Tracing

When using electrical heat tracing systems in connection with SurePress 316L the temperature of the inner pipe wall must not exceed 60° Celsius. A temporary temperature increase to 70° C (no more than 1 hour per day) is permitted for the purpose of thermal disinfection. For systems equipped with an

accumulation safety device or backflow preventer, an impermissible increase in pressure, because of heating is to be avoided.

4.13 Creating a Reliable SurePress Connection

Transport and storage

In transport and storage on site, SurePress press fittings and tubes are to be protected against damage, moisture, UV-radiation, soil, swarf and other building materials. Store the tubes and fittings in a dry environment, not on the ground and do not rest or place heavy objects on them.

Completing a Joint

1-Select the correct tool including jaws and collars to suit the pressure rating and fitting dimension

2-Cut the tube to length remembering to take into account the insertion depth of the fitting

3-Deburr the tube on the inside and outside of the cut to remove any burrs that mey damage the o-ring on inserion

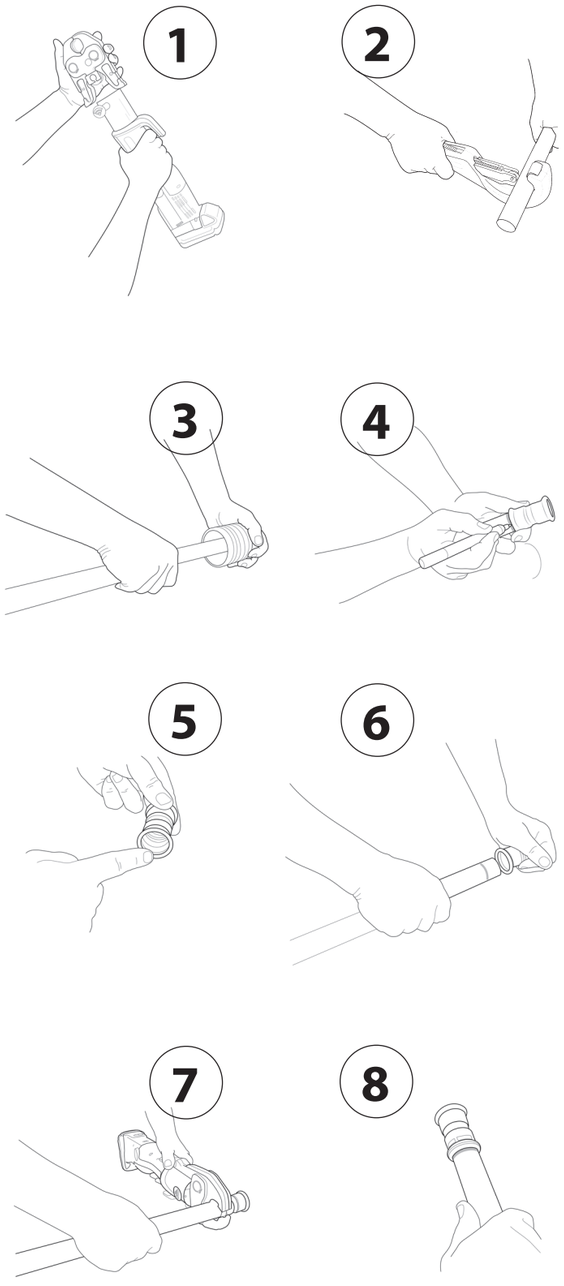
4-Witness mark the tube with a waterproof felt pen using the depth gauge or measurement of the insertion

5-Inspect the O-ring for any signs of damage. Is the O-ring the correct material for the application?

6-Select the correct press jaw according to the fitting dimension and check the fitting has not moved by inspecting the witness mark

7-Make sure the jaw is lubricated and not dry. Open the jaw and apply to the fitting making sure the fitting is inserted into the groove of the jaw, intitiat the press by pressing the start button for 3 seconds

8-Once the cycle is complete , remove the jaw/collar and inspect the join for any defects. Check the witness mark is aligned with the end of the fitting



Installation Considerations

4.12 Choosing the Correct Tool

There are several steps involved in choosing the correct SurePress tool for your installation. SurePress offer 3 main tooling options with varying capabilities. Answering the questions in the chart below will begin the process.

Media Suitability

SurePress 316L Stainless Steel is suitable for a wide variety of media. Please contact SurePress for assistance in selecting the best performing O-Ring and tooling for your installation.

Press Tool Training

SurePress can offer full on site press tool training by a fully trained external customer service representative.

1. What is the required working pressure and media?
2. What Size Pipe will I be installing?
3. Which Profile Jaws & collars do I need?

Once the questions are answered and the tooling is identified, use the following matrix to select all the required tool parts to complete your SurePress piping installation. If in doubt, please contact SurePress.

* Maximum Working Pressures

*The maximum working pressure in this document is to be used as a guide only.

Please contact SurePress for media specific working pressures. Full specifications and instructions are available via our experienced team.

Guarentee

SurePress guarantees a durability of 25 years for press-fit piping systems if installed correctly as per the SurePress technical guide using correctly calibrated tooling.

M Profile - Standard Pressure

Select Tool:		Select Adaptor:	Select Jaw or Collar:		
TOOL		ADAPTOR	JAW		ITEM
AC203BT	AC203XL	No Adaptor required	15mm	M profile jaw	M15
			22mm	M profile jaw	M22
			28mm	M profile jaw	M28
			35mm	M profile jaw	M35
		ADAPTOR	COLLAR		ITEM
		42 - 54 Adaptor ZB203	42mm	M profile collar	M42
			54mm	M profile collar	M54
		76 - 89 Adaptor ZB221	76mm	M profile collar	M76.1
			89mm	M profile collar	M88.9
		108mm Stage 1 ZB221	108mm	M profile collar	M108
		108mm Stage 2 ZB222			
ACO403BT		No Adaptor required	168mm	M profile collar	168.3

M Profile - High Pressure

Select Tool:		Select Adaptor:	Select Jaw or Collar:		
TOOL		ADAPTOR	COLLAR		ITEM
AC203BT	AC203XL	28 - 54 Adaptor ZB203	28mm	M profile HP collar	HP 28
			35mm	M profile HP collar	HP 35
			42mm	M profile HP collar	HP 42
			54mm	M profile HP collar	HP 54
ACO403BT		No adaptor required	76mm	M profile HP collar	HP 76.1
			89mm	M profile HP collar	HP 88.9
			108mm	M profile HP collar	HP M108

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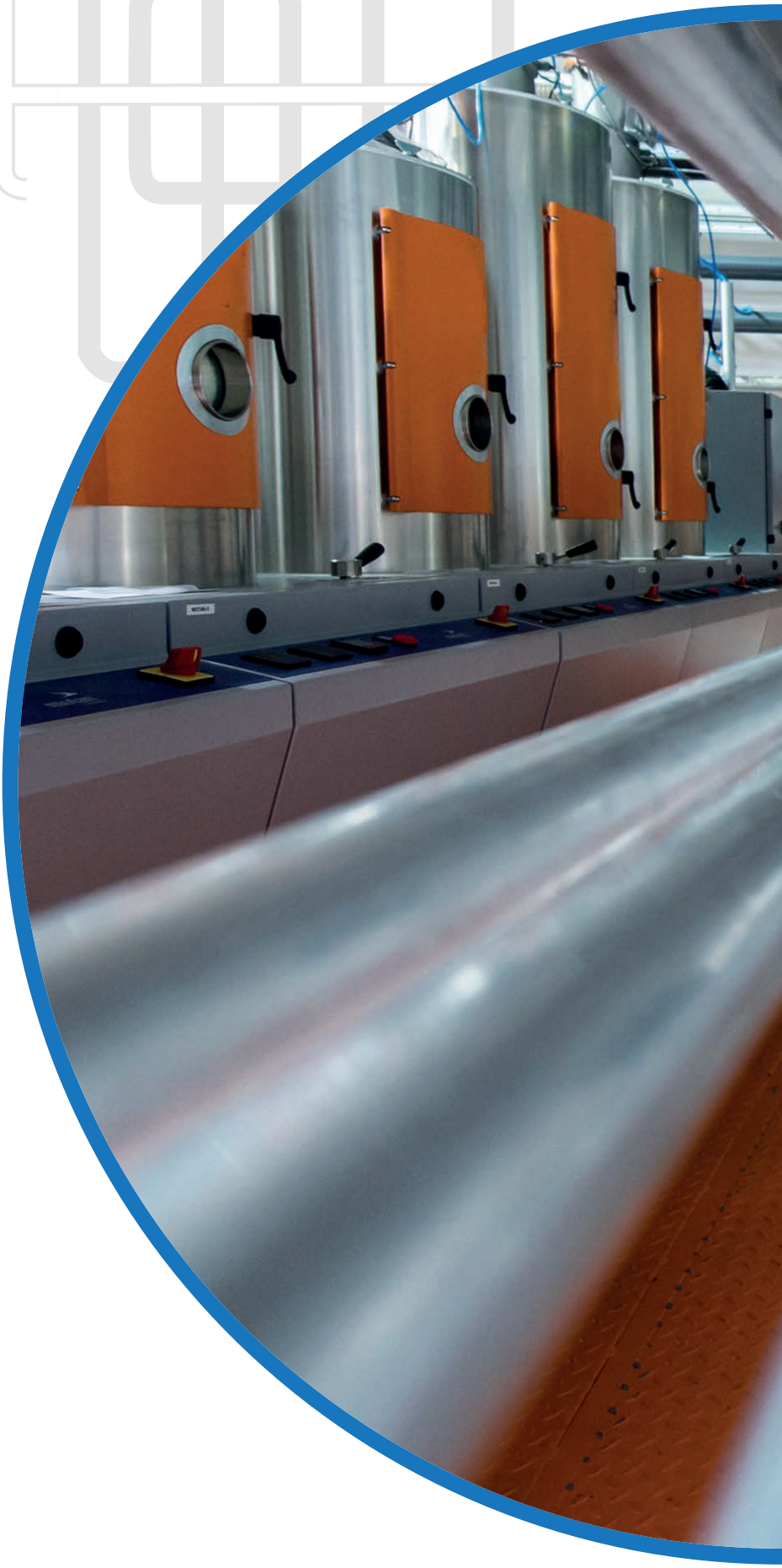

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