

ASTM Catalogue

2023

PLASSON

12 IPS

14417

GAS SDR11 CDC

PE 4710

ASTM Catalogue

2023 edition

Introduction

Plasson provides a wide range of solutions for joining PE Pipe Systems. Plasson's solutions have been used in water and gas systems for more than 50 years in over 80 countries around the world. Plasson now offers a complete line of products that comply with ASTM standards for inch sized pipes . The line includes electrofusion and compression fittings, valves, tooling and control boxes .

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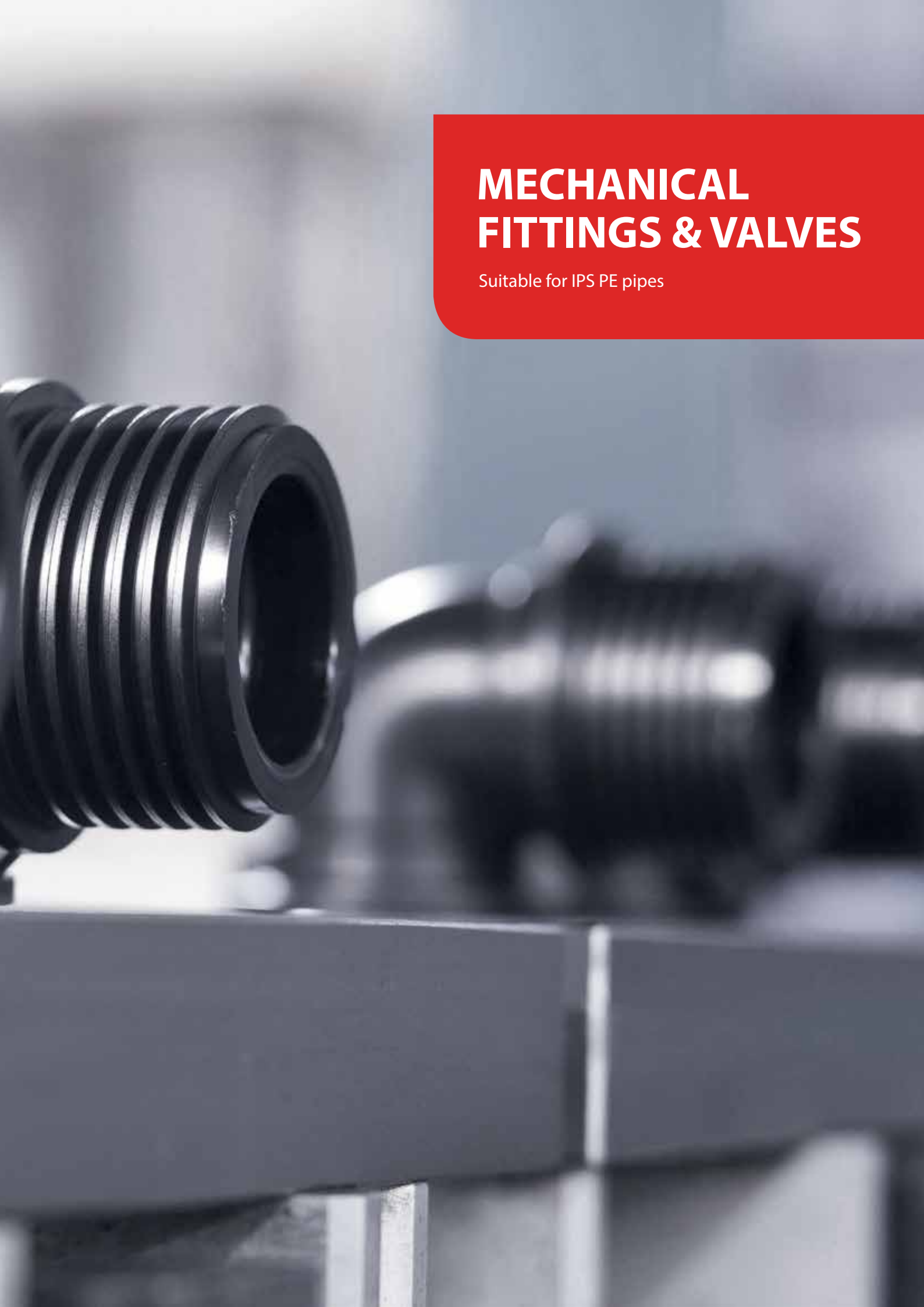
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MECHANICAL FITTINGS & VALVES

Suitable for IPS PE pipes

Compression Fittings

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Coupling
Enlace Recto

0761M0

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Enlace recto de reparación

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Enlace Mixto Rosca Macho

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Male Adaptor
Enlace Mixto Rosca Macho

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Female Adaptor
Enlace Mixto Rosca Hembra

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Female Adaptor
Enlace Mixto Rosca Hembra

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90° Tee with Threaded
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45° Elbow
Codo de 45°

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90° Elbow with Threaded
Male Offtake
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Rosca Macho

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90° Elbow with Threaded
Female Offtake
Codo de 90° Compresión
Rosca Hembra

0775M0

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Wall Plate Elbow
Codo de Aplicación Mural

070570M0

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Plass4 90° (Universal) Elbow
Plass4 - Codo de 90°
(universal)

07550

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Y-Fitting with Threaded
Male Offtake
Y compresión rosca macho

070170M0

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 Plass4 (Universal) Coupling
 Plass4 Enlace (universal)


0701MZ0

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 Imperial to CTS Coupler
 Adaptor
 Enlace Adaptor Recto
 Imperial - CTS


0793M

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03703T

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 Ball Valve
 Válvula esférica


0340M0

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 Compression Stoptap
 (seal NBR)
 Válvula de Línea Compresión
 (juntas NBR)


03405

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 Threaded Stoptap
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 Hembra (juntas NBR)


03068

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 Check Valve (seal EPDM)
 Threaded Inlet & Outlet
 Válvula Antirretorno
 (selo EPDM) Roscas Macho


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 Universal Pressure Regulator
 UPR 550
 Regulador Universal de
 Presión UPR 550


03801

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 Fix Ratio Pressure
 Reducing Valve
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 de Presión FIX RATIO


03047

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 Angle Seat Valve (seal NBR)
 Threaded Inlet & Outlet
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 (sello NBR) Roscas Macho


03049

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 Angle Seat Valve (Seal FPM)
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 Válvula de Asiento Angular
 Roscas Macho


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03139

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 Conexión de Acople Rápido


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17610

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07990

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 Llave Plasson


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07003Q

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 Split Ring for UPVC
 and PP pipes


07002MV

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0797M

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 Stainless steel adaptor disc
 for PVC


Accessories for Compression Fittings

0701Q6

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 Grip Ring for UPVC and PP Pipe
 Casquillo de apriete para tubos
 de UPVC y PP


07960

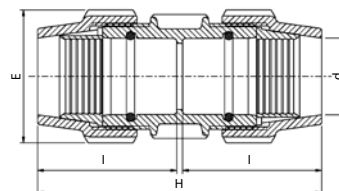
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 Chamfer Tool for PE Pipes
 Herramienta para biselar


Coupling

0701M0

Enlace recto

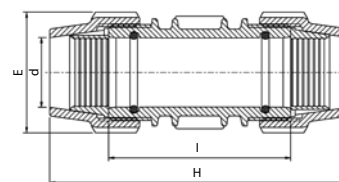


Product Code	Size d x d	E	H	I	UB	UC	W
0701M0005	1/2" x 1/2"	1.89	4.76	2.28	10	200	0.20
0701M0007	3/4" x 3/4"	2.13	4.92	2.36	10	180	0.26
0701M0010	1" x 1"	2.52	5.71	2.76	5	100	0.42
0701M0013	1 1/4" x 1 1/4"	3.23	6.97	3.39	—	75	0.72
0701M0015	1 1/2" x 1 1/2"	3.78	7.91	3.86	—	45	1.05
0701M0020	2" x 2"	4.45	9.06	4.41	—	30	1.60
0701M0030	3" x 3"	5.98	13.35	6.30	—	10	4.32
0701M0040	4" x 4"	7.12	15.74	7.68	—	5	6.34

Repair Coupling

0761M0

Enlace recto de reparación

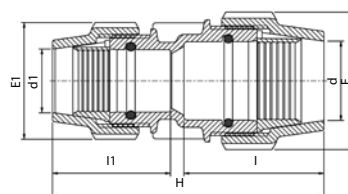


Product Code	Size d x d	E	H	I	UB	UC	W
0761M0007	3/4" x 3/4"	2.13	5.35	2.36	10	150	0.26
0761M0010	1" x 1"	2.52	6.85	2.76	5	80	0.44
0761M0013	1 1/4" x 1 1/4"	3.23	8.46	3.39	—	55	0.79
0761M0015	1 1/2" x 1 1/2"	3.78	9.60	3.86	—	30	1.17
0761M0020	2" x 2"	4.45	10.62	4.41	—	24	1.82
0761M0030	3" x 3"	5.98	13.89	6.3	—	10	4.15
0761M0040	4" x 4"	7.12	15.47	7.68	—	5	6.82

Reducing Coupling

0711M0

Enlace recto reductor

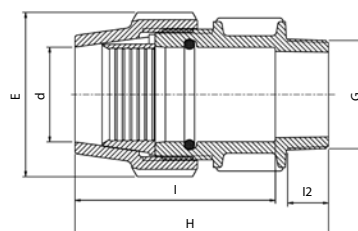


Product Code	Size d x d1	E	E1	H	I	I1	UB	UC	W
0711M0007005	3/4" x 1/2"	2.13	1.89	4.69	1.89	4.69	10	200	0.23
0711M0010005	1" x 1/2"	2.52	1.89	5.31	1.89	5.31	5	150	0.31
0711M0010007	1" x 3/4"	2.52	2.13	5.16	2.13	5.16	5	120	0.34
0711M0013007	1 1/4" x 3/4"	3.23	2.13	6.10	2.13	6.10	—	90	0.51
0711M0013010	1 1/4" x 1"	3.23	2.52	6.10	2.52	6.10	—	90	0.56
0711M0015007	1 1/2" x 3/4"	3.78	2.13	6.93	2.13	6.93	—	70	0.66
0711M0015010	1 1/2" x 1"	3.78	2.52	6.81	2.52	6.81	—	70	0.75
0711M0015013	1 1/2" x 1 1/4"	3.78	3.23	7.17	3.23	7.17	—	60	0.88
0711M0020007	2" x 3/4"	4.45	2.13	7.36	2.13	7.36	—	50	1.02
0711M0020010	2" x 1"	4.45	2.52	7.83	2.52	7.83	—	45	1.07
0711M0020013	2" x 1 1/4"	4.45	3.23	8.23	3.23	8.23	—	40	1.20
0711M0020015	2" x 1 1/2"	4.45	3.78	8.46	3.78	8.46	—	36	1.29
0711M00400030	3" x 2"	5.98	4.45	11.10	5.98	4.33	—	14	3.18
07110040030	4" x 3"	7.13	5.98	14.84	7.68	6.38	—	6	5.61

Male Adaptor

0702M0

Enlace mixto rosca macho

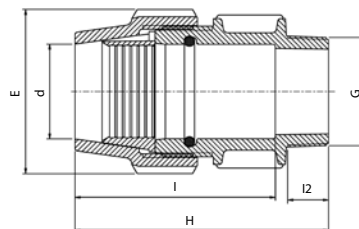


Product Code	Size d x G	E	H	I	I2	UB	UC	W
0702M0005005	1/2" x 1/2"M	1.89	3.58	2.76	0.67	10	350	0.13
0702M0005007	1/2" x 3/4"M	1.89	3.62	2.76	0.71	10	350	0.14
0702M0007005	3/4" x 1/2"M	2.13	3.74	2.83	0.67	10	250	0.15
0702M0007007	3/4" x 3/4"M	2.13	3.74	2.83	0.71	10	250	0.17
0702M0010007	1" x 3/4"M	2.52	4.09	3.23	0.71	5	150	0.24

Male Adaptor

0702M0T

Enlace mixto rosca macho

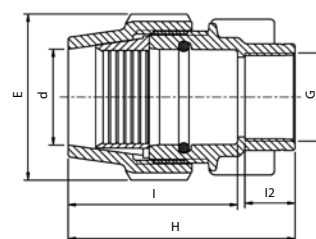


Product Code	Size d x G	E	H	I	I2	UB	UC	W
0702M0T10010	1" x 1"M	2.52	4.17	3.23	0.79	5	150	0.27
0702M0T13010	1¼" x 1"M	3.23	4.49	3.39	0.79	—	110	0.42
0702M0T13013	1¼" x 1¼"M	3.23	4.57	3.46	0.87	—	110	0.42
0702M0T13015	1¼" x 1½"M	3.23	4.69	3.58	0.87	—	100	0.44
0702M0T15013	1½" x 1¼"M	3.78	5.20	4.45	0.87	—	70	0.58
0702M0T15015	1½" x 1½"M	3.78	5.31	4.21	0.87	—	70	0.61
0702M0T15020	1½" x 2"M	3.78	5.47	4.21	1.02	—	65	0.62
0702M0T20015	2" x 1½"M	4.45	5.98	4.88	0.87	—	48	1.04
0702M0T20020	2" x 2"M	4.45	6.57	5.28	1.02	—	48	1.02

Female Adaptor

0703M0

Enlace mixto rosca hembra

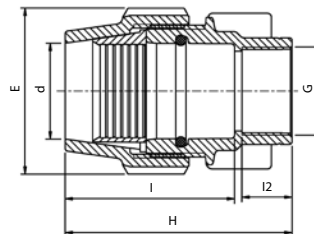


Product Code	Size d x G	E	H	I	I2	UB	UC	W
0703M0005005	½" x ½"F	1.89	3.23	2.32	0.75	10	350	0.13
0703M0005007	½" x ¾"F	1.89	3.23	2.32	0.75	10	350	0.13
0703M0007007	¾" x ¾"F	2.13	3.50	2.52	0.83	10	250	0.18
0703M0010007	1" x ¾"F	2.52	3.35	2.48	0.75	5	150	0.24

Female Adaptor

0703M0T

Enlace mixto rosca hembra

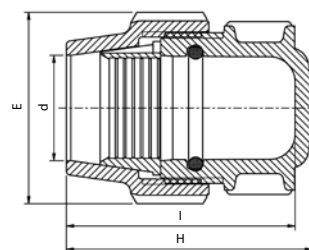


Product Code	Size d x G	E	H	I	I2	UB	UC	W
0703M0T10010	1" x 1"F	2.52	3.66	2.64	0.83	5	150	0.25
0703M0T13010	1¼" x 1"F	3.23	4.29	3.27	0.83	—	110	0.39
0703M0T13013	1¼" x 1¼"F	3.23	4.21	3.03	0.98	—	110	0.45
0703M0T13015	1¼" x 1½"F	3.23	4.53	3.35	0.98	—	100	0.50
0703M0T15013	1½" x 1¼"F	3.78	4.72	3.50	0.98	—	75	0.61
0703M0T15015	1½" x 1½"F	3.78	4.96	3.66	0.98	—	70	0.63
0703M0T15020	1½" x 2"F	3.78	5.08	3.70	1.18	—	70	0.65
0703M0T20020	2" x 2"F	4.45	5.71	4.69	1.18	—	48	0.95

End Plug

0712M0

Tapón final

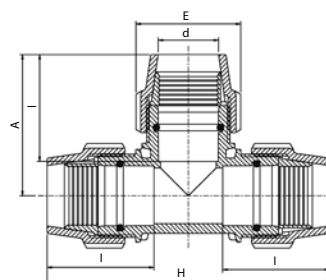


Product Code	Size d	E	I	H	UB	UC	W
0712M0005	½"	1.89	2.91	3.11	10	350	0.07
0712M0007	¾"	2.13	2.99	3.23	10	250	0.17
0712M0010	1"	2.52	3.19	3.43	5	180	0.231
0712M0013	1¼"	3.23	3.46	3.86	—	110	0.405
0712M0015	1½"	3.78	4.29	4.57	—	75	0.59
0712M0020	2"	4.45	5.24	5.51	—	45	0.90
0712M0030	3"	5.98	7.80	8.42	—	16	2.44
0712M0040	4"	7.13	8.46	9.33	—	10	3.76

90° Tee

0704M0

Te de 90°

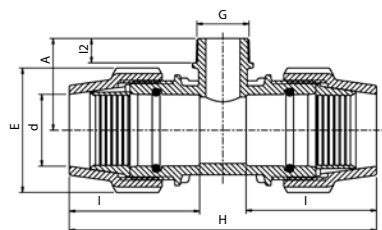


Product Code	Size d	E	H	I	A	UB	UC	W
0704M0005	1/2" x 1/2" x 1/2"	1.89	5.71	2.24	2.91	10	120	0.33
0704M0007	3/4" x 3/4" x 3/4"	2.13	5.98	2.24	3.03	5	100	0.42
0704M0010	1" x 1" x 1"	2.52	6.89	2.56	3.46	5	60	0.66
0704M0013	1 1/4" x 1 1/4" x 1 1/4"	3.23	8.70	3.39	4.37	—	40	1.14
0704M0015	1 1/2" x 1 1/2" x 1 1/2"	3.78	9.92	3.74	4.96	—	25	1.65
0704M0020	2" x 2" x 2"	4.45	11.50	4.29	5.75	—	16	2.52
0704M0030	3" x 3" x 3"	5.98	17.16	6.42	8.58	—	5	7.16
0704M0040	4" x 4" x 4"	7.13	23.15	7.72	11.57	—	2	11.47

90° Tee with Threaded Male Offtake

0784M0

Te de 90° compresión rosca macho

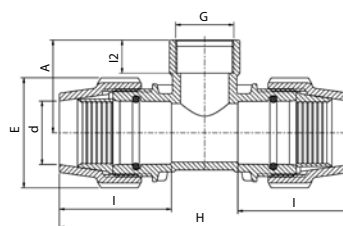


Product Code	Size d x G x d	E	H	I	I2	A	UB	UC	W
0784M0005005	1/2" x 1/2" M x 1/2"	1.89	5.43	2.28	0.63	1.81	10	180	0.23
0784M0007007	3/4" x 3/4" M x 3/4"	2.13	5.91	2.40	0.71	1.97	5	140	0.30

90° Tee with Threaded Female Offtake

0714M0

Te de 90° compresión rosca hembra

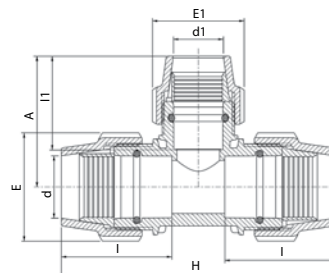


Product Code	Size d x G x d	E	H	I	I2	A	UB	UC	W
0714M0005005	1/2" x 1/2" F x 1/2"	1.89	5.67	2.24	0.75	1.65	10	180	0.25
0714M0007007	3/4" x 3/4" F x 3/4"	2.13	5.91	2.28	0.75	1.89	5	140	0.31

90° Reducing Tee

0734M0

Te de 90° reductor

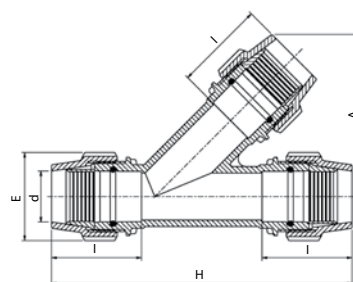


Product Code	Size d x d1 x d	E	E1	H	I	I1	A	UB	UC	W
0734M0007005	¾" x ½" x ¾"	2.09	1.89	6.06	2.36	2.28	2.99	5	100	0.39
0734M0010007	1" x ¾" x 1"	2.48	2.09	6.73	2.60	2.36	3.35	5	70	0.59
0734M0013007	1¼" x ¾" x 1¼"	3.23	2.09	7.95	3.23	2.36	3.35	—	45	0.89
0734M0013010	1¼" x 1" x 1¼"	3.23	2.48	8.23	3.23	2.60	3.78	—	40	0.97
0734M0015007	1½" x ¾" x 1½"	3.78	2.09	8.74	3.66	3.07	4.21	—	30	1.29
0734M0015010	1½" x 1" x 1½"	3.78	2.48	8.74	3.66	2.60	4.57	—	30	1.35
0734M0015013	1½" x 1¼" x 1½"	3.78	3.23	9.29	3.66	3.23	4.49	—	30	1.45
0734M0020010	2" x 1" x 2"	4.45	2.48	10.47	4.41	2.60	4.57	—	20	1.97
0734M0020013	2" x 1¼" x 2"	4.45	3.23	10.47	4.41	3.31	5.47	—	20	2.08
0734M0020015	2" x 1½" x 2"	4.45	3.78	10.75	4.29	3.66	5.31	—	18	2.22

45° Tee

0764M0

Te de 45°

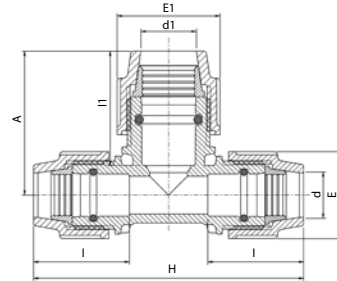


Product Code	Size d x d x d	E	H	I	A	UB	UC	W
0764M0020	2" x 2" x 2"	4.45	14.68	4.33	8.15	—	10	3.06
0764M0030	3" x 3" x 3"	5.98	20.24	6.38	9.17	—	4	8.15
0764M0040	4" x 4" x 4"	7.13	24.61	7.64	11.18	—	2	13.00

90° Enlarging Tee

0774M0

Te de alargado

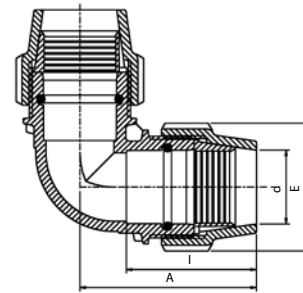


Product Code	Size d x d1 x d	E	E1	H	I	I1	A	UB	UC	W
0774M0007010	¾" x 1" x ¾"	2.13	2.52	5.98	2.32	2.56	3.58	5	80	—

90° Elbow

0705M0

Codo de 90°

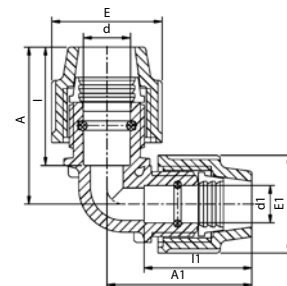


Product Code	Size d x d	E	I	A	UB	UC	W
0705M0005	½" x ½"	1.89	2.13	2.87	10	200	0.22
0705M0007	¾" x ¾"	2.13	2.24	2.99	10	150	0.28
0705M0010	1" x 1"	2.52	2.60	3.62	5	100	0.45
0705M0013	1¼" x 1¼"	3.23	3.27	4.29	—	60	0.78
0705M0015	1½" x 1½"	3.78	3.66	4.84	—	35	1.13
0705M0020	2" x 2"	4.45	4.33	5.94	—	24	1.75
0705M0030	3" x 3"	5.98	6.41	8.58	—	8	4.90
0705M0040	4" x 4"	7.13	7.72	11.57	—	4	7.84

90° Reducing Elbow

0751M0

Codo de 90° reductor

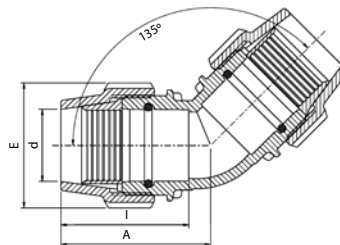


Product Code	Size d x d1	E	E1	I	I1	A	A1	UB	UC	W
0751M0007005	¾" x 1/2"	2.12	1.89	2.28	2.24	3.54	2.95	10	180	0.251

45° Elbow

0706M0

Codo de 45°

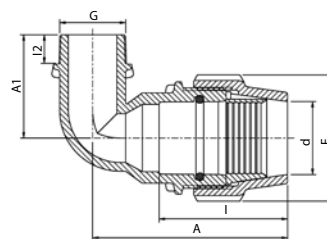


Product Code	Size d x d	E	I	A	UB	UC	W
0706M0010	1" x 1"	2.52	2.60	3.31	5	100	0.4
0706M0013	1¼" x 1¼"	3.23	3.27	3.86	—	60	0.73
0706M0015	1½" x 1½"	3.78	3.66	4.33	—	40	1.07
0706M0020	2" x 2"	4.45	4.33	5.12	—	24	1.66
0706M0030	3" x 3"	5.98	6.38	7.56	—	8	4.66
0706M0040	4" x 4"	7.13	7.64	9.25	—	5	6.97

90° Elbow with Threaded Male Offtake

0785M0

Codo de 90° compresión rosca macho

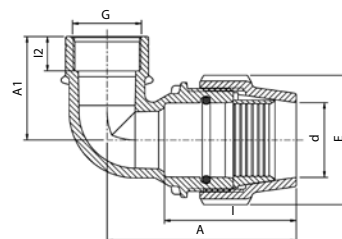


Product Code	Size d x G	E	I	I2	A	A1	UB	UC	W
0785M0005005	½" x ½"M	1.89	2.24	0.67	2.91	1.61	10	320	0.15
0785M0007005	¾" x ½"M	1.89	2.24	0.71	2.99	1.69	10	300	0.14
0785M0005007	½" x ¾"M	2.13	2.28	0.67	3.35	1.85	10	240	0.16
0785M0007007	¾" x ¾"M	2.13	2.28	0.71	3.50	1.89	10	250	0.18

90° Elbow with Threaded Female Offtake

0715M0

Codo de 90° compresión rosca hembra

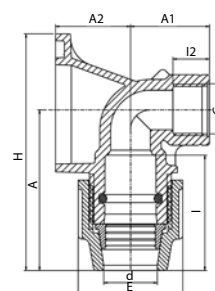


Product Code	Size d x G	E	I	I2	A	A1	UB	UC	W
0715M0005005	1/2" x 1/2"F	1.89	2.13	0.75	3.07	1.57	10	350	0.13
0715M0005007	1/2" x 3/4"F	1.89	2.05	0.75	2.83	1.73	10	300	0.16
0715M0007005	3/4" x 1/2"F	2.13	2.24	0.71	3.15	1.81	10	250	0.17
0715M0007007	3/4" x 3/4"F	2.13	2.24	0.75	3.15	1.81	10	250	0.19

Wall Plate Elbow

0775M0

Codo de aplicación mural

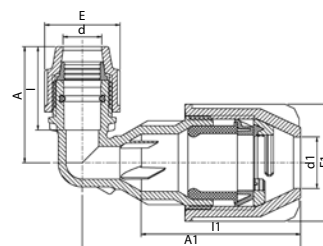


Product Code	Size d x G	E	I	I2	A	A1	A2	H	UB	UC	W
0775M0007007	1/2" x 1/2"F	1.89	2.28	0.71	3.11	1.57	1.50	4.45	1	150	0.20
0775M0005005	3/4" x 3/4"F	2.13	2.36	0.75	3.27	1.57	1.50	4.80	1	100	0.25

Plass4 90° (Universal) Elbow

070570M0

Plass4 - Codo de 90° (universal)

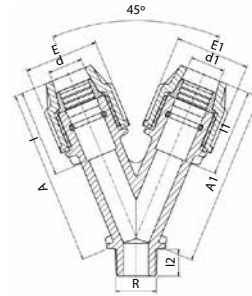


Product Code	Size d x d1	E	E1	I	I1	A	A1	UB	UC	W
070570M07022	3/4" x 0.59"-0.87"*	2.13	2.52	2.36	4.13	0.51	5.04	1	90	0.40
070570M07027	3/4" x 0.79"-1.06"*	2.13	2.80	2.36	4.13	3.27	5.47	1	80	0.49
070570M07035	3/4" x 1.06"-1.38"*	2.13	3.27	2.36	4.41	3.27	6.02	1	60	0.64

Y-Fitting with Threaded Male Offtake

0755M0

Y compresión rosca macho

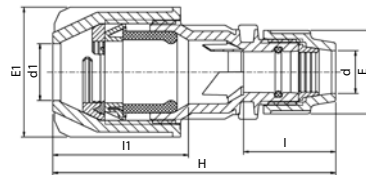


Product Code	Size d x d x R	E	E1	I	I1	I2	A	A1	UB	UC	W
0755M0007007	3/4" x 3/4" x 3/4" NPT	2.12	2.12	2.28	2.28	0.70	4.92	4.92	5	100	0.34

Plass4 (Universal) Coupling

070170M0

Plass4 Enlace (universal)

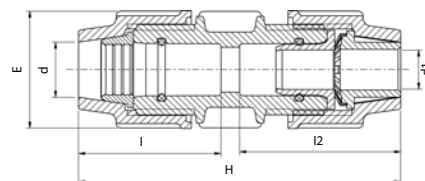


Product Code	Size d x d1	E	E1	I	I1	H	UB	UC	W
070170M07022	3/4" x 0.59"-0.87"*	2.13	2.52	2.36	3.15	6.50	1	90	0.43
070170M07027	3/4" x 0.79"-1.06"*	2.13	2.80	2.36	3.35	6.69	1	80	0.52
070170M07035	3/4" x 1.06"-1.38"*	2.13	3.27	2.36	3.54	7.09	1	60	0.67
070170M10027	1" x 0.79"-1.06"*	2.48	2.80	2.76	3.35	7.09	1	70	0.52
070170M10035	1" x 1.06"-1.38"*	2.48	3.27	2.76	3.54	7.68	1	60	0.69
070170M15050	1 1/2" x 1.38"-1.97"*	3.78	4.72	3.54	4.92	10.63	1	20	1.98

Coupling Adaptor PE to Copper

0701MZ0

Enlace adaptador PE-Cobre

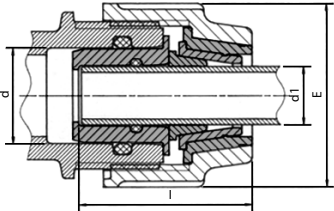


Product Code	Size d x d	E	E1	I	I1	H
0701MZ005005	1/2" x cts 1/2"	1.89	1.89	2.28	2.64	5.12
0701MZ007007	3/4" x cts 3/4"	2.13	2.13	2.36	2.72	5.20

Reducing Set

0793M

Juego reductor



Product Code	Size d x d1	E	I	UB	UC	W
0793M0007005	3/4" x 1/2 "	2.12	2.20	—	300	0.48

Ball Valve

03703T

Válvula esférica



Product Code	Size (female NPT)	Optional drain port*	H	H1**	E	I	B	A1	A2	UC	W
03703T0005	1/2"	1/8"	3.81		2.08	0.82	1.42	1.06	2.12	10	0.37
03703T0007	3/4"	1/8"	3.81		2.08	0.82	1.42	1.06	2.12	10	0.37
03703T0010	1"	1/8"	4.57		2.52	0.83	1.81	1.30	2.52	10	0.68
03703T0013	1 1/4"	1/4"	4.64		2.87	0.79	2.16	1.42	2.75	10	0.85
03703T0015**	1 1/2"	1/4"	5.66	180	3.58	0.94	2.56	1.77	3.42	10	1.56
03703T0020**	2"	1/4"	6.38	180	3.94	1.14	2.95	2.09	3.82	10	2.02

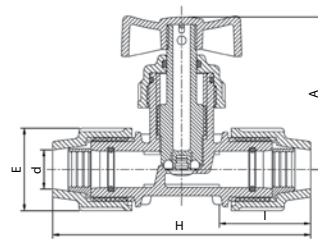
* With drain port: product code starts with 03703TF

** Equipped with long handle

Compression Stoptap (Seal NBR)

0340M0

Válvula de linea compresión (juntas NBR)

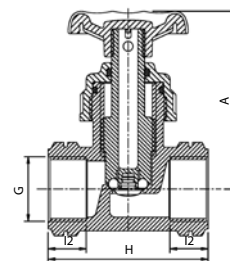


Product Code	Size d x d	E	H	I	A	UB	UC	W
0340M005	1/2" x 1/2"	1.89	5.79	2.28	3.98	5	100	0.35
0340M007	3/4" x 3/4"	2.13	6.18	2.36	3.58	5	80	0.42
0340M010	1" x 1"	2.52	6.42	2.76	3.74	5	60	0.55

Threaded Stoptap (Seal NBR)

03405

Válvula de línea rosca hembra (juntas NBR)

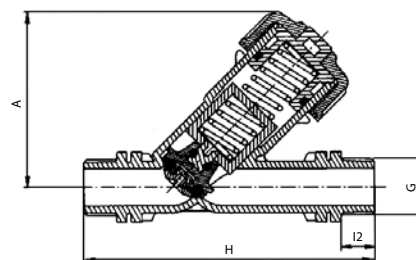


Product Code	Size G x G	H	I2	A	UB	UC	W
03405077	¾" x ¾"	3.07	0.71	3.62	5.00	140	0.25

Check Valve (Seal EPDM) Threaded Inlet & Outlet

03068

Válvula antirretorno, (sello EPDM) roscas macho

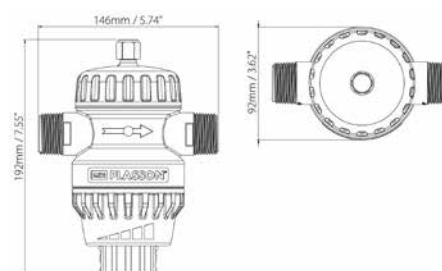


Product Code	Size G	H	I2	A	UB	UC	W
03068077	¾" x ¾"	5.94	0.71	3.78	5	140	0.31
03068110	1" x 1"	6.69	0.79	4.17	5	100	0.50
03068188	1¼" x 1¼"	7.87	0.87	5.28	—	55	0.84
03068155	1½" x 1½"	8.86	0.87	6.10	—	35	1.29
03068220	2" x 2"	10.00	1.02	7.17	—	20	2.15

Universal Pressure Regulator UPR 550

0220

Regulador Universal de Presión UPR 550

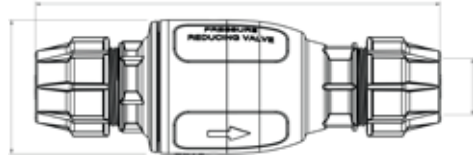


Product Code	Inlet/Outlet	Inlet Pressure	Outlet Pressure
02205950	1" NPT	7-230PSI (0.5-16 bar)	7-60 PSI (0.5-4.0 bar)

Fix Ratio Pressure Reducing Valve

03801

Válvula Reductora de Presión FIX RATIO



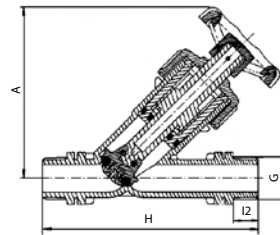
Product Code	pressure reducing ratio	Size d	D	L	W
0380120200A	2:1	2" IPS *	5.9	17.7	6.7
0380130200A	3:1	2" IPS*	5.9	17.7	6.2

* compression end for PE pipe

Angle Seat Valve (Seal NBR) Threaded Inlet & Outlet

03047

Válvula de asiento angular, (sello NBR) roscas macho

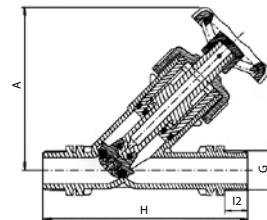


Product Code	Size G x G	H	I2	A	UB	UC	W
03047056	1/2" x 1/2"	5.28	0.63	4.45	5	120	0.30
03047073	3/4" x 3/4"	5.94	0.71	4.76	5	100	0.42
03047113	1" x 1"	6.69	0.79	5.51	—	70	0.62
03047189	1 1/4" x 1 1/4"	7.87	0.87	7.09	—	40	1.04
03047156	1 1/2" x 1 1/2"	8.86	0.87	8.15	—	24	1.62
03047223	2" x 2"	10.00	1.02	9.69	—	15	2.66

Angle Seat Valve (Seal FPM) Threaded Inlet & Outlet

03049

Válvula de asiento angular, (sello FPM) roscas macho

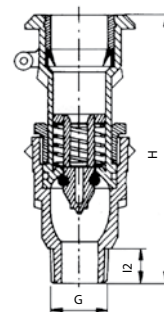


Product Code	Size G x G	H	I2	A	UB	UC	W
03049056	1/2" x 1/2"	5.28	0.63	4.45	5	120	0.30
03049073	3/4" x 3/4"	5.94	0.71	4.76	5	100	0.42
03049113	1" x 1"	6.69	0.79	5.51	—	70	0.62
03049189	1 1/4" x 1 1/4"	7.87	0.87	7.09	—	40	1.04
03049156	1 1/2" x 1 1/2"	8.86	0.87	8.15	—	24	1.62
03049223	2" x 2"	10.00	1.02	9.69	—	15	2.61

Quick Coupling Valve (Seal NBR)

03039

Válvula de acople rápido (juntas NBR)

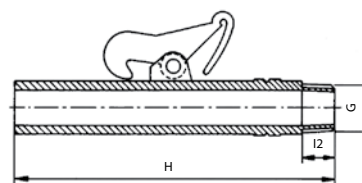


Product Code	Size G	H	I2	UB	UC	W
03039037	3/4"	5.75	0.67	5	130	0.32

Key for Quick Coupling Valve 3039

03139

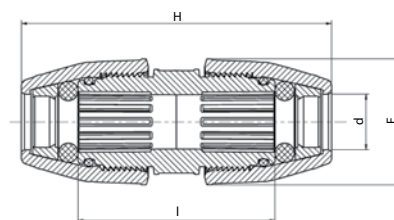
Conexión de acople rápido



Product Code	Size G	H	I2	UB	UC	W
03139020	3/4"	6.81	0.71	5	250	0.15

Universal Slip Repair Coupler

17610



Product Code	Size d inch	IPS pipe size	CTS tube size	Size d mm	H	E	L	UB	UC	W
176100014018	0.55" - 0.71"	3/8	1/2	14-18	7.08	2.13	4.68	1		
176100019022	0.74" - 0.87"	1/2	3/4, 5/8	19-22	7.08	2.28	4.68	1	90	0.55
176100024028	0.94" - 1.1"	3/4	1	24-28	7.87	2.60	5.24	1	56	0.76
176100031035	1.22" - 1.37"	1	1.1/4	31-35	8.26	2.99	5.63	1	40	1.03
176100040043	1.57" - 1.69"	1.1/4	1.1/2	40-43	9.84	3.50	5.94	1	30	1.58
176100048051	1.89" - 2.00"	1.1/2	-	48-51	10.63	3.98	6.22	1	20	2.13
176100060064	2.36" - 2.52"	2	-	60-64	12.20	4.72	6.93	1	10	3.34

Plasson Wrench

07990

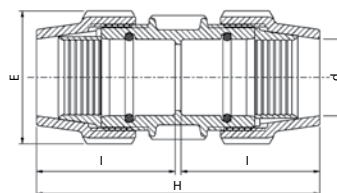
Llave Plasson



Product Code	Size	UB	UC	W
07990001	½" x 1¼"	—	250	65
07990005	1½" x 2"	—	75	296
07990000	3" x 4"	—	40	840

Adaptor Coupling - IPS x mm

0701M



Product Code	Size d (inch) x d (mm)	E	H	I	UB	UC	W
0701M0020003							
0701M0020005	1/2" X 20	1.89	4.76	2.28	10	200	0.20
0701M0025007	3/4" X 25	2.13	4.92	2.36	10	100	0.26
0701M0032010	1" X 32	2.52	5.71	2.76	5	100	0.42
0701M0050015	1 1/2" X 50	3.78	7.91	3.86	—	45	1.05
0701M0063020	2" X 63	4.45	9.05	4.41	—	35	1.17

Split Ring for UPVC and PP pipes

07003Q



Product Code	Size d	E	H	UB	UC	W
07003Q0030P	3"	4.52	2.2	1	100	0.25
07003Q0040P	4"	5.47	1.6	1	85	0.26

O Ring Viton

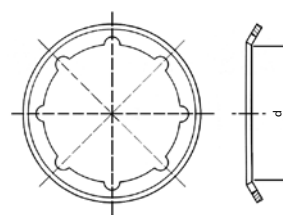
07002MV



Product Code	Size d	UB	UC	W
07002MV020	2"	—	—	—
07002MV040	4"	—	—	—

Stainless steel adaptor disc for PVC

0797M



Product Code	Size d	UB	UC	W
797M020P	2"	—	—	—

Adaptor Coupling Transition from PE to PVC/PP Pipe

0701Q6

Enlace recto de transición para tubos de PE a PVC y PP



Product Code	Size	UB	UC	W
0701Q6063020	63 PE X 50(2") PVC	—	30	0.76
0701Q6110040	110 PE X 100(4") PVC	—	5	3.00

Chamfer Tool for PE Pipes

07960

Herramienta para biselar



Product Code	Size	UB	UC	W
079600063020	1/2"-2"	—	64	202

Technical Specifications

Suitable Pipe

Plasson Fittings shown in this catalogue are suitable for use with IPS Inch size PE pipes made according to standard ASTM D 3035, ASTM F714, AWWA C906.

Threads

The threads, male and female, fit to NPT threads.

Operating Pressures

Plasson compression fittings up to 2" and compression stoptaps are tested and approved to PN 16 bars, according to ISO 14236 which corresponds to a working pressure of 230 psi. 3" and 4" fittings are approved for 200 PSI (14 bars).

The Quick Coupling Valve, Angle Seat Valve and the Check Valve working pressure is 120 psi (8 bars).

Operating Temperatures

The fittings and valves are not to be used with hot water, although they withstand the same temperature as the polyethylene pipe itself. The fittings and valves will withstand sub-zero temperatures.

Quality Assurance

Plasson's Quality Assurance System is ISO - 9001 certified.

Materials

Compression Fittings & Valves

Body: Polypropylene, high-grade copolymer

Nut: Polypropylene, high-grade copolymer

Split Ring: Acetal (POM)

Seal: Nitrile rubber (NBR)

Check valve seal: EPDM

Check Valve Spring: Stainless steel

Legend

All dimensions are in inches, weights in Lbs.

A, A1 Length from centerline to end of fitting

L, L1 Length

B, D, D1 Diameter

d, d1 Nominal diameter of fitting corresponding to nominal OD of pipe

E, E1 Overall diameter of compression fitting

G, G1 Nominal size of thread (inches)

H Overall length of fitting

I, I1 Length of portion of the pipe inside the fitting

I2 Length of thread

W Weight in Lbs

Especificaciones Técnicas

Tubería Adecuada

Los conectores Plasson mostrados en este catálogo son adecuados para usar con tubos de polietileno IPS conformes a la normativa ASTM D 3035, ASTM F714, AWWA C906.

Roscas

Las roscas, macho y hembra, de acuerdo con las normas de roscado NPT.

Presiones de Operación

Los conectores a compresión Plasson y las válvulas de línea de compresión son probados y certificados a una presión nominal de 16 bars, de acuerdo a la norma Internacional ISO 14236 que corresponde a una presión de trabajo de 230 psi.

La presión de trabajo de la Válvula de Acople Rápida, Válvula de Asiento Angular y la Válvula de Control es 120 psi (8 bars).

Temperaturas de Operación

Los conectores y las válvulas no son recomendados para usar con agua caliente, aunque ellos pueden resistir la misma temperatura que la tubería de polietileno. Los conectores y válvulas pueden resistir temperaturas bajo cero.

Aseguramiento de la Calidad

El Sistema de Aseguramiento de la Calidad Plasson está normalizado y homologado de acuerdo a la norma internacional ISO-9001.

Materiales

Conectores a Compresión

Cuerpo: Polipropileno, copolímero de alta calidad

Racor: Polipropileno, copolímero de alta calidad

Casquilla de Apriete: Acetal (POM)

Juntas: Nitrilo (NBR)

Juntas de la Válvula de Control: EPDM

Válvula de Control Resorte: Acero inoxidable

Leyenda

Medidas en pulgadas (inch),
pesos en libras (lb)

A,A1 Longitud de la línea central al externo del accesorio

L,L1 Longitud

B,D,D1 Diámetro

D,d1 Diámetro nominal del conector correspondiente al OD (diámetro exterior) nominal de la tubería (Pulgadas).

E,E1 Diámetro total del conector de compresión

G,G1 Tamaño nominal de la rosca (en pulgadas)

H Longitud nominal del conector

I, I1 Longitud del segmento de la tubería dentro del conector

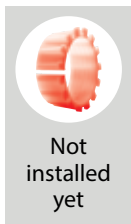
I2 Longitud de la rosca

W Peso en libras (Lb)

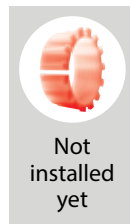
N Número de agujeros para los pernos de las bridas

Installation Instructions for Compression Fittings

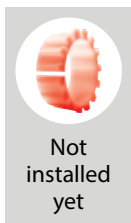
Assembly Instructions For Fittings Sizes 3", 4"



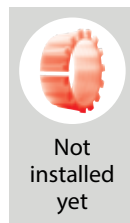
1
Cut the pipe, square. Remove the nut and split ring. Reposition nut, bush and o-ring on pipe 2 diameters back. Lubricate pipe and o-ring.



2
Push the pipe fully into the fitting body until stopped by the internal stop. Push the o-ring and plastic bush forward against the fitting. They will not enter the body of the fitting.



3
Tighten nut to push the bush and o-ring right into the fitting until the bush is flush with fitting mouth.



4
Fully unscrew nut and pull back along pipe.



5
Open split ring and place on pipe with lugs touching bush. Reuse split rings only twice, blunt rings will not bite into pipe.



6
Firmly tighten with Plasson C spanner. Overtightening can cause blow outs.

Do not use a wrench with handle lengths longer than standard Plasson C spanners. For 63mm: max. handle length should be 22cms. For 75–125mm: max. handle length should be 46cms.

Instrucciones de instalación para Accesorios de Compresión

Instrucciones para insertar la tubería

Para diámetros de 3" IPS y 4" IPS



Corte el tubo correctamente. Tome el accesorio Plasson y desármelo en el extremo a conectar. Lubricar levemente el tubo para facilitar su inserción. Inserte en el tubo la tuerca, el inserto y la junta de goma O-RING en la dirección como se muestra en la imagen.

Ingresa el tubo en el accesorio, no se requiere fuerza, deslice suavemente la junta de goma O-RING, el inserto y la tuerca hasta llegar a la rosca del cuerpo del accesorio y comience a cerrar con sus manos. El casquillo de apriete rojo por ahora queda fuera. Manténgalo a su alcance.



Cerrar la tuerca con las manos y luego con la ayuda de la llave Plasson hasta que la tuerca llega al final de la rosca del cuerpo del accesorio.

Abra la tuerca hasta el final. Podrá observar que la junta de goma y el inserto se encuentran en su lugar.

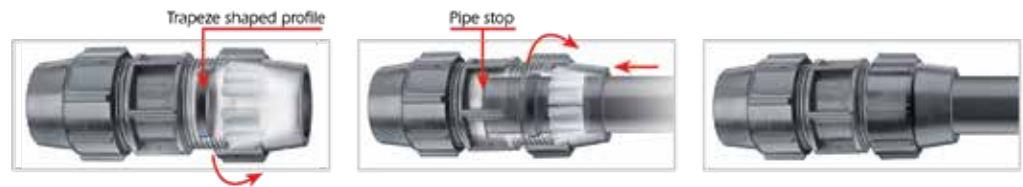


Ahora instale el Casquillo de apriete que había quedado afuera. Verifique que esta sección le permite abrirlo. Asegúrese que está en dirección correcta. Ábralo sin problemas y podrá colocarlo sobre el tubo sin quitar ninguna de las partes ya instaladas.

Una vez que el Casquillo de apriete se encuentra en su lugar sobre el tubo y en la dirección correcta vuelva a cerrar la tuerca con las manos y luego 2 vueltas más con la llave Plasson. Esta vez la tuerca no llegará hasta el final de la rosca. Esta situación es correcta. No esfuerce demasiado la rosca, no es necesario.

No hace falta ejercer palanca o utilizar llaves más largas de 46 centímetros. Utilice las llaves Plasson Catálogo 07990000 PLASSON WRENCH 63-125 para mejor cuidado de los productos.

1/2" - 2"



- Cut the pipe square, chamfer the end of the pipe. Undo the nut to the last thread. Leave the nut on the fitting while inserting the pipe.
- Twist the pipe into the fitting* through the split ring and rubber seal to the pipe stop. Tighten the nut firmly.
- Use a Plasson wrench (or similar tool) for final tightening of sizes 1 1/4" and above.
- The nut should be closed tightly, however there is no need for the nut to actually meet the body shoulder.

* Lubrication of the pipe end will ease insertion of the pipe (use silicone lubricant).

Note: Before installation ensure:

That the end of the pipe to be inserted into the fitting is free of scratches and other imperfections and that both the pipe and the fitting itself are clean of sand, mud, stones etc. If fittings are reused, ensure split ring is sharp and bites into pipe to avoid pull outs. Alternatively replace split ring.

We strongly recommend the use of PTFE tape in threaded connections.

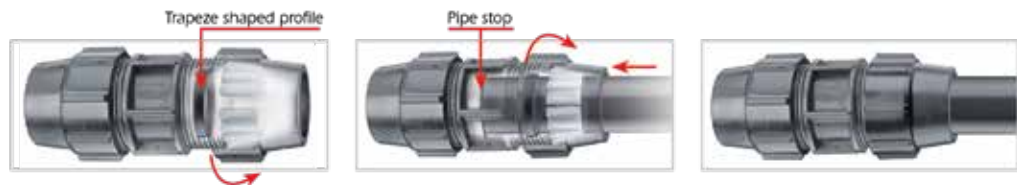
PLASS4



- Cut the pipe square and remove all burrs and sharp edges.
- Select correct fitting according to the external diameter of the pipe.
- Slide the PLASS4 fitting (universal side) onto the pipe, until it reaches the internal fins and a slight resistance is felt. Do not force the pipe end past the fins.
- Holding the PLASS4 body with a wrench, tighten the PLASS4 universal nut firmly with a wrench.
- Assemble the standard PE joint as per the standard fitting instructions.

Note: If reusing the fitting, ensure the metal teeth are located in the grip ring and pipe end does not pass the location fins in the body.

1/2" - 2"



- Corte el tubo al tamaño requerido y realice el biselado al final del tubo. Retire el racor hasta su última rosca dejándolo en el accesorio durante el próximo paso.
- Corte el tubo al tamaño requerido y realice el biselado al final del tubo. Retire el racor hasta su última rosca dejándolo en el accesorio durante el próximo paso.
- Introduzca el tubo con un movimiento circular dentro del accesorio* pasando el casquillo de apriete y el sello hasta llegar al tope interno del accesorio. Gire firmemente el racor en dirección del cuerpo del accesorio, utilizando la llave Plasson (o similar) en los tamaños 1 1/4" mm y mayores.
- Cierre el racor firmemente, aunque no es necesario de cerrarlo hasta el tope.

* A fin de facilitar la introducción es conveniente lubricar (con un lubricante que conforma las normas de aprobación de calidad del agua) y biselar el tubo.

Note: Antes de la instalación asegurar:

Que el final de la tubería que va a ser insertado dentro del conector este libre de todo tipo de imperfecciones (babas, rayos y/o todo defecto que puede determinar un factor en la función de la junta torica o el sello) y que los dos, la tubería y el conector asimismo estén limpios de arena, lodo, piedras, etc. Si los conectores ya han sido usados, asegure que el casquillo de apriete este cerrado y apretado para evitar que se salga. Si esto no sucede, entonces en el caso del reuso hay que reemplazar el casquillo de apriete.

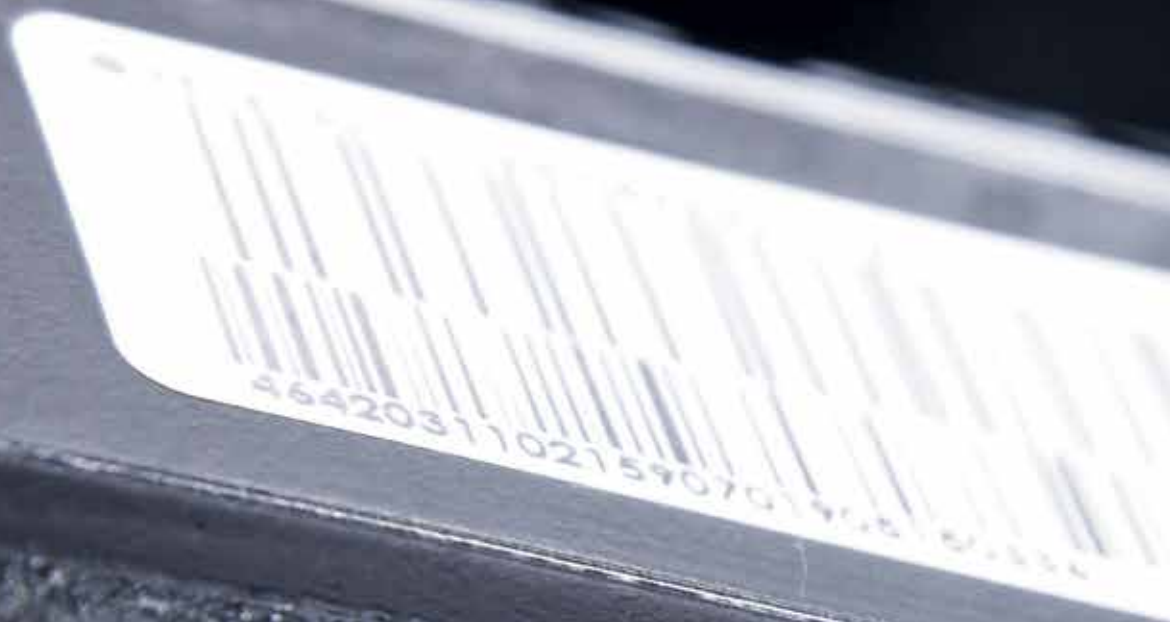
Nosotros recomendamos el uso de cinta PTFE en las conexiones roscadas.

PLASS4



- Corte el tubo a escuadra y elimine todas las virutas y cantos vivos.
- Elija el accesorio apropiado de acuerdo con el diámetro del tubo.
- Introduzca el accesorio PLASS4 (del lado Universal) en el tubo hasta que llegue al tope (las aletas internas) y sienta una ligera resistencia. No fuerce el tubo y no pase las aletas.
- Agarrando el cuerpo del PLASS4 con una llave apropiada, cierre firmemente el racor con una llave.
- Arme la unión de PE como en las instrucciones de los accesorios normales.

Nota: Si quiere reusar el accesorio debe verificar que los dientes de acero existen en el agarre y que el tubo no pase el punto de resistencia.



FLAS

USAWMATIC

A close-up photograph of a dark, textured surface, likely a pipe or fitting. A metal fitting is visible in the foreground, with the word 'SONI' stamped into it. Below the fitting, the number 'd110' is also stamped into the surface. In the background, a white object, possibly a piece of equipment or a container, is partially visible.

ELECTROFUSION FITTINGS

For HDPE Pipe, ASTM F 1055 approved

Para tubos de polietileno HDPE, aprobación ASTM F 1055

5901B, 5901U, 5901D

Page 36-37

IPS Coupling, CTS coupling,
DIPS coupling
Enlace Recto

5911, 4911N

Page 38

Reducing Coupling
Enlace Reductor

5904B

Page 39

IPS Tee 90°
IPS Enlace T 90°

5947B/5947B0S

Page 39

IPS Adjustable Elbow
IPS Codo Ajustable

5905B

Page 40

IPS Elbow 90°
IPS Codo 90°

5906B

Page 40

IPS Elbow 45°
IPS Codo 45°

5958B, 5958D

Page 41-42

IPS branch Saddle
DIPS X IPS Branch Saddle
Collarin de Derivación

5938B, 5938D

Page 43-44

IPS transition saddles (brass)
DIPS transition saddles (brass)

5938S

Page 44

Sensor Adaptor with Stainless
Steel 316 NPT thread
Adaptador para Sensor Rosca Acero Inoxidable
316 NPT

5958B

Page 45

Multi-Size Branch Saddle for
Medium and Large Pipes
Collarín de derivación para tubos de diámetros
grandes y medianos

5959BA

Page 46

Flanged Branch Saddle



5959BA_MTS

Page 47

SS Flanged Branch Saddle
with Stainless steel 316
backing ring

4952

Page 47

Repair saddle



5963B

Page 49

IPS Tapping Saddle
Toma de Servicio

5963D

Page 50

DIPS Tapping Saddle
Toma de Servicio

5913B

Page 50

High Volume Tapping Tee
Toma en carga de alto
volumen

5963BBB

Page 51

Tapping Saddle+
EFV "Gastop"

536207

Page 51

PE Ball Valve
Válvula de Bola PE

49009

Page 51

Flex Restraint
Dispositivo de sujeción

09904

Page 52

Flange Backing Ring ANSI/ ASME
class 150 lbs, steel +PP coating
Brida Revestida

5758

Page 52

Wastewater saddle 45° wye
Inlet
Ramal 45° de Salida para
Aguas Residuales

5758

Page 53

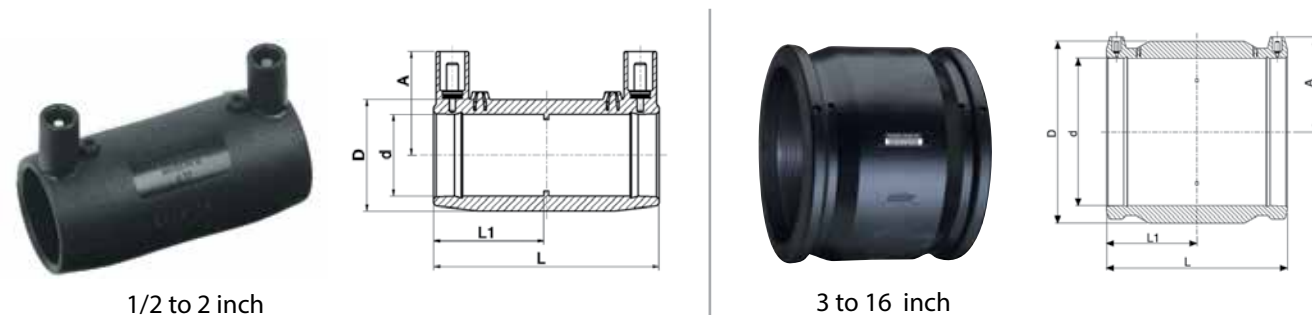
Wastewater Saddle 90° TEE
for PVC
Ramal de Servicio con
Adaptador a Tubo PVC

Page 53	Tools for Wastewater Saddles Herramientas para ramales	
Page 54-55	Technical Specifications Especificaciones Técnicas	
Page 56-61	Plasson Control Boxes Soldadoras	
Page 62-65	Installation Tools Herramientas de instalación	
Page 66-71	Installation Instructions Instrucciones de montaje	
Page 72-73	Attestation of Conformance Certificación de Conformidad	

IPS Coupling

5901B

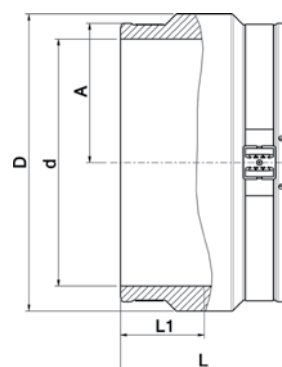
IPS Enlace Recto



Product Code	size d	L	LI	D	A	W	UC
5901B004005	1/2	2.80	1.36	1.42	1.51	0.13	480
5901B004007	3/4	2.80	1.36	1.42	1.51	0.09	480
5901B004010	1	3.15	1.54	1.77	1.66	0.145	320
5901B004013	1.1/4	3.54	1.71	2.17	1.85	0.20	200
5901B004015	1.1/2	3.94	1.91	2.68	2.09	0.36	132
5901B004020N	2	4.61	2.24	3.23	2.26	0.55	72
5901B004030	3	5.87	2.87	4.65	2.72	1.32	41
5901B004040	4	6.46	3.15	5.51	3.19	1.72	23
5901B004060	6	7.99	3.94	8.15	4.28	4.09	5
5901B004080	8	9.41	4.65	11.0	5.51	10.8	4
5901B004100	10	10.8	5.33	13.4	6.37	16.3	1
5901B003120	12	11.2	5.51	15.3	7.36	17.6	1
5901B003140	14	11.0	5.51	16.9	7.95	22.9	1
5901B003160	16	11.7	5.83	19.0	8.96	29.2	1



18 inch and up

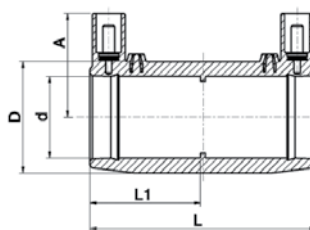


Product Code	size d	L	LI	D	A	W	UC
5901B003180	18	12.2	6.10	21.4	10.0	31.3	1
5901B003200	20	14.8	7.40	23.46	11.1	50.9	1
5901B003220	22	14.8	7.40	25.82	12.5	70.5	1
5901B003240	24	16.5	8.23	28.34	14.0	99.2	1
5901B003280	28	18.58	9.29	33.58	15.73	139	1
5901B003300	30	19.69	9.84	36.69	16.89	193.5	1

CTS Coupling

5901U

CTS Enlace Recto



Product Code	size d	L	LI	D	A	W	UC
5901U004005	1/2	2.80	1.36	1.38	1.50	0.13	480
5901U004007	3/4	2.80	1.36	1.42	1.50	0.10	480
5901U004010	1	3.15	1.54	1.73	1.65	0.16	320
5901U004013	1.1/4	3.54	1.71	2.20	1.85	0.27	200

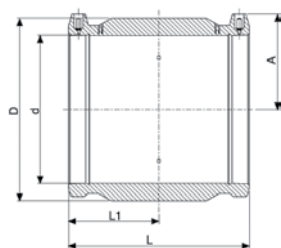
DIPS Coupling

5901D

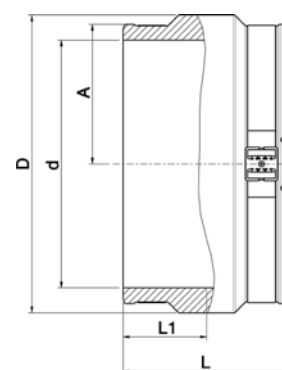
DIPS Enlace Recto



4 to 16 inch



18 inch and up

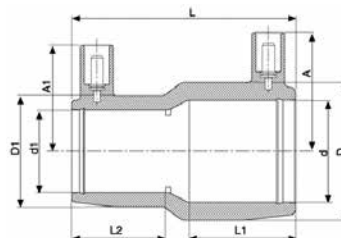


Product Code	size d	L	LI	D	A	W	UC
5901D004040	4	6.81	3.35	6.14	3.39	2.63	18
5901D004060	6	8.35	4.11	8.78	4.49	5.88	4
5901D004080	8	9.45	4.67	11.0	5.51	9.3	4
5901D004100	10	10.8	5.31	13.5	6.61	14.5	1
5901D004120	12	11	5.43	16.56	7.87	25.58	1
5901D003140	14	11.65	5.7	18.7	8.58	30.85	1
5901D003160	16	12.08	6.02	21.30	10.00	33.06	1
5901D003180	18	14.80	7.40	22.89	11.12	45.00	1
5901D003200	20	14.80	7.40	25.33	12.46	59.50	1
5901D003240	24	18.58	9.29	30.27	14.37	106	1

Reducing Coupling

5911

Enlace Reductor

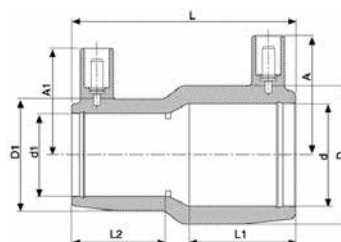


Product Code	size d x d1	L	A	A1	L1	L2	D	D1	W	UC
5911BU03010005	1 IPS x 1/2 CTS	3.15	1.61	1.40	1.51	1.29	1.25	1.25	0.136	360
5911UU03010005	1 CTS x 1/2 CTS	3.15	1.61	1.61	1.53	1.38	1.77	1.3	0.145	360
5911BU03013013	1.1/4 IPS x 1.1/4 CTS	3.53	1.85	1.85	1.77	1.77	2.18	2.18	0.23	200
5911BB03020013	2 IPS x 1.1/4 IPS	4.64	2.24	1.93	4.64	1.85	3.22	2.2	0.454	96
5911BU03020013	2 IPS x 1.1/4 CTS	4.64	1.74	2.30	2.27	1.73	3.23	2.18	0.626	96
5911BU03020020	2 IPS x 2 CTS	4.72	2.30	2.30	2.29	2.29	3.28	3.28	0.62	72

Reducing coupling adaptor - IPS to mm

4911N

Enlace Reductor

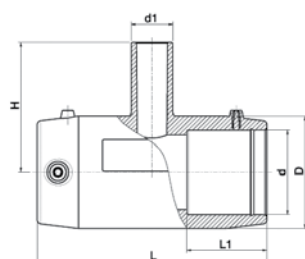


Product Code	size d x d1	L	A	A1	L1	L2	D	D1	W	UC
4911N4025020	25 x 3/4	2.80	1.50	1.50	1.36	1.36	1.42	1.42	-	-
4911N4050040	50 x 1.1/2	3.94	2.09	2.09	1.91	1.91	2.68	2.68	-	-
4911N4063050	63 x 2	0.61	2.26	2.26	2.24	2.24	3.23	3.23	-	-

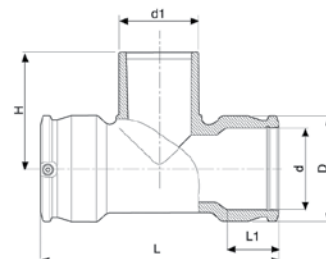
IPS Tee 90°

5904B

IPS Enlace T 90°



1 - 2 inch



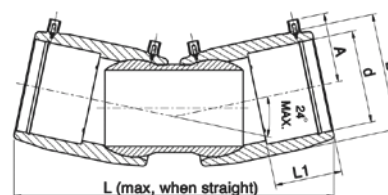
3 inch and up

Product Code	size dxd1xd	L	LI	D	H	A	W	UC
5904B003010	1	4.09	1.48	1.75	2.83	1.68	0.18	144
5904B003013	1.1/4	4.76	1.71	2.19	3.31	1.84	0.37	96
5904B003015	1.1/2	5.47	1.91	2.67	3.74	2.04	0.58	56
5904B003020	2	6.54	2.26	3.23	4.37	2.30	0.99	32
5904B003030	3	11.5	2.78	4.41	5.39	2.76	2.40	15
5904B003040	4	12.9	2.74	5.61	6.30	3.37	4.32	8

IPS Adjustable Elbow - 2 sided

5947B

IPS Codo Ajustable

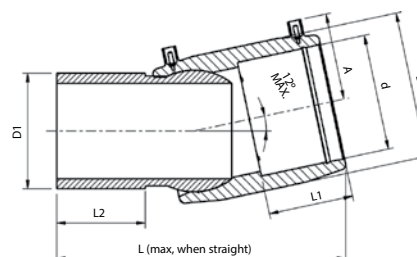


Product Code	size d	L	LI	D	A	W	UC
5947B003040	4	14.37	3.23	5.51	3.46	4.47	8
5947B003060	6	20.27	4.05	8.78	4.96	18.09	2
5947B003080	8	23.62	4.35	10.98	5.51	30.0	1
5947B003120	12	25.7	5.35	15.2	7.6	68.0	1

IPS Adjustable Elbow - 1 sided

5947B0S

IPS Codo Ajustable



Product Code	Size dXd1	L	L1	L2	D	A	W	UC
5947B0S3080	8 IPS	16.73	4.35	5.86	10.98	5.51	18.5	1
5947B0S3120	12 IPS	20.1	5.35	7.09	15.2	7.6	61.7	1

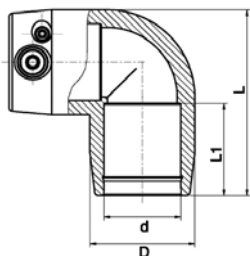
IPS Elbow 90°

5905B

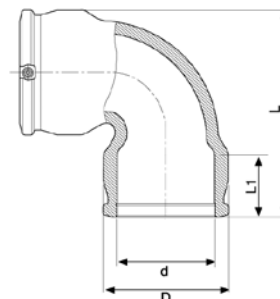
IPS Codo 90°



1 - 2 inch



3 inch and up



Product Code	size d	L	LI	D	A	W	UC
5905B003010	1	3.09	1.54	1.75	1.68	0.18	192
5905B003013	1.1/4	3.67	1.71	2.19	1.84	0.31	120
5905B003015	1.1/2	4.31	1.91	2.67	2.04	0.49	72
5905B003020	2	5.20	2.26	3.23	2.04	0.73	40
5905B003030	3	7.95	2.80	4.42	2.30	1.93	16
5905B003040	4	9.35	2.69	5.61	2.76	3.35	9

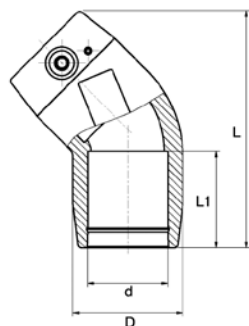
IPS Elbow 45°

5906B

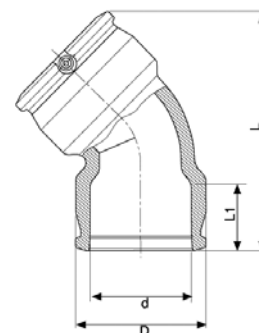
IPS Codo 45°



1 - 2 inch



3 inch and up



Product Code	size d	L	LI	D	A	W	UC
5906B003010	1	3.74	1.54	1.75	1.69	0.18	240
5906B003013	1.1/4	4.25	1.71	2.19	1.84	0.31	160
5906B003015	1.1/2	4.88	1.91	2.67	2.04	0.49	96
5906B003020	2	5.87	2.26	3.23	2.30	0.73	48
5906B003030	3	9.06	2.80	4.42	2.76	1.67	22
5906B003040	4	10.70	3.19	5.61	3.37	2.80	12

IPS Branch Saddle

5958B

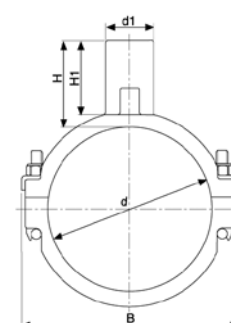
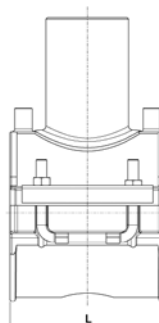
IPS Collarin de Derivación



pipe 3 - 6 inch
and outlets 2 inch



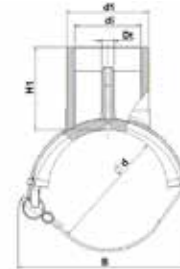
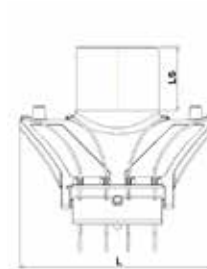
outlets 3 inch
or pipe 8 inch and up



Product Code	size d x d1	B	H	H1	L	W	UC
5958BB03030020	3 x 2	4.76	3.81	3.31	4.65	1.29	24
5958BB03030030	3 x 3	5.48	4.21	3.49	6.93	1.29	15
5958BB03040020	4 x 2	6.26	3.82	3.30	4.65	1.55	16
5958BB03040030	4 x 3	6.16	4.21	3.49	6.93	2.18	18
5958BB03060020	6 x 2	8.50	3.82	3.29	4.65	1.78	12
5958BB03060030	6 x 3	6.84	4.21	3.49	6.93	2.20	16
5958BB03080020	8 x 2	7.08	4.13	3.31	6.93	1.93	15
5958BB03080030	8 x 3	7.08	4.21	3.48	6.93	2.09	15
5958BB03100020	10 x 2	7.11	4.13	3.31	6.93	2.13	15
5958BB03100030	10 x 3	7.11	4.21	3.49	6.93	2.35	15
5958BB03120020	12 x 2	7.11	4.13	3.31	6.93	2.13	15
5958BB03120030	12 x 3	7.11	4.21	3.49	6.93	2.35	15

IPS Branch Saddle

5958BBX



Product Code	size d x d1	B	H1	LS	L	di	Dt*	UC	W
5958BBX3060040T	6 x 4	8.66	4.37	3.3	10.35	3.58	16 mm	6	3.61
5958BBX3080040T	8 x 4	10.83	4.45	3.3	11.61	3.58	16 mm	6	3.38
5958BBX3060040	6 x 4	8.66	4.37	3.3	10.35	3.58	W/O test tube	6	3.61
5958BBX3080040	8 x 4	10.83	4.45	3.3	11.61	3.58	W/O test tube	6	3.38

* Dt – 16 mm tube , for connecting pressure test pump by special quick coupling

DIPS x IPS Branch Saddle

5958D

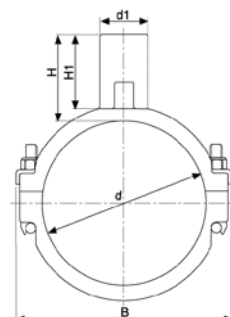
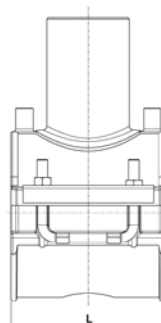
DIPS x IPS Collarin de Derivación



pipe 4 - 6 inch
and outlets 2 inch



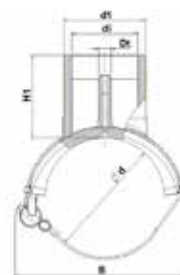
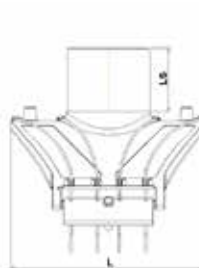
outlets 3 inch
or pipe 8 inch and up



Product Code	size d x d1	B	H	H1	L	W	UC
5958DB03040020	4 x 2	6.26	3.82	3.30	4.65	1.55	16
5958DB03040030	4 x 3	8.50	4.21	3.49	4.65	2.18	18
5958DB03060020	6 x 2	8.50	3.82	3.29	4.65	1.78	12
5958DB03060030	6 x 3	6.96	3.82	3.29	6.93	2.20	15
5958DB03080020	8 x 2	7.08	4.13	3.31	6.93	1.93	15
5958DB03080030	8 x 3	7.08	4.21	3.48	6.93	2.09	15
5958DB03100020	10 x 2	7.11	4.13	3.31	6.93	2.13	15
5958DB03100030	10 x 3	7.11	4.21	3.49	6.93	2.35	15
5958DB03120020	12 x 2	7.11	4.13	3.31	6.93	2.13	15
5958DB03120030	12 x 3	7.11	4.21	3.49	6.93	2.35	15

DIPS X IPS Branch Saddle

5958DBX

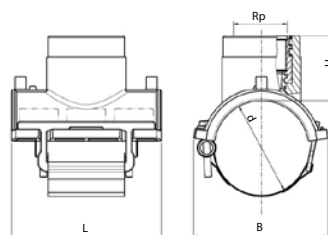


Product Code	size d x d1	B	H1	LS	L	di	Dt*	UC	W
5958DBX3060040T	6 x 4	8.66	4.37	3.3	10.35	3.58	16 mm	6	3.37
5958DBX3080040T	8 x 4	10.83	4.45	3.3	11.61	3.58	16 mm	6	3.37

* Dt – 16 mm tube , for connecting pressure test pump by special quick coupling

IPS transition saddles (brass)

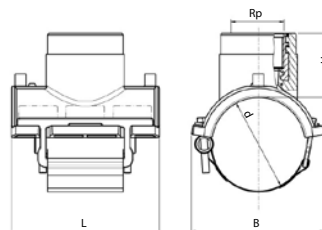
5938B



Product Code	Size d X Rp	B	L	H	W	UC
5938B00303045	3"IPS X 1"NPT	5.38	6.93	1.65	2.05	-
5938B00303060	3"IPS X 1"CORP	5.38	6.93	1.65	2.08	-
5938B00303055	3"IPS X 2"NPT	5.38	6.93	1.84	2.31	-
5938B00303070	3"IPS X 2"CORP	5.38	6.93	1.84	2.55	-
5938B00304045	4"IPS X 1"NPT	6.15	6.93	1.65	2.06	-
5938B00304060	4"IPS X 1"CORP	6.15	6.93	1.65	2.08	-
5938B00304055	4"IPS X 2"NPT	6.15	6.93	1.84	2.33	-
5938B00304070	4"IPS X 2"CORP	6.15	6.93	1.84	2.57	-
5938B00306045	6"IPS X 1"NPT	6.84	6.93	1.65	2.06	-
5938B00306060	6"IPS X 1"CORP	6.84	6.93	1.65	2.09	-
5938B00306055	6"IPS X 2"NPT	6.84	6.93	1.84	2.36	-
5938B00306070	6"IPS X 2"CORP	6.84	6.93	1.84	2.60	-
5938B00308045	8"IPS X 1"NPT	7.08	6.93	1.65	2.07	-
5938B00308060	8"IPS X 1"CORP	7.08	6.93	1.65	2.11	-
5938B00308055	8"IPS X 2"NPT	7.08	6.93	1.84	2.40	-
5938B00308070	8"IPS X 2"CORP	7.08	6.93	1.84	2.61	-
5938B00310045	10"IPS X 1"NPT	7.1	6.93	1.65	2.08	-
5938B00310060	10"IPS X 1"CORP	7.1	6.93	1.65	2.12	-
5938B00310055	10"IPS X 2"NPT	7.1	6.93	1.84	2.45	-
5938B00310070	10"IPS X 2"CORP	7.1	6.93	1.84	2.66	-
5938B00312045	12"IPS X 1"NPT	7.67	6.93	1.84	2.09	-
5938B00312060	12"IPS X 1"CORP	7.67	6.93	1.84	2.09	-
5938B00312055	12"IPS X 2"NPT	7.67	6.93	1.84	2.45	-
5938B00312070	12"IPS X 2"CORP	7.67	6.93	1.84	2.45	-

DIPS transition saddles (brass)

5938D



Product Code	Size d X Rp	B	L	H	W	UC
5938D00304045	4"DIPS X 1"NPT	6.5	6.93	1.65	2.07	-
5938D00304060	4"DIPS X 1"CORP	6.5	6.93	1.65	2.09	-
5938D00304055	4"DIPS X 2"NPT	6.5	6.93	1.84	2.35	-
5938D00304070	4"DIPS X 2"CORP	6.5	6.93	1.84	2.60	-
5938D00306045	6"DIPS X 1"NPT	6.96	6.93	1.65	2.06	-
5938D00306060	6"DIPS X 1"CORP	6.96	6.93	1.65	2.1	-
5938D00306055	6"DIPS X 2"NPT	6.96	6.93	1.84	2.37	-
5938D00306070	6"DIPS X 2"CORP	6.96	6.93	1.84	2.60	-
5938D00308045	8"DIPS X 1"NPT	7.08	6.93	1.65	2.07	-
5938D00308060	8"DIPS X 1"CORP	7.08	6.93	1.65	2.11	-
5938D00308055	8"DIPS X 2"NPT	7.08	6.93	1.84	2.42	-
5938D00308070	8"DIPS X 2"CORP	7.08	6.93	1.84	2.65	-
5938D00310045	10"DIPS X 1"NPT	7.1	6.93	1.65	2.09	-
5938D00310060	10"DIPS X 1"CORP	7.1	6.93	1.65	2.13	-
5938D00310055	10"DIPS X 2"NPT	7.1	6.93	1.84	2.46	-
5938D00310070	10"DIPS X 2"CORP	7.1	6.93	1.84	2.67	-
5938D00312045	12"DIPS X 1"NPT	7.67	6.93	1.84	2.09	-
5938D00312060	12"DIPS X 1"CORP	7.67	6.93	1.84	2.09	-
5938D00312055	12"DIPS X 2"NPT	7.67	6.93	1.84	2.45	-
5938D00312070	12"DIPS X 2"CORP	7.67	6.93	1.84	2.45	-

Sensor Adaptor with Stainless Steel 316 NPT thread

5938S

Adaptador para Sensor Rosca Acero Inoxidable 316 NPT



Product Code	Size d	H	B	L	Rp (NPT)	UC	W
5938S3400005	4"IPS -16"IPS	1.38	3.34	4.05	1/2	140	0.24
5938S3400007	4"IPS -16"IPS	1.38	3.34	4.05	3/4	140	0.26
5938S3400010	4"IPS -16"IPS	1.38	3.34	4.05	1	140	0.33
5938S3900005	18"IPS -48"IPS	1.38	3.34	4.05	1/2	140	0.24
5938S3900007	18"IPS -48"IPS	1.38	3.34	4.05	3/4	140	0.26
5938S3900010	18"IPS -48"IPS	1.38	3.34	4.05	1	140	0.33

* Installation only by using special clamping tool / Debe instalarse únicamente con esta herramienta de sujeción

Clamping Tool For Sensor Adaptor

29144.4706K000

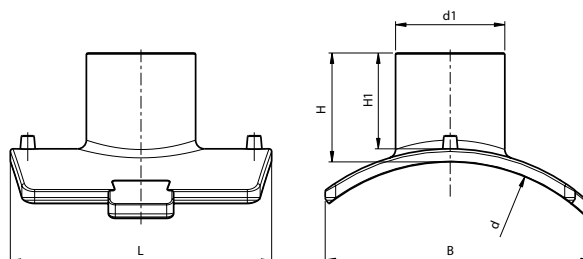
Clamping Tool For Sensor Adaptor DN110-DN1200 / 4"IPS -16"IPS



Multi-Size Branch Saddle for Medium and Large Pipes

5958B

Collarín de derivación para tubos de diámetros grandes y medianos



Product Code	Main pipe range d IPS	Main pipe range d DIPS	Branch size d1	H	H1	B	L	W	UC
5958BB03160030T	10-16	10-14	3 IPS	4.09	4.60	12.00	11.81	3.3	7
5958BB03160040T	10-16	10-14	4 IPS	4.13	4.72	12.00	11.81	3.5	7
5958BD03160040T	10-16	10-14	4 DIPS	4.33	4.92	12.00	11.81	3.75	7
5958BB03280030T	18-28	16-24	3 IPS	4.09	4.60	12.40	11.81	3.3	7
5958BB03280040T	18-28	16-24	4 IPS	4.13	4.72	12.40	11.81	3.5	7
5958BD03280040T	18-28	16-24	4 DIPS	4.33	4.92	12.40	11.81	3.75	7

* To be installed only by using Plasson clamping tool for multi-size branch saddle 10-28

* Debe instalarse únicamente con la herramienta de fijación de Plasson para collarines de derivación de distintos tamaños 10-28

Installation tools for Plasson multi-size branch saddle

Herramientas de instalación para collarines de derivación de Plasson de distintos tamaños

29144.4701.004

Clamping tool for Plasson multi-size branch saddle 10-28 inch –

Complete Kit - Suitcase with belts, ratchets and rounding head;

incl. splittable plates 3IPS"/4IPS"/4"DIPS

Presilla de sujeción para collarines 10-28 inch - Juego complete



29144.4702.002

Core cutter kit for PLASSON-Saddle outlet 3"IPS, 4"IPS, 4" DIPS

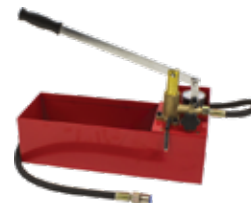
(complete with suitcase, pilot drill, SDS-plus and SDS-Max adapter, chuck adapter)

Juego de punzones para collarines de Plasson 3 IPS / 4 IPS / 4 DIPS



29144.4701.005

Pressure test pump with adapter for PLASSON-Saddle



29141.4701.040

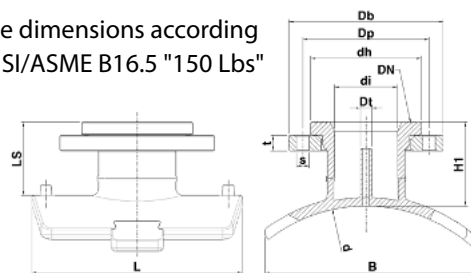
Special adapter for the test tube at Plasson saddles (16 mm)

Flanged Branch Saddle

5959BA



Flange dimensions according
to ANSI/ASME B16.5 "150 Lbs"



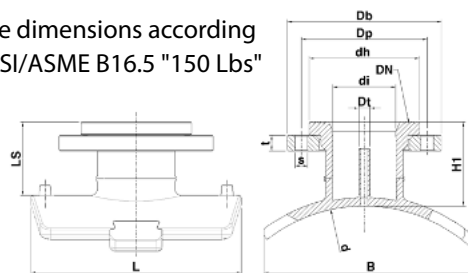
Product Code	Main pipe IPS	DN ANSI	B	L	H1	Db	dh	di	Dp	t	s	No. of H	Tool sets
5959BA03160040MT	10-16	4	11.80	12.00	4.70	9.00	6.22	3.97	7.50	0.86	0.75	8	A+D
5959BA03160060MT	10-16	6	11.80	12.00	5.19	10.98	8.34	5.15	9.50	0.94	0.86	8	A+D
5959BA03280040MT	18-28	4	11.80	12.40	4.70	9.00	6.22	3.97	7.50	0.86	0.75	8	A+D
5959BA03280060MT	18-28	6	11.80	12.40	5.19	10.98	8.34	5.15	9.50	0.94	0.86	8	A+D
5959BA03240080MT	22-24	8	15.94	16.53	10.82	11.22	10.55	7.24	11.75	1.06	0.86	8	B+C+D
5959BA03300080MT	30	8	16.14	18.50	10.82	11.22	10.55	7.24	11.75	1.06	0.86	8	B+C+D
5959BA03320080MT	32	8	16.14	18.50	10.82	11.22	10.55	7.24	11.75	1.06	0.86	8	B+C+D
5959BA03360040MT	36	4	12.59	11.81	4.70	9.00	6.22	3.97	7.50	0.86	0.75	8	A+C+D
5959BA03360060MT	36	6	7.08	11.81	5.19	10.98	8.34	5.15	9.50	0.94	0.86	8	A+C+D
5959BA03360080MT	36	8	16.33	18.50	10.82	11.22	10.55	7.24	11.75	1.06	0.86	8	B+C+D
5959BA03420040MT	42	4	12.59	11.81	4.70	9.00	6.22	3.97	7.50	0.86	0.75	8	A+C+D
5959BA03420060MT	42	6	7.08	11.81	5.19	10.98	8.34	5.15	9.50	0.94	0.86	8	A+C+D
5959BA03480040MT	48	4	12.59	11.81	4.70	9.00	6.22	3.97	7.50	0.86	0.75	8	A+C+D
5959BA03480060MT	48	6	7.08	11.81	5.19	10.98	8.34	5.15	9.50	0.94	0.86	8	A+C+D
5959BA03480080MT	48	8	17.60	18.50	10.82	11.22	10.55	7.24	11.75	1.06	0.86	8	B+C+D

* **Dt** – 16 mm tube , for connecting pressure test pump by special quick coupling.

SS Flanged Branch Saddle With Stainless steel 316 backing ring 5959BA_MTS



Flange dimensions according to ANSI/ASME B16.5 "150 Lbs"

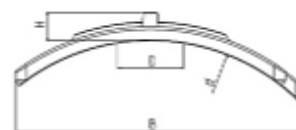
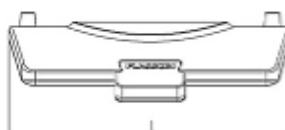


Product Code	Main pipe IPS	DN ANSI	B	L	H1	Db	dh	di	Dp	s	No. of H	Tool sets
5959BA03160040MTS	10-16	4	11.80	12.00	4.70	9.00	6.22	3.97	7.50	0.75	8	A+D
5959BA03160060MTS	10-16	6	11.80	12.00	5.19	10.98	8.34	5.15	9.50	0.86	8	A+D
5959BA03280040MTS	18-28	4	11.80	12.40	4.70	9.00	6.22	3.97	7.50	0.75	8	A+D
5959BA03280060MTS	18-28	6	11.80	12.40	5.19	10.98	8.34	5.15	9.50	0.86	8	A+D
5959BA03360040MTS	36	4	12.59	11.81	4.70	9.00	6.22	3.97	7.50	0.75	8	A+C+D
5959BA03360060MTS	36	6	7.08	11.81	5.19	10.98	8.34	5.15	9.50	0.86	8	A+C+D
5959BA03420040MTS	42	4	12.59	11.81	4.70	9.00	6.22	3.97	7.50	0.75	8	A+C+D
5959BA03420060MTS	42	6	7.08	11.81	5.19	10.98	8.34	5.15	9.50	0.86	8	A+C+D
5959BA03480040MTS	48	4	12.59	11.81	4.70	9.00	6.22	3.97	7.50	0.75	8	A+C+D
5959BA03480060MTS	48	6	7.08	11.81	5.19	10.98	8.34	5.15	9.50	0.86	8	A+C+D

* Dt – 16 mm tube , for connecting pressure test pump by special quick coupling.

Repair Saddle

4952



Product Code	Size d	B	H	L	Max damaged area diameter D	UC	W
495204900070	10-36 IPS	12.0	1.18	11.8	2.75"	24	2.86
495203900230	16-36 IPS	18.54	16.70	24.0	9.00"	-	15.18

Installation tools for Flanged branch Saddles

Tool set A - For clamping 4", 6" flanges

29144.4701.003

Clamping tool set for saddles with outlets DN90-DN160 and flanges 4", 6"

The set includes:

- Splittable Plates: DN90, DN 110 /4", DN 125, DN 160/6"
- 2 Straps
- 2 ratchets
- Rounding Ring
- Removal tool for pressure test tube
- Adaptor for 16 mm test tube



Tool set B - For clamping 8" flanges - all pipes. For 4", 6" flanges - to pipes => 30"

29144.4701.009

Straps and ratchets kit

The set includes:

- 3 Straps
- 3 Ratchets
- Torque wrench
- Removal tool for pressure test tube
- Adaptor for 16 mm test tube



Tool set C - For clamping 8" flanges

29144.4701.251

Clamping plate kit

29142.4701.072

Pressing tool for 200 mm /8" flange

The set includes:

- Clamping plate 225/250 mm and 8" flange
- Rounding ring for 200/225



Tool set D - Core cutter (select according to flange size)

29142.4704.087

Core Cutter for 110 mm / 4" flange

29142.4704.127

Core cutter for 160 mm /6" flange

29142.4704.179

Core Cutter for 225 mm /8" flange



IPS Tapping Tee

5963B

Toma de Servicio



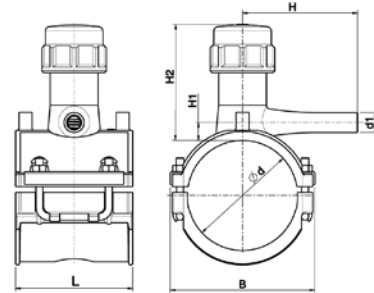
1.1/4 - 2 inch



3 - 6 inch



8 inch



Product Code	Size d x d1	H	B	H1	H2	L	W	UC	Head type
5963BU03013005	1.1/4 IPS x 1/2 CTS	3.74	2.54	0.27	3.69	3.94	0.61	52	A
5963BB03013005	1.1/4 IPS x 1/2 IPS	3.74	2.54	0.31	3.69	3.94	0.61	52	A
5963BU03013007	1.1/4 IPS x 3/4 CTS	3.74	2.54	0.39	3.69	3.94	0.61	52	A
5963BB03013007	1.1/4 IPS x 3/4 IPS	3.74	2.54	0.39	3.69	3.94	0.61	52	A
5963BU03013010	1.1/4 IPS x 1 CTS	3.74	2.54	0.39	3.69	3.94	0.61	52	A
5963BB03013010	1.1/4 IPS x 1 IPS	3.74	2.54	0.47	3.69	3.94	0.61	52	A
5963BU03015005	1.1/2 IPS x 1/2 CTS	3.74	2.92	0.27	3.86	3.94	0.65	40	A
5963BB03015005	1.1/2 IPS x 1/2 IPS	3.74	2.92	0.27	3.86	3.94	0.65	40	A
5963BU03015007	1.1/2 IPS x 3/4 CTS	3.74	2.92	0.27	3.86	3.94	0.65	40	A
5963BB03015007	1.1/2 IPS x 3/4 IPS	3.74	2.92	0.35	3.86	3.94	0.65	40	A
5963BU03015010	1.1/2 IPS x 1 CTS	3.74	2.92	0.39	3.86	3.94	0.65	40	A
5963BB03015010	1.1/2 IPS x 1 IPS	3.74	2.92	0.45	3.86	3.94	0.65	40	A
5963BU03020005N	2 IPS x 1/2 CTS	3.74	3.50	0.27	3.86	4.65	0.79	24	A
5963BB03020005N	2 IPS x 1/2 IPS	3.74	3.50	0.35	3.86	4.65	0.79	24	A
5963BU03020007N	2 IPS x 3/4 CTS	3.74	3.50	0.47	3.86	4.65	0.79	24	A
5963BB03020007N	2 IPS x 3/4 IPS	3.74	3.50	0.27	3.86	4.65	0.79	24	A
5963BU03020010N	2 IPS x 1 CTS	3.74	3.50	0.35	3.86	4.65	0.79	24	A
5963BB03020010N	2 IPS x 1 IPS	3.74	3.50	0.47	3.86	4.65	0.79	24	A
5963BB03020013	2 ips x 1.1/4 ips	4.72	3.50	2.56	3.86	4.65	2.09	16	B
5963BB03020020	2 IPS x 2 IPS	4.72	4.05	2.56	6.97	4.65	2.34	16	B
5963BU03030005	3 IPS x 1/2 CTS	3.44	4.76	2.56	6.97	4.65	2.50	14	B
5963BB03030005	3 IPS x 1/2 IPS	3.35	4.76	2.56	6.97	4.65	2.50	14	B
5963BU03030007	3 IPS x 3/4 CTS	3.39	4.76	2.56	6.97	4.65	2.50	14	B
5963BB03030007	3 IPS x 3/4 IPS	3.39	4.76	2.56	6.97	4.65	2.50	14	B
5963BU03030010	3 IPS x 1 CTS	4.13	4.76	2.56	6.97	4.65	2.50	14	B
5963BB03030010	3 IPS x 1 IPS	4.13	4.76	2.56	6.97	4.65	2.50	14	B
5963BB03030013	3 IPS x 1.1/4 IPS	4.33	4.76	2.56	6.97	4.65	2.65	14	B
5963BB03030015	3 IPS x 1.1/2 IPS	4.49	4.76	2.56	6.97	4.65	2.65	14	B
5963BB03030020	3 IPS x 2 IPS	4.72	4.76	2.56	6.97	4.65	2.65	14	B
5963BU03040005	4 IPS x 1/2 CTS	3.44	6.26	2.56	6.97	4.65	2.65	12	B
5963BB03040005	4 IPS x 1/2 IPS	3.35	6.26	2.56	6.97	4.65	2.65	12	B
5963BU03040007	4 IPS x 3/4 CTS	3.39	6.26	2.56	6.97	4.65	2.65	12	B
5963BB03040007	4 IPS x 3/4 IPS	3.39	6.26	2.56	6.97	4.65	2.65	12	B
5963BU03040010	4 IPS x 1 CTS	4.13	6.26	2.56	6.97	4.65	2.65	12	B
5963BB03040010	4 IPS x 1 IPS	4.13	6.26	2.56	6.97	4.65	2.65	12	B
5963BB03040013	4 IPS x 1.1/4 IPS	4.33	6.26	2.56	6.97	4.65	2.77	12	B
5963BB03040015	4 IPS x 1.1/2 IPS	4.49	6.26	2.56	6.97	4.65	2.77	12	B
5963BB03040020	4 IPS x 2 IPS	4.72	6.26	2.56	6.97	4.65	2.77	12	B
5963BU03060005	6 IPS x 1/2 CTS	3.44	8.50	2.56	6.97	4.65	3.08	10	B
5963BB03060005	6 IPS x 1/2 IPS	3.35	8.50	2.56	6.97	4.65	3.08	10	B
5963BU03060007	6 IPS x 3/4 CTS	3.39	8.50	2.56	6.97	4.65	3.08	10	B
5963BB03060007	6 IPS x 3/4 IPS	3.39	8.50	2.56	6.97	4.65	3.08	10	B
5963BU03060010	6 IPS x 1 CTS	4.13	8.50	2.56	6.97	4.65	3.08	10	B
5963BB03060010	6 IPS x 1 IPS	4.13	8.50	2.56	6.97	4.65	3.08	10	B
5963BB03060013	6 IPS x 1.1/4 IPS	4.33	8.50	2.56	6.97	4.65	3.22	10	B
5963BB03060015	6 IPS x 1.1/2 IPS	4.49	8.50	2.56	6.97	4.65	3.22	10	B
5963BB03060020	6 IPS x 2 IPS	4.72	8.50	2.56	6.97	4.65	3.22	10	B
5963BU03080005	8 IPS x 1/2 CTS	3.44	7.08	2.56	6.97	6.93	3.17	10	B
5963BB03080005	8 IPS x 1/2 IPS	3.35	7.08	2.56	6.97	6.93	3.17	10	B
5963BU03080007	8 IPS x 3/4 CTS	3.39	7.08	2.56	6.97	6.93	3.17	10	B
5963BB03080007	8 IPS x 3/4 IPS	3.39	7.08	2.56	6.97	6.93	3.17	10	B
5963BU03080010	8 IPS x 1 CTS	4.13	7.08	2.56	6.97	6.93	3.17	10	B
5963BB03080010	8 IPS x 1 IPS	4.13	7.08	2.56	6.97	6.93	3.17	10	B
5963BB03080013	8 IPS x 1.1/4 IPS	4.33	7.08	2.56	6.97	6.93	3.30	10	B
5963BB03080015	8 IPS x 1.1/2 IPS	4.49	7.08	2.56	6.97	6.93	3.30	10	B
5963BB03080020	8 IPS x 2 IPS	4.72	7.08	2.56	6.97	6.93	3.30	10	B

DIPS tapping saddle

5963D

Toma de Servicio



Product Code	Size d x d1	H	B	H1	H2	L	W	UC
5963DB03040010	4 DIPS x 1 IPS	4.13	6.26	2.56	6.97	4.65	2.65	12
5963DB03040020	4 DIPS x 2 IPS	4.33	6.26	2.56	6.97	4.65	2.77	12
5963DB03060010	6 DIPS x 1 IPS	4.13	8.50	2.56	6.97	4.65	3.08	10
5963DB03060020	6 DIPS x 2 IPS	4.72	8.50	2.56	6.97	4.65	3.22	10
5963DB03080010	8 DIPS x 1 IPS	4.13	7.08	2.56	6.97	6.93	3.17	10
5963DB03080020	8 DIPS x 2 IPS	4.72	7.08	2.56	6.97	6.93	3.30	10

Cap for pressure test

29601

Product Code	Fits Plasson Tapping Tee (main pipe size)	"Head" type
29601001	1 1/4" - 2"	A (40)
29601002	3" - 8"	B (57)
29601004	3" - 12"	HVTT (73)



High Volume Tapping Tee (HVTT)

5913B

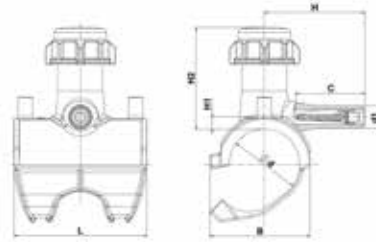
Toma en carga de alto volumen



Product Code	Pipe size D	Outlet size d1	H	B	H1	H2	L	A
5913BB03030013	3 IPS	1.1/4 IPS	4.72	5.47	2.95	7.67	6.93	2.63
5913BB03030020	3 IPS	2 IPS	5.11	5.47	2.95	7.67	6.93	3.03
5913BB03040013	4 IPS	1.1/4 IPS	4.72	6.14	2.95	7.67	6.93	2.63
5913BB03040020	4 IPS	2 IPS	5.11	6.14	2.95	7.67	6.93	3.03
5913BB03060013	6 IPS	1.1/4 IPS	4.72	6.81	2.95	7.67	6.93	2.63
5913BB03060020	6 IPS	2 IPS	5.11	6.81	2.95	7.67	6.93	3.03
5913BB03080013	8 IPS	1.1/4 IPS	4.72	7.08	2.95	7.67	6.93	2.63
5913BB03080020	8 IPS	2 IPS	5.11	7.08	2.95	7.67	6.93	3.03
5913BB03100013	10 IPS	1.1/4 IPS	4.72	7.08	2.95	7.67	6.93	2.63
5913BB03100020	10 IPS	2 IPS	5.11	7.08	2.95	7.67	6.93	3.03
5913BB03120013	12 IPS	1.1/4 IPS	4.72	7.67	2.95	7.67	6.93	2.63
5913BB03120020	12 IPS	2 IPS	5.11	7.67	2.95	7.67	6.93	3.03

Tapping Tee + Gastop EFV

5963BBB

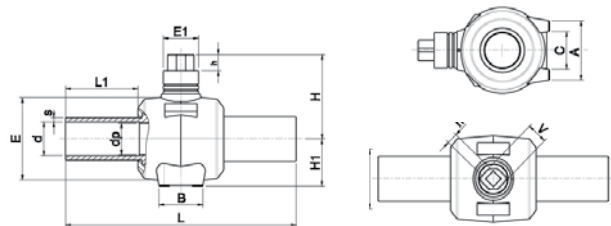


Product Code	Size d X d1	H	H1	H2	B	C	L	Pressure range Bar	Normal flow, Gas at min pressure m³/h	Closing flow, Gas at min pressure m³/h
5963BBB3020005	2 IPS X 1/2 IPS	3.74	0.29	3.86	3.50	2.40	4.65	1-5	25	41-49
5963BBB3030005	3 ips X 1/2 IPS	3.35	2.56	6.97	4.76	1.65	4.65	1-5	25	41-49
5963BBB3040005	4 ips X 1/2 IPS	3.44	2.56	6.97	6.26	1.65	4.65	1-5	25	41-49
5963BBB3060005	6 ips X 1/2 IPS	3.35	2.56	6.97	8.50	1.65	4.65	1-5	25	41-49
5963BBB3080005	8 ips X 1/2 IPS	3.35	2.56	6.97	7.08	1.65	6.93	1-5	25	41-49

PE Ball Valve

536207

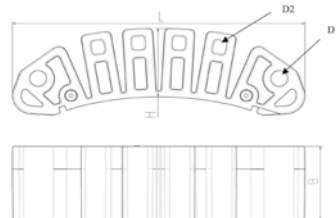
Válvula de Bola PE



Product Code	d	dp	s	D	L	L1	A	B	C	E	E1	H	H1	h	V	U	
536207010	1 ips	24	3.3	26.6	300	100	64	50	47.8	80	70	130	48	40	50	26	708
536207020	2" ips	48	6	48.3	418	130	83	86	53	120	84	161	76	40	50	26	2060

Flex Restraint

49009



Product Code	Size	L	H	B	D1	D2	UC	W
49009999	6" IPS -63" IPS	7.95	1.57	2.56	no hole	no hole	60	0.66
49009998	6" IPS -63" IPS	9.33	2.36	2.56	0.53	0.43	48	1.04

Tension Belt for Flex Restraint

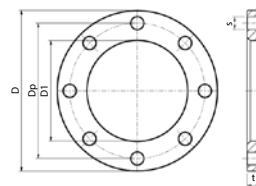
Product Code - 29144.4704.003



Flange Backing Ring ANSI/ ASME class 150 lbs, steel +PP coating

09904

Brida Revestida

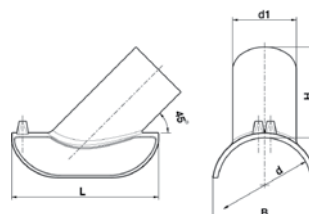


Product Code	Flange Size, inch	D	D1	Dp	S	No. of holes
09904005	1/2"	90	28	60.3	15.9	4
09904007	3/4"	100	34	69.9	15.9	4
09904010	1"	110	42	79.4	15.9	4
09904015	1.1/2"	125	62	98.4	15.9	4
09904020	2"	150	78	120.7	19.1	4
09904025	2 1/2"	180	92	139.7	19.1	4
09904030	3"	190	108	152.4	19.1	4
09904040	4"	230	128	190.5	19.1	8
09904060	6"	280	178	241.3	22.2	8
09904080	8"	345	238	298.4	22	8
09904100	10"	405	288	362	25.4	12
09904120	12"	485	338	431.8	25.4	12
09904140	14"	535	376	476.3	28.6	12
09904160	16"	595	430	539.6	28.6	16

IPS and DIPS Wastewater Saddle 45° Wye Inlet

5758

Ramal 45° de Salida para Aguas Residuales

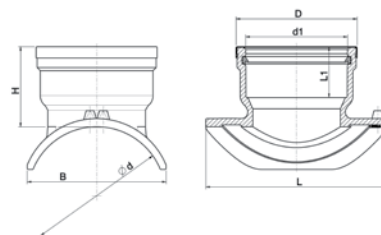


Product Code	Size d x d1	B	H	L	W	UC
5758B0A4070110	6 IPS - 7 IPS x 110 MM	7.22	5.70	10.0	1.45	10
5758D0A4120110	8 IPS - 12 DIPS x 110 MM	8.70	6.21	10.0	1.45	10

IPS and DIPS Wastewater Saddle Tee 90° for PVC

5758

Ramal de Servicio con Adaptador a Tubo PVC



Product Code	Size d x d1	B	H	L	L1	D	W	UC
5758BPV4080060	8 IPS x 6 PSM	8.19	4.92	11.4	3.15	7.48	3.66	4
5758BPV4100060	8 DIPS - 10 IPS x 6 PSM	8.85	4.92	3.15	3.15	7.48	3.00	6
5758BPV4140060	10 DIPS - 14 IPS x 6 PSM	9.72	4.92	11.4	3.15	7.48	2.93	6
5758BPV4220060	14 DIPS - 22 IPS x 6 PSM	10.3	4.92	3.15	3.15	7.48	3.28	6

NOTE: Special drilling and clamping tools required. Please consult your Plasson / IPF representative.
 Se requieren herramientas especiales de perforación y sujeción. Consulte a su representante de Plasson / IPF.
 PSM dimensions to ASTM D-3034.
 PSM dimensiones para ASTM D-3034.

Drilling and Clamping Tools for Wastewater Saddles

Herramientas para ramales

29144.4703.001

Cutting and Clamping tool for PLASSON waste water saddle 45° Wye

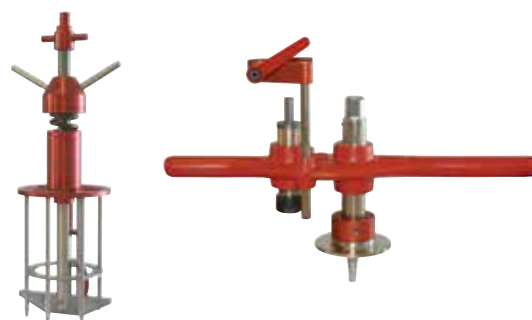
Sujetador + Sierra perforadora para Ramal con salida 45° para Aguas Residuales



29144.4700.004

Clamping & Drilling Tool for 5758 Wastewater Saddle 90°

Sujetador Perforador para Ramal de Servicio con salida 90°



Technical Specifications for Plasson ElectroFusion Fittings

Fittings Material

All Plasson ElectroFusion fittings (rated 160 psi and higher) are manufactured using PE 4710 black compounded resins listed in the PPI TR-4 and which conform to international standards for potable water including NSF 61.

Pressure Rating

- Wastewater (LightFit) saddles are rated 25 ft. of water (10.8 psi)
- Couplings 2 IPS and up are rated 200 psi (water) and the equivalent MAOP (gas) in accordance with governing regulations
- All other fittings are rated 160 psi (water) and the equivalent MAOP (gas) in accordance with governing regulations

Note: for further details, see the notations on each fitting or consult your Plasson / IPF representative.

Suitable Pipe Materials

Electrofusion approved on pipe material: PE 2406/2708, PE 3408/3608 and PE 4710.

Approved Wall Thickness for Electrofusion

Wastewater (LightFit) Saddles:

- For diameters ≥ 6 IPS, wall thickness $SDR \leq 26$
- Fittings rated 160 psi and higher:
- For diameters ≥ 2 IPS, wall thickness $SDR \leq 11$
- For diameters > 2 IPS, wall thickness $SDR \leq 17$

Tapping Saddles

All integral cutters are brass and are pre-drilled to allow pressure testing prior to tapping.

Cutter diameters:

- For pipe diameters ≤ 2 IPS, cutter diameter 0.8 inch
- For pipe diameters > 2 IPS, cutter diameter 1.2 inch

Approved wall thickness for tapping saddle cutters:

- For diameters ≤ 6 DIPS, wall thickness $SDR \geq 9$
- For diameters > 6 DIPS, please consult your Plasson / IPF representative

Fusion Parameters

Fusion time and cooling time are clearly marked on the barcode label of each and every fitting. In addition, they may be obtained using a barcode reader. Couplings of diameter 12 IPS and wastewater saddles have a red colored self-recognition terminal pin that communicates fusion time automatically to Plasson Controllers (the Smart-System solution) when the terminals are connected according to instructions.

All Plasson's fittings may be welded successfully at ambient temperatures from 14 to 113°F (-10 to 45°C). For more details please contact your Plasson representative.

Standards

Plasson ElectroFusion fittings are designed, tested and quality controlled in accordance with Plasson's internal standards. These standards are based on the following American standards:

ASTM D2513

ASTM F1055

AWWA C906

FM 1613 (FM approved fittings only)

Quality

Plasson has incorporated a quality assurance system in accordance with ISO 9001. Operating approval according to ISO 9001 was granted to Plasson by the Israel Standards Institute.

The ISO 9001 quality assurance system imposes stringent standards of control throughout the manufacturing processes.

NSF 61

The fittings are certified by NSF international for compliance with NSF/ANSI 61 - Drinking water system components, Health effects.



Abbreviations used on the product description pages of this catalog:

A, A1	Height of shroud from centerline	L, L1, L2	Length
B	Width	n	Number of bolt holes in flanges
d, d1	Nominal diameter of fitting or outlet	S	Diameter of bolt holes in flanges
D, D1	Diameter	t	Thickness of metal flange
Dp	Pitch circle diameter of bolt holes in flanges	W	Weight
G, R	Threaded outlet diameter	UC	Units per carton
H	Height		
Dimensions in inches, weights in pounds			

Whereas the products shown in this catalog illustrate and describe the current state of their development, Plasson reserves the right at all times to make such technical alterations catalogue as it shall see fit to its products. Although every care has been taken in the preparation of the information, specifications and other data included alterations to its products as it shall see fit, we cannot rule out inadvertent errors or omissions. Purchasers should take into account possible deviations or variations which will not substantially diminish the functionality or performance of the products, and in many cases, are designed to improve the same.

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Especificaciones técnicas para los accesorios ElectroFusion de Plasson

Material de los accesorios

Todos los accesorios ("fittings") ElectroFusion de Plasson (para presiones nominales de 160 psi y más) se fabrican con polietileno negro de muy alta densidad (4710) a base de resinas compuestas según las especificaciones de la lista PPI TR-4 y de conformidad con las normativas internacionales para agua potable, inclusive la norma NSF 61.

Presiones nominales

- Collarines para aguas residuales (LightFit) - 25 pies de agua (10.8 psi)
- Enlaces a partir de 2 IPS - 200 psi (agua) y el equivalente MAOP (gas) conforme a la reglamentación vigente
- Otros accesorios - 160 psi (agua) y el equivalente MAOP (gas) conforme a la reglamentación vigente

NOTA: para obtener más información, consulte la etiqueta de cada accesorio o diríjase a su representante de Plasson / IPF.

Materiales de Tuberías adecuadas

La electrofusión está aprobada para tuberías de los siguientes materiales: PE 2406/2708, PE 3408/3608 y PE 4710

Grosos de pared aprobados para electrofusión

Collarines para aguas residuales (LightFit):

- Para diámetros ≥ 6 IPS, grosor de pared SDR ≤ 26

Para los accesorios a partir de 160 psi:

- Para diámetros ≤ 2 IPS, grosor de pared SDR ≤ 11
- Para diámetros > 2 IPS, grosor de pared SDR ≤ 17

Tomas de servicio

Cortadores integrales de latón y pre-perforados para permitir la prueba de presión antes de instalar la toma de servicio.

Diámetros de los cortadores:

- Diámetros de tubo ≤ 2 IPS, diámetro del cortador 0.8 pulg.
- Diámetros de tubo > 2 IPS, diámetro del cortador 1.2 pulg.

Grosos de pared aprobados para cortadores de tomas de servicio:

- Para diámetros ≤ 6 DIPS, grosor de pared SDR ≥ 9
- Para diámetros > 6 DIPS, consulte a su representante de Plasson / IPF

Parámetros de fusión

Los tiempos de fusión y enfriamiento están claramente marcados en la etiqueta con el código de barras de cada accesorio. Además, pueden obtenerse mediante un lector de código de barras. Los enlaces con diámetros 12 IPS y las tomas para aguas residuales tienen un "pin" terminal de autoreconocimiento, de color rojo, que comunica automáticamente los tiempos de fusión a las soldadoras automáticas de Plasson (del sistema inteligente) siempre que se haya conectado conforme a las instrucciones. Todos los accesorios de Plasson pueden soldarse a temperaturas ambientes de -10 to 45°C (14 a 113°F). Para obtener más información, consulte a su representante de Plasson.

Normativas

El diseño, las pruebas y el control de calidad de los accesorios ElectroFusion de Plasson se realizan de conformidad con las normativas internas de Plasson, que se basan en las siguientes normativas internacionales:

ASTM D2513

ASTM F1055

AWWA C906

FM 1613 (únicamente los accesorios con aprobación FM)

Calidad

Plasson ha incorporado un sistema de aseguramiento de calidad acorde a la normativa ISO 9001, que ha sido homologado a esa normativa por el Instituto Israelí de Normas Industriales. El sistema de aseguramiento de calidad según la normativa ISO 9001 impone la estricta observación de las directivas de control a lo largo del proceso de fabricación.

NSF 61

Los accesorios están certificados y aprobados por NSF International según NSF/ANSI 61 – Componentes en sistemas de agua potable, efectos en la salud.



Abreviaturas utilizadas en la descripción de productos de este catálogo:

A, A1	Altura desde la línea central a la cubierta del resistor
B	Ancho
d, d1	Diámetro nominal del accesorio o salida
D, D1	Diámetro
Dp	Diámetro de los orificios en las bridas
G, R	Diámetro de la salida roscada
H	Altura

Dimensiones en pulgadas, peso en libras

L, L1, L2	Longitud
n	Número de orificios en las bridas
S	Diámetro de los orificios p/tornillos en las bridas
t	Grosor de la brida metálica
W	Peso
UC	Cantidad por caja de cartón

Si bien en este catálogo se ilustran y describen los productos en el estado actual de su desarrollo, PLASSON se reserva el derecho de introducir en cualquier momento las modificaciones técnicas que considere convenientes. La preparación de la información, especificaciones y otros datos se ha hecho con el mayor cuidado,

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PolyCode (USB + Bluetooth)

29143.2308S324

Control box for welding of small fittings

For all EF fittings up to 160mm* / 6" IPS
mounted in plastic suitcase

Technical specifications

Output current	75 A (54 A peak current)
Welding voltage	8-48 V
Power supply	110 VAC
Weight	11 kg
Dimensions	47x18x37 cm
Welding cable length	3 m
Data recording	1000 welding cycles, downloadable by USB memory stick
Display	4 lines alphanumeric display, available in 26 languages



Welding data input

Plasson "SmartFuse" automatic welding data input
Barcode reading (including temperature compensation)
Manual input of barcode digits

* At long welding cycles, cool down time equal to the welding time is required

Polymatic - Plus (USB)

29143.2307.103

Universal Control Box

- BARCODE-System
- Plasson Smart-System
- MANUAL-Mode
- Data Recording with USB-Interface
- Traceability functions conform to ISO12176-3/4



Technical specifications

29143.2307.103

Polymatic - Plus (USB)

ISO 12176-2 Class	P2 4 U S1 V AK D X
Input Voltage	110V ~/AC, (90V-150V)
Input Current	32A
Input Frequency	50Hz (40-70Hz)
Power Factor	cos p < 0.6 – 0.9 (Phase Angle Control)
Output Voltage	8-48V AC/~
Output Current	80A (max. 110A)
Energy Adjustment	Temperature Compensation
Power Consumption	3600VA
Temperature Range	-10°C - +50°C
Protection Class	CE, IP54, Class 2
Weight incl. Cables	23kg
Main Supply Cable	5m
Welding Cable	5m
Welding Terminals	4.0mm
Display	4 x 20 Characters (alphanumeric), background lighting
Dimensions	440mm x 380mm x 320mm

Monitoring Functions

Input	Voltage / Current / Frequency
Output	Voltage / Resistance / Contact / Short Circuit / Current Monitoring
Other	System / Working Temperature / Service
Error Messages	Plain Text / Acoustic Signal

Enclosed Parts

Items	Control Box, Transport Box, Adapter 4.0/4.7mm, Instruction Manual, USB-flash memory
-------	---

Data Recording-Polymatic Plus

Number of Reports	1000
Interface	USB (USB-flash memory included)
Data format	PDF / CSV

Recorded Data

General Data	Commission Number (40 digits alphanumeric) Weather (DVS) / Joint Number / Report Number
Fusion Data	Voltage / Current / Nominal and Actual Welding Time / Mode / Resistance / Error Messages with 10 Voltage-Current Values
Device Data	Serial Number / Inventory Number / Date of Last Service / Working Hours / System Configuration
Operator Code	Barcode (PF or ISO 12176-3) for operator identification and access to manual input and system configuration
Weather Condition	DVS 2207 / 2208
Welding Barcode	ISO-13950

Other Functions

Output Options	Whole Memory / Comm.-No.
Commission Number Input/Selection	Barcode, Manual, Internal List of 75 Comm.-No. for Selection

Plasson PolyControl Plus (USB) V.2.0

29143.F0318V112

PolyControl: New Controller Technology for Large Diameter Fittings

Large diameter fittings require heavy-duty controllers and generators to supply the necessary power. This heavy load necessitates cooling of the transformer between welding cycles.

In response to this common problem, Plasson has developed a new controller, , with integral cooling and novel power transformer technology to reduce cycle time to a minimum.

Allows at least 4 successive welding cycles without pause Efficient in hot and cold weather Only 10 minutes cooling required after 7,000 seconds of welding



Technical specifications

29143.F0318V112

Plasson PolyControl Plus (USB) V.2.0

ISO 12176-2 Class	P2 3 U S1 V AK D X
Input Voltage	220V ~/AC, (185V-300V)
Input Current	16A
Input Frequency	50Hz (40-70Hz)
Output Voltage	8-48V DC
Output Current	(t=∞) 85A (max. 110A)
Energy Adjustment	Temperature Compensation, Inductivity compensation
Power Consumption	3600VA
Temperature Range	14°F - 122°F (-10°C - +50°C)
Protection Class	IP54
Weight incl. Cables	34 Lbs (15.5kg)
Main Supply Cable	14 Ft (4.5m)
Welding Cable	9 Ft (3m)
Welding Terminals	4.0mm
Display	4 x 20 Characters (alphanumeric), background lighting
Dimension	8.66" x 12.48" x 17.12" (220mm x 317mm x 435mm)
Suitable Generator	220-240 V, 4.5 kVA (minimum 16A on one phase)

Monitoring Functions

Input	Voltage / Current / Frequency
Output	Voltage / Resistance / Contact / Short Circuit / Current Monitoring
Other	System / Working Temperature / Service
Error Messages	Plain Text / Acoustic Signal

Enclosed Parts

Items	Control Box, Transport Box, Adapter 4.0/4.7mm, Instruction Manual, USB-flash memory
-------	---

Recorded Data

Number of Reports	1000
Interface	USB (USB-flash memory included)
Data format	PDF / CSV

Duty cycle test according to ISO 12176-2

Test time	Duty cycle	Output power at 40V	Output current at 40V
60 minutes	30%	4400W	110A
60 minutes	60%	4000W	100A
60 minutes	100%	3600W	90A

PolyCode (USB + Bluetooth)

29143.2308S324

Entrada parámetros de soldadura

Máquina de Electrofusión Universal para accesorios hasta 160 mm / 6" IPS

La máquina de electrofusión tipo PolyCode (USB) incorpora los siguientes procedimientos para incorporar los parámetros de soldadura:

Soldadura modo código de barras ISO/TR 13950, TIPO 2/5i, 24 dígitos)

El código de barras incorporado en la mayoría de los accesorios electrosoldables del mercado contiene todos los datos necesarios para la realización de la soldadura por electrofusión. Después de leer el código de barras con el dispositivo correcto, el proceso de recogida de datos es realizado automáticamente por la máquina de electrofusión. El código de barras contiene principalmente la siguiente información: Fabricante, tipo, diámetro, voltaje de fusión, tiempo de fusión (con la compensación de Temperatura, si es necesario), resistencia y tolerancia de la resistencia.



Soldadura modo automático SmartFuse

Mediante la lectura de la resistencia de referencia colocada en el pin de los accesorios electrosoldables SmartFuse, la unidad de control aplica automáticamente los datos de soldadura del accesorio.

Entrada manual del código de barras (los dígitos)

Si el código de barras del accesorio o el dispositivo de lectura tienen algún defecto, es posible entrar los números del código de barras del accesorio (si son visibles) manual mente en la máquina de electrofusión.

Especificaciones técnicas

Voltaje salida (soldadura)	8 - 48 AC
Rango Voltaje (nominal)	110 VAC
Peso de transporte	11 Kilos
Medidas de embalaje	47x18x37 cm
Longitud cable soldadura	3 metros
Ingreso y lectura de datos de soldadura	"Smart Fuse" de Plasson que incluye compensación de temperatura, lectura de código barras con scanner, ingreso manual del código de barras (los dígitos)
Memoria de datos	Hasta 1,000 ciclos. Contiene puerto USB para bajar los datos registrados
Pantalla	4 líneas alfanuméricas en 26 idiomas

Polymatic - Plus (USB)

29143.2307.103

Soldadora universal

- Código de barras
- El sistema inteligente de Plasson
- Modo MANUAL
- Registro de datos mediante interfaz USB
- Funciones de rastreo según la normativa ISO12176-3/4



Especificaciones Técnicas

29143.2307.103

Polymatic - Plus (USB)

Clase ISO 12176-2	P2 4 U S1 V AK D X
Tensión de entrada	110V ~/AC, (90V-150V)
Corriente de entrada	32A
Frecuencia de entrada	50Hz (40-70Hz)
Factor de potencia	$\cos \phi < 0.6 - 0.9$ (Control de desfase)
Tensión de salida	8-48V AC/~
Corriente de salida	80A (máx. 110A)
Ajuste energético	Compensación de temperatura
Consumo eléctrico	3600VA
Rango de temperaturas	-10°C - +50°C
Protección	CE, IP54, Clase 2
Peso (con cables)	23kg
Cable de alimentación	5m
Cable de soldadura	5m
Terminales de soldadura	4.0mm
Pantalla	4 x 20 caracteres alfanuméricos, iluminación de fondo
Dimensiones	440mm x 380mm x 320mm

Funciones de Monitoreo

Entrada	Tensión / Corriente / Frecuencia
Salida	Tensión / Resistencia / Contacto / Cortocircuito / Monitoreo de corriente
Otras funciones	Sistema / Temperatura de trabajo / Servicio
Mensajes de error	Texto / Señal acústica

Artículos Incluidos

Artículos	Soldadora, Caja de transporte, Adaptador 4.0/4.7mm, Manual del usuario, Memoria flash USB
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Registro de Datos-Polymatic Plus

Número de informes	1000
Interfaz	USB (dispositivo incluido)
Formato de datos	PDF / CSV

Datos Registrados

Datos generales	Nº de encargo (40 caracteres alfanuméricos) / Meteorología (DVS) / Nº conjunto / Nº de informe
Datos de fusión	Tensión / Corriente / Duración del proceso (nominal y real) / Modo / Resistencia / Mensajes de error con 10 valores de tensión y corriente
Datos de accesorios	Datos de código de barras (ISO-13950) / Tipo / Dimensiones / Fabricante
Datos del dispositivo	Nº de serie / Nº de inventario / Fecha del último servicio / Horas de trabajo / Configuración del sistema
Código del operador	Código de barras (PF o ISO 12176-3) para la identificación del operador y acceso a la entrada manual y configuración del sistema
Meteorología	DVS 2207 / 2208
Código de barras de soldadura	ISO-13950
Código de barras - rastreo de accesorio	ISO-12176-4
Código de barras - rastreo del tubo 1	ISO-12176-4
Código de barras - rastreo del tubo 2	ISO-12176-4
Código de rastreo 3 / Infotext	ISO-12176-4
Longitud del tubo	0.00m – 999.00m
Prof. de excavación	0.00m – 99.99m

Otras Funciones

Opciones de salida	Toda la memoria / Nº encargo
Entrada/Selección de Nº de encargo	Código de barras, Manual, Lista interna de 75 números de encargo para seleccionar

Plasson PolyControl Plus V.2.0

29143.F0318V112

PolyControl: Nuevo controlador con tecnología para accesorios de gran diámetro

Los accesorios de gran diámetro requieren soldadoras y generadores de alta potencia. Para esta pesada tarea es preciso enfriar el transformador entre ciclos de soldadura. En respuesta a este problema, Plasson ha desarrollado un nuevo modelo de soldadora, PolyControl Plus, con enfriamiento integrado y un transformador de novedosa tecnología que reduce al mínimo la duración del ciclo.

Plasson PolyControl Plus V.2.0

Permite como mínimo 4 ciclos sucesivos de soldadura sin interrupción

Eficaces con altas y bajas temperaturas

Sólo se requieren 10 minutos de enfriamiento al cabo de 7000 segundos de trabajo

Generador: 240 V, 4.5 kVA (mínimo 16A monofásico)



Hand Scrapers

Raspatubos Manuales

29145.3002.001		1½"	
29145.3002.002		1½" Blade for 29145.3002.001 (2 pcs.)	Cuchilla de 1½" para 29145.3002.001 (2 unidades)
29145.3002.003		2½"	
29145.3002.004		2½" Blade for 29145.3002.003 (2 pcs.)	Cuchilla de 2½" para 29145.3002.003 (2 unidades)



Rotational Scraper Tools

Raspatubos Giratorios

29144.4200.001		½ - 2 IPS	
29144.4200.002		½ - 3 IPS	
29144.4200.015		2½ - 7 IPS	
29144.4200.003		3 IPS - 8 DIPS	
29144.4200.014		3 IPS - 10 DIPS	



29144.4200.016		7 - 16 IPS	
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2912450800		16 DIPS - 32 IPS	
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Rotational Scraper Chains

Cadenas Raspadoras Giratorias

29144.4200.013		4 - 16 IPS	
29144.4200.007		10 - 18 IPS	
29144.4200.008		29144.4200.007 extension to 32 IPS	29144.4200.007 extensión a 32 IPS
29144.4200.009		10 - 32 IPS	
29144.4200.011		10 - 24 DIPS	
29144.4200.012		32 - 46 IPS	



U Peelers

29144-4800-060		2" IPS U-Peeler	29144-4800-323		12" IPS U-Peeler
29144-4800-088		3" IPS U-Peeler	29144-4800-121		4" DIPS U-Peeler
29144-4800-114		4" IPS U-Peeler	29144-4800-175		6" DIPS U-Peeler
29144-4800-168		6" IPS U-Peeler	29144-4800-229		8" DIPS U-Peeler
29144-4800-219		8" IPS U-Peeler	29144-4800-281		10" DIPS U-Peeler
29144-4800-273		10" IPS U-Peeler	29144-4800-335		12" DIPS U-Peeler



Electric/Battery operated Peelers

29144.4200.S103 pipe end peeler 3/4"-2" IPS W/mandrels+ cordless drill



29144.4200.025 | electric peeler for saddles 110V

29144.4200.046 | battery operated electric peeler for saddles (110 V charger)



29144.4200.040 | Battery operated chain peeler for EF couplings 14" DIPS-32 IPS

29144.4200.041 | Battery operated chain peeler for EF couplings 30" DIPS-48 IPS



Pipe Shears

Cortadores de tuberías

29145.3000.005 | ½ CTS - 1½ IPS

29145.3000.006 | Spare blade for 29145.3000.005

Cuchilla de reserva para 29145.3000.005



29145.3000.001 | ½ CTS - 2 IPS

29145.3000.002 | Spare blade for 29145.3000.001

Cuchilla de reserva para 29145.3000.005



29145.3000.007 | ½ CTS - 2 IPS (one hand operation)

29145.3000.008 | Spare blade for 29145.3000.007

½" CTS - 2 IPS (operación con una mano)

Cuchilla de reserva para 29145.3000.007



Rotational Pipe Cutters (S-Type)

Cortadores de tubería giratorios (tipo S)

29145.3001.004 | ½ - 2½ IPS

29145.3001.005 | Spare wheel for 29145.3001.004

Rueda de reserva para 29145.3001.004

29145.3001.001 | 2 - 5 IPS

29145.3001.002 | 3 DIPS - 6 IPS

29145.3001.003 | Spare wheel for
29145.3001.001, 29145.3001.002

Rueda de reserva para
29145.3001.001, 29145.3001.002



Rotational Pipe Cutters

Cortadores de tubería giratorios

29144.4400.002 | 1 - 3 IPS

29144.4400.001 | 4 IPS - 8 DIPS

29144.4400.003 | 4 IPS - 10 DIPS



Pipe Clamping Tools

Herramientas de sujeción de tubos

29144.4300.000 | ½ - 2 IPS



29144.4300.001 | 1 CTS - 3 IPS
29144.4300.002 | 4 IPS - 8 DIPS



29144.4300.025 | 2 IPS - 10 DIPS
29144.4301.006 | Tee supplement for 29144.4300.025
29144.4300.023 | 4 IPS - 14 DIPS
29144.4301.003 | Tee supplement for 29144.4300.023
29144.4300.024 | 4 - 22 IPS
29144.4301.004 | Tee supplement for 29144.4300.024
29144.4301.001 | Single ball joint for
29144.4300.023, 29144.4300.024
29144.4301.002 | Double ball joint for
29144.4300.023, 29144.4300.024

Suplemento T para 29144.4300.025

Suplemento T para 29144.4300.023

Suplemento T para 29144.4300.024
Unión de una bola para
29144.4300.023, 29144.4300.024
Unión de dos bolas para
29144.4300.023, 29144.4300.024



29144.4300.021 | 10 - 24 IPS or 32 IPS with
2 fixed clamps

10-24 IPS o 23 IPS con 2 abrazaderas fijas



29144.4300.022 | 10 - 24 IPS or 32 IPS with
1 fixed clamp and pulling carriage

10-24 IPS o 32 IPS con 1 abrazadera fija y carrito

Pipe Rollers and Supports

Rodillos para tubos y rodillos de apoyo

29144.4601.001 | 12 DIPS max. with rubber roller

12 DIPS máx. con rodillo de goma



29144.4601.002 | 38 IPS max., adjustable roller

38 IPS máx., rodillo ajustable



29144.4601.003 | 10 DIPS max. support

10 DIPS máx. de apoyo



29144.4300.026 | 10 DIPS max. support for workbench incl. adaptor 32 mm

10 DIPS máx. de apoyo para mesa de taller con adaptador de 32mm

29144.4601.005 | 10 DIPS max. support for workbench
29144.4601.001 | Retaining profile for pipe support head10 DIPS máx. de apoyo para mesa de taller
Perfil de retención de tubo

Chamfering Tools

Biseladoras

29145.3004.002 | 2 IPS - 8 DIPS



Rerounding Tools

Redondeadores

29144.4602.005 | 2½ - 7 IPS



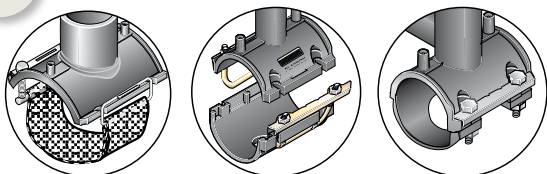
29144.4702.000 | Hydraulic rounding tool 10 IPS - 30 IPS



EF Saddle Installation Procedure

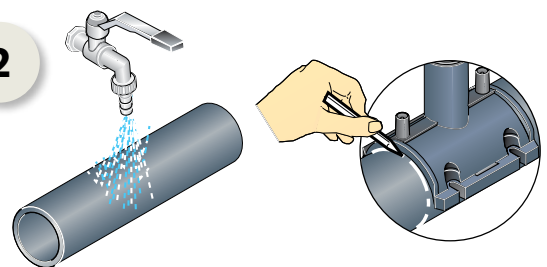
Welding instructions for all Plasson electrofusion saddles.

1



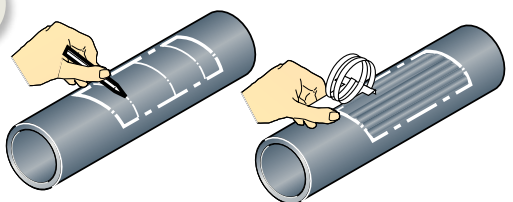
Clean pipe then draw saddle boundaries on pipe.

2



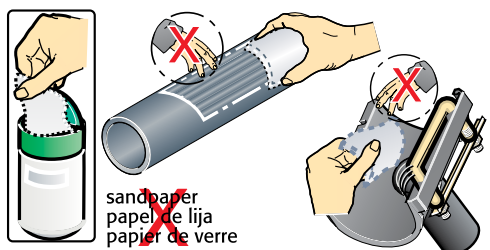
Add marks on pipe inside boundaries and scrape pipe fully inside perimeter.

3



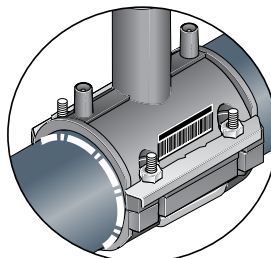
Degrease saddle surface and scraped pipe with appropriate cleaning agent.

4



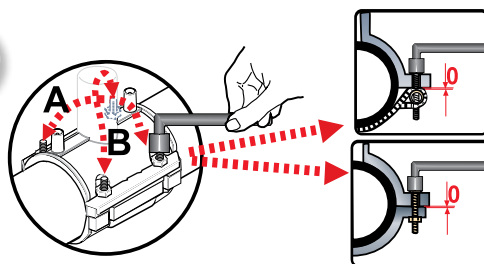
Assemble saddle on scraped pipe and tighten nuts and bolts crosswise.

5



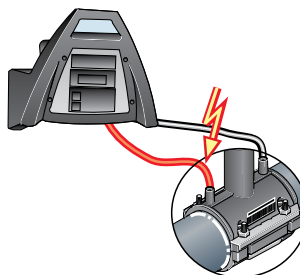
Tighten until upper and lower saddle parts are mated (zero gap).

6



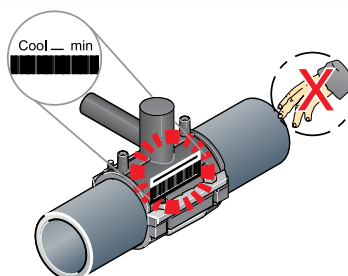
Fuse fitting.

7



Allow to cool. Cool additional 30 minutes prior to tapping and pressure testing.

8



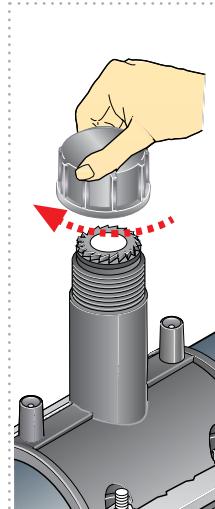
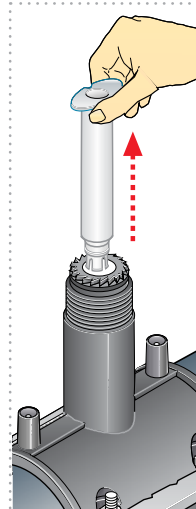
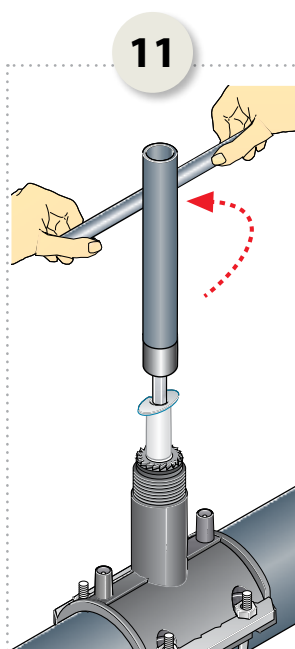
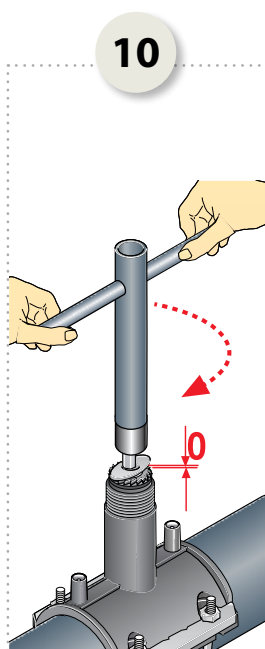
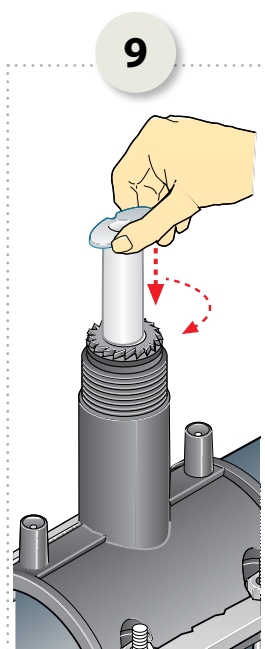
Tapping Instructions for Tapping Saddles

Push down on sleeve to ensure correct starting position.

Tap pipe by turning wrench clockwise to lowermost position of the sleeve.

Unscrew to uppermost position (resistance increases significantly). Then add ½ turn, not more, to tighten firmly for good seal.

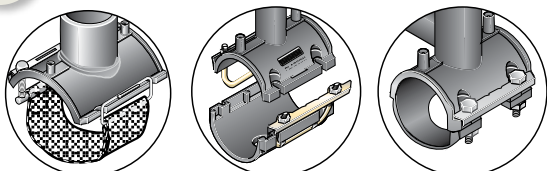
Remove sleeve, then screw on cap and tighten firmly.



Procedimiento de electrofusión de collarines

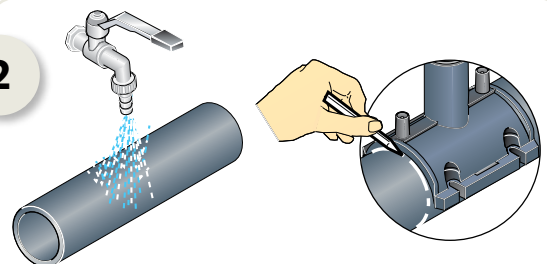
Instrucciones para la soldadura de todos los collarines de electrofusión de Plasson

1



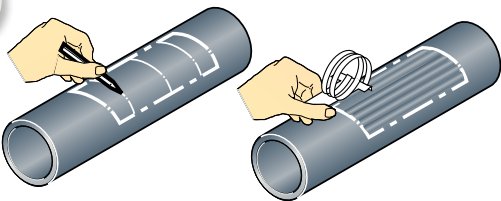
Limpie el tubo y marque en la superficie los límites del collarín

2



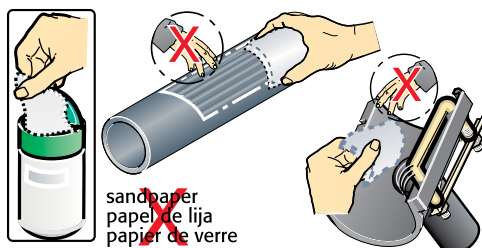
Añada marcas dentro de los límites y raspe el tubo dentro del perímetro marcado.

3



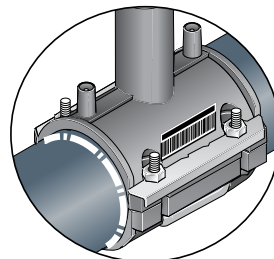
Desengrase la superficie del collarín y el tubo raspado con un líquido adecuado

4



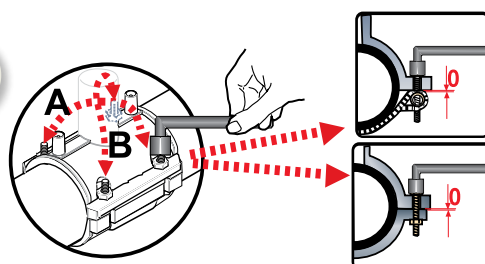
Monte el collarín sobre el tubo raspado y cierre las tuercas y tornillos en forma cruzada

5



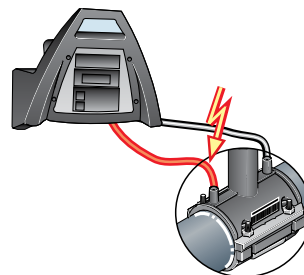
Ajuste hasta que la parte superior y la parte inferior del collarín coincidan completamente (sin espacio intermedio).

6



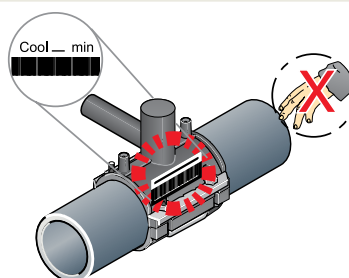
Efectúe la electrofusión del accesorio

7



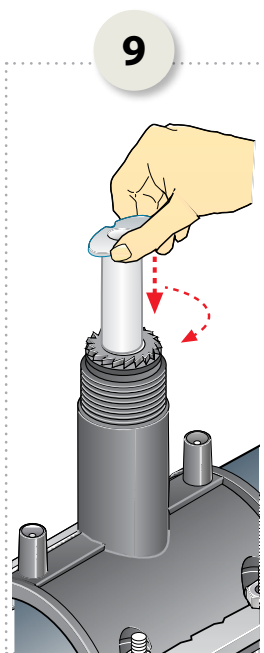
Permita el enfriamiento. Adicione 30 minutos antes de conectarlo y hacer la prueba de presión

8

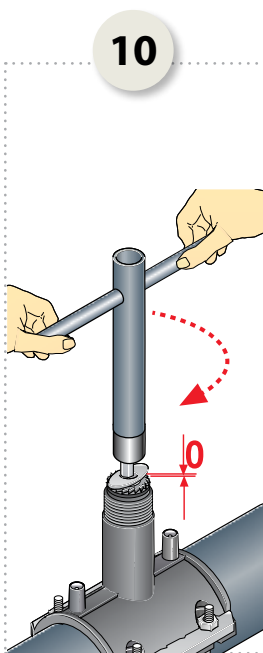


Conexión de tomas de servicio

Empuje la manga hacia abajo para asegurar la correcta posición.

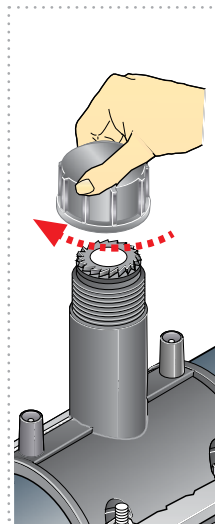
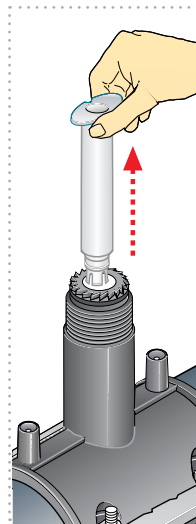
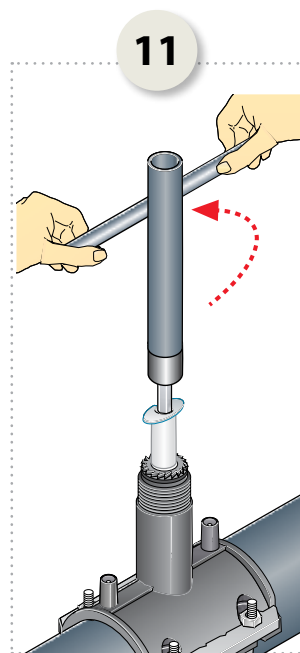


Perfore el tubo haciendo girar la llave en sentido horario hasta el punto más bajo de la manga.



Desenrosque hasta la posición más alta (la resistencia aumenta notablemente), y luego añada ½ giro, no más, para ajustar con firmeza.

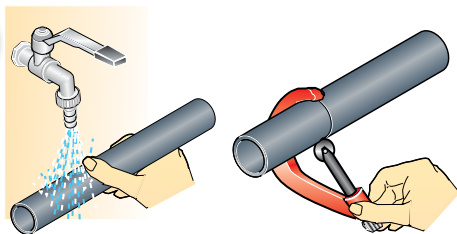
Retire la manga, atornille la tapa y ajuste firmemente.



EF Coupler Installation Procedure

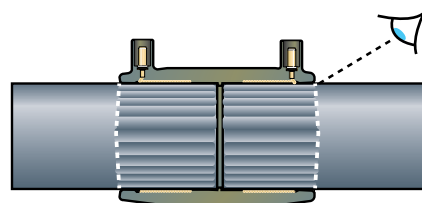
Clean pipe and cut ends squarely

1



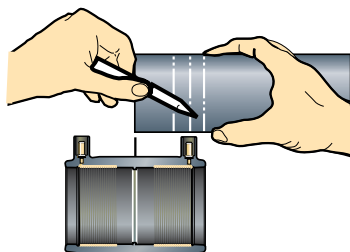
Stab pipe completely into fitting

5



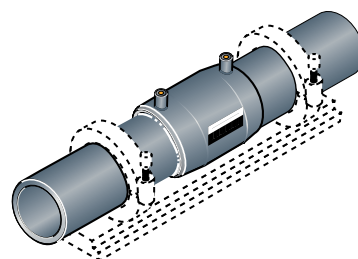
Mark stab depth on pipe

2



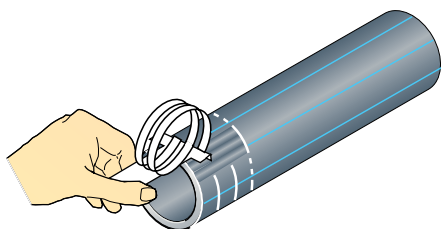
Align and clamp pipe

6



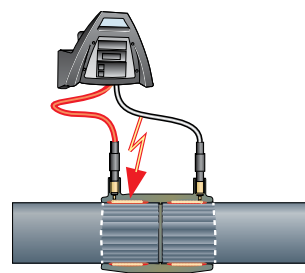
Scrape pipe

3



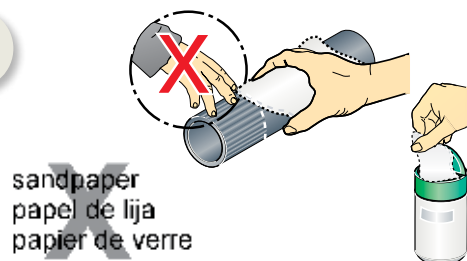
Fuse the joint

7



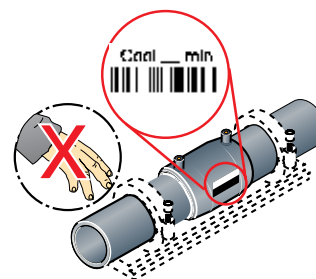
Clean with suitable degreasing agent

4



Do not disturb joint during cooling time

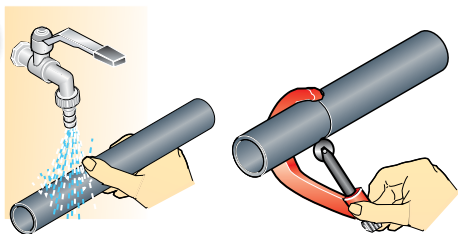
8



Procedimiento de electrofusión de conectores

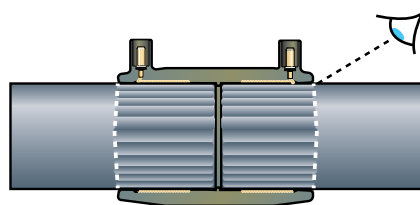
Limpe el tubo y corte el extremo en línea recta

1



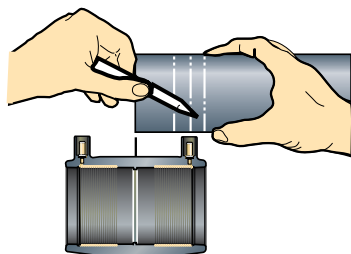
Introduzca completamente el tubo en el accesorio

5



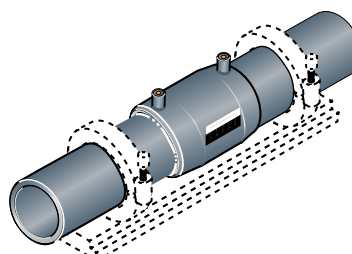
Marque la profundidad del accesorio en el tubo

2



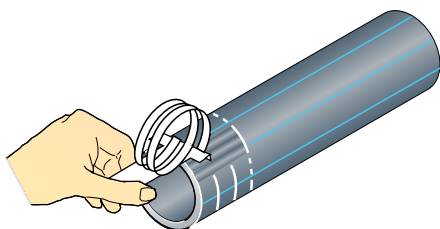
Alinee y coloque las abrazaderas en el tubo

6



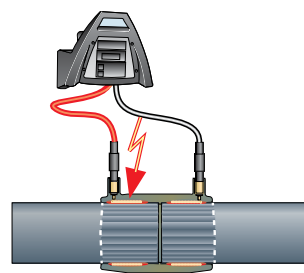
Raspe el tubo

3



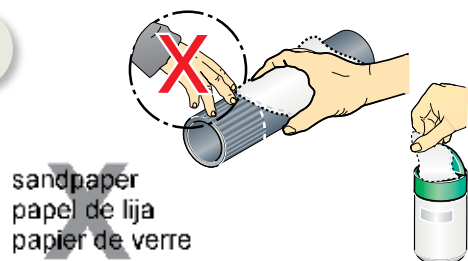
Efectúe la fusión de la junta

7



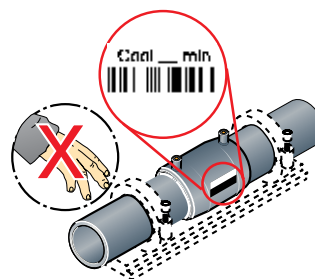
Limpe con un detergente adecuado

4



No toque la junta durante el periodo de enfriamiento

8



Qualification of Plasson Electrofusion Fittings for Gas Distribution

Standards:

- ASTM D2513-08b: Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings
- ASTM F1055-98(2006): Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing

Assessment Requirements:

- Review and approval of new product test and validation plans
- Completion of 2 on-site quality audits of the test laboratory and manufacturing facility
- Verification of Plasson's capabilities to perform testing per ASTM F1055 and ASTM D2513
- Audit of Plasson's new product qualification data

Results:

Based on this assessment, Jana attests that Plasson maintains:

- An ISO 9001:2000 Quality System covering manufacturing, design and testing certified by the Standards Institute of Israel
- Sophisticated manufacturing and information systems with complete raw material traceability; each serialized part is traced through manufacturing, testing and delivery
- A rigorous approach to in-process and batch release Quality Control testing in accordance with ASTM F1055 and ASTM D2513
- A comprehensive new product test plan to verify fitting performance per the requirements of ASTM F1055 and ASTM D2513
- A resin supply per the requirements of ASTM F1055 and ASTM D2513 and listed per PPI TR-4 as PE 4710
- A comprehensive validation plan with PE 2406, PE 3408 and PE 4710 pipe

Based on this assessment, Jana attests that electrofusion fittings manufactured by Plasson are in conformance with ASTM F1055 and ASTM D2513.

Calificación de los accesorios de electrofusión de Plasson para la distribución de gases

Normativas:

- ASTM D2513-08b: Especificación para tubos, tuberías y accesorios termoplásticos para la conducción de gases a presión
- ASTM F1055-98(2006): Especificación de accesorios de polietileno para electrofusión para tubos y tuberías de polietileno controlados por diámetro externo

Requisitos de la evaluación:

- Revisión y aprobación de los planes de prueba y validación de los nuevos productos
- Ejecución de 2 peritajes de calidad in situ para el laboratorio de pruebas y la planta de fabricación
- Verificación de las capacidades de Plasson para efectuar pruebas según las normativas ASTM F1055 y D2513
- Auditoría de los datos de calificación de los nuevos productos de Plasson

Resultados:

- Sobre la base de esta evaluación, Jana atestigua que Plasson mantiene:
- Un sistema de calidad acorde con las normas ISO9001:2000 que cubre la fabricación, el diseño y las pruebas, certificado por el Instituto de Normas Industriales de Israel.
- Sistemas avanzados de producción e información con plena rastreabilidad de materias primas: cada pieza y serializada puede rastrearse a través de los procesos de producción, prueba y entrega
- Un enfoque riguroso en cuanto a las pruebas de Control de Calidad en el proceso de producción y en el despacho de lotes, conforme a las normativas ASTM F1055 y D2513
- Un plan integral de pruebas de nuevos productos para verificar el funcionamiento de los accesorios según los requisitos especificados en las normativas ASTM F1055 y D2513
- Un suministro de resina acorde a los requisitos de las normativas ASTM F1055 y D2513 y según se enuncian en PPI TR-4 como PE4710
- Un plan integral de validación para tubería PE2406, PE3408 y PE4710

Sobre la base de esta evaluación, Jana da fe de la conformidad de los accesorios de electrofusión fabricados por Plasson a las normativas ASTM F1055 y ASTM D2513.

PLASSON

40



SERIES 1

Compression Fittings for HDPE and PEX Pipes
CTS, IPS Dimensions



Introduction

Plasson Series 1 - The new range of innovative fittings created by Plasson, market leader in design and manufacture of reliable fittings for polyethylene pipe systems.

Plasson Series 1 - Plastic fitting for HDPE and PEX plastic pipes.

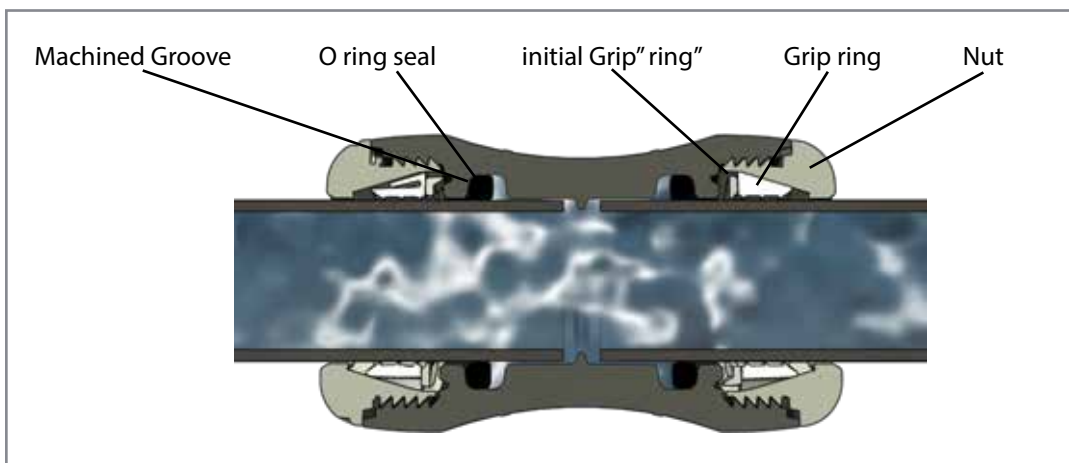
Plasson Series 1 - Push-fit compression fittings, designed and tested for 14 bar /200 PSI pressure rating. Inserting the pipe up to the fitting stop creates both the seal and the grip on the pipe.

Plasson Series 1 - Compact design makes this fitting ideal for the plumbing market, where space is limited.

Simplicity of assembly makes both the professional and occasional user's job easier while retaining the Plasson reliability.

Plasson Series 1 features and benefits include:

- No assembly tools required - simple push fit assembly
- Compact size - can be assembled in confined spaces
- Instant seal and integrity of joint - captive seal and no nuts to tighten
- Full end load performance - no need to restrain joints
- No need for insert stiffeners
- Aesthetically designed fitting - gives a professional finish to the job
- 50 year design life - provides total reliability
- Tamper resistant design - ensures system integrity



Plasson Series 1 on YouTube

Technical Specifications

Materials

Body, Nut: Polypropylene, high grade copolymer

Split Ring and Grip Ring: Acetal (POM)

Seal: Nitrile rubber (NBR)

Free nut adaptor: Polyamide, fiber glass reinforced

Standards

Tested according to the requirements of:

- CSA B 137 (2013)
"Thermoplastic pressure piping compendium"
- ISO 17885
"Mechanical fittings for pressure piping systems"

Operating Pressure (for 50 years service at full pressure)

14 bar /200 PSI.

Operating Temperatures

The fittings are designed for cold water applications, up to 45°C (114°F).

(not to be used with hot water)

The fittings are frost resistant, and will not crack at sub-zero temperatures.

Threads

According to ANSI B1.20.1

NPT for threaded adaptors

NPSM for free nut adaptor.

Compatible for pipes:

HDPE, PEX: SDR 9 to 17

NSF 61

The fittings are certified by NSF international for compliance with

NSF/ANSI 61 - Drinking water system components, Health effects

* except item 1003ZR

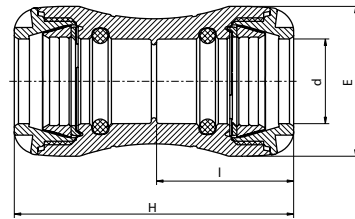


General instructions for installation

- Before installation, ensure that the end of the pipe to be inserted into the fitting is free of scratches and other imperfections and that both the pipe and the fitting itself are free of sand, mud, stones, etc.
- Always mark the required insertion depth over the pipe, and make sure that the pipe is inserted all the way in.
- If fittings are reused, ensure that split ring and grip ring teeth are sharp and bite into the pipe to avoid pullouts. If uncertain, replace the split ring and grip ring.
- Note: We strongly recommend the use of PTFE tape in threaded connections.
- Chamfering and lubrication of the pipe end will ease insertion (use silicone lubricant).

Coupler - CTS

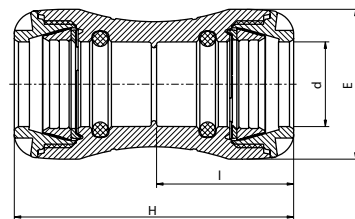
1001Z



Product Code	Size d x d	Dimensions, mm (inch)		
		H	E	I
1001Z0007	¾" cts x ¾" cts	98 (3.85)	47 (1.85)	48 (1.89)
1001Z0010	1" cts x 1" cts	108 (4.25)	58 (2.28)	54 (2.12)

Coupler - IPS

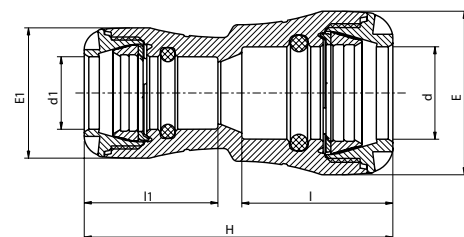
1001A



Product Code	Size d x d	Dimensions, mm (inch)		
		H	E	I
1001A6005	1/2" ips x 1/2" ips	92 (3.62)	41 (1.61)	45 (1.77)
1001A6007	¾" ips x ¾" ips	98 (3.85)	47 (1.85)	48 (1.89)
1001A6010	1" ips x 1" ips	108 (4.25)	58 (2.28)	54 (2.12)

Reducing Coupler

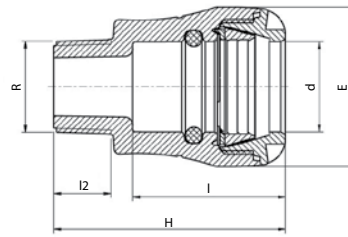
1011Z



Product Code	Size d x d	H	Dimensions, mm (inch)			
			E	I	I1	E1
1011Z0010007	1" cts x ¾" cts	110 (4.33)	58 (2.28)	54 (2.12)	48 (1.89)	47 (1.85)

Male Adaptor - CTS

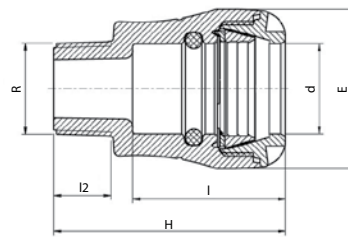
1002Z



Product Code	Size d x R	Dimensions, mm (inch)			
		H	E	I	I2
1002Z0007007	¾"cts x ¾"npt	76 (2.99)	47 (1.85)	48 (1.89)	17 (0.67)
1002Z0010007	1"cts x ¾"npt	82 (3.23)	58 (2.28)	54 (2.13)	17 (0.67)
1002Z0010010	1"cts x 1"npt	84 (3.31)	58 (2.28)	54 (2.13)	19 (0.75)

Male Adaptor - IPS

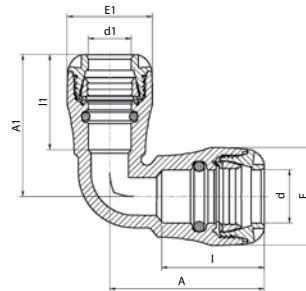
1002A



Product Code	Size d x R	Dimensions, mm (inch)			
		H	E	I	I2
1002A6T007007	¾"ips x ¾"npt	76 (2.99)	47 (1.85)	48 (1.89)	17 (0.67)
1002A6T010010	1"ips x 1"npt	84 (3.31)	58 (2.28)	54 (2.13)	19 (0.75)

90° Elbow

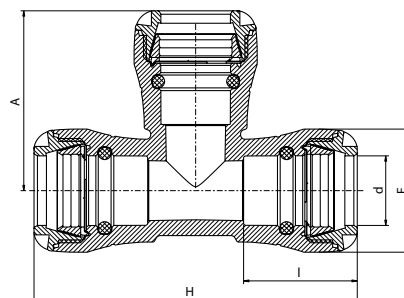
1005A



Product Code	Size d x d	Dimensions, mm (inch)		
		E	A	I
1005A6007	¾"ips	47 (1.85)	73 (2.87)	48 (1.89)
1005A6010	1"ips	58 (2.28)	81 (3.19)	54 (2.12)

90° Tee IPS

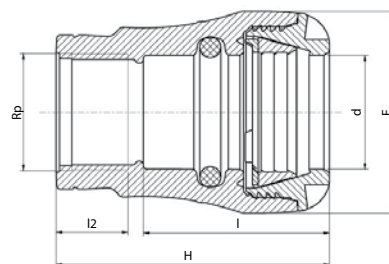
1004A6



Product Code	Size d x G	Dimensions, mm (inch)			
		H	E	A	I
1004A6007	¾" IPS	134 (5.27)	47 (1.85)	48 (1.89)	78 (3.07)
1004A6010	1" IPS	152 (5.98)	58 (2.28)	54 (2.12)	84 (3.30)

Female Adaptor IPS

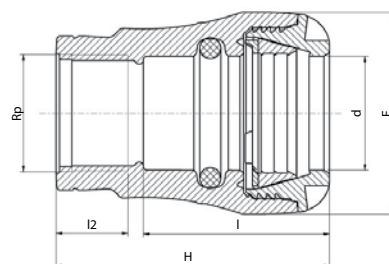
1003A6



Product Code	Size d x G	Dimensions, mm (inch)			
		H	E	I	I2
1003A6T007007	¾" IPS x ¾" npt	47 (1.85)	100 (3.94)	18 (0.71)	48 (1.89)
1003A6T010010	1" IPS x 1" npt	58 (2.28)	79 (3.11)	21 (0.83)	54 (2.13)

Female Adaptor

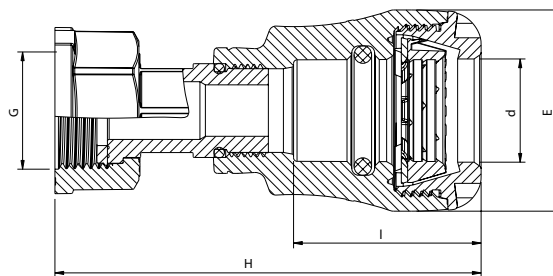
1003Z



Product Code	Size d x Rp	Dimensions, mm (inch)			
		H	E	I	I2
1003Z0007007	¾" cts x ¾" npt	71 (2.79)	47 (1.85)	48 (1.89)	18 (0.71)
1003Z0010010	1" cts x 1" npt	79 (3.11)	58 (2.28)	54 (2.13)	21 (0.83)

Female Adaptor with free nut

1003ZR



Product Code	Size d x G	Dimensions, mm (inch)		
		H	E	I
1003ZR007010	¾"cts x 1" G	100 (3.94)	47 (1.85)	54 (2.13)
1003ZR010010	1"cts x 1" G	106 (4.17)	58 (2.28)	48 (1.89)

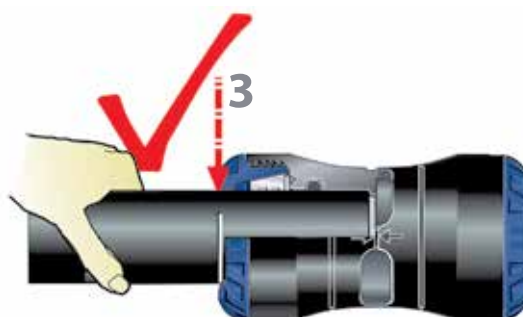
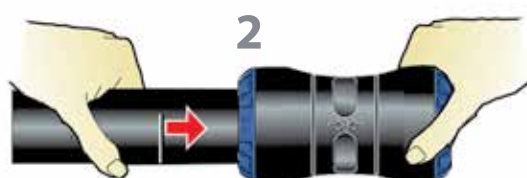
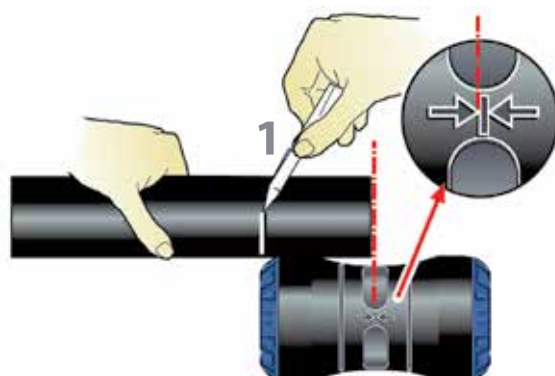
Plasson Series 1 Wrench

10990

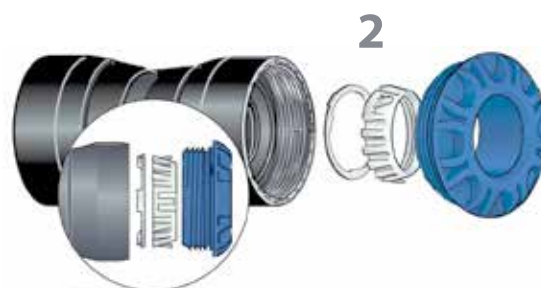
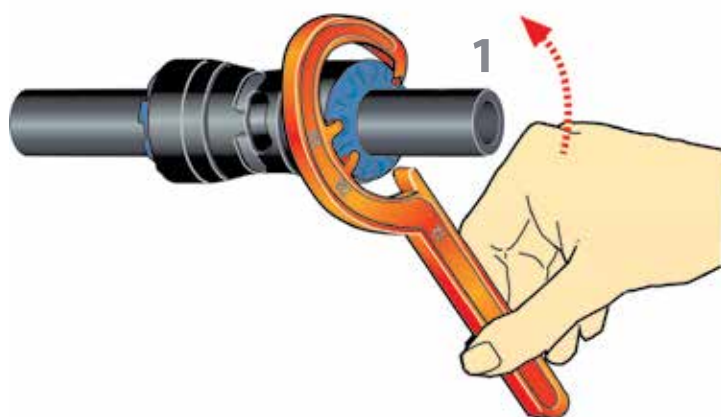


Product Code	Description
10990004	Special wrench for ¾"-1" / 20-32 mm series 1 nut

Installation Instructions



Disassembly



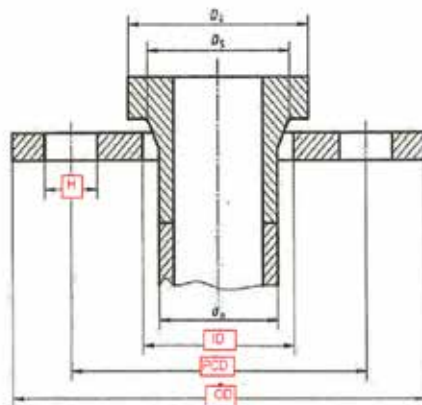
PE pipes dimensions table

Nominal size IPS "imperial"	Min outside diameter- inch	Min outside diameter- for using Plasson fittings mm	Max outside diameter- for using Plasson fittings mm	Nominal size CTS- "tubing"	Min outside diameter- inch	Min outside diameter for using Plasson fittings mm	Max outside diameter for using Plasson fittings mm
1/2	0.84	21.2	21.4	1/2	0.62	15.8	16
3/4	1.05	26.6	26.8	3/4	0.87	22.1	22.3
1	1.32	33.3	33.6	1	1.12	28.5	28.8
1 1/4	1.66	42.1	42.4	1 1/4	1.37	34.8	35.1
1 1/2	1.90	48.1	48.4	1 1/2	1.62	41.1	41.4
2	2.38	60.1	60.4	2	2.12	53.8	54.1
3	3.50	88.5	89.3	PE pipe sizes according to ASTM D 2737, ASTM D 2513 -			
4	4.50	113.8	114.8				
6	6.63	167.5	169.1				
7	7.13	180.1	181.9				
8	8.63	218.1	220.1				
10	10.75	271.9	274.3				
12	12.75	322.4	325.2				
14	14.00	354.0	357.2				
16	16.00	404.6	408.2				
18	18.00	455.1	459.3				
20	20.00	505.7	510.3				
22	22.00	556.3	561.3				
24	24.00	606.9	612.3				
26	26.00	657.4	663.4				
28	28.00	708.0	714.4				
30	30.00	758.6	765.4				
32	32.00	809.1	816.5				
34	34.00	859.7	867.5				
36	36.00	910.3	918.5				
42	42.00	1062.0	1071.6				
48	48.00	1213.7	1224.7				
54	54.00	1365.4	1377.8				

PE pipe sizes according to ASTM F 714, ASTM D3035, ASTM D2513, AWWA C 906, BS1972, BS 3284

Flange dimensions - 150 LBS (ANSI / ASME B 16.5, AWWA C207)

Nominal size	Flange dimensions			backing ring dimensions for IPS HDPE stub end flange adaptor			backing ring dimensions for ISO PE stub end flange adaptor		
	PCD Hole circle diameter (mm)	H hole diameter (mm)	no.of holes for bolts	Nominal IPS Pipe size	OD outside diameter (mm)	ID inside diameter (mm)	Nominal PE Pipe size	OD outside diameter (mm)	ID inside diameter (mm)
1/2"	60.3	15.9	4				20	90	28
3/4"	69.9	15.9	4	3/4"	98.6	28	25	100	34
1"	79.4	15.9	4	1"	108.0	35	32	110	42
1.1/4"	88.9	15.9	4	1.1/4"	117.6	44	40	115	51
1.1/2"	98.4	15.9	4	1.1/2"	127.0	50	50	125	62
2"	120.7	19.1	4	2"	152.4	64	63	150	78
2 1/2"	139.7	19.1	4	N/A	0.0		75	180	92
3"	152.4	19.1	4	3"	190.5	92	90	190	108
4"	190.5	19.1	8	4"	228.6	118	110	230	128
4"	190.5	19.1	8	N/A	0.0		125	230	135
5"	215.9	22.2	8	5"	254.0	145	140	255	158
6"	241.3	22.2	8	6"	279.4	171	160	280	178
6"	241.3	22.2	8	N/A	0.0		180	280	188
8"	298.4	22	8	N/A	0.0		200	345	235
8"	298.4	22	8	8"	342.9	222	225	345	238
10"	362	25.4	12	N/A	0.0		250	405	288
10"	362	25.4	12	10"	406.4	278	280	405	294
12"	431.8	25.4	12	12"	330.2	483	315	485	338
14"	476.3	28.6	12	14"	533.4	365	355	535	376
16"	539.6	28.6	16	16"	596.9	411	400	595	430
18"	577.9	31.8	16	18"	635.0	467	450	635	517
20"	635	31.8	20	20"	698.5	518	500	700	533
24"	749.3	34.9	20	N/A			560	815	618
24"	749.3	34.9	20	24"	812.8	619	630	815	645
26"	806.4	34.9	24	26"	870.0	670			
28"	863.6	34.9	28	28"	927.1	721			
30"	914.4	34.9	28	30"	984.3	772			
32"	978	41.3	28	32"	1060.5	822			
34"	1028.7	41.3	32	34"	1111.3	873			
36"	1085.8	41.3	32	36"	1168.4	924			
42"	1257.3	41.3	36	42"	1346.2	1076			



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