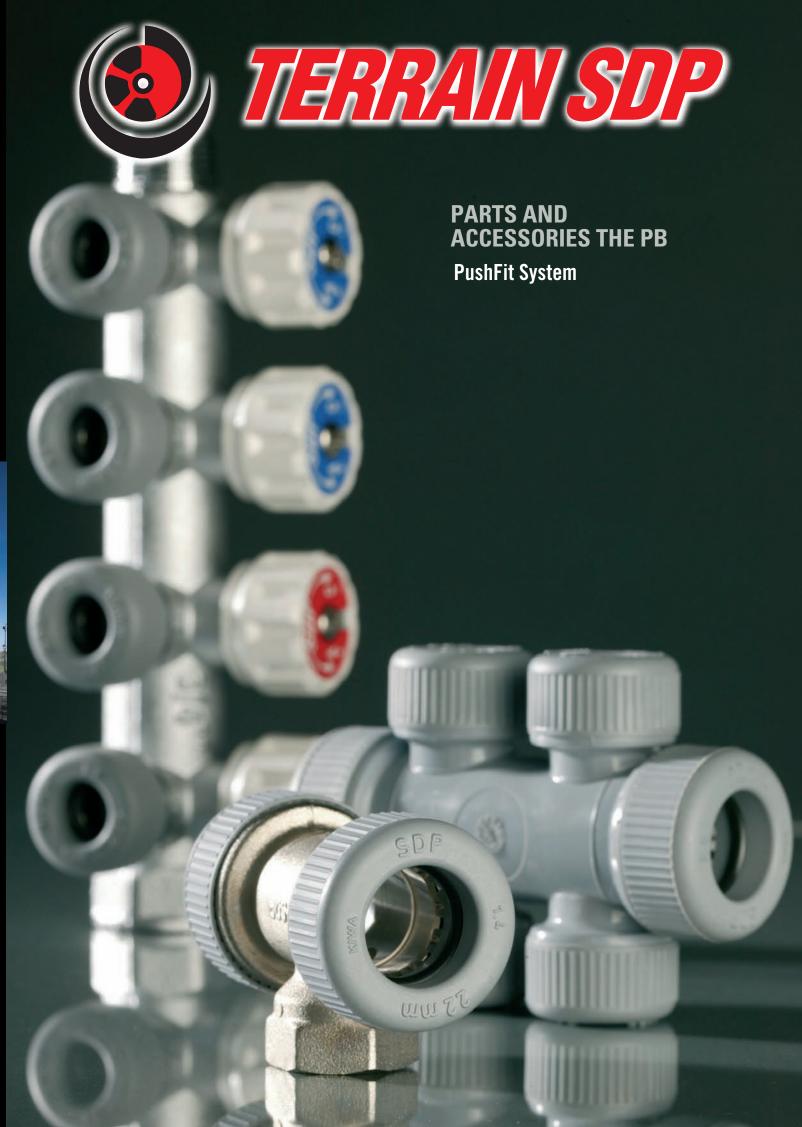






NUEVA TERRAIN S.L.

Pol. Ind. Jundiz C/ Paduleta nº 2 01015 VITORIA - ÁLAVA (ESPAÑA) Tel. 945 14 11 88 - Fax 945 14 33 36 E-mail: nuevaterrain@nuevaterrain.com http://www.nuevaterrain.com



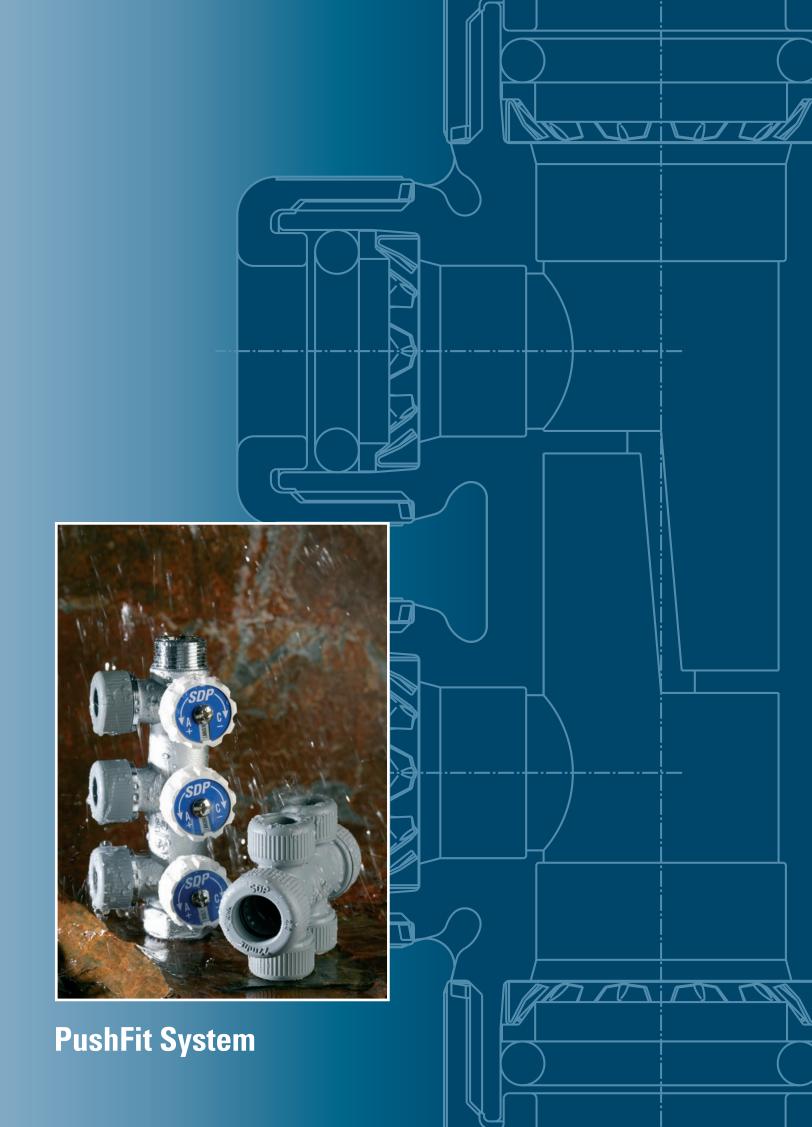


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NUEVA TERRAIN, Spain's market leader in PVC and Polybutene (PB) piping systems, is pleased to present this product range catalogue which has the objective to make work easier to professional installers and consultants, by providing them high quality and save systems. **NUEVA TERRAIN** would like to take this opportunity to thank all those who have shown their confidence in us by using our products, and to reiterate our wish to continue offering top quality and high performance piping systems.













STRAIGHT PIPES

REFERENCE	EXTERIOR DIAMETER mm.	THICKNESS mm.	WEIGHT PIPE grs.	MATERIAL	TOT. L. PIPE mts.
• TFC.003.015	15 (1)	1,7	234	PB	3,00
• TFC.058.015	15 (1)	1,7	452	PB	5,80
• TFC.003.016	16 (1)	1,8	240	PB	3,00
• TFC.058.016	16 (1)	1,8	464	PB	5,80
• TFC.003.020.020	20 (1)	2,3	381	PB	3,00
• TFC.058.020.020	20 (1)	2,3	737	PB	5,80
• TFC.003.022.016	22 (1)	2,0	368	PB	3,00
• TFC.058.022.016	22 (1)	2,0	711	PB	5,80
• TFC.003.025	25 (1)	2,3	480	PB	3,00
• TFC.058.025	25 (1)	2,3	928	PB	5,80
• TFC.003.028.016	28 (3)	2,5	592	PB	3,00
• TFC.058.028.016	28 (3)	2,5	1.144	PB	5,80
• TFC.058.032	32 (3)	2,9	1.508	PB	5,80
• TFC.058.040	40 (3)	3,7	2.378	PB	5,80
• TFC.058.050	50 (3)	4,6	3.654	PB	5,80

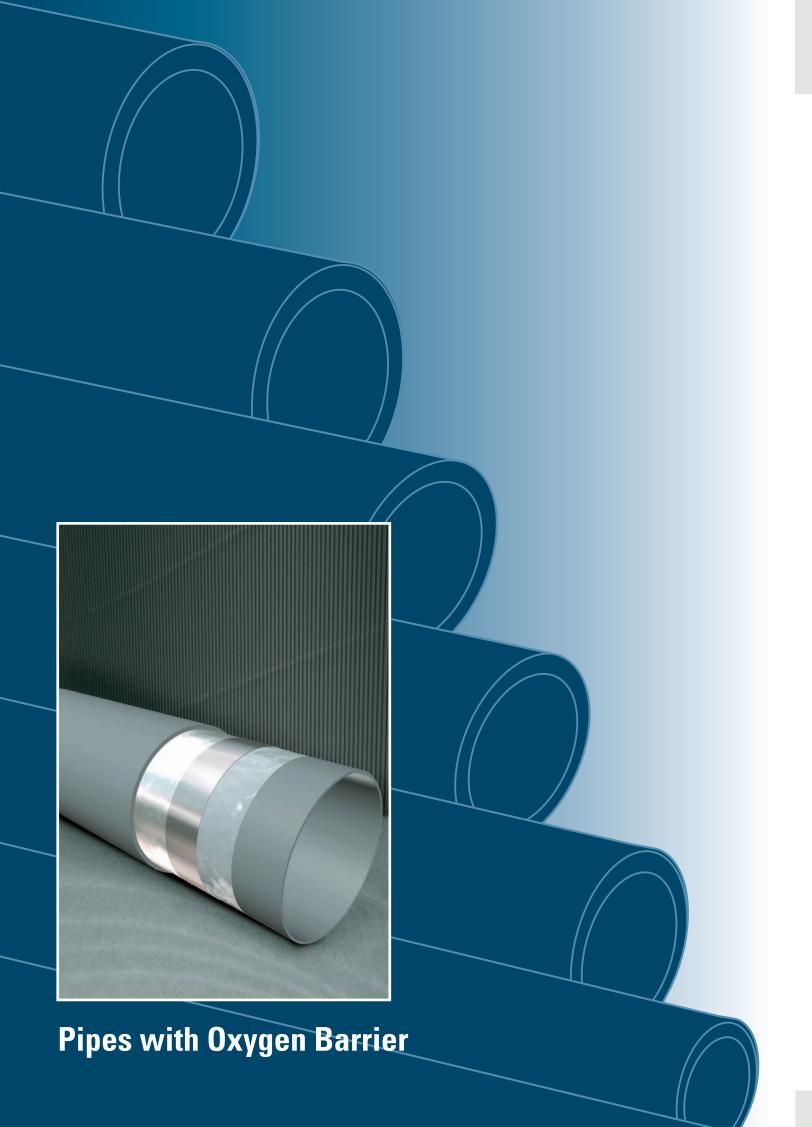


COIL PIPES (2)

EFERENCE	EXTERIOR DIAMETER mm.	THICKNESS mm.	WEIGHT PIPE grs.	MATERIAL	TOT. L. PIPE mts.
TFC.100.015	15	1,7	7.833	PB	100,00
TFC.100.016	16	1,8	8.000	PB	100,00
TFC.050.020.020	20	2,3	6.355	PB	50,00
TFC.050.022.016	22	2,0	6.130	PB	50,00
TFC.036.025	25	2,3	5.760	PB	36,00
TFC.025.028.016	28	2,5	4.933	PB	25,00

Classification according to classes: ISO 10508: Class 1/10 Bar - Class 2/10 Bar - Class 4/10 Bar - Class 5/8 Bar

- For pipes in lengths, it is allow curves with radius not less than 10 times the external diameter of the pipe.
 For pipes in coils, it is allow curves with radius not less than 8 times the external diameter of the pipe.
 For curves opposite to the natural direction of the coil, the radius will have to be 30 times the external diameter of the pipe.
- (3) Para tubería en tramos se puede admitir curvaturas cuyo radio no sea inferior a 15 veces el diámetro exterior del tubo.
- Tuberías certificadas por AENOR, CERTIF y KIWA.
- + Tuberías certificadas por AENOR y CERTIF.









STRAIGHT PIPES

EXTERIOR DIAMETER mm.	THICKNESS mm.	WEIGHT PIPE grs.	MATERIAL	TOT. L. PIPE mts.
15	1,7	480,0	PB	5,8
16	2,0	720,0	PB	5,8
20	2,5	1.160,0	PB	5,8
0	15 16	IAMETER mm. mm. 15 1,7 16 2,0	IAMETER mm. mm. PIPE grs. 15 1,7 480,0 16 2,0 720,0	IAMETER mm. mm. PIPE grs. 15 1,7 480,0 PB 16 2,0 720,0 PB



COIL PIPES (2)

REFERENCE	EXTERIOR Diameter mm.	THICKNESS mm.	WEIGHT PIPE grs.	MATERIAL	TOT. L. PIPE mts.
TA0.100.015	15	1,7	7.950,0	PB	100
TA0.050.022.016	22	2,0	6.220,0	PB	50
TA0.025.028.016	28	2,5	5.010,0	PB	25

Classification according to classes: ISO 10508: Class 1/10 Bar - Class 2/10 Bar - Class 4/10 Bar - Class 5/8 Bar

The 5-layer Barrier Pipe of TERRAIN SDP

NUEVA TERRAIN's Barrier Pipe is designed for central heating systems and incorporates an oxygen barrier (EVOH) to inhibit oxygen permeation. The Barrier Pipe can also be used for domestic hot and cold water services. The 5 layer pipes assure the perfect function of our PushFit Fittings e.g. tolerances, water tightness, durability and good function of the grab ring.

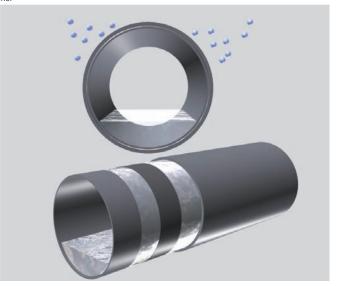
Unlike to other manufacturers, the element that acts as oxygen barrier is made in plastic and not in a metallic material. This EVOH plastic material is placed in the interior part of the pipe wall thickness contributing advantages e.g. higher flexibility and availability for use in our PushFit unions.

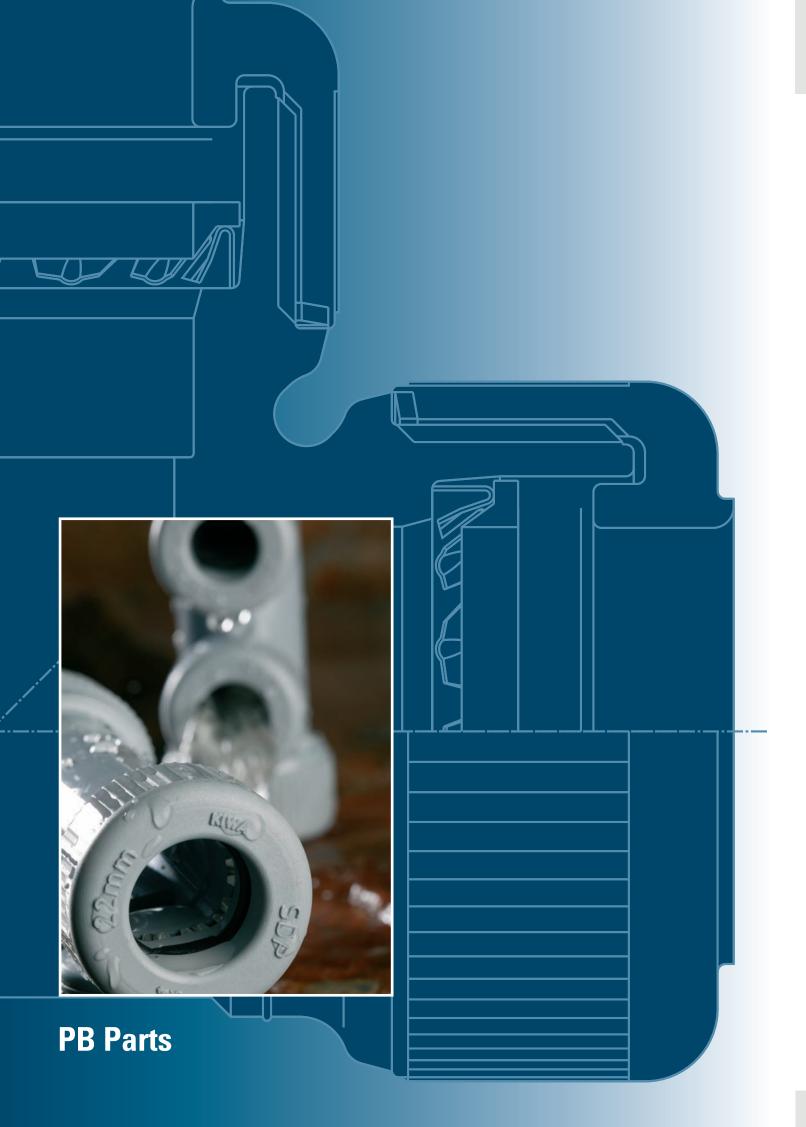
The EVALTM ethylene vinyl alcohol (EVOH) copolymer resins are characterized by their outstanding gas barrier properties and by their excellent processing.

TERRAIN SDP PB plastic pipes coated with an EVALTM layer are a good alternative to copper pipes and meet the strict building standards for oxygen permeation, such as DIN 4726, which allows a maximum oxygen gas transmission rate of 0.1 g/m³ per day at 40 °C, thereby reducing the effect of corrosion on metal components.

What an EVOH barrier layer offers

- Prevents oxygen from permeating throught the wall of the pipe, which means that rust prevention additives can be avoided.
- Excellent oxygen barrier, even at high temperatures.
- Meets the strictest building standards (e.g. DIN 4726).
- Additional anti-oxidants ensure a long-term thermal stability and an expected service life that exceed 50 years.
- Flexibility: quick and easy to install, easy handling.
- Good alternative to metal, copper and aluminium (Multilayer) pipes.
- High-quality pipes used for heating purposes.
- Additional anti-oxidants in the polymer ensure an excellent oxygen barrier even after prolonged exposure to heat.
- Good abrasion resistance.



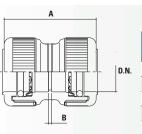






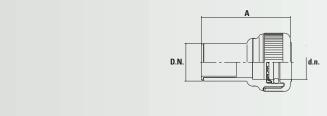






SOCKET UNION

REFERENCE	DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.001.015	15	27,0	PB	53,5	2,0
FC.001.016	16	27,0	PB	53,5	2,0
FC.001.020	20	35,5	PB	56,0	2,0
FC.001.022	22	40,5	PB	57,5	2,0
FC.001.025	25	53,5	PB	58,5	2,0
FC.001.028	28	71,0	PB	65,5	2,0
FC.001.032	32	96,5	PB	69,0	2,0
FC.001.040	40	336,0	PB	81,0	2,0
FC.001.050	50	465,2	PB	84,0	2,0





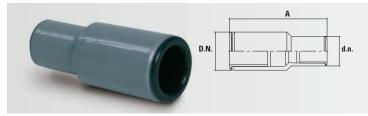
REFERENCE	DIAMETER mm.	WEIGHI grs.	MATERIAL	А	
FC.002.020.016	20x16	18,50	PB	55,0	
FC.002.022	22x15	18,50	PB	51,5	
FC.002.022.020	22x20	24,00	PB	59,0	
FC.002.025.015	25x15	20,60	PB	59,0	
FC.002.025.016	25x16	20,60	PB	59,0	
FC.002.025.020	25x20	24,90	PB	57,0	
FC.002.025.022	25x22	28,00	PB	59,5	
FC.002.028	28x22	29,00	PB	58,5	
FC.002.028.025	28x25	37,50	PB	64,5	
FC.002.032.025	32x25	27,87	PB	73,7	
FC.002.032.028	32x28	54,38	PB	82,5	
FC.002.040.025	40x25	92,47	PB	95,0	
FC.002.040.032	40x32	79,51	PB	85,0	
FC.002.050.025	50x25	46,00	PB	79,0	
FC.002.050.032	50x32	109,66	PB	97,4	
FC.002.050.040	50x40	225,00	PB	98,0	





FEMALE - MALE SOCKET REDUCER

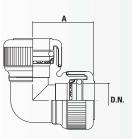
REFERENCE	DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.002.016.015	16x15	16,5	PB	54,5
FC.002.025	25x22	34,5	PB	60,0
FC.002.025.028	28x25	44,5	PB	64,5





DOUNE! IL	DOOLIN			
REFERENCE	DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.003.032.025	32x25	26,0	PB	79,0





90° ELBOW

REFERENCE	DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.005.015	15	29,0	PB	34,0
FC.005.016	16	28,7	PB	35,0
FC.005.020	20	41,6	PB	38,5
FC.005.022	22	46,7	PB	39,5
FC.005.025	25	65,0	PB	45,0
FC.005.028	28	84,5	PB	48,5
FC.005.032	32	120,0	PB	55,5
FC.005.040	40	371,4	PB	61,5
FC.005.050	50	524,6	PB	67,5



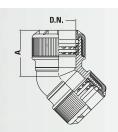








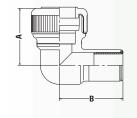




45° ELBOW

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A
• FC.005.040.045	40	352,0	PB	55,0
• FC.005.050.045	50	470,0	PB	58,0

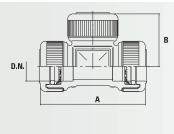




MALE - FEMALE 90° ELBOW

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В
FC.005.015.003	15	20,9	PB	34,2	40,1
FC.005.016.003	16	20,6	PB	34,2	40,1
FC.005.020.003	20	32,8	PB	38,3	46,3
FC.005.022.003	39	36,0	PB	39,3	47,3
FC.005.025.003	25	48,9	PB	45,0	50,5
FC.005.028.003	28	64,5	PB	49,0	56,0
FC.005.032.003	32	95,6	PB	56,5	62,0

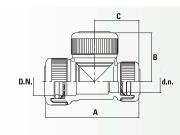




EQUAL TEE

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.010.015	15	42,0	PB	67,5	34,0
FC.010.016	16	42,0	PB	68,0	34,0
FC.010.020	20	58,5	PB	76,6	38,5
FC.010.022	22	66,0	PB	77,5	39,5
FC.010.025	25	91,0	PB	90,5	45,0
FC.010.028	28	119,0	PB	97,5	48,5
FC.010.032	32	169,9	PB	111,0	55,5
FC.010.040	40	563,7	PB	123,0	61,0
FC.010.050	50	703,0	PB	135,0	67,5

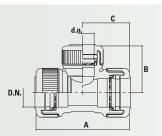




90° END REDUCED TEE

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.012.020.016	20x20x16	54,5	PB	75,0	38,5	38,0
FC.012.022	22x22x15	60,0	PB	77,0	39,5	38,0
FC.012.025.015	25x25x15	80,5	PB	85,0	45,0	39,5
FC.012.025.016	25x25x16	80,5	PB	85,0	45,0	39,5
FC.012.025.020	25x25x20	84,5	PB	86,0	45,0	41,0

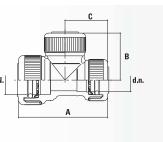




90° END REDUCED TEE

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.013.020.016	20x16x20	52,6	PB	70,5	38,5	35,5
FC.013.022	22x15x22	57,0	PB	71,5	37,5	35,5
FC.013.025.015	25x15x25	74,0	PB	76,5	40,0	38,5
FC.013.025.016	25x16x25	74,0	PB	76,5	40,0	38,5
FC.013.025.020	25x20x25	79,0	PB	82,5	41,5	41,0
FC.013.025.022	25x22x25	83,0	PB	84,5	41,5	42,0
FC.013.028	28x15x28	90,0	PB	81,0	41,5	40,5
FC.013.028.022	28x22x28	101,0	PB	89,0	43,5	44,5
FC.013.032.022	32x22x32	131,5	PB	96,5	46,0	48,0
FC.013.032.025	32x25x32	142,0	PB	101,0	49,0	50,5
FC.013.032.028	32x28x32	152,0	PB	105,5	51,5	52,5
FC.013.040.025	40x25x40	384,0	PB	104,0	55,5	52,5
FC.013.040.032	40x32x40	415,0	PB	112,0	61,0	56,0
FC.013.050.025	50x25x50	493,0	PB	107,0	61,0	53,5
FC.013.050.032	50x32x50	525,0	PB	113,0	67,0	56,5

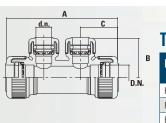




90° END REDUCED TEE

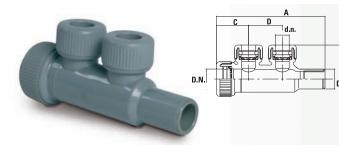
NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
20x16x16	47,5	PB	69,0	36,5	33,5
22x15x15	50,0	PB	69,5	38,0	33,5
25x15x15	58,9	PB	72,0	40,0	33,5
25x16x16	58,6	PB	72,0	40,0	33,5
25x20x20	69,3	PB	78,5	41,5	37,5
28x22x22	83,5	PB	83,0	43,5	38,5
	DIAMETER mm. 20x16x16 22x15x15 25x15x15 25x16x16 25x20x20	DIAMETER mm. grs. 20x16x16 47,5 22x15x15 50,0 25x15x15 58,9 25x16x16 58,6 25x20x20 69,3	DIAMETER mm. grs. 20x16x16 47,5 PB 22x15x15 50,0 PB 25x15x15 58,9 PB 25x16x16 58,6 PB 25x20x20 69,3 PB	DIAMETER mm. grs. 20x16x16 47,5 PB 69,0 22x15x15 50,0 PB 69,5 25x15x15 58,9 PB 72,0 25x16x16 58,6 PB 72,0 25x20x20 69,3 PB 78,5	DIAMETER mm. grs. 20x16x16 47,5 PB 69,0 36,5 22x15x15 50,0 PB 69,5 38,0 25x15x15 58,9 PB 72,0 40,0 25x16x16 58,6 PB 72,0 40,0 25x20x20 69,3 PB 78,5 41,5





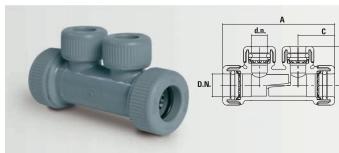
TWO OUTLET MANIFOLD

NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В	C
22x15x15x22	82,0	PB	109,0	37,5	35,5
25x15x15x25	102,5	PB	113,0	40,0	38,0
25x16x16x25	102,5	PB	113,0	40,0	38,0
	DIAMETER mm. 22x15x15x22 25x15x15x25	DIAMETER mm. grs. 22x15x15x22 82,0 25x15x15x25 102,5	DIAMETER mm. grs. 22x15x15x22 82,0 PB 25x15x15x25 102,5 PB	DIAMETER mm. grs. 22x15x15x22 82,0 PB 109,0 25x15x15x25 102,5 PB 113,0	DIAMETER mm. grs.



MALE - FEMALE TWO OUTLET MANIFOLD

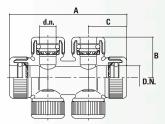
NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В	C	D
22x15x15x22	85,1	PB	120,5	37,5	35,5	37,5
25x15x16x25	89,4	PB	123,8	39,9	38,3	37,5
25x16x16x25	90,0	PB	123,8	39,9	38,3	37,5
	22x15x15x22 25x15x16x25	22x15x15x22 85,1 25x15x16x25 89,4	22x15x15x22 85,1 PB 25x15x16x25 89,4 PB	22x15x15x22 85,1 PB 120,5 25x15x16x25 89,4 PB 123,8	22x15x15x22 85,1 PB 120,5 37,5 25x15x16x25 89,4 PB 123,8 39,9	22x15x15x22 85,1 PB 120,5 37,5 35,5 25x15x16x25 89,4 PB 123,8 39,9 38,3



TWO OUTLET MANIFOLD FOR MONOTUBULAR HEATING INSTALLATIONS

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.015.022.002	22x15x15x22	83,0	PB	109,0	37,5	35,5





DOUBLE TWO OUTLET MANIFOLD

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.016.022	22x15x15x15x15x22	108,5	PB	108,5	37,5	35,5

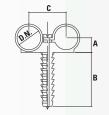




REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C	D
FC.017.022	22x15x15x15x22	112,5	PB	146,5	37,5	35,5	37,5
FC.017.025.015	25x15x15x15x25	131,0	PB	151,5	40,0	38,5	37,5
FC.017.025.016	25x16x16x16x25	131,0	PB	151,5	40,0	38,5	37,5



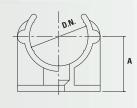




DOUBLE PIPE CLIP WITH BUILT-IN RAWCAP

REFERENCE	DIÁMETRO NOM. D.N.	WEIGHT grs.	MATERIAL	A	В	C
FC.064.022.000	22	108,5	POLYPROP.	12,0	17,0	50,0

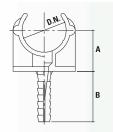




PIPE CLIP

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.065.015.010	15	2,0	POLYPROP.	18,0
FC.065.020.010	20	3,0	POLYPROP.	20,5
FC.065.022.010	22	3,0	POLYPROP.	21,5
FC.065.025.010	25	4,0	POLYPROP.	24,5
FC.065.028.010	28	5,0	POLYPROP.	26,0
FC2.065.032.010	32	9,0	POLYPROP.	-
FC2.065.040.010	40	10,1	POLYPROP.	-
FC2.065.050.010	50	12,6	POLIPROP	-





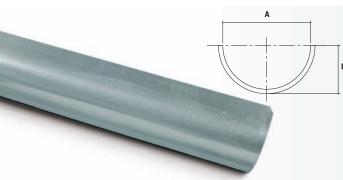
PIPE CLIP WITH BUILT-IN RAWPLUG

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В
FC.065.015.000	15	3,0	POLYPROP.	18,0	30,0
FC.065.020.000	20	4,0	POLYPROP.	20,5	30,0
FC.065.022.000	22	4,0	POLYPROP.	21,5	30,0
FC.065.025.000	25	5,0	POLYPROP.	24,5	30,0
FC.065.028.000	28	7,0	POLYPROP.	26,0	40,0





REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.065.015	15	5,3	POLYPROP.	19,0
FC.065.020	20	6,7	POLYPROP.	22,0
FC.065.022	22	6,8	POLYPROP.	23,0
FC.065.025	25	7,3	POLYPROP.	24,5
FC.065.028	28	9,7	POLYPROP.	26,0
FC.065.032	32	9,3	POLYPROP.	28,0
FC.065.040	40	13,0	POLYPROP.	-
FC.065.050	50	18,4	POLYPROP.	-



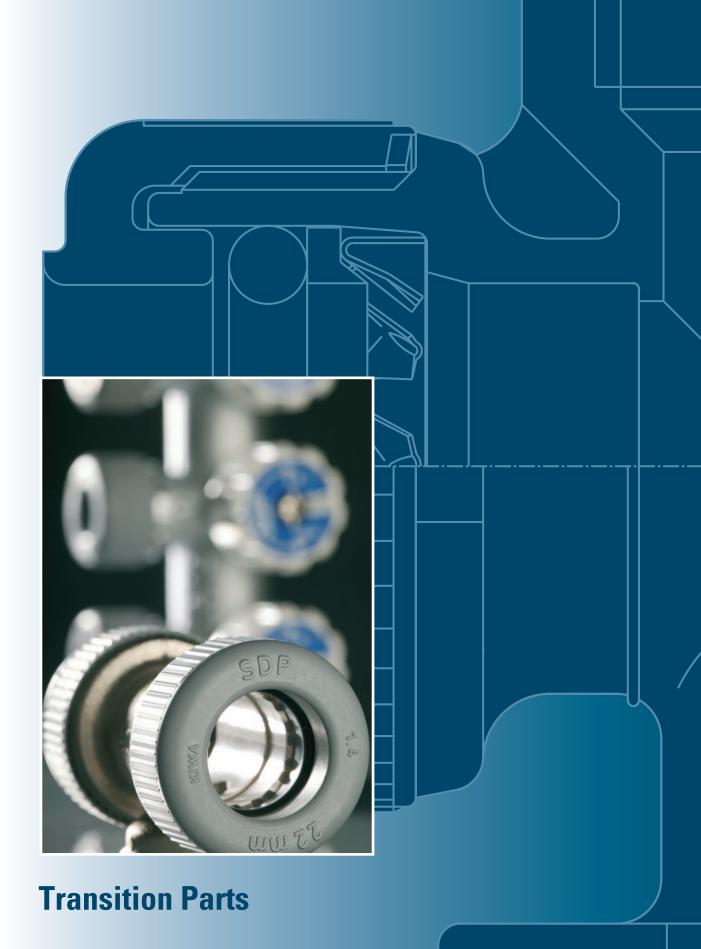


REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В
FC.077.020	20x2000	520,0	STEEL	24,0	11,0
FC.077.025	25x2000	630,0	STEEL	29,0	18,0
FC.077.032	32x2000	720,0	STEEL	34,0	17,0
FC.077.040	40x2000	830,0	STEEL	42,0	21,0
FC.077.050	50x2000	1000,0	STEEL	52,0	26,0



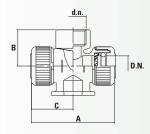


	OLII INAIL					
В	REFERENCE	DIMENSIONS	WEIGHT grs.	MATERIAL	A	В
	FC.065.003	20x40x2000	620,0	STEEL	20,0	10,0





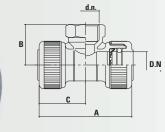




90° FEMALE SOCKET ADAPTER TEE

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.008.015	15x1/2"x15	213,0	BRASS	68,5	29,0	34,0
FC.008.016	16x1/2"x16	213,0	BRASS	68,5	29,0	34,0

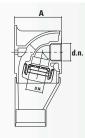




90° FEMALE SOCKET ADAPTER TEE

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.009.015	15x1/2"x15	145,0	BRASS	68,5	31,0	34,0
FC.009.016	16x1/2"x16	140,0	BRASS	68,5	31,0	34,0
FC.009.020	20x1/2"x20	172,5	BRASS	71,0	31,0	35,5
FC.009.022	22x1/2"x22	191,1	BRASS	72,5	30,5	36,5
FC.009.025	25x1/2"x25	256,0	BRASS	76,0	30,5	38,0

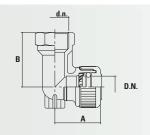




METALLIC ELBOW FOR SERVICEABLE INSTALLATIONS

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.024.015	15x1/2"	261,0	BRASS	53,5
FC.024.016	16x1/2"	239,9	BRASS	53,5
FC.024.020	20x1/2"	340,5	BRASS	56,5

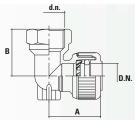




90° PROLONGED FEMALE SOCKET ADAPTER ELBOW

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.025.015	15x1/2"	129,0	BRASS	34,0	41,0
FC.025.016	16x1/2"	133,0	BRASS	34,0	41,0

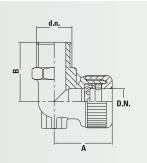




90° FEMALE SOCKET ADAPTER ELBOW

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В
FC.026.015	15x1/2"	107,0	BRASS	34,0	31,0
FC.026.016	16x1/2"	120,0	BRASS	34,0	31,0
FC.026.020	20x1/2"	126,0	BRASS	35,5	36,0
FC.026.020.3/4	20x3/4"	142,4	BRASS	38,3	36,0
FC.026.022	22x1/2"	133,5	BRASS	36,5	36,0
FC.026.022.3/4	22x3/4"	156,0	BRASS	40,5	36,0
FC.026.025	25x3/4"	201,5	BRASS	42,0	36,0
FC.026.025.1/2	25x1/2"	254,7	BRASS	36,6	36,0
FC.026.028	28x1"	254,7	BRASS	48,5	39,0
FC.026.032	32x1"	328,6	BRASS	54,0	41,0

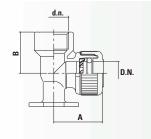




90° MALE SOCKET ADAPTER ELBOW

30 MALL 3	30 MALE SOURLI ADAI TER LEDOW							
REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В			
FC.026.015.003	15x1/2"	113,0	BRASS	35,0	35,0			
FC.026.022.003	22x3/4"	162,6	BRASS	36,0	45,0			

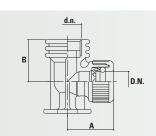




90° FEMALE SOCKET ADAPTER ELBOW

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.028.015	15x1/2"	146,3	BRASS	34,0	29,0
FC.028.016	16x1/2"	155,4	BRASS	34,0	29,0
FC.028.020	20x1/2"	163,4	BRASS	35,5	29,0
FC.028.022	22x1/2"	181,0	BRASS	36,0	29,0
FC.028.025	25x1/2"	213,8	BRASS	39,0	29,0

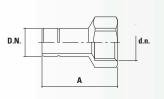




HIGH-TECH SOCKET 90° PLASTIC ELBOW

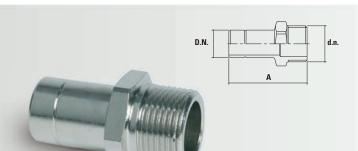
REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.028.015.00P	15x1/2"	38,00	TECHNICAL POLYMER	34,0	31,0
FC.028.022.00P	22x1/2"	48,42	TECHNICAL POLYMER	38,0	31,0





MALE-FEMALE METALLIC STRAIGHT CONNECTOR

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.030.015	15x1/2"	55,0	BRASS	48,0
FC.030.016	16x1/2"	51,0	BRASS	48,0
FC.030.020	20x1/2"	58,0	BRASS	49,0
FC.030.022	22x3/4"	65,0	BRASS	49,5
FC.030.025	25x3/4"	81,0	BRASS	44,5
FC.030.028	28x1"	110,0	BRASS	51,5
FC.030.032.010	32x1"	147,5	BRASS	53,5

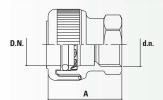


MALE METALLIC STRAIGHT CONNECTOR

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.031.015	15x1/2"	52,0	BRASS	50,0
FC.031.016	16x1/2"	50,0	BRASS	50,0
FC.031.020	20x1/2"	54,0	BRASS	51,0
FC.031.022	22x3/4"	80,0	BRASS	53,0
FC.031.025	25x3/4"	120,0	BRASS	57,5
FC.031.028	28x1"	196,0	BRASS	66,5
FC.031.032.010	32x1"	214,0	BRASS	68,5



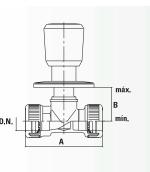




FEMALE METALLIC STRAIGHT CONNECTOR

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.033.015	15x1/2"	79,3	BRASS	42,0
FC.033.016	16x1/2"	78,7	BRASS	42,0
FC.033.020	20x1/2"	92,5	BRASS	41,5
FC.033.022	22x3/4"	117,7	BRASS	44,0
FC.033.025	25x3/4"	144,2	BRASS	45,0
FC.033.028	28x1"	194,1	BRASS	50,5
FC.033.032	32x1 1/4"	321,0	BRASS	56,5
FC.033.032.010	32x1"	-	BRASS	51,5

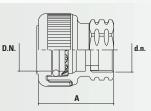




METALLIC STOPCOCK

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В тах.	В міп.
FC.038.015.000	15	573,0	BRASS	82,0	47,5	19,0
FC.038.016.000	16	563,0	BRASS	82,0	47,5	19,0
FC.038.020.000	20	473,1	BRASS	89,5	51,0	26,0
FC.038.022.000	22	508,0	BRASS	89,5	51,0	26,0





FEMALE HIGH-TECH PLASTIC STRAIGHT CONNECTOR

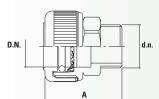
REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.033.015.00P	15x1/2"	10,0	TECHNICAL POLYMER	42,0
FC.033.016.00P	16x1/2"	10,2	TECHNICAL POLYMER	42,0
FC.033.020.00P	20x1/2"	31,2	TECHNICAL POLYMER	42,0
FC.033.022.00P	22x3/4"	31,5	TECHNICAL POLYMER	44,0
FC.033.025.00P	25x3/4"	38,0	TECHNICAL POLYMER	45,0
FC.033.028.00P	28x1"	50,5	TECHNICAL POLYMER	50,5



BALL VALVE

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.049.015	15	288,5	BRASS	85,5	38,0
FC.049.016	16	288,5	BRASS	85,5	38,0
FC.049.020	20	319,8	BRASS	88,5	41,0
FC.049.022	22	328,0	BRASS	86,5	40,0
FC.049.025	25	452,6	BRASS	100,0	43,0
FC.049.028	28	510,4	BRASS	104,5	43,0
FC.049.032	32	790,4	BRASS	-	-
FC.049.040	40	1.220,0	BRASS	-	-
FC.049.050	50	1.538,0	BRASS	-	-

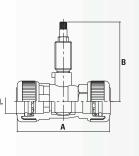




MALE-FEMALE METALLIC STRAIGHT CONNECTOR

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.035.015	15x1/2"	85,0	BRASS	39,5
FC.035.016	16x1/2"	85,0	BRASS	39,5
FC.035.020	20x1/2"	90,0	BRASS	42,0
FC.035.022	22x3/4"	120,0	BRASS	44,0
FC.035.025	25x3/4"	144,0	BRASS	47,0
FC.035.028	28x1"	204,0	BRASS	55,5
FC.035.032	32x1 1/4"	362,0	BRASS	63,5
FC.035.032.010	32x1"	236,0	BRASS	60,5
FC.035.040	40x1 1/4"	451,0	BRASS	66,0
FC.035.050	50x1 1/2"	584,0	BRASS	67,0

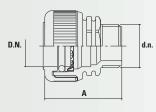




BALL VALVE CASING

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.057.015.010	15	313,8	BRASS	82,0	80,0
FC.057.016.010	16	304,4	BRASS	85,5	80,0
FC.057.020.010	20	339,8	BRASS	-	-
FC.057.022.010	22	346,0	BRASS	87,0	81,0
FC.057.025.010	25	463,6	BRASS	98,0	84,0
FC.057.028.010	28	535,4	BRASS	105,0	84,0
FC.057.032.010	32	786,4	BRASS	113,0	91,0





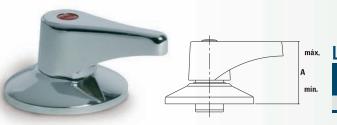
MALE-FEMALE HIGH-TECH PLASTIC STRAIGHT CONNECTOR

NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
15x1/2"	18,0	TECHNICAL POLYMER	39,5
16x1/2"	19,0	TECHNICAL POLYMER	39,5
20x1/2"	28,0	TECHNICAL POLYMER	41,0
22x3/4"	31,0	TECHNICAL POLYMER	44,0
25x3/4"	37,0	TECHNICAL POLYMER	47,0
28x1"	52,0	TECHNICAL POLYMER	55,5
	mm. 15x1/2" 16x1/2" 20x1/2" 22x3/4" 25x3/4"	mm. grs. 15x1/2" 18,0 16x1/2" 19,0 20x1/2" 28,0 22x3/4" 31,0 25x3/4" 37,0	mm. grs. 15x1/2" 18,0 TECHNICAL POLYMER 16x1/2" 19,0 TECHNICAL POLYMER 20x1/2" 28,0 TECHNICAL POLYMER 22x3/4" 31,0 TECHNICAL POLYMER 25x3/4" 37,0 TECHNICAL POLYMER



CROSSHEAD AND FINIAL FOR VALVE

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	А мах.	A Min.
FC.057.025.028	15,16,22,25,28 y 32	68,0	BRASS	54,0	25,5

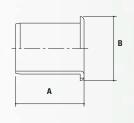


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LEVEL HANDLE AND I INIAL I ON VALVE							
REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A Max.	A Min.		
FC.058.025.028	15,16,22,25,28 y 32	86,0	BRASS	56,0	42,5		







PB END CAP

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.041.032	32	-	PB	-
FC.041.040	40	-	PB	-
FC.041.050	50	-	PB	-



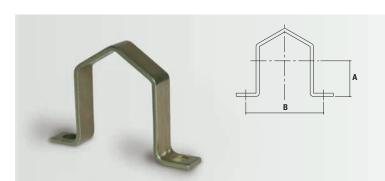


-115 0711				
REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A
FC.040.015	15	1,0	STAINLESS STEEL	19,0
FC.040.016	16	2,0	STAINLESS STEEL	20,0
FC.040.020	20	2,0	STAINLESS STEEL	23,5
FC.040.022	22	2,0	STAINLESS STEEL	26,0
FC.040.025	25	3,0	STAINLESS STEEL	29,0
FC.040.028	28	3,0	STAINLESS STEEL	32,0



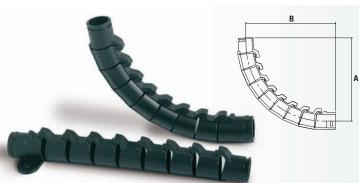


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В	REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В		
	FC.060.015.00P	15	1,0	TECHNICAL POLYMER	22	14,50		
	FC.060.016.00P	16	1,0	TECHNICAL POLYMER	22	15,50		
	FC.060.020.00P	20	2,0	TECHNICAL POLYMER	23	19,50		
	FC.060.022.016.00P	22	2,0	TECHNICAL POLYMER	23	21,50		
	FC.060.025.00P	25	2,0	TECHNICAL POLYMER	23	24,50		
	FC.060.028.00P	28	3,0	TECHNICAL POLYMER	26	27,50		
	FC.060.032.00P	32	6,0	TECHNICAL POLYMER	32	31,50		
	FC.060.040.00P	40	10,0	TECHNICAL POLYMER	40	39,50		
	FC.060.050.00P	50	20,0	TECHNICAL POLYMER	59	49,50		



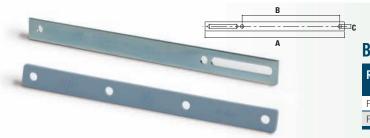
STOPCOCK CLIP

3101 0001	OLII				
REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	grs.		В
FC.066.015	15	14,0	GALVANISED STEEL	18,0	42,0
FC.066.022	22	16,0	GALVANISED STEEL	22,0	47,0
FC.066.025	25	12,0	GALVANISED STEEL	22,4	48,0
FC.066.028	28	12,0	GALVANISED STEEL	23,9	48,5
FC.066.032	32	14,0	GALVANISED STEEL	26,3	57,0
FC.066.040	40	22,0	GALVANISED STEEL	32,0	61,5
FC.066.050	50	26,0	GALVANISED STEEL	36,5	71,5



ARTICULATED CURVE FOR HEATING INSTALLATIONS

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC.076.015	15 y 16	28,0	-	56	60,5



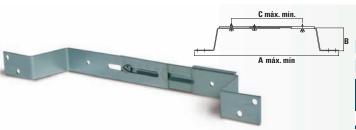
BRASS ELBOW SEPARATOR

REFERENCE	MATERIAL	WEIGHT grs.	A Max.	B Max.	B Min.	C Max.
FC.080	STAINLESS STEEL	214	200	200	150	5,5
FC.080.00P	PB	17	164	150	50	5,5



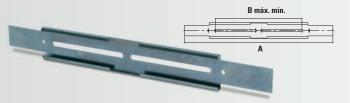
SINGLE BRACKET FOR SERVICEABLE INSTALLATIONS

REFERENCE	MATERIAL	WEIGHT grs.	A Max.	A Min.	B Max.
FC.081	GALVANISED STEEL	68	157	-	48



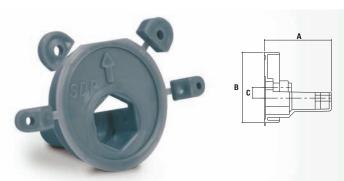
DOUBLE BRACKET FOR SERVICEABLE INSTALLATIONS

REFERENCE	MATERIAL	WEIGHT grs.	A Max.	A Min.	B Max.	B Min.	C Max.
FC.082	GALVANISED STEEL	139	345	285	48	-	-



SUPPORT GUIDE

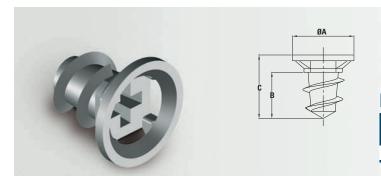
REFERENCE	MATERIAL	WEIGHT grs.			B Max.	B Min.	C Max.
FC.083	GALVANISED STEEL	116	350	-	204	-	-



SUPPORT FOR BRASS ELBOWS IN PLASTERBOARD INSTALLATIONS

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.084	15,16,20 y 22	32,0	POLYPROP.	62,0	65,0	10,0
FC.085	15,16,20 y 22	35,7	POLYPROP.	62,0	65,0	10,0

Nota: The metallic elbow is not included.

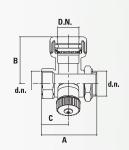


RRACKET TO BE JISED IN PLASTERROARD INSTALLATIONS

DIVACIVE	DIVACILLIO DE OSED IN LEASTENDOAND INSTALLATIONS										
	NOMINAL DIAMETER mm.		MATERIAL	A	В	C					
FC.086	-	-	-	16	12	16,5					



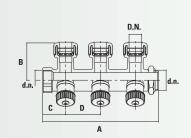




ONE OUTLET METALLIC MANIFOLD

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C
FC.313.034.022	3/4"x3/4"x22	289,5	BRASS	65,0	49,0	29,0

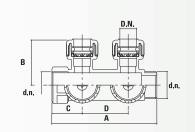




THREE OUTLET METALLIC MANIFOLD

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C	D
FC.317.034.015	3/4"x3/4"x15x15x15	627,8	BRASS	151,0	47,0	29,0	45,0
FC.317.034.016	3/4"x3/4"x16x16x16	627,6	BRASS	151,0	47,0	29,0	45,0

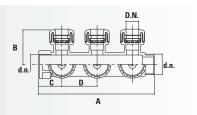




90° TWO OUTLET METALLIC MANIFOLD

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C	D
FC.215.034.015	3/4"x3/4"x15x15	534,5	BRASS	109,0	44,0	32,0	45,0
FC.215.034.016	3/4"x3/4"x16x16	534,4	BRASS	109,0	44,0	32,0	45,0

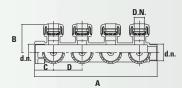




90° THREE OUTLET METALLIC MANIFOLD

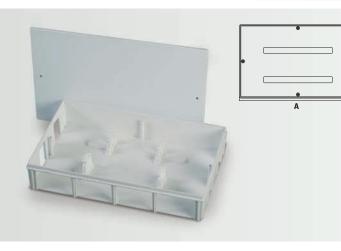
REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В	C	D
FC.217.034.015	3/4"x3/4"x15x15x15	786,8	BRASS	154,0	44,0	32,0	45,0
FC.217.034.016	3/4"x3/4"x16x16x16	786,6	BRASS	154,0	44,0	32,0	45,0





90° FOUR OUTLET METALLIC MANIFOLD

REFERENCE	NOMINAL Diameter mm.	WEIGHT grs.	MATERIAL	A	В	C	D
FC.218.034.015	3/4"x3/4"x15x15x15x15	1.035,2	BRASS	197,0	44,0	32,0	45,0
FC.218.034.016	3/4"x3/4"x16x16x16x16	1.034,8	BRASS	197,0	44,0	32,0	45,0





(
REFERENCE	DIMENSIONS	WEIGHT grs.	MATERIAL	A	В
FC.119.320.300	320x300	927,0	PLASTIC	320,0	300,0
FC.119.460.300	460x300	1254,0	PLASTIC	460,0	300,0

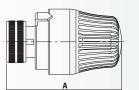


BOX FOR PLUMBING AND HEATING MANIFOLDS (WITH TWO SUPPORTS)

REFERENCE	DIMENSIONS	WEIGHT grs.	MATERIAL	A	В
FC.219.480.250	480x250	1220,0	PLASTIC	480,0	250,0

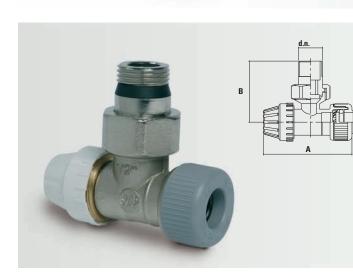






TERMOSTATIC HEAD

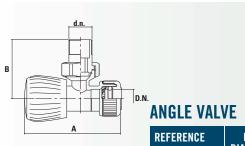
REFERENCE	WEIGHT grs.	MATERIAL	A	В
FC 190.000	99,0	-	89	-



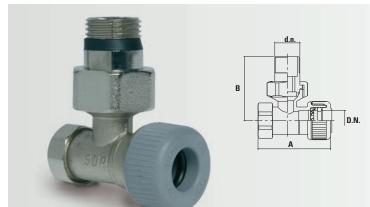
ANGLE VALVE (CAN BE FITTED WITH TERMOSTATIC HEAD)

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC 190.015.012	15x1/2"	250,1	BRASS	75	53
FC 190.016.012	16x1/2"	251,0	BRASS	75	53





REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC 191.015.012	15x1/2"	223,0	BRASS	85	52
FC 191.016.012	16x1/2"	223,0	BRASS	85	52



ANGLE TAP

REFERENCE	NOMINAL DIAMETER mm.	WEIGHT grs.	MATERIAL	A	В
FC 192.015.012	15x1/2"	187,0	BRASS	57	52
FC 192.016.012	16x1/2"	187,0	BRASS	57	52



Fittings for Radiator Heating





MARKING PIPE

REFERENCE	DIAMETER	WEIGHT grs.	MATERIAL
FC.070	15 a 32	23,4	PLASTIC



PIPE CUTTER (Ø TO 28 mm.)

REFERENCE	DIAMETER	WEIGHT grs.	MATERIAL
FC.073	0 a 28	110	PLASTIC



PIPE CUTTER (Ø TO 28 mm.)

REFERENCE	DIAMETER	WEIGHT grs.	MATERIAL
FC.074	0 a 28	294	METALLIC



PIPE CUTTER (Ø TO 125 mm.)

REFERENCE	DIAMETER	WEIGHT grs.	MATERIAL
FC.078.006.067	Ø 6 a 63	800	METALLIC
FC.078.050.127	Ø 50 a 125	1.630	METALLIC



SILICONE LUBRICANT (no toxic)

REFERENCE	CONTAINS	WEIGHT grs.
S.255.030	30	-
S.255	50	61









GRAB RING

REFERENCE	DESCRIPTION
FC.045.015	Grab ring Ø 15 and Ø 16
FC.045.020	Grab ring Ø 20
FC.045.022	Grab ring Ø 22
FC.045.025	Grab ring Ø 25
FC.045.028	Grab ring Ø 28
FC.045.032	Grab ring Ø 32
FC.045.040	Grab ring Ø 40
FC.045.050	Grab ring Ø 50

HANDLE FOR METALLIC STOPCOCK

SUPPORT FOR MANIFOLD BOX

REFERENCE

FC.219.480.250.002

DESCRIPTION

Support for manifolds (1juego)

REFERENCE	DESCRIPTION
FC.038.015.018	Combined frame Ø 15 y Ø 16
FC.038.022.018	Combined frame Ø 20 y Ø 22

NUT FOR PB FITTINGS

REFERENCE	DESCRIPTION
FC.046.015	Nut for "PB" fittings Ø 15
FC.046.016	Nut for "PB" fittings Ø 16
FC.046.020	Nut for "PB" fittings Ø 20
FC.046.022	Nut for "PB" fittings Ø 22
FC.046.025	Nut for "PB" fittings Ø 25
FC.046.028	Nut for "PB" fittings Ø 28
FC.046.032	Nut for "PB" fittings Ø 32
FC.046.040	Nut for "PB" fittings Ø 40
FC.046.050	Nut for "PB" fittings Ø 50

CROSSHEAD-ROSETTE ASSEMBLY

REFERENCE	DESCRIPTION
FC.038.015.022	Crosshead and finial Ø15,Ø16,Ø20, y Ø22. Square screw.
FC.038.015.083	Crosshead and finial Ø15,Ø16,Ø20, y Ø22. Fluted screw.

RUBBER-RING

REFERENCE	DESCRIPTION
FC.050.015	Rubber ring Ø 15
FC.050.016	Rubber ring Ø 16
FC.050.020	Rubber ring Ø 20
FC.050.022	Rubber ring Ø 22
FC.050.025	Rubber ring Ø 25
FC.050.028	Rubber ring Ø 28
FC.050.032	Rubber ring Ø 32
FC.050.040	Rubber ring Ø 40
FC.050.050	Rubber ring Ø 50

THREADED SPINDLE EXTENSION

REFERENCE	DESCRIPTION
FC.057.058.001	Threaded spindle extension for Ref. FC.057 y FC.054

SPARE RING

REFERENCE	DESCRIPTION
FC.055.015	Spare ring Ø 15 y Ø 16
FC.055.020	Spare ring Ø 20
FC.055.022	Spare ring Ø 22
FC.055.025	Spare ring Ø 25
FC.055.028	Spare ring Ø 28
FC.055.032	Spare ring Ø 32
FC.055.040	Spare ring Ø 40
FC.055.050	Spare ring Ø 50

SCREWS

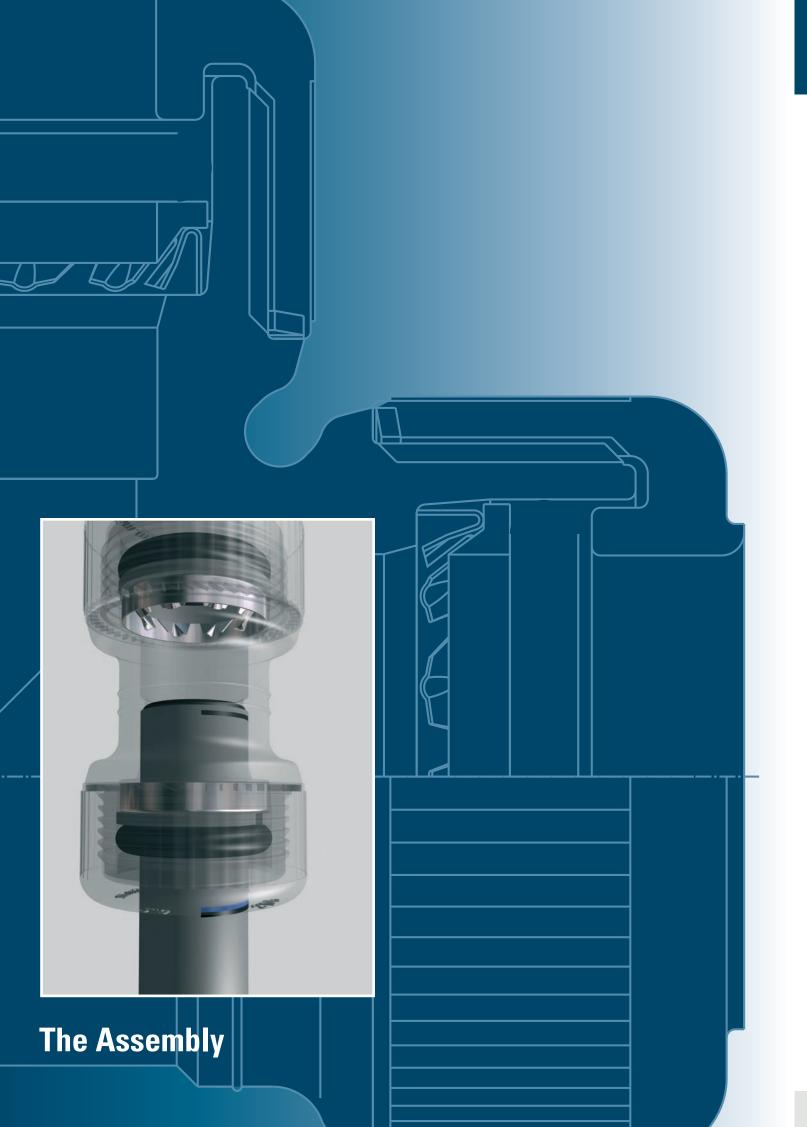
REFERENCE	DESCRIPTION
-C8.409.048.002	Screw for double support
FC8.413.048.002	Screw for single and double support
-C8.425.042.001	Screw for serviceable elbow
FC8.506	Screw for separator

FELT - TI PEN

REFERENCE	DESCRIPTION
FC4.071	Felt-ti pen



Spares and Accesories for PB Parts





VERY IMPORTANT:

It is ESSENTIAL that the pipe is introduced up to the own mark on the pipe, or up to the mechanical preprinted one, in order to be sure that the assembly is correctly carried out.

1 Cut the pipe



Use only a pipe cutter to cut the pipe. Never use a hacksaw. To ensure a clean, square cut, rotate the pipe whilst maintaining pressure on the cutter until the pipe is severed.

2 Insert a support sleeve into the pipe end



Insert a support sleeve into the pipe end. DO NOT FORGET this step, as otherwise it might come out of the fitting.

3 Lubricate



The outside of the pipe or the inside of the fitting (specially the grab ring) shall be lightly cleaned and lubricated in order to facilitate the insertion of the pipe into the fitting.

4 Introduce the pipe



Push the pipe firmly into the fitting until the end reaches the line marked by the felt-tin pen. Thus, with a quick look we check that it is properly joined.

Note: Make sure that the pipe is completely introduced into the fitting, up to the mark of the felt-tip pen.

5 Wrong



6 Right







TERRAIN SDP system is focused basically to plumbing and heating installations in:

- Housing, hotels, residences, schools, etc.
- Piping installations in caravans
- Shipping industry
- $\bullet \ \ \text{Refrigerated installations, fridges, refrigerated counters.}$

..

- Industrial installations
- Installations for chemicals (see table for resistance to chemical agents)
- Piping systems for liquid food
- Piping systems for liquidized pastes,

As well as all other piping systems where it is needed maximum disinfection conditions and hygiene, maximum security, speed and assembling flexibility.

PRECAUTIONS

TERRAIN SDP system: pipes and accessories in(PB) Polibutilene does not conduct electricity. So it cannot be used for connections to earth or connections to other electric systems. Maintain the pipes far from direct heating sources such as electric heaters, etc.

TERRAIN SDP pipes are flexible; they cannot be used to support or to hang accessories. (see our assembling manual)

SOUND LEVEL PRODUCED BY THE INSTALLATION

TERRAIN SDP piping systems are made of (PB) Polibutilene, which is a material that compared with metal, copper or iron,

can be considered as an acoustic insulator. This characteristic of the system reduces in the housing noises and vibrations caused by: taps, retention valves, motor-pumps, etc., which causes lots of problems and which are very difficult to avoid. The low degree of noise transmission makes TERRAIN SDP ideal for installations where the water speed is higher tan the speed watched for metallic installations, due to the fact that the noise transmission problem to the environmental media is fully reduced, being possible in some cases using pipes with a smaller diameter with the same working results.

WATER HAMMER EFFECT

In hydraulic installations, there can occur over occasional pressures, due to the quick lock of certain valves or tap. This circumstances receives the name of water hammer effect.

In the installation project, when it is know the characteristics of the different valves, regulation items and projected locks, there have to prevent and eliminate the possible water hammer effects which might occur.

Nevertheless, TERRAIN SDP system due to its elasticity, can absorb and eliminate water hammer effects, which usually can occur in plumbing and heating installations IN this type of installations there might occur due to water hammer effects over pressures up to 20 bars. Test made indicate that TERRAIN SDP can resist occasional pressures over 36 bars at a temperature of 20°C.







LUBRICANT

To ensure the best result, we recommend to use exclusivity the non toxic lubricant produced by NUEVA TERRAIN. This will make the assembling of TERRAIN SDP system easier

ensures a smooth connection without problems.

DO NOT USE LUBRICANTS WHICH MIGHT AFFECT THE SYSTEM COMPONENTS, OR HUMAN!.

ESTABILITY TO ULTRA VIOLET RAYS

Polybutilene (PB) pipes and accessories from TERRAIN SDP system are produced with protection against ultra violets rays. When the material is used outside, the material should be protected accordingly.

It is recommended not to store the material outside for long time to the direct sun shine.

TOXICITY

The Kiwa Certification, guarantees among other things, en exigent and exhaustive toxicological control of the components. Kiwa certification implies ATA citification (Attest Toxicological Aspects), which controls the strict migration requirements of the water department from the building and environmental Dutch Ministry.

NUEVA TERRAIN has the safest combination against the possible water contamination when transported. Here bellow we show some of TERRAIN SDP characteristics which makes the system unique for its application in the hydro sanitary installations for plumbing, heating and cooling applicattions in houses, hospitals, hotels, school, etc.

- Non toxic.
- It doesn't permit the proliferation of micro biologic organisms.
- No corrosion
- No scale build up.
- The installation does not need to be regularly renewed with chemical products which might present a contamination risk.
- When installing or assembling there is not used any strange product such as: soldering, soldering liquids, paint strippers, hemp, etc., which might pollute the water.
- Silone lubricant used by TERRAIN SDO system is not toxic.



Certificates

N° 001/00234562 N°001/003002 N° 002/00400 N° 001/00234563 N°001/003003 N° 002/00400 N° 001/00234564 N°001/003004 N° 002/00400 N° 001/00234565 N°001/003005 N° 002/00400 N° 001/00234566 N°001/003006 N° 002/00400 N° 001/00234567 N°001/003007 N° 002/00400 N° 001/00234568 N°001/003008 N° 002/00401 N° 001/00234569 N°001/003009 N° 002/00401 N° 001/00234570 N°001/003010 N° 002/00401 N° 001/00234574 N°001/003014 N° 002/00401 N° 001/00234575 N°001/003015 N° 002/00401

00234576 N°001/003016 N° 002/00401

00234578 N°001/003018 N° 002/00402

00234579 N°001/003019 N° 002/00402

00234580 N°001/003020 N° 002/00402

00234581 N°001/003021 N° 002/00402

00234582 N°001/003022 N° 002/00402

00234583 N°001/003023 N° 002/00402

0234584 N°001/003024 N° 002/00402

00234585 N°001/003025 N° 002/00402

00234586 N°001/003026 N° 002/00402

00234587 N°001/003027 N° 002/00402

N° 001/00234588 N°001/003028 N° 002/00403

N° 001/00234589 N°001/003029 N° 002/00403

N° 001/00234590 N°001/003030 N° 002/00403



AENOR Asociación Española de Normalización y Certificación

CERTIFICADO AENOR DE PRODUCTO Nº 001 / 004458

La Asociación Española de Normalización y Certificación (AENOR) certifica que el producto

TUBOS DE POLIBUTILENO (PB) PARA INSTALACIONES DE AGUA A PRESIÓN FRÍA Y CALIENTE

POLYBUTYLENE (PB) PIPES FOR HOT AND COLD WATER INSTALLATIONS

MARCA COMERCIAL: SDP

CLASE DE APLICACIÓN / PRESIÓN DE DISEÑO (bar) OPACIDAD SERIE DIÁMETROS (mm SERIE DIAMETERS (mr APPLICATION CLASS / DESIGN PRESSURE (bar) 1/10;2/10;4/10;5/10 1/10:2/10:4/10:5/10 22 - 25 - 28 - 32 - 40 - 50 - 63 - 75 - 90 - 110 1/10; 2/10; 4/10, 5/8

supplied by

and manufactured in

complies with

OPACITY

NUEVA TERRAIN, S.L. CL PADULETA, 2 01195 VITORIA (Alava - ESPAÑA)

v elaborado en PI JUNDIZ "E" - CL PADULETA, 2

01195 VITORIA (Alava - ESPAÑA) es conforme con

> UNE-EN ISO 15876-1:2004 UNE-EN ISO 15876-2:2004

nión: 2008-04-03

Fecha de caducidad: 2011-01-19

AENOR - Génova, 6 - 28004 MADRID - Teléfono 914 32 60 00 - Telefax 913 10 46 83

AENOR Asociación Española de Normalización y Certificación

CERTIFICADO AENOR DE PRODUCTO Nº 001 / 003587

La Asociación Española de Normalización y Certificación (AENOR) certifica que el producto

TUBOS DE POLIBUTILENO (PB) PARA INSTALACIONES DE AGUA A PRESIÓN FRÍA Y CALIENTE

POLYBUTYLENE (PB) PIPES FOR HOT AND COLD WATER INSTALLATIONS

SERIE DIÁMETROS (mm) CLASE DE APLICACIÓN / PRESIÓN DE DISEÑO (bar) OPACIDAD SERIE DIAMETERS (mm) APPLICATION CLASS / DESIGN PRESSURE (bar) OPACITY

supplied by

NUEVA TERRAIN, S.L. CL PADULETA, 2 01195 VITORIA (Alava - ESPAÑA)

y elaborado en

es conforme con

and manufactured in

PI EL SEQUERO, AV DEL RÍO EBRO, S/N 26509 LOGROÑO (La Rioja - ESPAÑA)

complies with

UNE-EN ISO 15876-1:2004 UNE-EN ISO 15876-2:2004

Feeha de caducidad: 2015-04-20

AENOIL ctor General de AENOR

AENOR - Génova, 6 - 28004 MADRID - Teléfono 914 32 60 00 - Telefax 913 10 46 83

Entidad acreditada por ENAC (C-PR002.01)

AENOR Asociación Española de Normalización y Certificación



AENOR Asociación Española de Normalización y Certificación

CERTIFICADO AENOR DE PRODUCTO Nº 001 / 004461

La Asociación Española de Normalización y Certificación (AENOR) certifica que el producto

ACCESORIOS PARA TUBOS DE POLIBUTILENO (PB PARA INSTALACIONES DE AGUA CALIENTE Y FRÍA

FITTINGS FOR POLYBUTYLENE (PB) PIPES FOR HOT AND COLD WATER INSTALLATIONS

detallado en la(s) página(s) siguiente(s),

detailed in the following page(s), supplied by

NUEVA TERRAIN, S.L. CL PADULETA, 2 01195 VITORIA (Alava - ESPAÑA)

suministrado por

PI JUNDIZ "E" - CL PADULETA, 2 01195 VITORIA (Alava - ESPAÑA)

UNE-EN ISO 15876-1:2004

UNE-EN ISO 15876-3:2004

Fecha de concesión: 2008-04-03 First issued on:

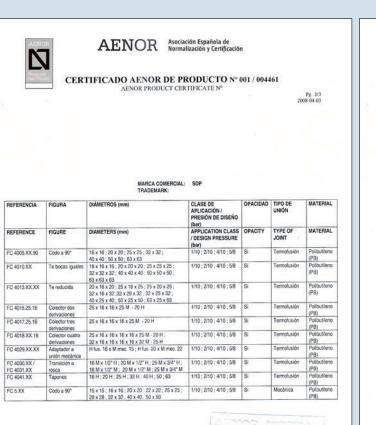
Fecha de caducidad: 2011-01-03 Expires on:

-Ft Director General de AFNOR

AENOR - Génova, 6 - 28004 MADRID - Teléfono 914 32 60 00 - Telefax 913 10 46 83

CERTIFICADO AENOR DE PRODUCTO Nº 001 / 004461 MARCA COMERCIAL: SDP TRADEMARK: OPACIDAD TIPO DE APPLICATION CLASS OPACITY TYPE OF REFERENCE (bar) 1/10 : 2/10 : 4/10 : 5/8 FC XX XX / 2 x 15 x 15 x 22 · 22 x 16 x 16 x 22 · 5 x 15 x 15 x 15 x 25 ; 25 x 16 x 16 x 16 x 25 1/10 : 2/10 : 4/10 : 5/8 25 x 15 x 25 : 25 x 16 x 25 25 x 22 x 25 : 28 x 22 x 28 28 x 15 x 28 : 32 x 22 x 32 32 x 25 x 32 : 32 x 28 x 32 32 x 25 x 32 ; 32 x 28 x 32 20 x 16 x 16 ; 22 x 15 x 15 25 x 15 x 15 ; 25 x 16 x 16 25 x 20 x 20 ; 25 x 22 x 22 25 x 25 x 20 x 20 ; 25 x 20 x 25 40 x 25 x 40; 50 x 25 x 50 15; 16; 20; 22; 25; 28; 32; 40; 50 1/10 ; 2/10 ; 4/10 ; 5/8 FC 1.XX 5 x 15 ; 16 x 16 ; 20 x 20 ; 22 x 22 1/10 : 2/10 : 4/10 : 5/8 FC 10.XX 25 x 25 ; 28 x 28 ; 32 x 32 ; 40 x 40 ; 50 x 50 15 M x 16 H ; 20 M x 16 H ; 22 M x 20 H : 1/10 - 2/10 - 4/10 - 5/8 15 M x 16 H; 20 M x 16 H; 22 M x 20 H 22 M x 15 H; 25 M x 20 H; 25 M x 22 H 25 M x 28 H; 22 M x 25 H; 28 M x 25 H 28 M x 22 H; 32 M x 25 H; 32 M x 28 H 40 M x 32 H; 50 M x 40 H 32 M x 28 M FC 3.32.25 1/10 - 2/10 - 4/10 - 5/8 FC 4001.XX 16 x 16; 20 x 20; 25 x 25; 32 x 32; 1/10; 2/10; 4/10; 5/8 1/10 - 2/10 - 4/10 - 5/8 AENOR - Génova, 6 - 28004 MADRID - Teléfono 914 32 60 00 - Telefax 913 10 46 83









AENOR Asociación Española de Normalización y Certificación

AENOR - Génova, 6 - 28004 MADRID - Teléfono 914 32 60 00 - Telefax 913 10 46 83

CERTIFICADO AENOR DE PRODUCTO Nº 001 / 005110

DESCRIPCION DEL SISTEMA:

MARCA COMERCIAL (Trademark): SISTEMA SDP TIPO DE UNIÓN (Type of joint): Mecánica / Termofusión CLASE DE APLICACIÓN/PRESIÓN DE DISEÑO (bar): 1/10 ; 2/10 ; 4/10 ; 5/8

COMPONENETE DEL SISTEMA	DIÁMETROS (mm)	MATERIAL	REFERENCIAS
SYSTEM COMPONENT DIAMETERS (mm)		MATERIAL	REFERENCES
Tubos (Certificado AENOR 001/003587)	15 - 22 - 25	PB	
Tubos (Certificado AENOR 001/004458)	15 - 16 - 20 - 22 - 25 - 28 - 32 - 40 - 50 - 63 - 75 - 90 -	PB	
Adaptador a unión mecánica	H fus. 16 x M mec. 15; H fus. 20 x M mec. 22	PB	FC 4029.XX.XX
Codo a 90°	16 x 16; 20 x 20; 25 x 25; 32 x 32; 40 x 40; 50 x 50; 63 x 63	PB	FC 4005.XX.90
Codo a 90°	15 x 15; 16 x 16; 20 x 20; 22 x 22; 25 x 25; 28 x 28, 32 x 32, 40 x 40, 50 x 50	PB	FC 5.XX
Colector cuatro derivaciones	25 x 16 x 16 x 16 x 16 x 25 M - 20 H; 32 x 16 x 16 x 16 x 16 x 32 M - 25 H	РВ	FC 4018.XX.16
Colector dos derivaciones	25 x 16 x 16 x 25 M - 20 H	PB PB	FC 4015.25.16
Colector tres derivaciones	25 x 16 x 16 x 16 x 25 M - 20 H	PB	FC 4017.25.16
Colector	22 x 15 x 15 x 22; 22 x 16 x 16 x 22; 22 x 15 x 15 x 15 x 15 x 22; 22 x 15 x 15 x 15 x 22; 25 x 15 x 15 x 25; 25 x 15 x 15 x 15 x 25; 25 x 16 x 16 x 16 x 25	PB	FC XX.XX / FC XX.XX.XX
Manguito	15;16;20;22;25;28;32;40;50	PB	FC 1.XX
Manguito	16 x 16; 20 x 20; 25 x 25; 32 x 32; 40 x 40; 50 x 50; P 63 x 63		FC 4001.XX
		PB	FC 2.XX / FC 2.XX.XX
Reductor Macho-Hembra	20 M x 16 H; 25 M x 16 H; 25 M x 20 H; 32 M x 25 H ; 40 M x 32 H; 50 M x 40 H; 63 M x 50 H	PB	FC 4002.XX.XX
Reductor Macho-Macho	32 M x 28 M	PB	FC 3.32.25
Tapones	16 H; 20 H; 25 H; 32 H; 40 H; 50; 63	PB	FC 4041.XX
Te bocas iguales	PB	FC 10.XX	

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AENOR Asociación Española de Normalización y Certificación

AENOR - Génova, 6 - 28004 MADRID - Teléfono 914 32 60 00 - Telefax 913 10 46 83

CERTIFICADO AENOR DE PRODUCTO Nº 001 / 005110

detailed in the following page(s),

Fecha de caducidad: 2014-12-03

supplied by

DESCRIPCION DEL SISTEMA:

MARCA COMERCIAL (Trademark): SISTEMA SDP TIPO DE UNIÓN (Type of joint): Mecánica / Termofusión CLASE DE APLICACIÓN/PRESIÓN DE DISEÑO (bar): 1/10 ; 2/10 ; 4/10 ; 5/8

SYSTEM DESCRIPTION

COMPONENETE DEL DIÁMETROS (mm) REFERENCIAS REFERENCES FC 4010.XX FC XX XX / FC x 32 : 32 x 25 x 32 : 32 x 28 x 32 : 20 x 16 x 16 : 22 x 15 x 15; 25 x 15 x 15; 25 x 16 x 16; 25 x 20 x 20; 25 x 22 x 22; 25 x 25 x 20; 25 x 20 x 25; 40 x 25 x 40; 50 x 25 x 50 20 x 16 x 20; 25 x 16 x 25; 25 x 20 x 25; 32 x 16 x 32 FC 4013.XX.XX Te reducida ;32 x 20 x 32 ; 32 x 25 x 32 ; 40 x 25 x 40 ; 50 x 25 x 50;63 x 25 x 63 16 M x 1/2* H; 20 M x 1/2* H; 25 M x 3/4* H; 16 M x 1/2* M; 20 M x 1/2* M; 25 M x 3/4* M C 4030.XX / FC



AENOR - Génova, 6 - 28004 MADRID - Teléfono 914 32 60 00 - Telefax 913 10 46 83



Licença para o uso da Marca Produto Certificado



Licença nº TMP - 004/2006 Data: 2006-06-05

Nome e morada do titular da licença:
Name and address of the licencee:

Nueva Terrain S.L.
C/ Paduleta, 2
01015 Vitoria - España

Nueva Terrain S.L. C/ Paduleta, 2 01015 Vitoria - España

Tubos em polibutileno (PB) para instalações de água quente e fria

Marca(s) com ial(is): SDP

Características técnicas: Em anexo / In annex

Este product foi ensalado e está em conformidade com (norma): EN ISO 15876-1:2003
This product has been tested and is in conformity with fetandard: EN ISO 15876-2:2003

rios de ensaios nº(s) / emitidos por: LMP-0484/2005, LMP-1329/2004 / CEIS, P-03/15 Body Cote in test report(s) ref. Issued by: MAT/LAB 214F / WRc-NSF Ltd

Esta licença é válida até: 2011-06-04

hour Janu

Esta licença é constituída por 1 anexo com 1 página This licence is composed of 1 annex with 1 page



Certif

Licença para o uso da Marca Produto Certificado



Nome e morada do fabricante:

Acessórios em polibutileno (PB) para instalações de água quente e fria Polybutyliane (PB) littings for hot and cold water installations

Este produto foi ensaiado e está em conformidade com (norma): EN ISO 15876-1:2003 This product has been tested and is in conformity with (standard): EN ISO 15876-3:2003

Relatórios de ensalos n°(s) / emitidos por:

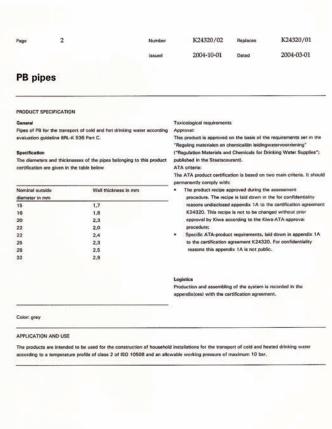
As show in test report(s) ref. Issued by:

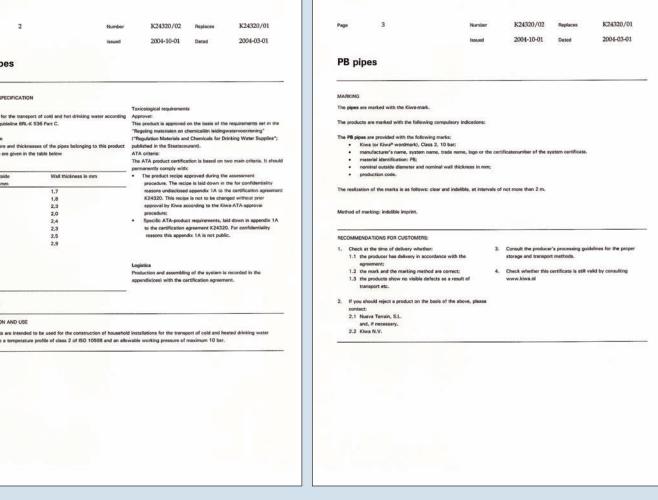
MATI.AB 209F, MATI.AB 210F, MATI.AB 212F, MATI/LAB 213F,
MATI.AB 215F / WRC-NSF Ltd

Informação adicional (se existir):

Esta licença é válida até: 2011-06-04 e substitui a licença nº:

Esta licença é constituida por 1 anexo com 4 páginas This licence is composed of 1 anexy with 4 pages





Licença para o uso ertif da Marca Produto Certificado Licença nº TMP - 006/2006 Data: 2006-06-07

Nome e morada do titular da licença:
Name and address of the licencee:

Varne and address of the licencee:

Of Paduleta, 2

O1015 Vitoria - España.

Nueva Terrain S.L. C/ Paduleta, 2 01015 Vitoria - España Nome e morada do fabricante: Manufacturer's name and address:

Sistemas de tubagem em politiutilleno (PB) para instalações de água quente e fria / Polybutylene plastic piping systems for hot and cold water installations

De acordo com as licenças CERTIF / According CERTIF licences: Tubos / Pipes - TMP - 004/2006

ial(is): SDP

Características técnicas:
Tubos - licença nº / licence nº TMP - 004/2006
Acessórios - licença / licence nº TMP - 005/2006

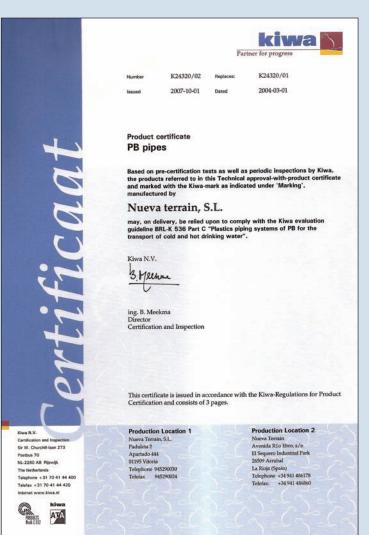
Este produto foi ensaiado e está em conformidade com (norma): EN ISO 15876-1:2003
This product has been tested and is in conformity with (standard): EN ISO 15876-5:2003

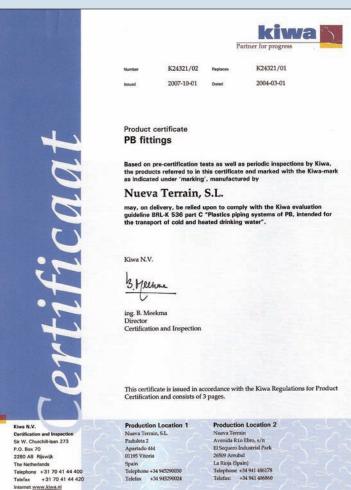
Relatórios de ensaios nº(s) / emitidos por: LMP - 0073/2005 / CEIS, P-03/15 / Bodycote, 18614 XXIV / Torroja

Informação adicional (se existir):

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ATA

PB fittings PRODUCT SPECIFICATION Approval:
This product is approved on the basis of the requirements set in the This product is approved on the basis of the requirements set in the "Regularing matteins are chemicalism is indiagnovateroorizening" ("Regulation Materials and Chemicals for Drinking Water Supplies"; published in the Staatscourient).

ATA criterie:
The ATA product certification is based on two main criteria. It should Fittings of PB intended for the transport of cold and heated drinking rater according to BRI -K 536, part C. The diameters and wall thicknoblelong to this product certifical he ATA product certification is based on two main criteris. It should emanenty comply with:

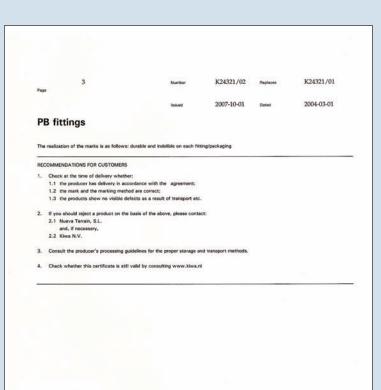
The product recipe approved during the assessment procedure. The recipe is laid down in the for certification agreement K24921. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa ATA-approval processor. Specific ATA-product requirements, laid down in appendix 1A to the certification agreement EX4921. For confidentiality reasons this appendix 1A is not public. diameter in mm in mm The fittings make use of an insert system. APPLICATION AND USE ding to a temperature profile of class 2 of ISO 10508 and an allowable working pressure of maximum 10 ber. The fittings are provided with at least the following marks: manufacturer's name, trade name or logo;
 nominal outside diameter in mm of the connecting pipe; The amaliast packaging unit of the fittings are provided with at least the following information:

* Kiwa (or Kiwa*-mark);

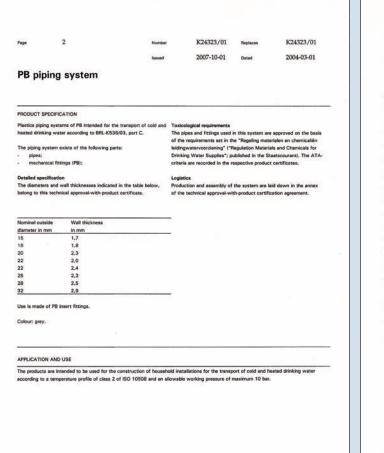
* manufacturer's name, trade name, system name, logo or certificate number of the accompanying technical approval (system) certificate, in accordance with the marking of the connecting pipe;

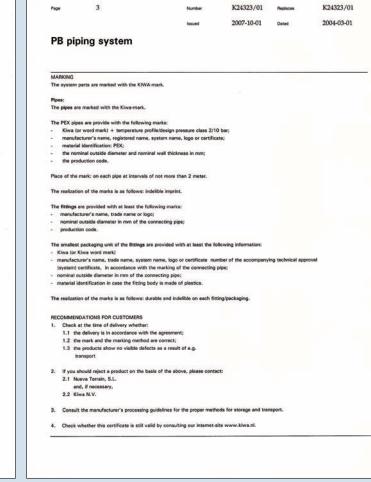
* nominal outside diameter in mm of the connecting pipe;

* material identification in case the fitting body is made of plastics.



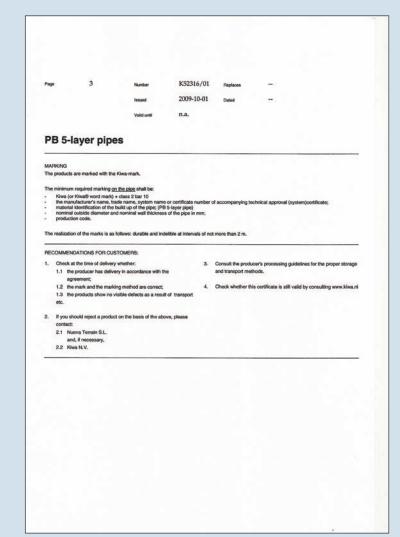


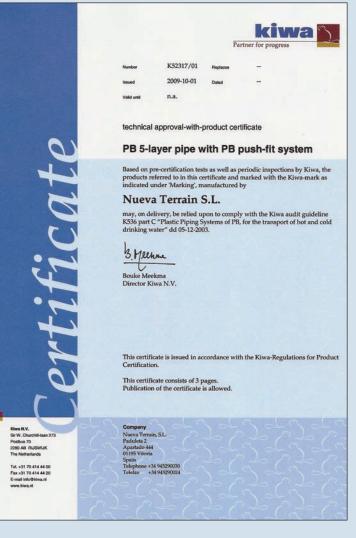


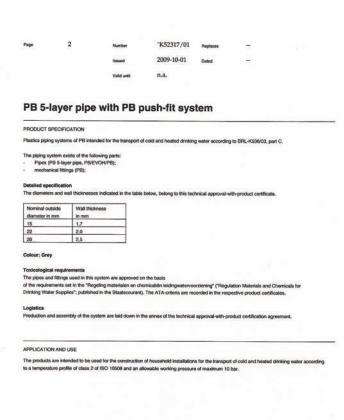


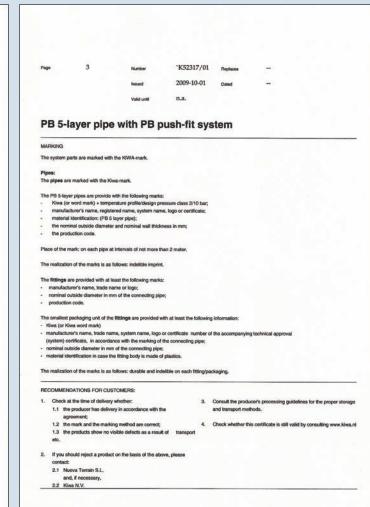


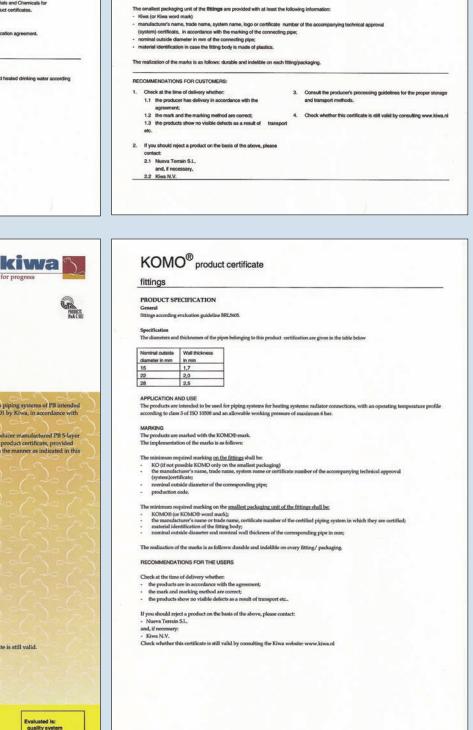




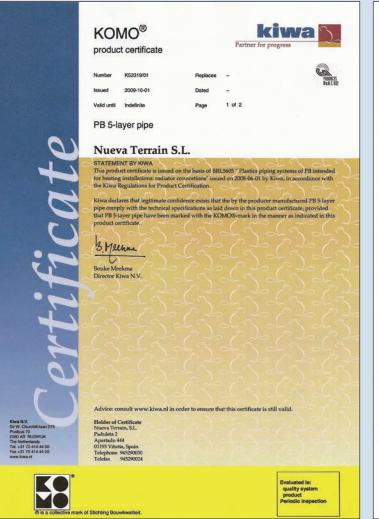




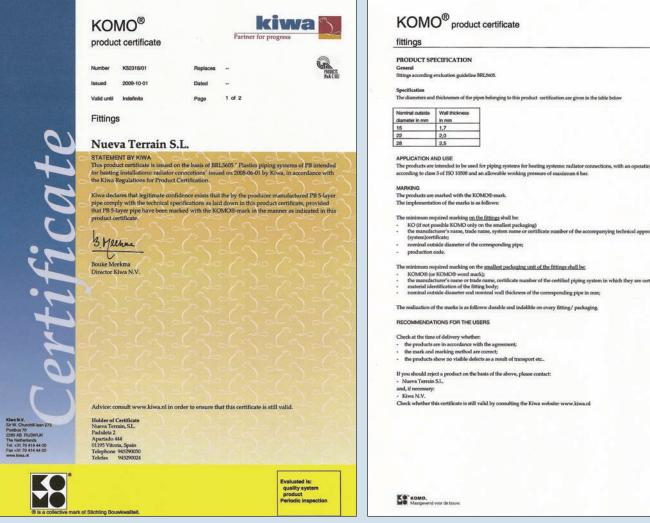


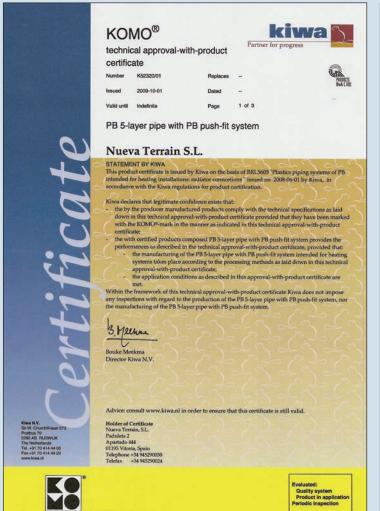


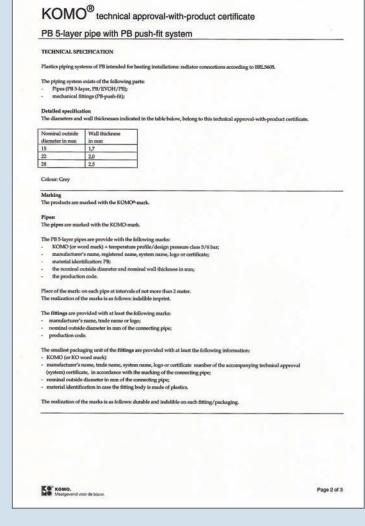
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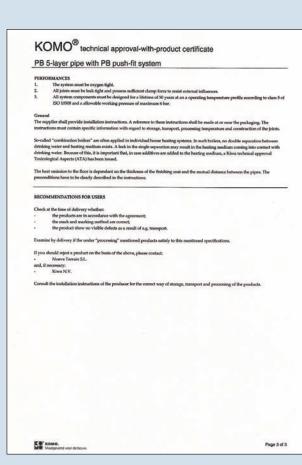














Please note that all regular text on this page should be in Arial size 9. Product description D15 to D110 as per NUEVA TERRAIN S.L.. Product Specification Fittings: D: Diameter For installation according to DNV Rules and Manufacturer's Specification

DET NORSKE VERITAS TYPE APPROVAL CERTIFICATE

Det Norske Veritas TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. K-4130

This is to certify that the

Plastic Pipes, Thermoplasti

NUEVA TERRAIN, S.L. itoria-Gazteiz, ALAVA, Spain

is found to comply with

as' Type Approval Programme 1-501.2, 2009, Thermoplastic Pipes Det Norske Veritas' Rules for Classification of Shins

Type Approval documentation

Marking of product

UEVA TERRAIN S.L. and/or

ter two (2) ve. rs (Certificate Retention Survey) and at renewal after four (4) years

anufacturer's product marking and the DNV Type Approval Certificate.

Condiciones Generales



GUARANTEE

Our guarantee solely and exclusively covers the replacement of the defective material or part once the client has carried out the tests required by the regulations and the defect has been reviewed and accepted by our technical department. Any incorrect handling or use other than that for the purpose for which it was designed automatically voids the guarantee.

DISCLAIMER

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To resolve disputes which may arise from the application of these standards, NUEVA TERRAIN, S.L. and the customer agree to be bound to the courts and tribunals of Vitoria, renouncing all other applicable codes of law.



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