PRODUCTS AND SERVICES

Pressure
Sewerage
Landfill sites

Services
Aquaculture
Tunnels

Bridges
Roads
Collectors

Marine applications
References

BIM AVAILABLE

En

Futura

SYSTEM GROUP

MADE IN ITALY

03.2024

SYSTEM GROUP

tubi.net


Futura
the quality
of a small craftsman
the technology
of a big company
the strength
of a big group

OUR MISSION
WE WANT TO CREATE THE GREATEST SATISFACTION IN THE SUPPLY OF PRODUCTS FOR MULTIPLE APPLICATIONS AND SERVICES BOTH OF HIGH QUALITY

FUTURA:
THE PARTNER THAT GUARANTEES THE BEST SOLUTIONS TAILORED FOR EACH CUSTOMER

The high quality standards we achieved are guaranteed by highly qualified staff that works inside the company, by the certification that are in accordance with the reference standards, by the internal testing done on all the special pieces before shipment.
Products are manufactured according to the national and international standards and certified by third parties of certification.

The priority **company policy**, which is in harmony with the entire System Group, is the customer satisfaction, pursued by providing a range pre and post-sale services, such as the rental of equipment and machines for welding and the on-site technical assistance.

Boscarini

CERTIFICATES

OF PRODUCT

Certificazione di Prodotto
BUREAU VERITAS Certification

UNI EN 12201-3

UNI EN 13598-2

UNI EN 13598-1

IIS CERT

UNI 9737

UNI EN 13067

COMPANY

FUTURA S.P.A. IS AN OPERATING COMPANY WITH THE FOLLOWING SYSTEMS:

PRODUCTION QUALITY
in accordance with UNI EN ISO 9001 standard

POLIECO
CONSORZIO NAZIONALE PER IL RICICLAGGIO DEI RIFIUTI DEI BENI A BASE DI POLIETILENE

FUTURA S.p.A. is enrolled at PolieCo association.
Certified subscription n. 4483 mandatory for law.
(D.Lgs. 152/2006 - art. 234).

click here

Certificates available on www.tubi.net

DISCOUNT
_____%

PRESSURE

DISCOUNT
_____%

DISCOUNT
_____%

SEWERAGE

DISCOUNT
_____%

click on the notch
to access the section

click on the notch
to access the section

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

PRESSURE

click on the notch to access the section

13 PRESSURE

INJECTION MOULDED FITTINGS

DESCRIPTION

Injection moulded fittings in PE100 that can be welded with buttwelding machines directly in the work site, or (for the figures in long spigot) with electric coupling box. All the injections are produced by following an ISO 9001:2008 certificated operation.
Fields of application: water and Gas pipelines, Sewer lines, Fire fighting, Irrigation and Industry.
By request we supply with moulded injection in Polypropylene for butt-welding and for poly fusion in the socket.

ADVANTAGES

> PERMANENT AND 100% WATERTIGHT SEAL
> WIDE RANGE OF SIZE ANDPERFORMANCE CHOICES
> SECURITY
> ECONOMY

MATERIAL

PE 100 RC
resistant to crack

CERTIFICATES

Standards / Certifications:
UNI EN 12201-3 / UNI EN 1555-3 / UNI EN ISO 15494

Additional certifications:

FM Approvals

APPLICATIONS

INJECTION 90° LONG SPIGOT ELBOW

CODE 201 PE 100

DN/OD mm	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
		€	
20	-	5,00	-
25	-	5,00	-
32	-	5,60	-
40	-	6,00	11,00
50	-	8,30	15,50
63	10,20	11,10	23,40
75	14,10	15,20	34,80
90	17,90	19,10	52,00
110	34,00	36,10	79,80
125	47,90	51,00	156,80
140	65,90	70,20	198,60
160	72,10	77,20	249,10
180	87,90	110,10	326,10
200	122,40	144,70	385,70
225	164,80	175,90	502,00
250	234,30	268,10	783,90
280	499,20	533,60	1.130,10
315	514,60	548,60	1.300,90
355	993,80	1.307,00	2.287,10
400	1.443,20	1.973,90	3.104,00
450	•	•	•
500	•	4.536,00	•
560	•	•	-
630	•	7.616,00	-

INJECTION CROSS PE100

CODE 213 PE 100

DN/OD mm	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
		€	
63	32,40	36,20	53,10
75	48,60	54,30	83,50
90	75,10	83,50	121,00
110	112,80	125,30	180,90
125	169,70	187,80	298,90
140	250,40	278,10	419,90
160	286,50	315,80	570,30
180	349,10	386,70	959,60
200	518,60	570,30	1.293,30
225	625,90	653,60	1.668,70
250	1.022,10	1.140,30	2.614,30
280	1.585,20	1.752,10	3.615,50
315	1.640,90	1.793,80	4.310,70
355	2.396,10	2.920,20	-

* Short spigot
• on request

Product price certified FM Approvals

INJECTION 45° LONG SPIGOT ELBOW

click on the notch to access the section

CODE 201 PE 100

DN/OD mm	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
		€	
20	-	7,00	-
25	-	7,00	-
32	-	7,00	-
40	-	7,00	12,10
50	-	7,40	16,80
63	10,20	11,30	22,70
75	13,50	14,70	31,80
90	17,00	18,70	45,60
110	32,90	36,20	76,00
125	47,60	52,50	161,90
140	60,20	66,10	206,20
160	70,20	77,20	237,80
180	82,60	90,80	343,90
200	112,70	123,90	361,70
225	145,40	159,30	500,60
250	201,20	221,40	662,40
280	422,20	464,00	1.015,30
315	437,50	479,20	1.163,10
355	721,60	1.007,50	1.633,80
400	993,80	1.429,50	2.314,40
450	•	•	•
500	•	2.912,00	•
630	•	5.376,00	•

INJECTION CAP

CODE 204 PE 100

DN/OD mm	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
		€	
20	-	4,90	-
25	-	4,90	8,40
32	-	6,60	11,70
40	-	7,50	13,70
50	-	9,10	15,80
63	9,60	10,40	20,10
75	11,20	12,10	29,60
90	13,70	14,80	47,80
110	20,50	22,30	63,90
125	23,10	25,00	68,70
140	37,50	40,70	102,20
160	38,40	41,80	108,60
180	46,10	50,20	142,80
200	75,10	81,80	159,30
225	93,30	101,40	192,20
250	101,40	109,90	213,80
280	129,00	140,40	325,00
315	230,10	250,40	448,90
400	806,40	963,20	-
355 *	313,20	428,90	910,00
400 *	476,60	626,40	•
450 *	612,60	898,60	•
500 *	803,30	1.021,00	-
560 *	1.021,00	1.429,50	-
630 *	1.701,80	1.973,90	-
710 *	•	•	-
800 *	•	•	-

INJECTION 45° LONG SPIGOT TEE

CODE 202 PE 100

DN/OD mm	SDR17 PN10	SDR11 PN16
	€	
63	25,00	27,90
75	41,80	44,60
90	48,60	54,30
110	73,80	80,80
125	123,80	136,30
140	180,90	201,70
160	235,20	258,60

• on request

INJECTION SHORT SPIGOT REDUCER

CODE 206 PE 100

DN/OD mm	D1	SDR26 PN6,3	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
		€			
250	160	77,80	79,80	93,10	187,80
250	180	77,80	79,80	93,10	187,80
250	200	77,80	79,80	93,10	187,80
250	225	77,80	79,80	93,10	187,80
280	200	91,40	93,10	111,50	222,50
280	225	91,40	93,10	111,50	222,50
280	250	91,40	93,10	111,50	222,50
315	225	96,10	98,30	118,20	243,30
315	250	96,10	98,30	118,20	243,30
315	280	96,10	98,30	118,20	243,30
355	225	126,70	128,70	155,70	-
355	250	126,70	128,70	155,70	389,50
355	280	126,70	128,70	155,70	389,50
355	315	126,70	128,70	155,70	389,50
400	280	231,40	235,90	297,30	778,70
400	315	231,40	235,90	297,30	778,70
400	355	231,40	235,90	297,30	778,70
450	315	367,60	373,10	471,80	884,80
450	355	367,60	373,10	471,80	884,80
450	400	367,60	373,10	471,80	884,80
500	355	570,60	585,50	697,60	-
500	400	570,60	585,50	697,60	1.007,50
500	450	570,60	585,50	697,60	1.007,50
560	400	656,30	671,90	901,30	1.497,60
560	450	656,30	671,90	901,30	1.497,60
560	500	656,30	671,90	901,30	-
630	450	837,40	886,40	1.115,10	-
630	500	837,40	886,40	1.115,10	-
630	560	837,40	886,40	1.115,10	-
710	560	1.150,50	1.272,30	1.844,00	-
710	630	1.150,50	1.272,30	1.844,00	-
800	710	1.441,80	1.715,40	2.042,10	-
900	800	1.748,00	2.430,10	2.722,90	-
1000	900	3.059,20	4.145,60	4.220,30	-
1200	1000	8.011,70	10.006,10	-	-

INJECTION 90° LONG SPIGOT TEE

CODE 202 PE 100

DN/OD mm	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
	€		
20	-	6,30	-
25	-	6,30	12,90
32	-	7,00	14,30
40	-	8,30	15,50
50	-	9,30	19,10
63	11,90	12,40	24,50
75	16,10	17,10	38,60
90	25,40	27,10	50,20
110	37,90	39,90	74,40
125	57,40	60,60	123,20
140	83,40	88,10	173,30
160	105,60	111,70	232,70
180	142,20	150,60	399,50
200	180,90	193,50	527,20
225	246,10	260,50	649,80
250	361,70	388,20	1.068,30
280	639,80	676,50	1.488,00
315	654,90	694,10	1.786,40
355	1.123,30	1.399,60	2.450,50
400	1.722,20	2.005,40	3.090,40
450	2.171,40	2.611,10	4.764,90
500	3.070,00	3.636,20	6.371,30
560	3.788,80	4.762,10	10.640,00
630	5.271,20	6.421,60	•

SHORT SPIGOT STUB END

CODE 208 PE 100

DN/OD mm	SDR26 PN6,3	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
	€			
63	-	7,20	7,50	-
75	-	8,70	9,00	-
90	-	11,80	12,50	-
110	-	13,80	15,00	-
125	-	16,20	17,60	-
140	7,30	20,80	22,70	-
160	23,60	24,60	26,70	-
180	39,00	40,90	44,20	-
200	48,00	50,20	54,80	-
225	51,50	53,80	58,60	-
250	66,90	69,80	75,70	-
280	70,50	79,80	91,80	221,40
315	84,40	94,80	119,90	246,60
355	115,90	153,80	176,40	340,40
400	217,90	256,10	334,90	664,30
450	309,10	404,50	531,00	1.048,30
500	326,80	419,40	539,10	1.138,20
560	422,10	584,10	689,00	1.792,00
630	442,60	666,40	778,70	-
710	653,60	868,60	1.437,60	-
800	950,30	1.213,10	2.246,30	-
900	1.170,90	1.647,20	3.267,30	-
1000	1.429,50	2.530,90	4.220,30	-
1200	2.396,10	5.241,20	7.487,70	-

LONG SPIGOT INJECTION REDUCED 90° TEE

CODE 203 PE 100

DN/OD mm	D1	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€	
90	50-63	28,80	31,40	-
110	50-63-90	42,30	46,30	93,60
125	63-90	63,90	70,20	141,70
140	63-90	93,30	102,50	206,50
160	63-90-110-125	118,30	129,80	378,10
180	63-90-110-125	158,80	174,50	-
200	63-90-110-125-160-180	234,30	257,40	-
225	90-110-125-160-180	282,00	309,90	-
250	110-125-160-180-200	460,20	505,80	1.227,60
280	110-225	608,80	670,00	1.706,60
315	110-125-160-180-200-225	732,00	805,30	1.786,40
355	110-160-200-225-250	1.259,40	1.674,60	2.450,50
400	110-160-225	1.930,50	2.330,80	3.090,40
450	160-225-315	2.476,50	3.059,20	4.764,90
500	160-250-315	3.437,70	4.224,50	-
560	250	4.224,50	5.535,30	-
630	160-250-315	5.826,60	7.574,70	-

LONG SPIGOT STUB END

CODE 207 PE 100

DN/OD mm	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
		€	
20	-	6,50	-
25	-	6,50	12,80
32	-	6,50	13,40
40	-	7,00	14,30
50	-	7,50	14,80
63	7,30	8,30	15,80
75	9,30	10,10	18,40
90	12,20	13,40	24,30
110	16,00	18,40	31,20
125	17,70	19,10	38,30
140	23,30	24,20	47,50
160	27,90	31,00	56,30
180	45,60	49,60	82,10
200	54,30	57,60	107,60
225	58,20	62,00	166,90
250	88,80	94,80	208,80
280	129,00	139,20	292,10
315	145,40	163,20	389,40
355	268,30	333,70	-
400	547,40	592,30	-

INJECTION LONG SPIGOT REDUCER

click on the notch to access the section

CODE 205 PE 100

DN/OD mm	D1	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€	
25	20	-	6,90	-
32	20	-	6,90	-
32	25	-	6,90	-
40	20	-	6,90	-
40	25	-	6,90	14,00
40	32	-	6,90	14,00
50	25	-	6,90	14,00
50	32	-	6,90	14,00
50	40	-	6,90	14,00
63	25	-	7,70	17,60
63	32	-	7,70	17,60
63	40	-	7,70	17,60
63	50	-	7,70	17,60
75	32	-	9,50	22,20
75	40	-	9,50	22,20
75	50	-	9,50	22,20
75	63	-	9,50	22,20
90	50	-	12,70	29,30
90	63	-	12,70	29,30
90	75	-	12,70	29,30
110	50	15,80	16,90	38,80
110	63	15,80	16,90	38,80
110	75	15,80	16,90	38,80
110	90	15,80	16,90	38,80
125	63	22,30	23,80	54,80
125	75	22,30	23,80	54,80
125	90	22,30	23,80	54,80
125	110	22,30	23,80	54,80
140	90	34,70	36,90	85,70
140	110	34,70	36,90	85,70
140	125	34,70	36,90	85,70
160	90	41,90	44,90	96,50
160	110	41,90	44,90	96,50
160	125	41,90	44,90	96,50
160	140	41,90	44,90	96,50
180	63	48,30	51,40	-
180	110	48,30	51,40	-
180	125	48,30	51,40	122,40
180	140	48,30	51,40	122,40
180	160	48,30	51,40	122,40
200	90	63,30	67,50	-
200	140	63,30	67,50	161,90
200	160	63,30	67,50	161,90
200	180	63,30	67,50	161,90
225	110	86,10	92,10	-
225	160	86,10	92,10	194,70
225	180	86,10	92,10	194,70
225	200	86,10	92,10	194,70
250	180	115,50	130,90	301,00
250	200	115,50	130,90	301,00
250	225	115,50	130,90	301,00
315	225	189,30	214,90	-
315	250	189,30	214,90	-
355	315	-	705,60	-
400	315	840,00	-	-

Product price certified FM Approvals

FLANGE FOR STUB END PN 10

CODE 215

DN/OD mm	DN mm	*Reduced SP galvanised steel PN10	Alluminium PN10	PP coated PN 10
		€		
25	20	-	-	-
32	25	-	-	**16,10**
40	32	-	-	**19,30**
50	40	-	-	**22,10**
63	50	-	**26,10**	**26,40**
75	65	-	**30,40**	**33,10**
90	80	-	**34,80**	**34,00**
110	100	-	**37,20**	**37,50**
125	100	-	**37,20**	**36,90**
140	125	-	**50,90**	**43,50**
160	150	-	**60,80**	**57,30**
180	150	-	**60,80**	**57,00**
200	200	**65,30**	**81,90**	**87,20**
225	200	**65,30**	**81,90**	**87,20**
250	250	**87,00**	**106,70**	**116,00**
280	250	**87,00**	**106,70**	**106,80**
315	300	**109,60**	**136,40**	**190,20**
355	350	**155,70**	**178,60**	-
400	400	**196,30**	**310,00**	-
450	500	**243,90**	-	-
500	500	**255,50**	-	-
560	600	**386,90**	-	-
630	600	**375,20**	-	-
710	700	**539,00**	-	-
800	800	**759,50**	-	-
900	900	**781,20**	-	-
1000	1000	**1.015,20**	-	-
1200	1200	**1.430,60**	-	-

Drilling made according to: UNI EN 1092-1/04A - PN10
steel code 215A1 / alluminium code 215A4 / coated PP code 215R1

FLANGE FOR STUB END PN 16

CODE 215

DN/OD mm	DN mm	*Reduced SP galvanised steel PN16	Alluminium PN16	PP coated PN 16
		€		
25	20	**10,80**	-	-
32	25	**11,30**	-	**16,10**
40	32	**14,50**	-	**19,30**
50	40	**15,80**	-	**22,10**
63	50	**18,70**	-	**26,40**
75	65	**22,00**	-	**33,10**
90	80	**24,60**	-	**34,00**
110	100	**27,80**	-	**37,50**
125	100	**27,80**	-	**36,90**
140	125	**36,50**	-	**43,50**
160	150	**44,00**	-	**57,30**
180	150	**44,00**	-	**57,00**
200	200	**67,50**	-	**83,80**
225	200	**67,50**	-	**83,80**
250	250	**95,50**	-	**116,00**
280	250	**95,50**	-	**115,10**
315	300	**136,80**	-	**246,70**
355	350	**185,80**	-	-
400	400	**231,10**	-	-
450	500	**316,50**	-	-
500	500	**316,50**	-	-
560	600	**552,10**	-	-
630	600	**542,30**	-	-
710	700	•	-	-
800	800	•	-	-
900	900	•	-	-
1000	1000	•	-	-
1200	1200	•	-	-

Drilling made according to: UNI EN 1092-1/04A - PN16
steel code 215A1 / alluminium code 215A4 / coated PP code 215R1

FLANGE FOR STUB END PN 25

CODE 215

DN/OD mm	DN mm	*Reduced SP galvanised steel PN 25	PP coated PN 25
		€	
25	20	**39,80**	-
32	25	**32,40**	-
40	32	**33,70**	-
50	40	**35,00**	-
63	50	**43,30**	-
75	65	**56,30**	-
90	80	**63,70**	-
110	100	**78,20**	-
125	100	**78,20**	-
140	125	**114,00**	-
160	150	**139,60**	-
180	150	**139,60**	-
200	200	**199,50**	-
225	200	**199,50**	-

DN/OD mm	DN mm	*Reduced SP galvanised steel PN 25	PP coated PN 25
		€	
250	250	**245,00**	-
280	250	**245,00**	-
315	300	**441,00**	-
355	350	•	-
400	400	•	-
450	500	•	-
500	500	•	-
560	600	•	-
630	600	•	-
710	700	-	-
800	800	-	-
900	900	-	-
1000	1000	-	-
1200	1200	-	-

• prices on request
* Nominal Thickness according to UNI EN1092 on request

Drilling made according to: UNI EN 1092-1/04A - PN25
steel code 215A1 / alluminium code 215A4 / coated PP code 215R1

BLIND FLANGE PN 10

CODE 215

DN mm	Raw steel flange PN10	Galvanised steel flange PN 10
	€	
15	**15,30**	**17,00**
20	**17,40**	**19,40**
25	**22,40**	**24,90**
32	**25,70**	**28,50**
40	**29,70**	**33,00**
50	**36,80**	**40,80**
65	**45,40**	**50,40**
80	**55,60**	**61,80**
100	**55,60**	**61,80**
100	**80,60**	**89,60**
125	**104,10**	**115,60**
150	**140,80**	**156,40**
150	**164,90**	**183,20**
200	**164,90**	**183,20**
200	**241,40**	**268,20**
250	**241,40**	**268,20**
300	**308,90**	**343,20**
350	**431,20**	**479,10**
400	**529,20**	**588,00**
450	**680,40**	**756,00**
500	**776,60**	**862,90**
600	**1.291,50**	**1.435,00**

UNI EN 1092-1/05A - PN10 / steel code 215A2
Reduced-thickness steel punch, according to UNI EN 1092

BLIND FLANGE PN 16

CODE 215

DN mm	Raw steel flange PN10	Galvanised steel flange PN 10
	€	
15	**15,30**	**17,00**
20	**17,40**	**19,40**
25	**22,40**	**24,90**
32	**25,70**	**28,50**
40	**29,70**	**33,00**
50	**36,80**	**40,80**
65	**45,40**	**50,40**
80	**55,60**	**61,80**
100	**55,60**	**61,80**
100	**80,60**	**89,60**
125	**104,10**	**115,60**
150	**140,80**	**156,40**
150	**162,00**	**180,00**
200	**162,00**	**180,00**
200	**250,50**	**278,40**
250	**250,50**	**278,40**
300	**353,70**	**393,00**
350	**507,60**	**564,00**
400	**661,00**	**734,50**
450	**1.112,40**	**1.236,00**
500	**1.614,60**	**1.794,00**
600	**2.646,00**	**2.940,00**

UNI EN 1092-1/05A - PN16 UNI EN 1092-1/06A - PN16 steel code 215A2 /

FLAT GASKET

CODE 218G1

DN/OD mm	DN mm	Flat gasket for stub end
		€
25	20	**0,50**
32	25	**0,60**
40	32	**0,80**
50	40	**0,90**
63	50	**1,20**
75	65	**1,90**
90	80	**2,20**
110/125	100	**2,70**
140	125	**3,20**
160/180	150	**4,10**
200/225	200	**5,80**
250/280	250	**7,30**
315	300	**8,00**
355	350	**10,70**
400	400	**13,40**
450/500	500	**18,00**
560/630	600	**21,00**
700	700	**38,20**
800	800	**49,60**
900	900	**74,30**
1000	1000	**74,40**
1200	12000	**186,10**

Rigid fiber PN25

SET OF BOLTS FOR FLANGE

CODE 216KT

DN/OD mm	DN mm	PN	BOLTS n.	Type	Set of bolts for stub end
					€
50	40	16	4	M16X70	**13,70**
63	50	16	4	M16X70	**13,70**
75	65	16	4	M16X70	**13,70**
90	80	16	8	M16X80	**24,40**
110	100	16	8	M16X80	**24,40**
125	100	16	8	M16X90	**32,70**
140	125	16	8	M16X90	**32,70**
160/180	150	16	8	M20X100	**48,70**
200/225	200	10	8	M20X100	**48,70**
200/225	200	16	12	M20X110	**81,30**
250/280	250	10	12	M20X100	**112,10**
250/280	250	16	12	M24X120	**160,40**
315	300	10	12	M20X110	**112,10**
315	300	16	12	M24X120	**160,40**
355	350	10	16	M20X110	**154,40**
355	350	16	16	M24X130	•
400	400	10	16	M24X120	•
400	400	16	16	M27X140	•
500	500	10	20	M24X140	•
500	500	16	20	M30X160	•

Reduced thickness for flange connection
Stainless folder- valve on request / • on request

SEGMENTED FITTINGS

click here

DESCRIPTION

Segmented fittings in PE100 according to UNI EN 12201-3, are manufactured by using buttwelding machines and made in factory with appropriate welding machines in accordance with UNI 10565.
All the welding operations are carried out by staff, which is licensed in accordance with UNI 9737, and by following the quality control ISO 9001-2008.
Fields of application: Pipe and flat PE100 - for Water and Gas pipelines, Sewerages, Fire preventions, Irrigation, Industry.

ADVANTAGES

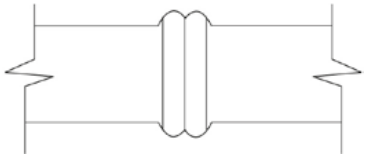
- PERMANENT AND 100% WATERTIGHT SEAL
- WIDE RANGE OF SIZE AND PERFORMANCE CHOICES
- HIGH ABRASION RESISTANCE
- PLASTIC BEHAVIOR IN UNSTABLE SITUATIONS
- SYSTEM HOMOGENEITY

CERTIFICATES

Standards / Certifications:
- UNI EN 12201-3

APPLICATIONS

BUTT-WELDING IN FACTORY



DN/OD mm	SDR33	SDR26 S12.5	SDR17 S8	SDR11 S5	SDR7,4
			€		
20	-	-	-	-	26,00
25	-	-	-	-	27,30
32	21,60	-	-	26,00	29,70
40	21,60	-	-	27,80	32,60
50	21,60	-	26,00	30,20	36,40
63	21,60	-	28,10	33,40	40,90
75	21,60	-	30,00	36,10	45,50
90	22,90	-	32,40	39,80	50,80
110	27,30	-	35,60	44,70	58,30
125	28,40	-	37,70	48,40	63,60
140	29,70	-	40,10	51,90	69,20
160	31,30	34,50	43,30	56,90	76,40
180	32,90	36,40	46,50	61,70	83,60
200	45,50	49,50	60,70	77,60	102,10
225	47,70	51,90	64,70	83,70	111,20
250	49,80	54,60	68,50	89,60	120,30
280	52,20	57,50	73,30	96,80	131,20
315	55,10	61,30	78,90	105,30	144,00
355	69,30	76,30	96,30	125,90	169,40
400	73,10	80,80	103,20	136,90	186,00
450	77,40	85,90	111,30	149,10	204,10
500	92,40	102,00	130,30	172,20	-
560	97,40	108,10	139,60	186,60	-
630	103,30	115,30	150,80	203,70	-
710	120,70	134,60	174,40	234,20	-
800	139,50	154,70	199,50	333,10	-
900	147,80	164,80	215,30	357,40	-
1000	155,80	175,00	231,30	382,00	-
1200	181,10	208,10	306,80	-	

Upon request we can create sectored bends with every type of angle up to 90°, cutting angles below 15°, according to atch. B in the EN 12201-3 standard.

SEGMENTED 30° BEND

CODE 101 PE 100

DN/OD mm	SDR33 PN5/SN2	SDR26 PN6	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€		
50	-	-	25,00	30,00	-
63	-	-	28,00	34,00	-
75	-	-	31,00	38,00	-
90	-	-	34,00	43,00	56,00
110	-	-	42,00	55,00	73,00
125	-	-	47,00	63,00	84,00
140	-	-	53,00	71,00	96,00
160	40,00	46,00	61,00	83,00	114,00
180	-	52,00	70,00	97,00	134,00
200	65,00	74,00	99,00	135,00	184,00
225	-	92,00	126,00	175,00	242,00
250	90,00	105,00	146,00	205,00	285,00
280	-	123,00	173,00	245,00	342,00
315	135,00	161,00	231,00	330,00	464,00
355	172,00	205,00	293,00	416,00	583,00
400	209,00	250,00	361,00	519,00	731,00
450	277,00	336,00	490,00	710,00	1.003,00
500	343,00	415,00	607,00	876,00	-
560	-	556,00	820,00	1.191,00	-
630	632,00	760,00	1.129,00	1.648,00	-
710	-	1.196,00	1.781,00	2.627,00	-
800	1.258,00	1.523,00	2.273,00	3.360,00	-
900	-	1.973,00	2.943,00	4.362,00	-
1000	2.007,00	2.440,00	3.666,00	5.435,00	-
1200	2.980,00	3.579,00	-	-	-

SEGMENTED 45° BEND

CODE 101 PE 100

DN/OD mm	SDR33 PN5/SN2	SDR26 PN6	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€		
50	-	-	39,00	48,00	-
63	-	-	45,00	56,00	-
75	-	-	49,00	62,00	-
90	-	-	56,00	72,00	96,00
110	-	-	68,00	91,00	124,00
125	-	-	76,00	104,00	142,00
140	-	-	86,00	119,00	165,00
160	64,00	74,00	101,00	141,00	196,00
180	-	84,00	117,00	165,00	231,00
200	96,00	112,00	153,00	213,00	296,00
225	-	138,00	195,00	275,00	385,00
250	135,00	159,00	225,00	320,00	451,00
280	-	186,00	266,00	381,00	540,00
315	203,00	244,00	353,00	510,00	725,00
355	254,00	305,00	442,00	636,00	900,00
400	320,00	386,00	564,00	819,00	1.164,00
450	413,00	503,00	741,00	1.081,00	1.537,00
500	521,00	636,00	939,00	1.367,00	-
560	-	828,00	1.230,00	1.798,00	-
630	917,00	1.107,00	1.653,00	2.422,00	-
710	-	1.747,00	2.612,00	3.867,00	-
800	1.830,00	2.221,00	3.328,00	4.934,00	-
900	-	2.898,00	4.338,00	6.444,00	-
1000	2.944,00	3.584,00	5.401,00	8.022,00	-
1200	4.364,00	5.250,00	-	-	-

SEGMENTED 60° BEND

CODE 101 PE 100

DN/OD mm	SDR33 PN5/SN2	SDR26 PN6	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€		
50	-	-	40,00	48,00	-
63	-	-	45,00	56,00	-
75	-	-	49,00	63,00	-
90	-	-	56,00	72,00	96,00
110	-	-	69,00	91,00	125,00
125	-	-	77,00	105,00	143,00
140	-	-	87,00	120,00	167,00
160	65,00	75,00	102,00	143,00	199,00
180	-	86,00	119,00	168,00	235,00
200	98,00	113,00	155,00	216,00	301,00
225	-	141,00	198,00	280,00	392,00
250	138,00	163,00	229,00	327,00	461,00
280	-	190,00	273,00	391,00	554,00
315	208,00	251,00	363,00	524,00	745,00
355	261,00	314,00	456,00	656,00	929,00
400	331,00	400,00	584,00	848,00	1.205,00
450	428,00	521,00	770,00	1.123,00	1.596,00
500	542,00	661,00	978,00	1.424,00	-
560	-	864,00	1.285,00	1.878,00	-
630	959,00	1.158,00	1.730,00	2.536,00	-
710	-	1.820,00	2.722,00	4.031,00	-
800	1.916,00	2.325,00	3.485,00	5.169,00	-
900	-	3.047,00	4.562,00	6.779,00	-
1000	3.110,00	3.788,00	5.709,00	8.481,00	-
1200	4.654,00	5.599,00	-	-	-

SEGMENTED 90° BEND

CODE 101 PE 100

DN/OD mm	SDR33 PN5/SN2	SDR26 PN6	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€		
50	-	-	54,00	66,00	-
63	-	-	61,00	77,00	-
75	-	-	68,00	87,00	-
90	-	-	77,00	102,00	137,00
110	-	-	95,00	128,00	176,00
125	-	-	106,00	146,00	202,00
140	-	-	122,00	169,00	237,00
160	90,00	105,00	144,00	202,00	284,00
180	-	120,00	168,00	238,00	335,00
200	130,00	152,00	211,00	298,00	418,00
225	-	190,00	270,00	385,00	542,00
250	185,00	220,00	313,00	450,00	638,00
280	-	258,00	373,00	538,00	765,00
315	282,00	340,00	495,00	719,00	1.026,00
355	350,00	423,00	619,00	896,00	1.274,00
400	452,00	549,00	807,00	1.178,00	1.680,00
450	579,00	707,00	1.049,00	1.536,00	2.189,00
500	741,00	907,00	1.349,00	1.972,00	-
560	-	1.171,00	1.749,00	2.564,00	-
630	1.286,00	1.556,00	2.331,00	3.424,00	-
710	-	2.444,00	3.664,00	5.435,00	-
800	2.573,00	3.127,00	4.698,00	6.978,00	-
900	-	4.121,00	6.181,00	9.195,00	-
1000	4.213,00	5.136,00	7.752,00	11.527,00	-
1200	6.328,00	7.620,00	-	-	-

SEGMENTED 90° TEE

CODE 102 PE 100

DN/OD mm	SDR33 PN5/SN2	SDR26 PN6	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€		
90	-	-	72,00	91,00	118,00
110	-	-	85,00	111,00	149,00
125	-	-	96,00	128,00	173,00
140	-	-	109,00	146,00	200,00
160	83,00	96,00	127,00	175,00	240,00
180	-	116,00	159,00	222,00	308,00
200	124,00	144,00	196,00	272,00	376,00
225	-	179,00	251,00	354,00	492,00
250	179,00	211,00	297,00	423,00	594,00
280	-	271,00	390,00	559,00	789,00
315	279,00	336,00	486,00	702,00	994,00
355	356,00	430,00	627,00	902,00	1.276,00
400	510,00	619,00	910,00	1.325,00	1.880,00
450	644,00	788,00	1.168,00	1.706,00	2.422,00
500	813,00	996,00	1.480,00	2.160,00	-
560	-	1.414,00	2.113,00	3.094,00	-
630	1.543,00	1.864,00	2.789,00	4.088,00	-
710	-	2.699,00	4.036,00	-	-
800	2.918,00	3.545,00	5.321,00	-	-
900	-	4.787,00	7.163,00	-	-
1000	5.035,00	6.132,00	9.241,00	-	-

TEE 90° REDUCED

click on the notch to access the section

CODE 102 PE 100

DN/OD mm	DN/OD deriv.	SDR26 PN6	SDR17 PN10	SDR11 PN16
			€	
160	90	189,00	212,00	245,00
180	90	195,00	222,00	259,00
200	90	207,00	238,00	283,00
225	90-110	220,00	260,00	315,00
250	90-125	231,00	276,00	338,00
280	90-140	251,00	305,00	379,00
315	90-140	276,00	343,00	435,00
355	90-160	313,00	401,00	521,00
400	90-200	451,00	604,00	821,00
450	160-225	567,00	759,00	1.031,00
500	160-250	659,00	898,00	1.229,00
560	160-280	881,00	1.231,00	1.721,00
630	160-315	1.174,00	1.631,00	2.269,00
710	160-355	1.841,00	2.548,00	-
800	160-400	2.204,00	3.097,00	-
900	160-450	2.738,00	3.852,00	-
1000	160-500	3.386,00	4.829,00	-

EXECUTION SEGMENTED CROSS

CODE 103 PE 100

DN/OD mm	SDR33 PN5/SN2	SDR26 PN6	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
			€		
90	-	-	-	-	-
110	-	-	113,00	149,00	202,00
125	-	-	126,00	171,00	234,00
140	-	-	143,00	195,00	270,00
160	107,00	124,00	167,00	232,00	321,00
180	-	150,00	208,00	293,00	409,00
200	157,00	182,00	252,00	352,00	491,00
225	-	227,00	322,00	456,00	640,00
250	225,00	267,00	379,00	542,00	765,00
280	-	341,00	494,00	712,00	1.009,00
315	348,00	421,00	611,00	885,00	1.258,00
355	-	-	777,00	1.124,00	-
400	-	-	1.131,00	1.651,00	-
450	-	-	1.438,00	2.105,00	-
500	-	-	1.804,00	2.639,00	-
560	-	-	2.578,00	3.781,00	-
630	-	-	3.373,00	4.952,00	-
710	-	-	-	-	-
800	-	-	-	-	-
900	-	-	-	-	-
1000	-	-	-	-	-

SEGMENTED 45° TEE

CODE 102 PE 100

DN/OD mm	SDR26 PN6	SDR17 PN10	SDR11 PN16
		€	
90	82,00	106,00	139,00
110	100,00	133,00	179,00
125	115,00	157,00	214,00
140	134,00	184,00	253,00
160	162,00	226,00	312,00
180	217,00	308,00	430,00
200	272,00	384,00	535,00
225	349,00	497,00	696,00
250	425,00	611,00	861,00
280	440,00	560,00	800,00
315	754,00	1.096,00	1.556,00
355	993,00	1.441,00	2.042,00
400	1.444,00	2.114,00	3.005,00
450	1.895,00	2.780,00	3.951,00

ELECTROFUSION FITTINGS

DESCRIPTION

Electrofusion fittings is the range of FUTURA. Electro fusion fittings. Electrofusion fittings are Polyehtylene fittings that have internally an electrical resistance. During the supply of electric power, supplied in a controlled manner by a welding machine, this resistance generates the necessary heat for the fusion between the Polyethyelene of the fitting and the pipe and, therefore, producing the weld. Electrofusion is a practical system, fast and secure as the energy is transmitted in a direct way and limited to the contact area of the fitting and the pipe. Electrofusion is surely the most popular system for the jointing of Polyethylene gas pipes.

ADVANTAGES

> COMPLETE SYSTEM
> RELIABILITY AND LIFETIME
> IDEAL FOR WATER AND GAS PIPELINES

MATERIAL

PE 100 RC
resistant to crack

CERTIFICATES

Standards / Certifications:
UNI EN 12201-3 / UNI EN 1555-3 / UNI EN ISO 15494

Additional certifications:

FM Approvals

APPLICATIONS

ELECTROFUSION REDUCER PE100

CODE 205 PE 100

DN/OD mm	D1	PN16
		€
25	20	10,80
32	20	12,80
32	25	12,80
40	20	14,20
40	25	14,20
40	32	14,20
50	25	15,20
50	32	15,20
50	40	15,20
63	25	16,40
63	32	16,40
63	40	16,40
63	50	16,40
75	50	23,50
75	63	23,50
90	50	25,30
90	63	25,30
90	75	25,30
110	63	34,10
110	75	34,10
110	90	34,10
125	63	55,60
125	90	55,60
125	110	55,60
140	90	66,20
160	90	73,00
160	110	73,00
160	125	73,00
180	90	106,00
180	125	106,00
180	140	106,00
180	160	106,00
200	160	155,60
200	180	155,60
225	160	209,30
250	180	350,00
315	200	612,70
315	250	612,70

ELECTROFUSION COUPLER PE100

CODE 209 PE 100

DN/OD mm	SDR26 discharge	SDR17 PN10	SDR11 PN16	SDR7,4 PN25
		€		
20	-	-	4,90	-
25	-	-	5,20	-
32	-	-	5,30	7,70
40	-	-	5,70	8,00
50	-	-	8,00	12,30
63	-	-	8,40	17,40
75	-	-	13,40	25,70
90	-	13,00	14,40	29,40
110	18,00	17,00	17,80	37,70
125	26,00	23,00	25,10	52,10
140	32,00	29,00	31,20	69,10
160	32,00	34,00	35,00	83,80
180	45,00	46,00	48,40	96,40
200	51,00	49,00	60,40	133,20
225	63,00	65,00	72,80	192,70
250	109,00	98,00	112,40	252,10
280	130,00	130,00	160,60	338,50
315	149,00	155,00	183,90	501,80
355	218,00	244,00	311,20	1.050,40
400	251,00	302,00	412,50	1.575,40
450	339,00	572,00	694,40	1.824,00
500	421,00	677,00	931,30	3.120,00
560	584,00	794,00	1.272,00	-
630	700,00	1.086,00	2.322,40	-
710	1.824,00	3.245,00	3.967,80	-
800	2.553,00	4.575,00	5.134,80	-
900	3.951,00	5.252,00	10.269,50	-
1000	4.741,00	6.769,00	12.000,00	-
1200	•	•	•	•

• on request
other sizes available on demand
PN16 welding on SDR 17 - 11 - 7,4 pipes

Product price certified FM Approvals

ELECTROFUSION 45° - 90° ELBOW

CODE 201 PE 100

DN/OD mm	45° PN16	90° PN16
	€	
20	23,50	17,20
25	23,50	17,20
32	17,20	17,20
40	18,70	18,70
50	22,90	22,90
63	24,00	24,00
75	34,10	34,10
90	35,50	35,50
110	48,30	48,30
125	68,20	68,20
140	107,20	107,20
160	118,70	118,70
180	159,60	159,60
200	233,50	233,50
225	289,90	289,90
250	476,60	505,80
315	719,70	758,70

ELECTRIC CAP

CODE 204 PE100

DN/OD mm	PN16
	€
20	14,20
25	14,20
32	14,20
40	15,80
50	19,90
63	21,90
75	30,20
90	34,20
110	46,70
125	59,00
140	82,90
160	89,30
180	115,00
200	163,40
225	199,70
250	260,40
280	363,10
315	501,80

ELECTROFUSION 90° TEE PE100

CODE 202 PE 100

DN/OD mm	PN 16
	€
20	16,20
25	16,20
32	16,40
40	19,60
50	22,90
63	24,90
75	38,10
90	42,00
110	58,00
125	80,80
140	135,40
160	141,20
180	209,30
200	301,60
225	379,40
250	627,40
315	943,50

ELECTRICAL TRANSITION FITTINGS

See p. 68

ELECTROFUSION BRANCH SADDLE

CODE 210 PE 100

DN/OD mm	D1	PN 16
		€
40	20...40	**28,00**
50	20...40	**28,00**
63	20...63	**29,00**
75	20...63	**30,00**
90	20...63	**30,70**
90	90	**95,40**
110	20...63	**32,50**
110	75..90	**102,30**
125	20...63	**34,30**
125	75...90	**107,20**
140	20...63	**38,10**
140	75...90	**112,00**
160	20...63	**38,10**
160	75..90	**116,80**
180	20...63	**45,30**
180	75..90	**121,60**
200	20...63	**45,90**
200	75..90	**131,50**
225	20...50	**48,40**
225	63	**72,00**
225	75..90	**136,20**
250	20...50	**72,50**
280	20...50	**83,50**
315	20...50	**94,50**
315-450	63	**109,00**
315-450	75..90	**233,50**
500-900	63	**534,80**
500-900	75..90	**1.069,80**

TAPPING TEE SADDLE

CODE 211 PE 100

DN/OD mm	D1	PN16
		€
40	20...32	**40,00**
50	20...32	**40,40**
63	20...32	**41,30**
63	40...63	**74,40**
75	20...32	**42,90**
75	40...63	**76,00**
90	20...32	**44,30**
90	40...63	**77,00**
110	20...32	**46,40**
110	40...63	**80,80**
125	20...32	**46,80**
125	40...63	**83,70**
140	20...32	**53,60**
140	40...63	**84,70**
160	20...32	**54,00**
160	40...63	**85,70**
180	20...32	**60,40**
180	40...63	**97,40**
200	20...32	**60,90**
200	40...63	**99,20**
225	20...32	**79,00**
225	40...63	**107,20**
250	20...32	**104,20**
250	40...63	**138,10**
280	20...32	**120,70**
280	40...63	**163,50**
315	20...32	**148,00**
315	40...63	**183,90**

click on the notch to access the section

PE100 ELECTRIC CLAMP PN16 SIMPLE GRIP BIG VOLUME

CODE 210 PE 100

DN/OD mm	D1	PN16
		€
125	110	**107,20**
160	110...125	**116,80**
180	110...125	**121,60**
200/225	110...125	**155,60**
250/280	110...125	**194,60**
315/400	110...125	**311,20**
315/400	160	**330,70**
315/400	200	**940,80**
315/400	225	**999,60**
450/500	110...125	**622,50**
450/500	160	**642,00**
450/500	200	**1.066,80**
450/500	225	**1.125,60**
450/500	250	**1.150,80**
560/630	110...125	**855,80**
560/630	160	**875,30**
560/630	200	**1.218,00**
560/630	225	**1.276,80**
560/630	250	**1.302,00**
560/630	315	**1.612,80**
710/800	110...125	**1.507,40**
710/800	160	**1.799,20**
710/800	200	**1.663,20**
710/800	225	**1.722,00**
710/800	250	**1.747,20**
710/800	315	**2.058,00**
900/1000	110...125	**1.604,70**
900/1000	160	**1.896,40**
900/1000	200	**1.747,20**
900/1000	225	**1.806,00**
900/1000	250	**1.831,20**
900/1000	315	**2.167,20**
1200	200	**2.268,00**
1200	225	**2.326,80**
1200	250	**2.352,00**
1200	315	**2.688,00**

TAPPING TEE SADDLE WITH VALVE

CODE 212 PE 100

DN/OD mm	D1	PN16
		€
63	20...32	**303,50**
75	20...32	**309,30**
90	20...32	**315,10**
90	40...63	**331,20**
110	20...32	**326,80**
110	40...63	**343,70**
125	20...32	**338,50**
125	40...63	**355,20**
140	20...32	**351,40**
140	40...63	**369,60**
160	20...32	**362,00**
160	40...63	**379,20**
180	20...32	**373,50**
180	40...63	**392,70**
200	20...32	**379,30**
200	40...63	**398,40**
225	20...32	**391,20**
225	40...63	**412,80**
250	20...32	**402,80**
250	40...63	**422,40**
280	20...32	**443,70**
280	40...63	**466,60**
315	20...32	**467,00**
315	40...63	**489,60**

CONTROL SHAFT FOR TAPPING TEE SADDLE WITH VALVE

CODE X12

Type	Ø x Ø	€
Telescopic	0,60 -1,2	•
Telescopic	0,80 -1,6	•
Rigid	2 max	•

• On request / PN16 welding on SDR 17 - 11 - 7,4 pipes

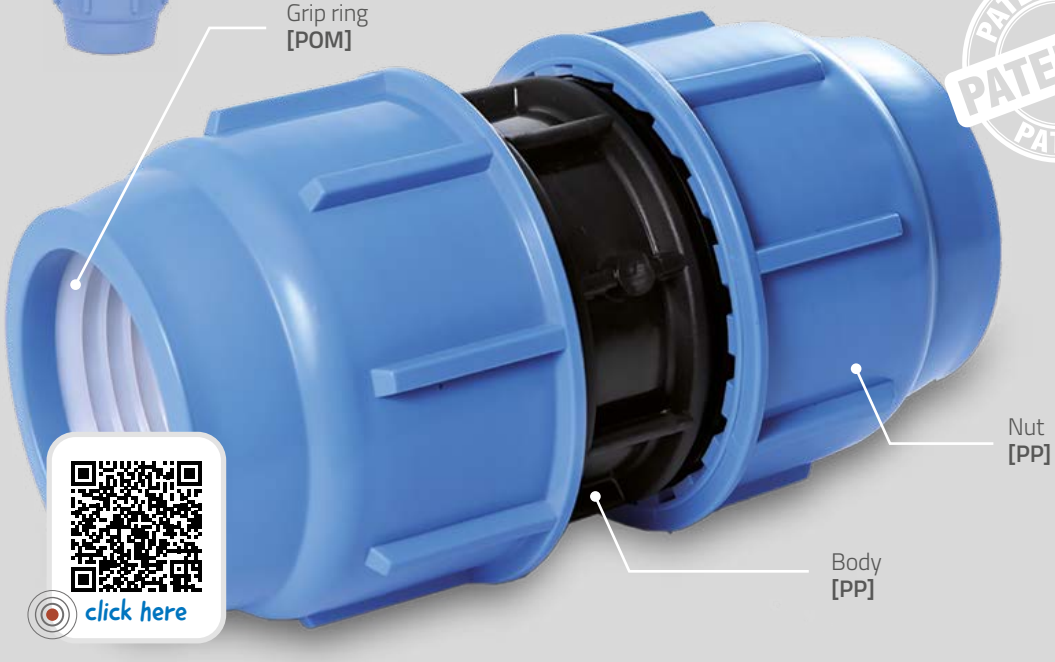
Product price certified FM Approvals

COMPRESSION FITTINGS

MADE OF PP FOR CONNECTING PE PIPES

Blueseal
Spacer ring
[PP]

Gasket
[NBR 70sh A]



DESCRIPTION

Main characteristics: they have a body in black polypropylene, a blue polypropylene ring nut, an unthreaded ring in white poly acetal, reinforcing rings in inox steel "AISI340", gaskets in rubber nitrile 75 shore (NBR).
The nominal pressure PN 16 is for all the fittings until the DE63 mm, the PN 10 is for all the camps saddle and for all the fittings from DE75 mm. All the fittings are in accordance to the Ministry of Health circular number 102 made on 02/10/1978 ISO 9001. For this reason our fittings are appropriate also for the foodstuff fluid conveyance.
On demand all the spare parts are available. **Fields of application:** water pipelines, Irrigation and Industry.

ADVANTAGES

> EASY PIPE INSERTION
> HIGHER WATER TIGHTNESS
> QUICK ASSEMBLY

CERTIFICATES

Standards / Certifications:
- UNI9561
- AS/NZS4129
- BRL-K 17105
- DIN8076
- ISO17885
- UNI EN 10226-1 (ISO 7/1)

APPLICATIONS

90° REDUCING TEE

CODE 404RI

PN	Ø x Ø	PACK	€
16	20X16	80 B - 20 P	**6,04**
16	25X20	60 B - 10 P	**6,10**
16	32X25	40 B - 10 P	**6,76**
16	40X32	21 B	**13,30**
16	50X32	14 B	**17,94**
16	50X40	14 B	**17,94**
16	63X25	8 B	**23,71**
16	63X32	8 B	**23,71**
16	63X50	8 B	**23,71**
16	75X63	4 B	**44,31**
10	90X75	5 A	**70,45**
10	110X63	4 A	**125,40**
10	110X90	4 A	**125,40**

90° TEE

CODE 404NR

PN	Ø x Ø	PACK	€
16	16	150 B - 30 P	**4,87**
16	20	80 B - 20 P	**4,69**
16	25	60 B - 10 P	**6,19**
16	32	30 B - 10 P	**8,06**
16	40	14 B	**13,30**
16	50	8 B	**17,94**
16	63	4 B	**25,54**
10	75	5 A	**44,31**
10	90	4 A	**61,86**
10	110	4 A	**118,56**

90° MALE TEE

CODE 404FM

PN	Ø x Ø	PACK	€
16	16x1/2"	210 B - 30 P	**3,88**
16	16x3/4"	180 B - 30 P	**3,88**
16	20x1/2"	100 B - 20 P	**3,97**
16	20x3/4"	100 B - 20 P	**3,97**
16	25x1/2"	80 B - 10 P	**5,17**
16	25x3/4"	80 B - 10 P	**5,17**
16	25x1"	70 B - 10 P	**5,17**
16	32x1/2"	50 B - 10 P	**6,48**
16	32x3/4"	50 B - 10 P	**6,48**
16	32x1"	50 B - 10 P	**6,48**
16	32x1"1/4	40 B - 10 P	**6,95**
16	40x1"	28 B	**11,32**
16	40x1"1/4	28 B	**11,32**
16	40x1"1/2	25 B	**12,31**
16	50x1"1/4	18 B	**16,11**
16	50x1"1/2	18 B	**16,11**
16	50x2"	15 B	**17,33**
16	63x1"1/2	10 B	**31,16**
16	63x2"	10 B	**31,16**
16	63x2"1/2	10 B	**31,16**
10	75x2"1/2	6 B	**46,74**
10	75x3"	4 B	**46,74**
10	90x3"	7 A	**68,17**
10	110x4"	5 A	**111,72**

90° FEMALE TEE

CODE 404FF

PN	Ø x Ø	PACK	€
16	16x1/2"	180 B - 30 P	**3,96**
16	16x3/4"	180 B - 30 P	**3,96**
16	20x1/2"	100 B - 20 P	**4,08**
16	20x3/4"	100 B - 20 P	**4,08**
16	25x1/2"	80 B - 10 P	**5,25**
16	25x3/4"	80 B - 10P	**5,25**
16	25x1"	80 B - 10 P	**5,82**
16	32x1/2"	50 B - 10 P	**6,57**
16	32x3/4"	50 B - 10 P	**6,57**
16	32x1"	50 B - 10 P	**6,57**
16	32x1"1/4	50 B - 10 P	**8,28**
16	40x1"	28 B	**12,54**
16	40x1"1/4	28 B	**12,54**
16	40x1"1/2	25 B	**13,53**
16	50x1"1/4	18 B	**16,72**
16	50x1"1/2	18 B	**16,72**
16	50x2"	15 B	**18,70**
16	63x1"1/2	10 B	**23,86**
16	63x2"	10 B	**23,86**
10	63x2"1/2	10 B	**30,48**
10	75x2"	6 B	**41,27**
10	75x2"1/2	6 B	**41,27**
10	75x3"	4 B	**41,27**
10	90x2"1/2	3 B	**64,07**
10	90x3"	3 B	**64,07**
10	110x3"	6 A	**96,52**
10	110x4"	6 A	**96,52**

From the batch DN16 DN32 minimum or multiple PACK

THREADED MALE ADAPTOR

CODE 403FM

PN	Ø x Ø	PACK	€
16	16x1/2"	450 B - 30 P	**1,82**
16	16x3/4"	360 B - 30 P	**1,82**
16	20x1/2"	280 B - 20 P	**2,07**
16	20x3/4"	280 B - 20 P	**2,07**
16	20x1"	280 B - 20 P	**2,07**
16	25x1/2"	200 B - 10 P	**2,39**
16	25x3/4"	200 B - 10 P	**2,39**
16	25x1"	200 B - 10 P	**2,39**
16	32x1/2"	100 B - 10 P	**3,06**
16	32x3/4"	120 B - 10 P	**3,06**
16	32x1"	120 B - 10 P	**3,06**
16	32x1"1/4	100 B - 10 P	**3,35**
16	32x1"1/2	100 B - 10 P	**3,71**
16	40x1"	60 B	**5,63**
16	40x1"1/4	60 B	**5,63**
16	40x1"1/2	55 B	**5,63**
16	40x2"	50 B	**5,82**
16	50X1"	35 B	**7,32**
16	50x1"1/4	35 B	**7,32**
16	50x1"1/2	35 B	**7,32**
16	50x2"	35 B	**7,32**
16	63x1"1/4	24 B	**10,49**
16	63x1"1/2	24 B	**10,49**
16	63x2"	24 B	**10,49**
16	63x2"1/2	20 B	**10,49**
16	75x2"	15 B	**20,75**
16	75x2"1/2	15 B	**20,75**
16	75x3"	12 B	**20,75**
16	90x2"	8 B	**24,47**
16	90x2"1/2	8 B	**24,47**
16	90x3"	8 B	**24,47**
16	90x4"	8 B	**29,41**
16	110x2"	6 B	**48,41**
16	110x3"	6 B	**48,41**
16	110x4"	6 B	**48,41**

THREADED FEMALE ADAPTOR

CODE 403FF

PN	Ø x Ø	PACK	€
16	16x1/2"	360 B - 30 P	**2,13**
16	16x3/4"	360 B - 30 P	**2,13**
16	20x1/2"	280 B - 20 P	**2,48**
16	20x3/4"	240 B - 20 P	**2,48**
16	25x1/2"	200 B - 10 P	**2,75**
16	25x3/4"	200 B - 10 P	**2,75**
16	25x1"	180 B - 10 P	**2,75**
16	32x1/2"	100 B - 10 P	**3,35**
16	32x3/4"	120 B - 10 P	**3,35**
16	32x1"	120 B - 10 P	**3,35**
16	32x1"1/4	100 B - 10 P	**4,65**
16	40x1"	60 B	**5,73**
16	40x1"1/4	60 B	**5,73**
16	40x1"1/2	50 B	**5,73**
16	50x1"1/4	35 B	**8,13**
16	50x1"1/2	35 B	**8,13**
16	50x2"	35 B	**8,13**
16	63x1"1/2	24 B	**11,55**
16	63x2"	24 B	**11,55**
16	63x2"1/2	20 B	**11,55**
10	75x2"	15 B	**22,88**
10	75x2"1/2	15 B	**22,88**
10	75x3"	12 B	**22,88**
10	90x2"	8 B	**27,97**
10	90x2"1/2	8 B	**27,97**
10	90x3"	8 B	**27,97**
10	90x4"	8 B	**27,97**
10	110x2"	6 B	**66,42**
10	110x3"	6 B	**66,42**
10	110x4"	6 B	**66,42**

FLANGED ADAPTOR

CODE 403FL

PN	Ø x Ø	PACK	€
16	40xDN 40	24 B	**64,20**
16	50xDN 40	20 B	**67,80**
16	50xDN 50	15 B	**82,40**
16	63xDN 50	15 B	**86,60**
16	75xDN 65	8 B	**125,40**
16	75xDN 80	8 B	**140,20**
16	90xDN 80	8B	**154,80**
16	90xDN 100	5 B	**173,60**
16	110xDN 100	3 B	**194,80**

90° ELBOW

CODE 405NR

PN	Ø x Ø	PACK	€
16	16	240 B - 30 P	**2,95**
16	20	120 B - 20 P	**3,65**
16	25	100 B - 10 P	**4,42**
16	32	60 B - 10 P	**5,54**
16	40	30 B	**9,50**
16	50	20 B	**13,30**
16	63	12 B	**16,19**
16	75	6 B	**31,16**
16	90	3 B	**38,68**
16	110	6 A	**79,80**

From the batch DN16 DN32 minimum or multiple PACK

COUPLING

CODE 402NR

PN	Ø x Ø	PACK	€
16	16	300 B - 30 P	**2,74**
16	20	160 B - 20 P	**3,65**
16	25	100 B - 10 P	**4,35**
16	32	60 B - 10 P	**5,63**
16	40	40 B	**9,04**
16	50	25 B	**12,31**
16	63	15 B	**16,95**
16	75	8 B	**32,07**
16	90	5 B	**39,67**
16	110	3 B	**85,12**

REPAIR COUPLING WITHOUT CENTER LIP

CODE XS106

PN	Ø x Ø	PACK	€
16	20	160 B - 20 P	**4,44**
16	25	100 B - 10 P	**5,17**
16	32	60 B - 10 P	**6,76**
16	40	40 B	**10,72**
16	50	25 B	**14,82**
16	63	15 B	**19,46**
16	75	8 B	**37,39**
16	90	5 B	**47,42**
16	110	3 B	**97,28**

REDUCING COUPLING

CODE 402R

PN	Ø x Ø	PACK	€
16	20x16	180 B - 20 P	**3,76**
16	25x16	120 B - 10 P	**3,95**
16	25x20	120 B - 10 P	**3,87**
16	32x20	80 B - 10 P	**5,17**
16	32x25	80 B - 10 P	**5,17**
16	40x25	45 B	**8,74**
16	40x32	40 B	**8,74**
16	50X25	30 B	**11,25**
16	50x32	30 B	**11,25**
16	50x40	30 B	**11,25**
16	63X25	20 B	**16,11**
16	63x32	20 B	**16,11**
16	63x40	15 B	**16,11**
16	63x50	15 B	**16,11**
16	75x50	12 B	**26,98**
16	75x63	8 B	**29,26**
16	90x63	6 B	**38,68**
16	90x75	6 B	**38,68**
16	110x63	4 B	**81,32**
16	110x75	4 B	**81,32**
16	110x90	3 B	**81,32**

PLUG

CODE 406

PN	Ø x Ø	PACK	€
16	16	450 B - 30 P	**1,99**
16	20	280 B - 20 P	**2,58**
16	25	200 B - 10 P	**2,78**
16	32	120 B - 10 P	**3,35**
16	40	60 B	**5,63**
16	50	40 B	**8,28**
16	63	24 B	**11,17**
16	75	15 B	**26,37**
16	90	9 B	**30,17**
16	110	6 B	**65,13**

From the batch DN16 DN32 minimum or multiple PACK

90° THREADED MALE ELBOW

CODE 405FM

PN	Ø x Ø	PACK	€
16	16x1/2"	360 B - 30 P	**2,44**
16	16x3/4"	360 B - 30 P	**2,44**
16	20x1/2"	200 B - 20 P	**2,36**
16	20x3/4"	200 B - 20 P	**2,36**
16	25x1/2"	150 B - 10 P	**2,89**
16	25x3/4"	150 B - 10 P	**2,89**
16	25x1"	130 B - 10 P	**2,89**
16	32x1/2"	90 B - 10 P	**3,71**
16	32x3/4"	90 B - 10 P	**3,71**
16	32x1"	90 B - 10 P	**3,71**
16	32x1" 1/4"	80 B - 10 P	**3,95**
16	40x1"	45 B	**5,92**
16	40x1"1/4	45 B	**5,92**
16	40x1"1/2"	40 B	**5,92**
16	50x1"1/4"	30 B	**8,13**
16	50x1"1/2	30 B	**8,13**
16	50x2"	25 B	**8,13**
16	63x1"1/2"	17 B	**11,32**
16	63x2"	17 B	**11,32**
16	63x2"1/2	15 B	**11,32**
16	75x2"1/2	10 B	**24,02**
16	75x3"	10 B	**24,02**
16	90x3"	5 B	**30,10**
16	90x4"	5 B	**30,10**
16	110x4"	3 B	**58,44**

90° THREADED FEMALE ELBOW

CODE 405FF

PN	Ø x Ø	PACK	€
16	16x1/2"	300 B- 30 P	**2,48**
16	16x3/4"	300 B- 30 P	**2,48**
16	20x1/2"	200 B- 20 P	**2,78**
16	20x3/4"	200 B- 20 P	**2,78**
16	25x1/2"	150 B- 10 P	**3,35**
16	25x3/4"	150 B- 10 P	**3,35**
16	25x1"	130 B- 10 P	**3,35**
16	32x1/2"	90 B- 10 P	**4,06**
16	32x3/4"	90 B- 10 P	**4,06**
16	32x1"	90 B- 10 P	**4,06**
16	32x1"1/4"	80 B- 10 P	**5,73**
16	40x1"	45 B	**8,66**
16	40x1"1/4	45 B	**8,66**
16	40x1"1/2	40 B	**8,66**
16	50x1"1/4	30 B	**11,48**
16	50x1"1/2	30 B	**11,48**
16	50x2"	25 B	**11,48**
16	63x1"1/2	17 B	**15,58**
16	63x2"	17 B	**15,58**
16	63x2"1/2"	15 B	**15,58**
16	75x2"1/2	10 B	**26,90**
16	75x3"	10 B	**26,90**
16	90x3"	5 B	**49,93**
16	90x4	4 B	**49,93**
16	110x4"	3 B	**77,52**

SHOULDERED ADAPTOR

CODE XS134

PN	Ø x Ø	PACK	€
16	50x2"	35 B	**7,60**
16	63x2"	20 B	**10,64**
16	110x4	6 B	**59,20**

WALL PLATE ELBOW

CODE XS127

PN	Ø x Ø	PACK	€
16	20x1/2"	200 B - 20 P	**5,44**
16	25x1/2"	100 B - 10 P	**6,67**
16	25x3/4"	100 B - 10 P	**6,67**
16	32x1"	100 B - 10 P	**10,03**

ALUMINUM WRENCH FOR FITTINGS

CODE X919

Ø		€
16...40	PA	**30,40**
40...63	AL	**53,81**
75...110	AL	**76,00**

From the batch DN16 DN32 minimum or multiple PACK

CLAMP SADDLES

Galvanized bolts

TECHNICAL FEATURES

- Clamp Saddle
- Material: grey copolymer PP
- Stainless steel reinforced
- Galvanized bolts
- Flat gasket NBR 70sh
- Bolt grip system
- Gasket grip system
- Anti-rotation system
- Reference standards: ISO13460, AS/NZS4129 etc. Threads UNI EN 10226-1 (ISO7/1)
- Applications: irrigation systems, golf course construction, fire fighting equipment

CODE 401S1R

PN	Ø (mm) x G	€
16	25 x 1/2"	**2,64**
16	25 x 3/4"	**2,64**
16	32 x 1/2"	**2,86**
16	32 x 3/4"	**2,86**
16	32 x 1"	**3,16**
16	40 x 1/2"	**3,50**
16	40 x 3/4"	**3,50**
16	40 x 1"	**3,50**
16	50 x 1/2"	**4,47**
16	50 x 3/4"	**4,47**
16	50 x 1"	**4,47**
16	63 x 1/2"	**5,09**
16	63 x 3/4"	**5,09**
16	63 x 1"	**5,09**
16	63 x 1"1/4	**5,09**
16	63 x 1"1/2	**6,97**
16	75 x 1/2"	**6,08**
16	75 x 3/4"	**6,08**
16	75 x 1"	**6,08**
16	75 x 1"1/4	**6,08**
16	75 x 1"1/2	**8,82**
16	75 x 2"	**8,82**
16	90 x 1/2"	**8,06**
16	90 x 3/4"	**8,06**
16	90 x 1"	**8,06**
16	90 x 1"1/4	**8,06**
16	90 x 1"1/2	**9,12**
16	90 x 2"	**9,12**
16	110 x 1/2"	**11,48**
16	110 x 3/4"	**11,48**
16	110 x 1"	**11,48**
16	110 x 1"1/4	**11,48**
16	110 x 1"1/2	**11,86**
16	110 x 2"	**11,86**
10	110 x 3"	**22,34**
16	125 x 3/4"	**17,86**
16	125 x 1"	**17,86**
16	125 x 1"1/4	**17,86**
16	125 x 1"1/2	**19,23**
16	125 x 2"	**19,23**
10	125 x 3"	**24,17**
16	140 x 3/4"	**19,68**
16	140 x 1"	**19,68**
16	140 x 1"1/4	**19,68**
16	140 x 1"1/2	**22,80**
16	140 x 2"	**22,80**
10	140 x 3"	**25,00**
16	160 x 1/2"	**20,52**
16	160 x 3/4"	**20,52**
16	160 x 1"	**20,52**
16	160 x 1"1/4	**20,52**
16	160 x 1"1/2	**23,71**
16	160 x 2"	**23,71**
10	160 x 3"	**30,86**
10	180 x 1"	**34,35**
10	180 x 2"	**34,35**
8	180 x 3"	**40,58**
10	200 x 1"	**38,99**
10	200 x 1"1/2	**38,99**
10	200 x 2"	**38,99**
8	200 x 3"	**45,68**
8	200 x 4"	**45,68**
10	225 x 1"1/2	**55,18**
10	225 x 2"	**55,18**
8	225 x 3"	**62,55**
8	225 x 4"	**62,55**
10	250 x 1"1/2	**59,89**
10	250 x 2"	**59,89**
8	250 x 3"	**66,50**
8	250 x 4"	**66,50**
10	280 x 1"1/2	**85,12**
10	280 x 2"	**85,12**
10	315 x 1"1/2	**88,16**
10	315 x 2"	**88,16**
8	315 x 3"	**93,48**
8	315 x 4"	**93,48**

Plug&Play® FITTINGS

DESCRIPTION

A new COUPLER for PE pipes up to SDR11 PN16 with a double lip seal and specially designed grip ring. Simple, quick, reliable, with Plug&Play® you avoid welding, no need for glues, no wrench tightening. Plug&Play® is ideal for repairs and city work sites or impervious areas.

CHECK OUT THE VIDEOS ON YouTube

ADVANTAGES

> SIMPLE, QUICK, RELIABLE
> NO WELDING, NO TIGHTENING
> NOW AVAILABLE UP TO Ø 250MM

CERTIFICATES

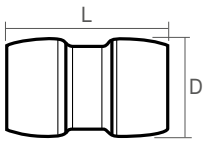
Standards / Certifications:
- UNI9561
- AS/NZS4129
- BRL-K 17105
- DIN8076 - ISO17885

It is suitable for contact with potable water.

APPLICATIONS

COUPLER

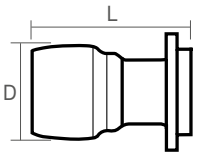
CODE 220LL



	Ø	€
PN 16	DE 63	**29,40**
	DE 75	**37,30**
	DE 90	**63,30**
	DE 110	**73,30**
	DE 125	**89,00**
	DE 140	**100,40**
	DE 160	**152,00**
	DE 180	**194,60**
	DE 200	**592,00**
	DE 225	**640,00**
	DE 250	**712,00**
PN 10	DE 200	**292,60**
	DE 225	**313,90**
	DE 250	**397,50**

FLANGED JOINT

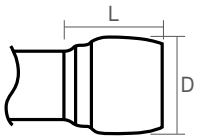
CODE 120LT2A



	Ø	€
PN 16	DE 90	**145,10**
	DE 110	**165,80**
	DE 125	**182,80**
	DE 140	**222,40**
	DE 160	**263,00**
	DE 180	**341,90**
	DE 200	**417,50**
	DE 225	**462,00**
	DE 250	**555,70**
PN 10	DE 200	**462,80**
	DE 225	**485,00**
	DE 250	**611,80**

WELDED SOCKET

CODE 219LT



	Ø	€
PN 16	DE 90	**109,90**
	DE 110	**122,80**
	DE 125	**139,10**
	DE 140	**165,90**
	DE 160	**192,90**
	DE 180	**253,40**
	DE 200	**300,00**
	DE 225	**340,00**
	DE 250	**376,00**
PN 10	DE 200	**348,60**
	DE 225	**366,80**
	DE 250	**438,20**

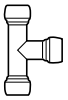
INSERTER DEVICE

Ø min	Ø max	€
90	180	**1.680,00**
160	250	**1.600,00**

UPON REQUEST

CODE 0171
90° elbow

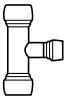
CODE 0185
End cap



CODE 0181
Tee

CODE 0176
45° elbow

CODE 0196
Reduced



CODE 0191
Reduced Tee

INSTALLATION

Chamfer and clean the PE pipe ends, lubricate the seals with liquid soap, never lubricate pipe ends.
Insert pipes into fitting by using the inserting device, taking care that the ends meet the pipe stopper.

PVC FITTINGS FOR PRESSURE SYSTEMS

DESCRIPTION

Injection moulded fittings made of PVC-U for the distribution of fluids in pressurized systems comply with the UNI EN ISO 1452 standard.
Every single fitting is manufactured according to the certified Quality Management ISO 9001.
Applications: aqueducts, sewerage, fire-fighting, irrigation and industry (grey colour RAL 7011).

ADVANTAGES

> O-RING SYSTEM
> COMPLETE RANGE OF PRODUCTS

CERTIFICATES

Standards / Certifications:
- UNI EN 1452

APPLICATIONS

RIGID PVC FITTINGS FOR PRESSURISED CONDUITS

UNI EN ISO 1452 standard

SLIDING COUPLING

Ø mm	PN 10	PN 16
	€	
50	31,54	37,06
63	38,08	39,02
75	43,60	44,34
90	48,02	50,32
110	50,88	81,22
125	67,74	88,66
140	99,86	107,82
160	102,14	138,86
180	128,02	155,22
200	149,86	184,46
225	191,46	258,42
250	252,48	319,76
280	323,36	•
315	462,20	-
355	877,06	-
400	1.054,78	•
500	3.322,90	-
630	5.771,00	-

LONG SLIDING COUPLING

Ø mm	PN 10	PN 16
	€	
50	-	-
63	43,50	53,74
75	48,62	58,96
90	59,76	71,86
110	73,62	99,12
125	88,60	106,46
140	129,78	169,88
160	144,18	244,72
180	197,74	266,96
200	239,62	287,42
225	333,42	401,14
250	483,80	589,34
280	572,70	711,84
315	720,48	830,42
355	-	-
400	-	-

SINGLE JOINT

Ø mm	PN 10	PN 16
	€	
50	-	-
63	25,10	26,90
75	35,80	36,60
90	35,80	41,20
110	41,20	47,10
125	62,60	58,60
140	69,80	64,70
160	84,10	86,20
180	110,90	114,00
200	130,50	142,50
225	160,90	162,00
250	196,80	202,60
280	284,20	364,60
315	447,00	-
355	-	-
400	-	-

45° M/F BEND

Ø mm	PN 10	PN 16
	€	
50	-	-
63	65,04	90,86
75	68,30	112,44
90	75,14	125,86
110	84,98	130,46
125	102,22	148,04
140	128,70	185,88
160	175,42	235,12
180	363,54	-
200	423,50	•
225	548,66	•
250	779,56	•
280	-	-
315	1.180,22	•
355	-	-
400	2.205,08	•

90° M/F BEND

Ø mm	PN 10	PN 16
	€	
50	-	-
63	65,80	99,94
75	69,38	123,68
90	82,80	138,44
110	93,28	150,04
125	121,48	171,22
140	169,58	242,94
160	209,36	293,50
180	435,98	-
200	505,58	•
225	683,28	•
250	791,12	•
280	1.552,88	-
315	2.021,70	•
355	-	-
400	-	•

90° TEE

Ø mm	PN 10	PN 16
	€	
50	-	-
63	77,46	-
75	119,00	-
90	160,56	-
110	267,76	-
125	357,06	-
140	505,74	-
160	654,56	-
180	959,12*	-
200	997,20	-
225	1.755,48*	-
250	2.441,72*	-
280	3.868,16*	-
315	4.909,00*	-
355	-	-
400	-	-

• on request

RIGID PVC FITTINGS FOR PRESSURISED CONDUITS

UNI EN ISO 1452 standard

SINGLE FLANGED JOINT

Ø mm	PN 10	PN 16
	€	
50	-	-
63	**99,02**	**131,68**
75	**132,52**	**176,26**
90	**153,06**	**203,56**
110	**190,62**	**253,52**
125	**212,40**	**282,50**
140	**233,36**	**310,36**
160	**265,48**	**353,08**
180	**432,08**	-
200	**446,32**	**463,50**
225	**617,56**	-
250	**896,50**	-
280	**1.174,04**	-
315	**1.357,26***	-
355	-	-
400	-	-

FLANGED MALE ADAPTER

Ø mm	PN 10	PN 16
	€	
50	-	-
63	**80,44**	**106,98**
75	**85,18**	**113,30**
90	**106,98**	**142,28**
110	**133,64**	**177,74**
125	**160,32**	**213,22**
140	**192,44**	**255,94**
160	**195,10**	**259,48**
180	**522,44**	-
200	**373,56**	**386,30**
225	**442,42**	-
250	**629,68**	-
280	**1.225,70**	-
315	**979,08**	-
355	-	-
400	-	-

REDUCED COUPLING F/F

Ø mm	PN 10	PN 16
	€	
75X63	**68,00**	**106,80**
90X75	**89,40**	**130,80**
110X90	**123,00**	**162,00**
125X110	**163,00**	**216,00**
140X125	**158,50**	**254,40**
160X140	**206,00**	**300,00**
180X160	**305,30**	**396,00**
200X180	**358,70**	-
225X200	**534,40**	-
250X225	**692,30**	-
280X250	**817,80**	-

M/F INCREASE JOINT

Ø mm	PN 10	PN 16
	€	
75X63	**123,46**	**160,48**
90X63	**139,92**	**181,90**
90X75	**151,38**	**196,80**
110X63	**166,88**	**216,94**
110X75	**168,28**	**218,76**
110X90	**186,30**	**242,18**
125X90	**226,24**	**294,10**
125X110	**246,90**	**320,98**
140X110	**251,64**	**327,14**
140X125	**251,64**	**327,14**
160X110	**312,12**	**405,76**
160X140	**312,12**	**405,76**
200X160	**540,38**	-
225X160	**602,20**	-
250X200	**693,58**	-

90° FLANGED TEE

Ø mm	PN 10	PN 16
	€	
75 x 50 1	**176,24**	-
90 x 50 1	**242,44**	-
90 x 65 1	**242,44**	-
110 x 50	**357,92**	-
110 x 65	**357,92**	-
110 x 80	**357,92**	-
125 x 50	**449,40**	-
125 x 65	**449,40**	-
125 x 80	**449,40**	-
125 x 100	**449,40**	-
140 x 50	**630,56**	-
140 x 65	**630,56**	-
140 x 80	**630,56**	-
140 x 100	**630,56**	-
160 x 50	**837,36**	-
160 x 65	**837,36**	-
160 x 80	**837,36**	-
160 x 100	**837,36**	-
160 x 125	**837,36**	-
200 x 50	**1.047,66**	-
200 x 65	**1.047,66**	-
200 x 80	**1.047,66**	-
200 x 100	**1.047,66**	-
200 x 125	**1.047,66**	-
200 x 150	**1.047,66**	-

90° TEE WITH REDUCED BRANCH

Ø mm	PN 10	PN 16
	€	
75 x 63	**130,44**	-
90 x 63	**176,24**	-
90 x 75	**176,24**	-
110 x 63	**293,68**	-
110 x 75	**293,68**	-
110 x 90	**293,68**	-
125 x 63	**391,58**	-
125 x 75	**391,58**	-
125 x 90	**391,58**	-
125 x 110	**391,58**	-
140 x 63	**558,04**	-
140 x 75	**558,04**	-
140 x 90	**558,04**	-
140 x 110	**558,04**	-
140 x 125	**558,04**	-
160 x 63	**719,62**	-
160 x 75	**719,62**	-
160 x 90	**719,62**	-
160 x 110	**719,62**	-
160 x 125	**719,62**	-
160 x 140	**719,62**	-
200 x 63	**1.047,66**	-
200 x 75	**1.047,66**	-
200 x 90	**1.047,66**	-
200 x 110	**1.047,66**	-
200 x 125	**1.047,66**	-
200 x 140	**1.047,66**	-
200 x 160	**1.047,66**	-

VALVES AND ACCESSORIES FIREFIGHTING

DESCRIPTION

Valves and items for firefighting and irrigation systems manufactured according to according to ISO 9001.
Applications: aqueducts, sewerage, firefighting, irrigation and industry.

ADVANTAGES

> PERMANENT AND 100% WATERTIGHT SEAL
> WIDE RANGE OF SIZE AND PERFORMANCE CHOICES
> SAFETY

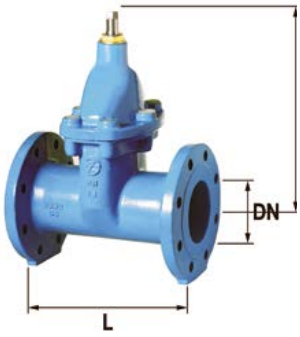
CERTIFICATES

Standards / Certifications:
- EN 14384
- UNI EN 10779
- EN 14339

APPLICATIONS

DUCTILE IRON GATE VALVE WITH OVAL BODY

CODE 609OG2



DN	PN	L	H	€
40	16	240	205	**207,00**
50	16	250	205	**213,00**
65	16	270	265	**263,00**
80	16	280	295	**308,00**
100	16	300	330	**352,00**
125	16	325	380	**488,00**
150	16	350	425	**631,00**
200	16	400	550	**1.046,00**
250	16	450	660	**1.578,00**
300	16	500	750	**2.104,00**

Standard project EN 1171-EN 1074, gummed wedge, bare shaft, without handwheel.

DUCTILE IRON GATE VALVE WITH FLAT BODY

CODE 609PG2

DN	PN	L	H	€
40	16	140	205	**186,00**
50	16	150	205	**159,00**
65	16	170	265	**192,00**
80	16	180	295	**213,00**
100	16	190	330	**285,00**
125	16	200	380	**461,00**
150	16	210	425	**493,00**
200	16	230	550	**926,00**
250	16	250	660	**1.441,00**
300	16	270	750	**1.774,00**
350	16	290	675	**2.180,00**
400	16	310	960	**4.676,00**
500	16	350	1145	**8.069,00**
600	16	390	1300	**11.195,00**

Standard project EN 1171-EN 1074, gummed wedge, bare shaft, without handwheel.

SWING CHECK VALVES

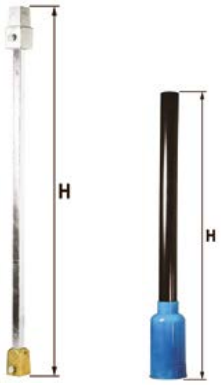
CODE 611RI1

DN	PN	L	H	€
50	16	117	200	**214,50**
65	16	122	240	**261,50**
80	16	140	260	**321,00**
100	16	156	300	**420,00**
125	16	180	350	**549,00**
150	16	205	400	**714,50**
200	16	247	500	**1.031,00**
250	16	310	600	**1.856,00**
300	16	335	700	**2.503,50**
200	10	247	500	-
250	10	310	600	-
300	10	335	700	-

Standard project EN-1074-3, flange standard EN 1092-2, made of grey cast iron.

GATE VALVE CONTROL SHAFT

CODE 613



H	Under-ground	DN gate	€
600	1000	40-50	**60,00**
600	1000	65-80	**60,00**
600	1000	100-150	**60,00**
600	1000	200	**63,00**
600	1000	250-300-350	**63,00**
600	1000	400	**203,00**
600	1000	500	**215,00**
900	1250	40-50	**72,00**
900	1250	65-80	**72,00**
900	1250	100-150	**72,00**
900	1250	200	**75,00**
900	1250	250-300-350	**75,00**
900	1250	400	**227,00**
900	1250	500	**239,00**

VANNE PROTECTIVE TUBE

CODE 614TA

H	Under-ground	DN gate	€
600	1000	40-50	**33,00**
600	1000	65-300	**36,00**
600	1000	65-300	**36,00**
600	1000	65-300	**36,00**
600	1000	65-300	**36,00**
600	1000	400-500	**55,00**
600	1000	400-500	**55,00**
900	1250	40-50	**33,00**
900	1250	65-300	**36,00**
900	1250	65-300	**36,00**
900	1250	65-300	**36,00**
900	1250	65-300	**36,00**
900	1250	400-500	**55,00**
900	1250	400-500	**55,00**

GATE VALVE HANDWHEELS

CODE 615V

DN gate	Panel	€
40-50	14	**18,00**
65-80	17	**23,00**
100-150	19	**42,00**
200	24	**49,00**
250-300	28	**74,00**
400	32	**163,00**
500-600	36	**169,00**

AUTOMATIC AIR RELIEF VALVE WITH TWO BALLS

CODE 605

Type	H	C	B1	B2	€
grip - water	250	93	120	170	**49,00**
gate	270	157	190	270	**90,00**

Cast iron trap for cover that has written "GRIP" and "GATE", non-carriage, painted black.

PE VALVE

CODE 611 PE 100

DN/OD mm	D1	PN16
		€
20	-	-
25	-	**95,60**
32	-	**95,60**
40	268	**98,80**
50	327	**179,60**
63	327	**183,90**
75	327	**210,40**
90	327	**250,50**
110	405	**323,60**
125	405	**450,50**
160	540	**1.196,40**
180	540	**1.405,50**
200	540	**2.041,90**
225	-	**2.601,00**

CONTROL SHAFT FOR PE VALVE 600-1000 MM

CODE XAC

€
50,80

INTERMEDIATE NON-RETURN VALVE

CODE 612DI1

DN	PN	H	€
32	16	90	**76,00**
40	16	95	**86,00**
50	16	105	**101,50**
65	16	115	**130,00**
80	16	130	**154,50**
100	16	135	**201,50**
125	16	170	**267,50**
150	16	180	**326,00**
200	16	205	**486,00**
250	16	240	**824,00**
300	16	260	**1.084,00**
200	10	205	**486,00**
250	10	240	**824,00**
300	10	260	**1.084,00**
350	-	-	•
400	-	-	•
450	-	-	•
500	-	-	•
600	-	-	•

According to D.M. n. 174 from 06/04/2004, flange standard EN 1092-2 / • On request

AUTOMATIC AIR RELIEF VALVE WITH SMALL ORFICE TYPE CROTONE

CODE 610SC

DN	PN	€
25	16	•
32	16	•
40	16	**246,50**
50	16	**246,50**
65	16	**246,50**
80	16	•
100	16	•
150	16	•

Standard project EN 1074-2, flange standard EN 1092-2, made of cast iron, F/M flanged coupling / • on request .

AUTOMATIC AIR RELIEF VALVE WITH SMALL ORFICE TYPE SIENA

CODE 610SS

DN	PN	€
50	16	**263,00**
65	16	**283,00**
80	16	**342,00**
100	16	**497,50**
125	16	•
150	16	•
200	16	•

Standard project EN 1074-2, flange standard EN 1092-2, made of cast iron, F/M flanged coupling / • on request .

AUTOMATIC AIR RELIEF VALVE WITH TWO BALLS

CODE 610SD

DN	PN	€
50	16	**404,50**
65	16	**436,50**
80	16	**488,00**
100	16	**635,50**
125	16	•
150	16	**1.370,00**
200	16	**1.751,50**

Standard project EN 1074-2, flange standard EN 1092-2, made of cast iron, F/M flanged coupling / • on request .

RUBBER SEATED LUGGED TYPE BUTTERFLY VALVE

CODE 611FL2

DN	PN	€
40	16	**167,50**
50	16	**173,50**
65	16	**202,50**
80	16	**230,00**
100	16	**383,50**
125	16	**499,00**
150	16	**617,50**
200	16	**941,00**
250	16	**1.718,00 ***
300	16	**2.513,00 ***

Standard project EN 1074-3, flange standard EN 1092-2
* with reducer

RUBBER SEATED WAFER TYPE BUTTERFLY VALVE

CODE 611FW1

DN	PN	€
40	16	**120,50**
50	16	**137,00**
65	16	**167,50**
80	16	**188,50**
100	16	**299,50**
125	16	**403,00**
150	16	**489,50**
200	16	**766,50**
250	16	**1.670,50 ***
300	16	**2.160,00 ***

Standard project EN 1074-3, flange standard EN 1092-2, with cast iron control lever and lens. Upon request, stainless steel control lever
* with reducer

PVC BUTTERFLY VALVE

CODE 611

DN/OD	DN		A	C	E	H	L	Pack	€
	mm	"							
63	50	2"	192,50	1110	18x4	44,5	228	2	**215,20**
75	65	2"1/2	192,50	110	18x8	44,5	228	2	**215,20**
90	80	3"	227	126	18x8	44,5	263	2	**254,30**
110	100	4"	271	156,50	18x8	44,5	263	2	**290,60**
125	125	5"	271	156,50	18x8	44,5	263	2	**327,00**
140	125	5"	297	172	18x8	44,5	350	2	**331,90**
160	150	6"	327	185	22x8	44,5	350	2	**366,80**
200	200	8"	400	230	22x8	58	390	2	**524,70**
250	250	10"	-	-	-	-	-	-	**1.226,70**
315	30	12"	-	-	-	-	-	-	**3.813,40**
400	400	16"	-	-	-	-	-	-	•

Standard project EN 1074-3, flange standard EN 1092-2, with PVC control lever and lens / • On request

TAPES AND MASHES

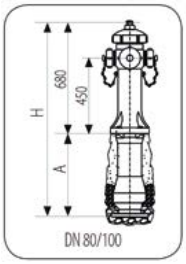
WARNING

Type	Sizes	Rolls per package	€ rolls	€ packaging
water/gas/electric cables/cable duct	L=200 m H=12 cm	24	**21,00**	**504,00**
for sewer pipe/ optical fiber/telephone cables/district heating	L=200 m H=10 cm	30	**21,00**	**630,00**
water network/gas/electrical cables according to en2613	L=250 m H=30	5	**230,00**	**1.150,00**

LOCATION

Type	Sizes	Rolls per package	€ rolls	€ packaging
water tape/gas with stainless wire	L=150 m H=10 cm	5	**115,00**	**575,00**
water network/ gas with stainless wire	L=250 m H=30 cm	5	**278,00**	**1.390,00**

ABOVE GROUND HYDRANT “A” TYPE EN 14384



EN 14384 “A” TYPE DRY SIMPLE COLUMN.

Anti-vandal opening: opening and closing operations only though the specific key.

Maintainable with an opening from the top without dig.
Special screw-type connections without nuts.

Flange and exits sizes as EN 14384

CSI 0497/CPR/3655 type approval.

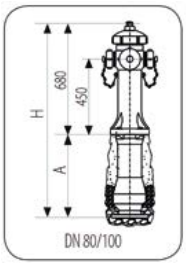
- Above ground hydrant made of ductile iron GJS 500-7 in accordance with UNI EN 1503-3 for pressures up to 16 bar.
- It is equipped with an antifreeze drain which allows the hydrant to be emptied when the valve is completely closed.
- **Conical seal gasket with 45° designed to avoid deposit of debris and thus prevent premature wear of the valve and the resulting fire hydrant malfunction**
- All internal parts are easy to dismantle and maintain
- Red epoxy powder painting RAL 3000
- Threaded erogation nozzles as shown in table UNI 810
- The entrance flange is perforated and sized EN 1092-2 PN16
- Testing of hydrant opened at 25 bar, closed at 21 bar

CODE 601 NR
SIZES ACCORDING TO EN 14384

DN mm	A	H	N. of outlets	€
80	500	1180	2x70	**861,00**
80	700	1380	2x70	**949,00**
80	1000	1680	2x70	**1.034,00**
100	500	1180	2x70	**1.001,00**
100	700	1380	2x70	**1.107,00**
100	1000	1680	2x70	**1.191,00**
100	500	1180	2x70 - 1x100	**1.182,00**
100	700	1380	2x70 - 1x100	**1.242,00**
100	1000	1680	2x70 - 1x100	**1.329,00**
150	500	1180	2x70	**1.520,00**
150	700	1380	2x70	**1.624,00**
150	1000	1680	2x70	**1.712,00**
150	500	1180	2x70 - 1x100	**1.663,00**
150	700	1380	2x70 - 1x100	**1.768,00**
150	1000	1680	2x70 - 1x100ì	**1.855,00**

Other sizes and/or features are available oln demand.
BS, Storz and Afnor coupling version, upon request.
Prices include caps and chains.
Cast iron caps do not comply with the national appendix of UNI 14384.

ABOVE GROUND HYDRANT “C” TYPE EN 14384



EN 14384 C type with pre-set break, the valve remains closed preventing the escape of water.

Anti-vandal opening: opening and closing operations only through the specific key.

Maintainable with an opening from the top without dig. Special screw-type connections without nuts.

“Easy repair” break system; internal interlocking rod, restoration with replacement of bushings o-ring only; hydrant valve operation sectioned using the hydrant key.

Flange and exits sizes as EN 14384

CSI 0497/CPR/3655 type approval.

- Above ground hydrant made of ductile iron GJS 500-7 UNI EN 1503-3 for pressures up to 16 bar.
- It is equipped with antifreeze discharge that allows the discharge of the hydrant when the valve is completely closed
- **Conical seal gasket with 45° designed to avoid deposit of debris and thus prevent premature wear of the valve and the resulting fire hydrant malfunction**
- All internal parts are easy to dismantle and maintain
- Red epoxy powder coating RAL 3000
- Threaded erogation nozzles as shown in table uni 810
- Testing of hydrant opened at 25 bar, closed at 21 bar

COD. 601 CV
SIZES ACCORDING TO EN 14384

DN mm	A	H	N. of outlets	€
80	500	1180	2x70	**998,00**
80	700	1380	2x70	**1.092,00**
80	1000	1680	2x70	**1.157,00**
100	500	1180	2x70	**1.168,00**
100	700	1380	2x70	**1.226,00**
100	1000	1680	2x70	**1.388,00**
100	500	1180	2x70 - 1x100	**1.355,00**
100	700	1380	2x70 - 1x100	**1.405,00**
100	1000	1680	2x70 - 1x100	**1.524,00**
150	500	1180	2x70	**1.714,00**
150	700	1380	2x70	**1.799,00**
150	1000	1680	2x70	**1.882,00**
150	500	1180	2x70 - 1x100	**1.858,00**
150	700	1380	2x70 - 1x100	**1.938,00**
150	1000	1680	2x70 - 1x100	**2.025,00**

Other sizes and/or features are available oln demand.
BS, Storz and Afnor coupling version, upon request.
Prices include caps and chains.
Cast iron caps do not comply with the national appendix of UNI 14384.

UNDERGROUND HYDRANT CROTONE EN 14339

DN	Standards	Connector	€
50	UNI45	bayonet	**354,00**
50	UNI45	threaded	**332,00**
65	UNI70	bayonet	**428,00**
65	UNI70	threaded	**413,00**
80	UNI70	bayonet	**421,00**
80	UNI70	threaded	**424,00**

- Underground hydrant in cast iron EN GJL 250 UNI EN 1503-3 for operating pressures up to 16 bar. Flanges sized EN 1092-2 PN 16. Other drilling on request.
- It is equipped with an antifreeze drain which allows the hydrant to be emptied once the valve is completely closed. The drain sealing rubber that closes the hydrant one is in supply, it operates thanks to pressure and not by sliding, avoiding wear.
- Height of the flange at the operating cap 450 mm.
- Hydrant testing open at 25 bar, closed at 21 bar.
- Operation via square cap. Also available with standard pentagonal cap
- UNI EN 14339 DN 80 and 1000.

Note: diameters 50 and 65 not compliant with EN 14339 and without CE marking.

UNDERGROUND HYDRANT MILANO EN 14339

DN	Standards	Connector	€
65	UNI70	bayonet	**586,00**
65	UNI70	threaded	**610,00**
80	UNI70	bayonet	**602,00**
80	UNI70	threaded	**631,00**
100	UNI 70	bayonet	**1.198,00**
100	UNI 70	threaded	**1.212,00**

- Underground cast iron hydrant EN GJL 250 UNI EN 1503-3 for operating pressures up to 16 bar. Flanges sized EN 1092-2 PN 16. Other drillings on request.
- It is equipped with an antifreeze drain which allows the hydrant to be emptied once the valve is completely closed. The drain sealing rubber that closes the hydrant one is in supply, it operates thanks to pressure and not by sliding, avoiding wear.
- Height of the flange at the operating cap 650 mm. (750 for DN100)
- Hydrant testing open at 25 bar, closed at 21 bar.
- Operation via square cap. Also available with standard pentagonal cap UNI EN 14339 DN 80 and 1000.

Note: diameter 65 not compliant with EN 14339 and without CE marking.

ELBOW WITH FOOT FOR HYDRANTS

DN	A	B	C	€
50	135	240	110	**93,00**
65	150	250	100	**111,00**
80	180	270	110	**131,00**
100	180	300	130	**175,00**
150	210	330	140	**327,00**

COVERS FOR HYDRANTS AND GATE VALVES

Type	H	C	B1	B2	Flanged €
Oval covers	310	340x240	370x270	420x320	**241,00**

Covers made of grey cast iron with cap, with the "hydrant" word on it.
Vehicular EN 124:2015 C250 class, painted in black.

Single kit:
- Minimum equipment requested by UNI 10779.
- Box for external in red sheet-metal Ral 3000 or inox.
- Sizes 500x600 prof 200.
- One three effects spear gold type.
- One support saddle for the hose.
- One certified hose with fittings UNI 804 DN70 mt. 20, 25, 30.
- One working key for hydrants
- One breakable or unbreakable sheet (with opened door).

Double kit:
- Minimum equipment requested by UNI 10779.
- Box for external in red sheet metal Ral 3000 or inox.
- Sizes 500x600 prof 300
- Two three effects spear gold type.
- Two support saddle for the hose.
- Two certified hose with fittings UNI 804 DN70 mt. 20, 25, 30.
- One working key for hydrants
- One breakable or unbreakable sheet (with opened door).

HYDRANT KIT BOX CUBA SERIES UNI 10779 PAINTED SHEET METAL

m	Door	Equipment	€	Equipment	€
20	full	single	**637,00**	double	**1.053,50**
25	full	single	**687,50**	double	**1.154,00**
30	full	single	**737,50**	double	**1.252,50**
20	breakable	single	**619,00**	double	**1.075,00**
25	breakable	single	**669,00**	double	**1.173,50**
30	breakable	single	**719,00**	double	**1.274,00**
20	unbreakable	single	**603,50**	double	**1.056,50**
25	unbreakable	single	**651,00**	double	**1.157,00**
30	unbreakable	single	**705,50**	double	**1.260,50**

Possible pedestal for hydrant kit cabinet.

Single kit:
- Minimum equipment requested by UNI 10779.
- Box for external in red sheet-metal Ral 3000 or inox.
- Sizes 500x600 prof 200.
- One three effects spear gold type.
- One support saddle for the hose.
- One certified hose with fittings UNI 804 DN70 mt. 20, 25, 30.
- One working key for hydrants
- One breakable or unbreakable sheet (with opened door).

Double kit:
- Minimum equipment requested by UNI 10779.
- Box for external in red sheet metal Ral 3000 or inox.
- Sizes 500x600 prof 300
- Two three effects spear gold type.
- Two support saddle for the hose.
- Two certified hose with fittings UNI 804 DN70 mt. 20, 25, 30.
- One working key for hydrants
- One breakable or unbreakable sheet (with opened door).

HYDRANT KIT BOX CUBA SERIES UNI 10779 INOX

m	Door	Equipment	€	Equipment	€
20	full	single	**780,00**	double	**1.400,00**
25	full	single	**827,00**	double	**1.500,50**
30	full	single	**880,50**	double	**1.575,00**
20	breakable	single	**737,50**	double	**1.429,00**
25	breakable	single	**787,50**	double	**1.529,50**
30	breakable	single	**847,00**	double	**1.477,50**
20	unbreakable	single	**720,50**	double	**1.409,50**
25	unbreakable	single	**771,00**	double	**1.515,50**
30	unbreakable	single	**821,00**	double	**1.619,00**

POSSIBLE PEDESTAL FOR HYDRANT KIT CABINET

Type	€
CYLINDRICAL RED PEDESTAL	**114,00**
CYLINDRICAL INOX PEDESTAL	**302,50**
CYLINDRICAL RED PEDESTAL PREMIUM	**147,50**
CYLINDRICAL INOX PEDESTAL PREMIUM	**318,00**
RECTANGULAR RED PEDESTAL	**138,50**
RECTANGULAR INOX PEDESTAL	**233,00**
RECTANGULAR RED PEDESTAL PREMIUM	**172,00**
RECTANGULAR INOX PEDESTAL PREMIUM	**415,00**

Single kit:
- Contains the minimum equipment required by UNI 10779.
- Outdoor box in Ral 3000 red painted sheet metal, dimensions 500 x 600 depth. 300, with unbreakable plate.
- A Gold-type three-effect lance
- A hose support saddle
- certified hose with fittings UNI 804 DN 7 m 20, 25 or 30
- **A operating key for multipurpose telescopic underground hydrants.**

UNDERGROUND HYDRANT KIT BOX 10779 H600

DIMENSIONS: 500 X 200 H 1000

m	Equipment	Connector	€
20	single	-	**739,00**
25	single	-	**792,00**
30	single	-	**839,50**

With multipurpose telescopic key

Single kit:
- Contains the minimum equipment required by UNI 10779.
- Outdoor box in Ral 3000 red painted sheet metal,
- Dimensions 500 x 1000 depth. 200.
- Fixed gooseneck DN 70. Specify the type when ordering.
- A Gold-type three-effect lance.
- A hose support saddle.
- A certified hose with UNI 804 DN 70 m fittings. 20, 25 or 30.
- **An operating key for underground hydrants.**

UNI 10779 UNDERGROUND HYDRANT KIT BOX H1000 WITH SWANNECK

DIMENSIONS: 500 X 200 H 1000

m	Equipment	Connector	€
20	single	Swan neck	**968,50**
25	single	Swan neck	**1.018,50**
30	single	Swan neck	**1.070,50**
20	single stainless steel	Swan neck	**1.186,00**
25	single stainless steel	Swan neck	**1.236,00**
30	single stainless steel	Swan neck	**1.286,00**
20	single	bayonet	**968,50**
25	single	bayonet	**1.018,50**
30	single	bayonet	**1.070,50**
20	single	bayonet	**1.186,00**
25	single	bayonet	**1.236,00**
30	single	bayonet	**1.286,00**

POSSIBLE PEDESTAL FOR HYDRANT KIT CABINET

Type	€
FOOT h300	**82,50**
FOOT h300 inox	**185,50**

WALL HYDRANT CUBA OPEN DOOR DN 45

The system consists of:
- **Outdoor/indoor sheet metal box painted or stainless steel**
- Unbreakable sheet or safe crash.
- Instruction and use manual, CE declaration of conformity.
- Hydrant valve DN 45 PN 16 - ISO 7.
- Flexible pipe DN 45 according to EN 14540, with fittings according to UNI 804 and binding according to UNI 7422.
- Numbered seal.
- Red saving hose dripper.
- Fire fighting spear UNI 45 Black, Gold and Roto certified, Ø 12, Arizona Ø 13.
- Cardboard package.

- **For installation in aggressive environments, contact our technical office for material selection.**
- **Possibility of also supplying stainless steel versions painted with price on request**



PAINTED VERSION		ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
m	glass		€	
15	unbreakable	**301,00**	**318,00**	**350,00**
20	unbreakable	**331,50**	**368,00**	**402,00**
25	unbreakable	**360,50**	**402,00**	**432,00**
30	unbreakable	**392,50**	**432,00**	**466,00**
15	safe crash	**327,00**	**362,00**	**392,00**
20	safe crash	**354,50**	**392,00**	**426,00**
25	safe crash	**388,00**	**426,00**	**458,00**
30	safe crash	**415,00**	**458,00**	**490,00**

STAINLESS STEEL VERSION		ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
m	glass		€	
15	unbreakable	**416,50**	**456,00**	**488,00**
20	unbreakable	**447,00**	**488,00**	**520,00**
25	unbreakable	**477,50**	**520,00**	**552,00**
30	unbreakable	**502,00**	**544,00**	**576,00**
15	safe crash	**441,00**	**482,00**	**510,50**
20	safe crash	**464,00**	**506,00**	**536,00**
25	safe crash	**494,00**	**536,00**	**570,00**
30	safe crash	**517,00**	**562,00**	**594,00**

CUBA WALL HYDRANT FULL DOOR DN 45

The system consists of:
- **Outdoor/indoor sheet metal box painted or stainless steel.**
- Instruction and use manual, CE declaration of conformity.
- Hydrant valve DN 45 PN 16 - ISO 7.
- Flexible pipe DN 45 according to EN 14540, with fittings according to UNI 804 and binding according to UNI 7422.
- Numbered seal.
- Red saving hose dripper.
- Fire fighting spear UNI 45 Black, Gold and Roto certified, Ø 12, Arizona Ø 13.
- Cardboard package.

- **For installation in aggressive environments contact our technical department for material selection**
- **Possibility of also supplying Inox versions painted with price on request.**



PAINTED VERSION		ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
m	glass		€	
15	full door	**293,50**	**316,50**	**342,00**
20	full door	**333,00**	**371,50**	**402,00**
25	full door	**362,00**	**402,00**	**434,00**
30	full door	**391,00**	**429,00**	**461,00**

STAINLESS STEEL VERSION		ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
m	glass		€	
15	full door	**421,50**	**466,00**	**493,00**
20	full door	**467,00**	**510,50**	**542,50**
25	full door	**499,00**	**542,50**	**573,00**
30	full door	**524,50**	**568,00**	**600,00**

CUBA ADJUSTABLE BUILT-IN WALL HYDRANT DN 45

The system consists of:
- **Built-in box in painted sheet metal and frame art. 39/T**
- Unbreakable sheet or safe crash.
- Instruction and use manual, CE declaration of conformity.
- Hydrant valve DN 45 PN 16 - ISO 7.
- Flexible pipe DN 45 according to EN 14540, with fittings according to UNI 804 and binding according to UNI 7422.
- Numbered seal.
- Red saving hose dripper.
- Fire fighting spear UNI 45 Black, Gold and Roto certified, Ø 12, Arizona Ø 13.
- Cardboard package.



m	PAINTED VERSION glass	ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
		€		
15	unbreakable	**360,50**	**388,00**	**416,50**
20	unbreakable	**394,00**	**438,50**	**472,00**
25	unbreakable	**423,00**	**472,00**	**504,00**
30	unbreakable	**454,50**	**504,00**	**536,00**

m	PAINTED VERSION glass	ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
		€		
15	safe crash	**388,00**	**432,00**	**466,00**
20	safe crash	**420,00**	**466,00**	**496,00**
25	safe crash	**450,00**	**496,00**	**533,00**
30	safe crash	**485,00**	**533,00**	**566,50**

m	PAINTED VERSION glass	ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
		€		
15	full door	**354,50**	**395,50**	**430,50**
20	full door	**388,00**	**432,00**	**466,00**
25	full door	**416,50**	**466,00**	**494,50**
30	full door	**448,50**	**496,00**	**533,00**

INTERNAL WALL HYDRANT CONVENTIONAL DN 45

The system consists of:
- **Indoor box with rounded edges in sheet metal painted with aluminum door**
- Unbreakable sheet or safe crash.
- Instruction and use manual, CE declaration of conformity.
- Hydrant valve DN 45 PN 16 - ISO 7.
- Flexible pipe DN 45 according to EN 14540, with fittings according to UNI 804 and binding according to UNI 7422.
- Numbered seal.
- Red saving hose dripper.
- Fire fighting spear UNI 45 Black, Gold and Roto certified, Ø 12.
- Cardboard package



m	PAINTED VERSION glass	ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
		€		
15	unbreakable	**295,00**	**313,50**	**340,50**
20	unbreakable	**324,00**	**358,50**	**392,00**
25	unbreakable	**351,50**	**392,00**	**421,00**
30	unbreakable	**383,50**	**421,00**	**450,00**
15	safe crash	**318,00**	**352,00**	**381,00**
20	safe crash	**344,00**	**386,00**	**413,00**
25	safe crash	**375,50**	**413,00**	**445,00**
30	safe crash	**406,00**	**445,00**	**472,00**

EXTERNAL WALL HYDRANT CONVENTIONAL DN 45

The system consists of:
- **Outdoor box**
- Unbreakable sheet or safe crash.
- Instruction and use manual, CE declaration of conformity.
- Hydrant valve DN 45 PN 16 - ISO 7.
- Flexible pipe DN 45 according to EN 14540, with fittings according to UNI 804 and binding according to UNI 7422.
- Numbered seal.
- Red saving hose dripper.
- Fire fighting spear UNI 45 Black, Gold and Roto certified, Ø 12,
- Cardboard package.



PAINTED VERSION		ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
m	glass		€	
15	unbreakable	**302,50**	**318,00**	**350,00**
20	unbreakable	**331,50**	**368,00**	**402,00**
25	unbreakable	**360,50**	**402,00**	**432,00**
30	unbreakable	**392,50**	**432,00**	**466,00**
15	safe crash	**327,00**	**362,00**	**394,00**
20	safe crash	**356,00**	**394,00**	**429,00**
25	safe crash	**388,00**	**429,00**	**461,00**
30	safe crash	**416,50**	**462,50**	**491,50**

STAINLESS STEEL VERSION		ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
m	glass		€	
15	unbreakable	**438,00**	**458,00**	**491,00**
20	unbreakable	**473,00**	**528,00**	**546,00**
25	unbreakable	**502,00**	**558,50**	**576,00**
30	unbreakable	**527,50**	**610,00**	**605,00**
15	safe crash	**465,50**	**509,00**	**544,00**
20	safe crash	**491,00**	**544,00**	**562,00**
25	safe crash	**518,50**	**574,50**	**594,00**
30	safe crash	**543,00**	**602,00**	**621,00**

BUILT-IN WALL HYDRANT CONVENTIONAL DN 45

The system consists of:
- **Flush-mounted box in grey painted sheet metal with hatch**
- Unbreakable sheet or safe crash.
- Instruction and use manual, CE declaration of conformity.
- Hydrant valve DN 45 PN 16 - ISO 7.
- Flexible pipe DN 45 according to EN 14540, with fittings according to UNI 804 and binding according to UNI 7422.
- Numbered seal.
- Red saving hose dripper.
- Fire fighting spear UNI 45 Black, Gold and Roto certified, Ø 12, Arizona Ø 13.
- Cardboard package.



PAINTED VERSION		ROTO spear Ø 12 K 91,8 Q = 225 l/min - a 6 bar	BLACK spear Ø 12 K 72 Q = 176 l/min - a 6 bar	GOLD spear Ø 12 K 73,4 Q = 180 l/min - a 6 bar
m	glass		€	
15	unbreakable	**275,50**	**293,50**	**324,00**
20	unbreakable	**307,50**	**341,00**	**371,50**
25	unbreakable	**334,50**	**371,50**	**405,00**
30	unbreakable	**366,50**	**405,00**	**437,00**
15	safe crash	**304,00**	**339,50**	**370,00**
20	safe crash	**333,00**	**370,00**	**403,50**
25	safe crash	**362,00**	**403,50**	**435,50**
30	safe crash	**392,50**	**435,50**	**464,00**

Threaded

Grooved

Flanged

GROUP OF FLOW CONNECTION UNI 10779

DN	Outlets	Threaded	Grooved	Flanged
		€		
2"	1x70	**359,00**	**395,50**	**448,50**
2"1/2	1x70	**456,00**	**497,50**	**512,50**
3"	1x70	**625,00**	**676,50**	**687,50**
4"	1x70	**807,50**	**871,00**	**898,50**

F/F threaded or flanged connections / Specify if horizontal or vertical

Threaded

Grooved

Flanged

UNI 10779 MULTI CONNECTION SUPPLY UNITS

DN	Outlets	Threaded	Grooved	Flanged
		€		
2"	2x70	**488,00**	**524,50**	**591,50**
2"1/2	2x70	**661,50**	**702,50**	**792,00**
3"	2x70	**964,00**	**1.015,50**	**1.053,50**
4"	2x70	**1.312,00**	**1.377,50**	**1.412,50**
4"	3x70	**1.570,50**	**1.634,00**	**1.674,00**

Boxes on request / Other sizes on request

BOX FOR SUPPLY GROUPS

External version	DN Outlets	Dimension	€/each
painted	2" - 2"1/2	600x500x300	**204,00**
painted	3" - 4"	800x600x400	**283,00**
not painted	5" - 6" with 2 hydrants	1200x800x450	**1.497,50**
not painted	5" - 6" with 3-4 hydrants	1700x800x450	**2.032,50**
stainless steel	2" - 2"1/2	600x500x300	**492,50**
stainless steel	3" - 4"	800x600x400	**743,50**

Painted version	DN Outlets	Dimension	€/each
painted	2" - 2"1/2	600x500x300	**204,00**
painted	3" - 4"	800x600x400	**283,00**

IRRIGATION

DESCRIPTION

Line and end of line hydrants for connecting to PE100 and PVC-U pipes in accordance with UNI EN 12201-3 standard. They are made through butt welding with specific welding machines in accordance with UNI 10565. Weldings are performed by patented employes according to UNI 9737, under quality control ISO 9001.
Applications: aqueducts, sewerage, firefighting, irrigation and industry.

ADVANTAGES

- 100% PERMANT AND RELIABLE WATER TIGHTNESS
- WIDE RANGE OF SIZE AND PERFORMANCE CHOICES
- HIGH ABRASION RESISTANCE
- PLASTIC BEHAVIOUR IN UNSTABLE SITUATIONS
- SYSTEM UNIFORMITY

CERTIFICATES

Standards / Certifications:
- UNI EN 12201-3

APPLICATIONS

HYDRANT TEE

END MALE HYDRANT WITH FLANGE H 1500 MM

END OF LINE WITH FLANGED DERIVATION

DN80 PN10 PE100

DN/OD mm	€
110	185,00
125	191,60
140	204,00
160	211,10
180	249,90
200	248,30
225	366,50
250	418,80
315	644,00

DN80 PN16 PE100

DN/OD mm	€
110	215,50
125	222,40
140	235,50
160	243,50
180	307,40
200	266,20
225	348,10
250	467,30
315	728,30

DN100 PN10 PE100

DN/OD mm	€
110	183,50
125	238,00
140	250,40
160	257,60
180	264,00
200	350,10
225	301,80
250	459,40
315	549,80

DN100 PN16 PE100

DN/OD mm	€
110	214,60
125	278,90
140	292,00
160	300,00
180	306,50
200	406,50
225	347,20
250	534,00
315	638,00

MALE HYDRANT WITH FLANGE H 1500 MM

FLANGED DERIVATION TEE

DN80 PN10 PE100

DN/OD mm	€
110	164,30
125	185,90
140	215,40
160	240,30
180	280,80
200	356,30
225	404,00
250	630,30
315	902,00

DN80 PN16 PE100

DN/OD mm	€
110	189,80
125	213,70
140	246,00
160	273,30
180	317,90
200	400,90
225	453,30
250	706,60
315	1.006,20

DN100 PN10 PE100

DN/OD mm	€
110	187,50
125	263,40
140	303,90
160	267,80
180	308,30
200	383,80
225	465,70
250	609,80
315	881,50

DN100 PN16 PE100

DN/OD mm	€
110	218,40
125	306,70
140	350,50
160	308,30
180	352,90
200	435,90
225	532,20
250	684,30
315	983,80

HYDRANT TEE

provided with Plug & Play socket

END MALE HYDRANT WITH FLANGE H 1500 MM

END OF LINE WITH FLANGED DERIVATION

DN80 PN10 PE100

DN/OD mm	€
110	307,80
125	330,60
140	369,80
160	404,00
180	503,20
200	596,80
225	733,30
250	857,00

DN80 PN16 PE100

DN/OD mm	€
110	338,30
125	361,40
140	401,40
160	436,40
180	560,70
200	614,70
225	714,80
250	905,50

DN100 PN10 PE100

DN/OD mm	€
110	306,30
125	377,10
140	416,30
160	450,50
180	517,40
200	698,60
225	668,50
250	897,60

DN100 PN16 PE100

DN/OD mm	€
110	337,40
125	417,90
140	457,80
160	492,80
180	559,80
200	755,00
225	713,90
250	972,20

MALE HYDRANT WITH FLANGE H 1500 MM

FLANGED DERIVATION TEE

DN80 PN10 PE100

DN/OD mm	€
110	409,90
125	464,00
140	547,10
160	626,10
180	787,40
200	1053,30
225	1137,50
250	1506,70

DN80 PN16 PE100

DN/OD mm	€
110	435,30
125	491,80
140	577,70
160	659,10
180	824,60
200	1.098,00
225	1.186,80
250	1.583,00

DN100 PN10 PE100

DN/OD mm	€
110	433,00
125	541,40
140	635,70
160	653,60
180	814,90
200	1.080,80
225	1.199,30
250	1.486,20

DN100 PN16 PE100

DN/OD mm	€
110	463,90
125	584,70
140	682,20
160	694,10
180	859,60
200	1.133,00
225	1.265,70
250	1.560,70

HYDRANT TEE

provided with pressure PVC sleeve

END MALE HYDRANT WITH FLANGE H 1500 MM

END OF LINE WITH FLANGED DERIVATION

DN80 PN10 PE100

DN/OD mm	€
110	**210,90**
125	**222,20**
140	**248,60**
160	**265,40**
180	**319,70**
200	**328,50**
225	**479,60**
250	**559,90**

DN80 PN16 PE100

DN/OD mm	€
110	**248,80**
125	**262,10**
140	**286,80**
160	**312,80**
180	**392,70**
200	**363,40**
225	**480,60**
250	**636,60**

DN100 PN10 PE100

DN/OD mm	€
110	**208,30**
125	**267,60**
140	**294,00**
160	**310,80**
180	**332,80**
200	**429,30**
225	**413,80**
250	**599,40**

DN100 PN16 PE100

DN/OD mm	€
110	**246,60**
125	**317,30**
140	**342,00**
160	**368,00**
180	**390,50**
200	**502,50**
225	**478,40**
250	**702,00**

MALE HYDRANT WITH FLANGE H 1500 MM

FLANGED DERIVATION TEE

DN80 PN10 PE100

DN/OD mm	€
110	**215,00**
125	**246,20**
140	**303,60**
160	**347,80**
180	**419,40**
200	**515,80**
225	**629,10**
250	**911,30**

DN80 PN16 PE100

DN/OD mm	€
110	**255,10**
125	**291,80**
140	**347,20**
160	**410,60**
180	**487,20**
200	**594,20**
225	**717,00**
250	**1.043,90**

DN100 PN10 PE100

DN/OD mm	€
110	**237,10**
125	**322,60**
140	**391,10**
160	**374,20**
180	**445,90**
200	**542,20**
225	**689,70**
250	**889,80**

DN100 PN16 PE100

DN/OD mm	€
110	**282,40**
125	**383,50**
140	**450,50**
160	**444,30**
180	**520,90**
200	**627,90**
225	**794,60**
250	**1.020,30**

PE pieces in accordance with UNI EN 12201-3 // PVC sleeves in accordance with UNI EN 1452

REPAIR CLAMPS AND DERIVATION

DESCRIPTION

Repair clamps provided with an honeycomb gasket, ductile iron clamps, stainless steel band and galvanised steel tie-rods with double tightening torque.
Application fields: for reparing localized breakage or tiny holes not above the 30% of the band width on pipes of every kind of material for gas and drinking water distribution. Maximum usage temperature +40°. No slippage tightness.

click here

CHECK OUT
THE VIDEOS ON
YouTube

ADVANTAGES

- SIMPLE, FAST, RELIABLE
- QUICK INSTALLATION
- RELIABLE AND LONG-LASTING
- WIDE RANGE OF SIZE AND PERFOMANCE CHOICES

CERTIFICATES

Produced and tested in Italy according to ISO 9001 certified quality management.

APPLICATIONS

ONE SCREW REPAIRING CLAMPS [MOD 1/B]

WIDTH 80 MM

APPLICATION

For the reparation of localized breakages or small holes, no bigger than 30% of the band width on any material pipes for gas service and drinking water. Maximum temperature of use + 40 °. No slippage tightness.

TECHNICAL DATA

- Complies with D.M. 174 06/04/2004
- AISI 304 stainless steel band sp. 0.8 mm
- Ductile iron clamp EN GJS 500-10 with galvanizing treatment
- Bolts in galvanized steel 4.8
- NBR nitrile rubber gasket conforming to D.M. 174 06/04/2004
- Hardness 50/60 shore

Produced and tested in Italy according to ISO 9001 certified quality management system.

On request gaskets for contact with hydrocarbons according to EN 682-2006.

CODE	Inch	Ø	Weight kg	€
501000000066	3/8"	16-18	0,25	**7,25**
501000000067	-	18-20	0,25	**7,25**
501000000034	1/2"	21-25	0,25	**7,70**
501000000035	3/4"	26-30	0,25	**7,70**
501000000036	-	29-33	0,30	**7,85**
501000000037	1"	33-37	0,30	**7,85**
501000000038	-	38-42	0,30	**7,95**
501000000039	11/4"	42-45	0,30	**7,95**
501000000040	-	44-48	0,30	**8,20**
501000000041	11/2"	48-51	0,30	**8,35**
501000000042	-	50-54	0,30	**8,60**
501000000043	-	55-60	0,30	**8,65**
501000000044	2"	60-64	0,45	**11,15**
501000000045	-	65-69	0,45	**10,90**
501000000046	-	69-73	0,45	**10,90**
501000000047	21/2"	71-76	0,50	**11,45**
501000000048	-	76-82	0,50	**11,50**
501000000049	-	82-87	0,55	**11,50**
501000000050	-	87-93	0,60	**12,20**
501000000051	3"	94-100	0,60	**12,20**
501000000052	-	99-104	0,60	**12,20**
501000000053	-	105-111	0,60	**12,75**
501000000054	4"	112-118	0,60	**13,00**
501000000055	-	120-126	0,60	**22,30**
501000000056	-	126-131	0,70	**22,65**
501000000057	-	131-136	0,70	**22,65**
501000000058	5"	139-145	0,80	**23,20**
501000000059	-	156-162	0,80	**24,30**
501000000060	6"	167-173	0,80	**24,75**
501000000061	-	173-179	0,80	**26,05**
501000000062	8"	217-223	0,80	**28,00**
501000000063	-	223-229	0,90	**28,70**

Particular diameter models available on demand.

THREE SCREWS REPAIRING CLAMPS [MOD 3/B]

WIDTH 200 MM

APPLICATION

For the reparation of localized breakages or small holes, no bigger than 30% of the band width on any material pipes for gas service and drinking water. Maximum temperature of use + 40 °.
No slippage tightness.

TECHNICAL DATA

- Complies with D.M. 174 06/04/2004
- AISI 304 stainless steel band sp. 0.8 mm
- Cast iron clamp EN GJS 500-10 with epoxy resin treatment
- Electro-galvanized coated steel bolts 4.8
- NBR nitrile rubber gasket conforming to D.M. 174 06/04/2004
- Hardness 50/60 shore

Produced and tested in Italy according to ISO 9001 certified quality management system.

On request gaskets for contact with hydrocarbons according to EN 682-2006.

CODE	Ø	Weight kg	€
502000000072	48-56	3,90	**69,95**
502000000073	56-64	3,90	**70,45**
502000000074	60-68	4,00	**70,85**
502000000075	68-78	4,00	**70,85**
502000000076	78-88	4,10	**74,75**
502000000077	88-98	4,10	**75,15**
502000000078	98-108	4,20	**80,10**
502000000079	108-118	4,30	**81,40**
502000000080	114-126	4,30	**85,65**
502000000081	126-138	4,30	**85,85**
502000000082	138-150	4,50	**89,65**
502000000083	140-153	4,50	**91,25**
502000000084	150-162	4,50	**92,25**
502000000085	162-174	4,60	**97,55**
502000000086	168-182	4,70	**102,00**
502000000087	174-186	4,70	**102,20**
502000000088	186-198	4,80	**106,70**
502000000089	198-210	5,00	**107,55**
502000000090	210-223	5,00	**113,80**
502000000091	222-234	5,00	**115,40**
502000000092	234-246	5,00	**120,45**
502000000093	243-255	5,20	**131,40**
502000000094	260-272	5,50	**133,95**
502000000095	273-285	5,50	**140,70**
502000000096	285-297	5,50	**147,40**
502000000097	298-310	5,50	**149,20**
502000000098	316-328	5,50	**158,25**
502000000099	327-340	5,90	**159,70**
502000000100	342-355	6,00	**165,85**
502000000101	353-365	6,00	**167,20**
502000000102	368-380	6,00	**173,70**
502000000103	378-390	6,00	**174,85**

Particular diameter models available on demand.

FOUR SCREWS REPAIRING CLAMPS [MOD 4/B]

WIDTH 300 MM

APPLICATION

For the reparation of localized breakages or small holes, no bigger than 30% of the band width on any material pipes for gas service and drinking water. Maximum temperature of use + 40 °.

No slippage tightness.

TECHNICAL DATA

- Complies with D.M. 174 06/04/2004
- AISI 304 stainless steel band sp. 0.8 mm
- Cast iron clamp EN GJS 500-10 with epoxy resin treatment
- Electro-galvanized coated steel bolts 4.8
- NBR nitrile rubber gasket conforming to D.M. 174 06/04/2004
- Hardness 50/60 shore

Produced and tested in Italy according to ISO 9001 certified quality management system.

On request gaskets for contact with hydrocarbons according to EN 682-2006.

CODE	Ø	Weight kg	€
509000000001	68-78	5,65	**101,15**
509000000002	78-88	6,18	**110,95**
509000000003	88-98	6,18	**112,15**
509000000004	98-108	6,20	**112,50**
509000000005	108-118	6,84	**119,60**
509000000006	114-126	6,84	**120,60**
509000000007	126-138	7,00	**121,80**
509000000008	138-150	7,02	**128,55**
509000000009	140-153	7,02	**130,00**
509000000010	150-162	7,02	**131,80**
509000000011	162-174	7,22	**134,50**
509000000012	168-182	7,22	**136,10**
509000000013	174-186	7,30	**136,85**
509000000014	186-198	7,60	**145,35**
509000000015	198-210	7,60	**150,40**
509000000016	210-223	8,14	**158,45**
509000000017	222-234	8,14	**159,80**
509000000018	234-246	8,14	**170,05**
509000000019	243-255	8,20	**172,55**
509000000020	260-272	8,30	**222,30**
509000000021	273-285	8,82	**230,20**
509000000022	285-297	8,82	**230,20**
509000000023	298-310	9,10	**231,55**
509000000024	316-328	9,38	**239,35**
509000000025	327-340	9,38	**241,95**
509000000026	342-355	10,40	**245,60**
509000000027	353-365	10,50	**246,55**
509000000028	368-380	10,70	**246,85**
509000000029	378-390	10,80	**252,25**

Particular diameter models available on demand.
Two or three part versions, width 200/300/500 mm also available on demand.

TWO PART REPAIRING CLAMPS
WIDTH 200 - 300 - 500 MM

APPLICATION
For the reparation of localized breakages or small holes, no bigger than 30% of the band width on any material pipes for gas service and drinking water. Maximum temperature of use + 40 °.
No slippage tightness.

TECHNICAL DATA
- Complies with D.M. 174 06/04/2004
- AISI 304 stainless steel band sp. 0.8 mm
- Cast iron clamp EN GJS 500-10 with epoxy resin treatment
- Electro-galvanized coated steel bolts 4.8
- NBR nitrile rubber seal conforming to D.M. 174 06/04/2004
- Hardness 50/60 shore

Produced and tested in Italy according to ISO 9001 certified quality management system.
On request gaskets for contact with hydrocarbons according to EN 682-2006.

D min - max	CODE 510 6 screws mm 200	CODE 514 8 screws mm 300	CODE 513 14 screws mm 500
		€ /cad.	
88 -110	**163,05**	**222,90**	**-**
108 - 128	**164,70**	**226,30**	**-**
114 - 137	**165,60**	**231,25**	**-**
138 - 160	**169,70**	**234,50**	**-**
160 - 182	**171,45**	**236,25**	**483,70**
182 - 202	**179,75**	**241,15**	**483,70**
202 - 224	**186,45**	**252,80**	**502,00**
217 - 240	**191,35**	**266,20**	**517,20**
240 - 262	**194,60**	**269,45**	**532,40**
262 - 284	**203,00**	**276,15**	**547,60**
273 - 296	**206,35**	**286,15**	**587,10**
296 - 319	**214,60**	**291,10**	**608,40**
324 - 346	**221,25**	**297,70**	**635,90**
346 - 368	**232,85**	**302,55**	**631,30**
365 - 387	**247,90**	**322,60**	**667,90**
387 - 410	**259,55**	**337,65**	**669,20**
410 - 432	**269,45**	**349,25**	**695,20**
428 - 450	**274,55**	**357,60**	**708,80**
450 - 474	**284,50**	**359,25**	**722,60**
470 - 492	**302,70**	**382,55**	**768,20**
492 - 516	**326,00**	**387,55**	**803,10**

Particular diameter models available on demand.

THREE PARTS REPAIRING CLAMPS

WIDTH 200 - 300 - 500 MM

APPLICATION

For the reparation of localized breakages or small holes, no bigger than 30% of the band width on any material pipes for gas service and drinking water. Maximum temperature of use + 40 °.
No slippage tightness.

TECHNICAL DATA

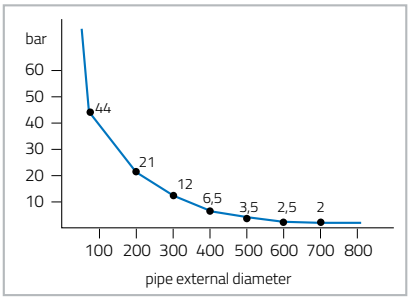
- Complies with D.M. 174 06/04/2004
- AISI 304 stainless steel band sp. 0.8 mm
- Cast iron clamp EN GJS 500-10 with epoxy resin treatment
- Electro-galvanized coated steel bolts 4.8
- NBR nitrile rubber gasket conforming to D.M. 174 06/04/2004
- Hardness 50/60 shore

Produced and tested in Italy according to ISO 9001 certified quality management system.

On request gaskets for contact with hydrocarbons according to EN 682-2006.

D min - max	CODE 516 9 screws mm 200	CODE 517 12 screws mm 300	COD. 519 21 screws mm 500
		€ /cad.	
300 - 330	**322,80**	**440,20**	**789,50**
330 - 360	**337,60**	**464,80**	**839,70**
360 - 390	**362,00**	**489,10**	**848,70**
390 - 420	**366,90**	**498,90**	**889,90**
420 - 450	**381,50**	**528,30**	**912,60**
450 - 480	**391,30**	**533,20**	**926,40**
480 - 510	**401,10**	**543,00**	**944,70**
510 - 540	**415,80**	**596,80**	**967,40**
540 - 570	**425,60**	**562,50**	**990,30**
570 - 600	**440,20**	**586,90**	**1.031,30**
600 - 630	**450,00**	**586,90**	**1.040,30**
630 - 660	**469,60**	**621,20**	**1.090,60**
660 - 690	**484,30**	**626,10**	**1.113,40**
690 - 720	**518,40**	**660,40**	**1.172,80**
720 - 750	**562,50**	**670,20**	**1.232,00**

PRESSURE CHART



PRESSURE:

- Pipe length involved in repairing not bigger than 35% of the length of the repair saddle used.
- Clamp bolts tightening torque: for multi-tie collars 7 Kg / m (70 N m), for collars with 1 single tensioner 3 Kg (30 N m).

Particular diameter models available on demand.

COD. 619D11

COLLAR WITH DERIVATION CAST IRON *plus* FOR PVC

- Half parts of ductile iron.
- EPDM gasket which is appropriate for the potable water usage.
- Epoxy paint with an average thickness of 250 micron.
- Joining screws made of galvanised steel or INOX, upon request.
- Femal gas thread UNI ISO 228/1.

DN	3/4"	1"	1 1/4"	1 1/2"	2"
	€	€	€	€	€
50	66,00	66,00	66,00	-	-
63	-	66,00	66,00	66,00	66,00
75	-	71,20	71,20	74,90	74,90
90	-	81,30	81,30	83,50	83,50
110	-	99,10	99,10	101,50	101,50
125	-	113,60	113,60	113,80	113,80
140	-	133,90	133,90	133,90	133,90
160	-	160,90	160,90	162,60	162,60
180	-	173,30	173,30	173,30	173,30
200	-	226,60	226,60	226,60	226,60
225	-	250,60	250,60	250,60	250,60
250	-	268,00	268,00	268,00	268,00
315	-	-	-	-	•

• on demand

COD. 619D112

COLLAR WITH SIMPLE DERIVATION

PE/PVC, STEEL, CAST IRON, CEMENT

DN	1"	1 1/4"	1 1/2"	2"
		€		
63	82,00	86,00	90,30	-
75	89,30	90,60	90,60	-
90	89,80	95,10	95,10	101,50
110	90,60	99,00	99,00	101,70
125	94,50	100,50	100,50	101,70
140	99,20	105,20	107,80	116,90
160	101,40	108,00	109,90	119,30
180	103,80	110,10	111,90	122,00
200	130,90	135,70	135,70	148,90
225	133,10	138,10	138,10	151,70
250	240,00	•	240,60	240,60
315	•	•	•	273,30

• on demand

COLLAR WITH SIMPLE DERIVATION

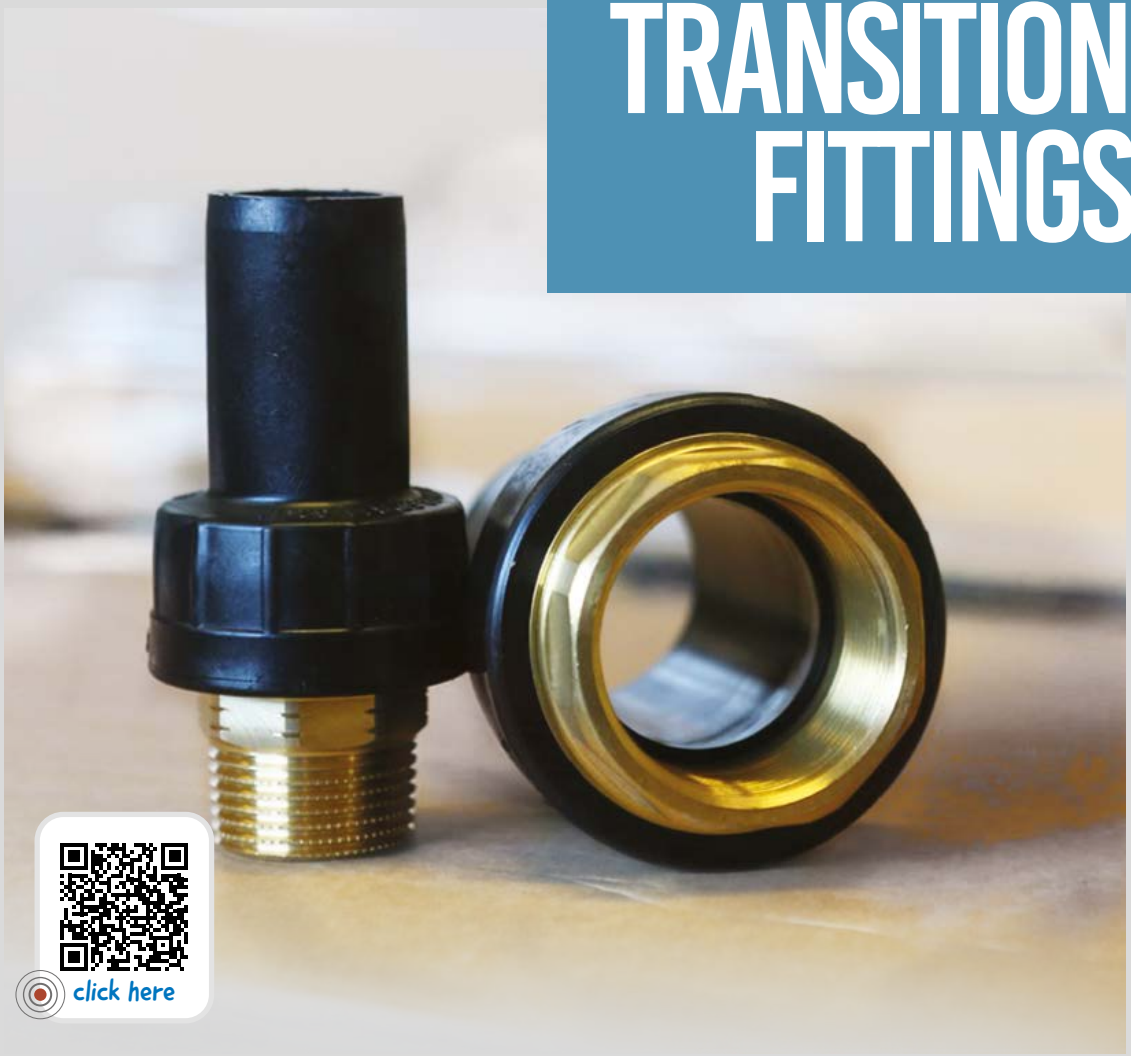
STEEL, CAST IRON, CEMENT

COD. 619D113

DN	1"	1 1/4"	1 1/2"	2"
		€		
50	**43,60**	**56,30**	**58,50**	-
60	**55,80**	**60,90**	**63,00**	-
80	**59,30**	**64,20**	**66,80**	**70,50**
90	**60,40**	**67,00**	**69,80**	**72,10**
100	**60,40**	**67,00**	**69,80**	**70,80**
125	**60,40**	**69,20**	**71,80**	**77,90**
150	**61,40**	**70,00**	**74,10**	**79,10**
175	**66,00**	**73,10**	**76,10**	**79,90**
200	**85,20**	**90,80**	**96,30**	**98,50**
225	**86,60**	**94,10**	**99,90**	**102,60**
250	**88,30**	**93,70**	**101,20**	**103,80**
300	-	•	•	•
400	-	•	•	•

• on demand

TRANSITION FITTINGS



DESCRIPTION

It is a new line of transition polyethylene-steel fittings that is manufactured in accordance with UNI 9736.
Main characteristics:
- steel sleeve made with pipes that are produced in accordance with UNI 8863. These sleeves are zinced inside and coated outside with a triple braiding layer in polyethylene. They have a threaded male or to weld extremity.
- polyethylene PE100 SDR 11stub, produced in accordance with UNI EN 12201-3 e/o UNI EN 1555-3.
It is appropriate for connection between water pipes PN16 and gas pipes S5
- external reinforcing bush in electro zinced steel.
All the fittings are produced in accordance with ISO 9001.

ADVANTAGES

> SAFETY
> WIDE RANGE OF SIZE AND PERFORMANCE CHOICES
> LIGHTNESS
> ECONOMY

CERTIFICATES

Standards / Certifications:
- UNI EN 12201-3
- UNI EN 1555-3
- UNI EN ISO 15494

APPLICATIONS

PE/BRASS FEMALE THREADED TRANSITION FITTING PN16

CODE 304FF PE 100

DN/OD mm	€
20x1/2"	18,15
25x3/4"	20,20
32x1"	21,20
40x1"1/4	29,45
50x1"1/2	34,00
63x2"	46,80
75x2"1/2	83,55
90x3"	106,10
110x4"	178,35
125x4"	184,10

PE/BRASS MALE THREADED TRANSITION FITTING PN16

CODE 304FM PE 100

DN/OD mm	€
20x1/2"	20,00
25x3/4"	20,60
32x1"	26,55
40x1"1/4	37,65
50x1"1/2	48,40
63x2"	64,20
75x2"1/2	118,30
90x3"	143,35
110x4"	247,55
125x4"	252,80

TRANSITION PE/COATED STEEL STRAIGHT THREADED MALE PN16/S5 FITTING

CODE 301R1 PE 100

DN/OD mm	€
25	33,40
32	38,70
40	45,30
50	51,60
63	70,55
75	128,70
90	157,30
110	235,65
125	246,80

TRANSITION PE/COATED STEEL STRAIGHT WELDING PN16/S5 FITTING

CODE 301R1 PE 100

DN/OD mm	€
25	29,40
32	33,80
40	39,45
50	45,15
63	61,70
75	117,10
90	140,75
110	211,10
125	222,25

TRANSITION PE/COATED STEEL BENT THREADED MALE PN16/S5 FITTING

CODE 301R1 PE 100

DN/OD mm	€
25	64,65
32	80,80
40	97,05
50	119,55
63	177,10

TRANSITION PE/COATED STEEL BENT WELDING MALE PN16/S5 FITTING

CODE 301R1 PE 100

DN/OD mm	€
25	64,65
32	80,80
40	97,05
50	119,55
63	177,10

Product price certified FM Approvals

TRANSITION PE SLEEVE/ BRASS THEADED MALE ELECTRIC

CODE 209 PE 100

DN/OD mm	€
20	**30,00**
25	**30,00**
32	**35,00**
40	**44,00**
50	**56,00**
63	**68,00**
75	**125,00**
90	**144,00**
110	**245,00**

TRANSITION PE SLEEVE/ BRASS THEADED FEMALE ELECTRIC

CODE 209 PE 100

DN/OD mm	€
20	**33,00**
25	**33,00**
32	**37,00**
40	**52,00**
50	**66,00**
63	**80,00**
75	**154,00**
90	**183,00**
110	**308,00**

TRANSITION PE 45° ELBOW/BRASS THREADED MALE ELECTRIC

CODE 201 PE 100

DN/OD mm	€
20	**52,00**
25	**52,00**
32	**49,00**
40	**59,00**
50	**74,00**
63	**87,00**
75	**149,00**
90	**169,00**
110	**282,00**

TRANSITION PE 45° ELBOW/BRASS THREADED FEMALE ELECTRIC

CODE 201 PE 100

DN/OD mm	€
20	**55,00**
25	**55,00**
32	**51,00**
40	**76,00**
50	**84,00**
63	**98,00**
75	**179,00**
90	**207,00**
110	**347,00**

TRANSITION PE 90° ELBOW/ BRASS THREADED MALE ELECTRIC

CODE 201 PE 100

DN/OD mm	€
20	**45,00**
25	**45,00**
32	**49,00**
40	**59,00**
50	**74,00**
63	**87,00**
75	**150,00**
90	**169,00**
110	**282,00**

TRANSITION PE 90° ELBOW/ BRASS THREADED FEMALE ELECTRIC

CODE 201 PE 100

DN/OD mm	€
20	**48,00**
25	**48,00**
32	**51,00**
40	**68,00**
50	**84,00**
63	**99,00**
75	**179,00**
90	**207,00**
110	**347,00**

click on the notch to access the section

notes

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

click on the notch to access the section

FITTINGS FOR SEWERAGE SYSTEMS

INJECTION MOULDED FITTINGS

click here

DESCRIPTION

Moulded fittings made of high density polyethylene for corrugated pipe Magnum type which find application in non-pressurized underground pipelines. They are manufactured using the injection moulding or rotational moulding technology with different sizes according to the UNI EN 13476 standard.
All fittings are produced according to ISO 9001.

ADVANTAGES

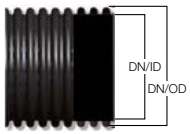
> EASE OF INSTALLATION
> WIDE RANGE OF SIZES

CERTIFICATES

Standards / Certifications:
- UNI EN 13476

APPLICATIONS

MAGNUM PIPE



DN/OD mm	d_{im} mm	DN/ID mm	d_e mm
125	105		
160	137		
200	172		
250	218		
		250	284
315	272		
		300	350
400	347		
		400	468
500	433		
		500	565
630	535		
		600	701
800	678		
		800	935
1000	852		
		1000	1200
1200	1030		

GASKET

CODE 218G6

€
1,80
3,56
4,38
5,83
8,91
9,19
14,06
15,79
24,93
28,27
48,47
61,51
74,58
130,95
181,80
202,37
369,71
369,71

COUPLER

CODE 220CC

€
3,79
5,39
9,77
17,15
119,48
47,84
159,24
91,71
242,33
137,53
294,74
310,19
520,25
433,21
607,28
745,74
866,42
866,42

INJECTION MOULDED FITTINGS F/F

45°ELBOW

CODE 225C

DN/OD mm	€
160	**49,00**
200	**56,00**
250	**84,00**
315	**160,00**
350	**377,00**
400	**398,00**
468	**476,00**
500	**476,00**
630	**661,00**

90°ELBOW

CODE 225C

DN/OD mm	€
160	**79,00**
200	**96,00**
250	**140,00**
315	**225,00**
350	**395,00**
400	**531,00**
468	**774,00**
500	**774,00**
630	**1.060,00**

45°TEE

CODE 226C

DN/OD mm	€
160	**97,00**
200	**131,00**
250	**161,00**
315	**486,00**
350	**-**
400	**551,00**
500	**-**
630	**-**

90°TEE

CODE 226C

DN/OD mm	€
160	**91,00**
200	**127,00**
250	**137,00**
315	**398,00**
350	**487,00**
400	**505,00**
500	**753,00**
630	**1.263,00**
701	**1.535,00**
800	**2.110,00**
935	**2.872,00**
1000	**3.448,00**
1200	**5.355,00**

REDUCING M/F

CODE 227C

DN/OD mm	€
160-125	**17,00**
200-160	**19,00**
250-200	**27,00**
315-250	**41,00**

FORMED FITTINGS

DESCRIPTION

Fittings made of HDPE pipes Magnum type manufactured through butt welding (UNI 10520) or manual extruding welding according to the EN13476 standard.
Weldings are made by patented employers in accordance with the UNI 9737- DVS 2212-2.
All fittings are manufactured according to ISO 9001.

ADVANTAGES

> EASE OF INSTALLATION
> WIDE SIZES RANGE
> SYSTEM UNIFORMITY
> CUSTOMISED SOLUTIONS

CERTIFICATES

Standards / Certifications:
- UNI EN 13476

APPLICATIONS

FORMED FITTINGS M/M - MAGNUM

For each side you need a coupler

30° ELBOW

CODE 101C21

DN/OD mm	€
125	**52,00**
160	**59,00**
200	**76,00**
250	**89,00**
284	**113,00**
315	**124,00**
350	**204,00**
400	**232,00**
468	**309,00**
500	**376,00**
565	**488,00**
630	**678,00**
701	**995,00**
800	**1.225,00**
935	**1.655,00**
1000	**2.158,00**
1200	**2.976,00**

45° ELBOW

CODE 101C22

DN/OD mm	€
125	**52,00**
160	**59,00**
200	**76,00**
250	**89,00**
284	**113,00**
315	**124,00**
350	**204,00**
400	**232,00**
468	**309,00**
500	**376,00**
565	**488,00**
630	**678,00**
701	**995,00**
800	**1.225,00**
935	**1.655,00**
1000	**2.158,00**
1200	**2.976,00**

60° ELBOW

CODE 101C23

DN/OD mm	€
125	**74,00**
160	**97,00**
200	**135,00**
250	**150,00**
284	**186,00**
315	**204,00**
350	**329,00**
400	**373,00**
468	**525,00**
500	**582,00**
565	**926,00**
630	**1.099,00**
701	**1.861,00**
800	**2.125,00**
935	**2.812,00**
1000	**3.021,00**
1200	**4.547,00**

90° ELBOW

CODE 101C24

DN/OD mm	€
125	**74,00**
160	**97,00**
200	**135,00**
250	**150,00**
284	**186,00**
315	**204,00**
350	**329,00**
400	**373,00**
468	**525,00**
500	**582,00**
565	**926,00**
630	**1.099,00**
701	**1.861,00**
800	**2.125,00**
935	**2.812,00**
1000	**3.021,00**
1200	**4.547,00**

90°TEE

CODE 102C24N

DN/OD mm	€
125	**111,00**
160	**131,00**
200	**167,00**
250	**194,00**
284	**246,00**
315	**272,00**
350	**505,00**
400	**576,00**
468	**845,00**
500	**945,00**
565	**1.558,00**
630	**1.814,00**
701	**3.070,00**
800	**3.507,00**
935	**5.634,00**
1000	**6.055,00**

90°REDUCING TEE

CODE 102C24E

DN/OD mm	D1 min	D1 max	€
125	125	125	**-**
160	125	160	**150,00**
200	125	200	**182,00**
250	125	200	**227,00**
284	125	250	**250,00**
315	125	284	**295,00**
350	125	315	**636,00**
400	125	350	**724,00**
468	125	400	**1.125,00**
500	125	468	**1.211,00**
565	125	468	**1.468,00**
630	125	500	**1.594,00**
701	125	565	**2.145,00**
800	125	630	**2.453,00**
935	125	701	**3.161,00**
1000	125	800	**3.398,00**
1200	125	1000	**4.060,00**

45°TEE

CODE 102C22N

DN/OD mm	€
125	**124,00**
160	**164,00**
200	**199,00**
250	**258,00**
284	**294,00**
315	**386,00**

45°REDUCING TEE

CODE 102C22E

DN/OD mm	D1 min	D1 max	€
125	125	125	**-**
160	125	160	**239,00**
200	125	200	**249,00**
250	125	200	**311,00**
284	125	250	**336,00**
315	125	284	**384,00**
350	125	315	**654,00**
400	125	350	**750,00**
468	125	400	**1.198,00**
500	125	468	**1.287,00**
565	125	468	**1.880,00**
630	125	500	**2.040,00**
701	125	565	**2.216,00**
800	125	630	**2.535,00**
935	125	701	**3.153,00**
1000	125	800	**3.389,00**
1200	125	1000	**5.048,00**

FORMED FITTINGS M/M

For each side you need a coupler

CROSS

CODE 103C24

DN/OD mm	€
125	**128,00**
160	**147,00**
200	**167,00**
250	**222,00**
284	**294,00**
315	**314,00**

"FIRENZE" SIPHON TYPE 2 ISP. D 110

CODE 109C22

DN/OD mm	€
125	**442,00**
160	**474,00**
200	**585,00**
250	**610,00**
284	**574,00**
315	**762,00**
350	**874,00**
400	**963,00**
468	**1.130,00**
500	**1.236,00**
565	**2.163,00**
630	**2.350,00**

LINEAR INSPECTION D 110

CODE 106C24

DN/OD mm	€
125	**171,00**
160	**201,00**
200	**241,00**
250	**244,00**
284	**250,00**
315	**275,00**
350	**285,00**
400	**295,00**
468	**355,00**
500	**416,00**

90° FLANGED TEE

CODE 102C24A

DN/OD mm	€
125	**423,00**
160	**495,00**
200	**716,00**
250	**771,00**
284	**844,00**
315	**918,00**
350	**1.599,00**
400	**1.653,00**
468	**1.984,00**
500	**2.205,00**
565	**3.213,00**
630	**3.396,00**

OFF-CENTRE INCREASE M/M

CODE 107C2

DN/OD mm	D1 max	€
160	125	**120,00**
200	160	**128,00**
250	200	**185,00**
284	200	**221,00**
315	250	**266,00**
350	284	**340,00**
400	315	**368,00**
468	350	**465,00**
500	400	**495,00**
565	468	**699,00**
630	500	**831,00**
701	565	**1.103,00**
800	630	**1.249,00**
935	701	**1.423,00**
1000	800	**1.910,00**
1200	1000	**2.113,00**

OFF-CENTRE INCREASE F/F

With gaskets

CODE 108C2

DN/OD mm	D1 max	€
160	125	**162,00**
200	160	**183,00**
250	200	**231,00**
284	200	**297,00**
315	250	**344,00**
350	284	**533,00**
400	315	**555,00**
468	350	**687,00**
500	400	**717,00**
565	468	**879,00**
630	500	**1.092,00**
701	565	**1.423,00**
800	630	**1.598,00**
935	701	**2.221,00**
1000	800	**2.387,00**
1200	1000	**3.123,00**

MALE CAP

CODE 115C2

FEMALE CAP

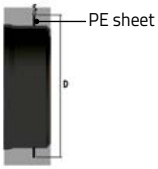
CODE 116C1

DN/OD mm	€	€
125	**96,00**	**93,00**
160	**118,00**	**113,00**
200	**124,00**	**117,00**
250	**153,00**	**139,00**
284	**264,00**	**240,00**
315	**295,00**	**252,00**
350	**406,00**	**260,00**
400	**356,00**	**274,00**
468	**536,00**	**313,00**
500	**477,00**	**352,00**
565	**831,00**	**561,00**
630	**1.053,00**	**767,00**
701	**1.403,00**	**924,00**
800	**1.481,00**	**1.084,00**
935	**1.823,00**	**1.264,00**
1000	**2.307,00**	**1.747,00**
1200	**2.797,00**	**1.999,00**

With gaskets

ANCHORING FITTINGS FOR CONCRETE MANHOLES

PUDDLE FLANGE F

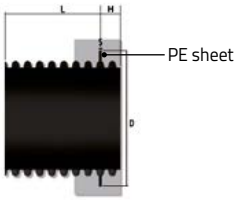


With gasket

CODE 118C10P

DN/OD mm	D mm	S mm	H mm	€
160	200	10	70	**160,80**
200	250	10	120	**201,60**
250	330	10	140	**271,20**
284	400	10	140	**422,40**
315	400	10	160	**378,00**
350	420	10	180	**426,00**
400	500	10	200	**400,80**
468	520	10	200	**718,80**
500	650	10	240	**733,20**
565	700	10	257	**1.498,80**
630	800	10	230	**1.357,20**
701	840	10	290	**1.544,40**
800	1000	10	260	**1.726,80**
935	1060	10	345	**2.202,00**
1000	1200	10	315	**3.103,20**
1200	1500	10	390	**3.511,20**

PUDDLE FLANGE M



CODE 118C100

DN/OD mm	D mm	S mm	H mm	L mm	€
160	200	10	50	400	**151,20**
200	250	10	50	400	**196,80**
250	330	10	50	400	**264,00**
284	400	10	50	500	**272,40**
315	400	10	80	500	**356,40**
350	420	10	80	500	**367,20**
400	500	10	80	500	**381,60**
468	520	10	80	500	**678,00**
500	650	10	80	600	**717,60**
565	700	10	80	600	**1099,20**
630	800	10	100	600	**1144,80**
701	840	10	100	600	**1233,60**
800	1000	10	100	600	**1327,20**
935	1060	10	100	700	**1603,20**
1000	1200	10	100	700	**2286,00**
1200	1500	10	100	700	**2638,80**

All fittings can be provided with inspections

D110	€ 100,00
D90	€ 90,00
D50	€ 71,00

FORMED FITTINGS M/M - HYDRO16

The junction packs (sleeve + gaskets) are not included in the price

30° BEND

CODE 101PP1

DN/OD mm	€
200	**107,00**
250	**125,00**
315	**174,00**
350	**286,00**
400	**325,00**
468	**433,00**
500	**527,00**
575	**684,00**
630	**950,00**
701	**1.393,00**
800	**1.715,00**
935	**2.317,00**
1000	**3.022,00**
1200	**4.167,00**

45° BEND

CODE 101PP2

DN/OD mm	€
200	**107,00**
250	**125,00**
315	**174,00**
350	**286,00**
400	**325,00**
468	**433,00**
500	**527,00**
575	**684,00**
630	**950,00**
701	**1.393,00**
800	**1.715,00**
935	**2.317,00**
1000	**3.022,00**
1200	**4.167,00**

60° BEND

CODE 101PP3

DN/OD mm	€
200	**189,00**
250	**210,00**
315	**286,00**
350	**461,00**
400	**522,00**
468	**735,00**
500	**815,00**
575	**1.296,00**
630	**1.539,00**
701	**2.605,00**
800	**2.975,00**
935	**3.937,00**
1000	**4.229,00**
1200	**6.366,00**

90° BEND

CODE 101PP4

DN/OD mm	€
200	**189,00**
250	**210,00**
315	**286,00**
350	**461,00**
400	**522,00**
468	**735,00**
500	**815,00**
575	**1.296,00**
630	**1.539,00**
701	**2.605,00**
800	**2.975,00**
935	**3.937,00**
1000	**4.229,00**
1200	**6.366,00**

90° TEE

CODE 102PP4N

DN/OD mm	€
200	**234,00**
250	**272,00**
315	**381,00**
350	**707,00**
400	**806,00**
468	**1.183,00**
500	**1.323,00**
575	**2.181,00**
630	**2.540,00**
701	**4.298,00**
800	**4.910,00**
935	**7.888,00**
1000	**8.477,00**

CROSS

CODE 103PP4

DN/OD mm	€
200	**258,00**
250	**340,00**
315	**475,00**

45° TEE

CODE 102PP2N

DN/OD mm	€
200	**279,00**
250	**362,00**
315	**541,00**

FORMED FITTINGS COR+

The junction packs (sleeve + gaskets) are not included in the price

For special connections, the CorPress connector also allows the joining of SPECIAL PIECES formed by smooth PE tubes, suitable for both PE (SN8) and PP (SN16) corrugated pipes.

PE STUB END WITH STEEL FLANGE

PE STUB END FOR FLANGED JOINT

TRANSITION MODULE FOR SMOOTH PE TUBES

END CAP

CORPRESS JOINT

Prices and availability on request.

For connections via CorPress with fittings formed from corrugated pipes, see range.

ECCENTRIC REDUCTION

T 90° NORMAL AND REDUCED

T 45° NORMAL AND REDUCED

30-45° ELBOW 2 SECTORS

60-90° CURVE 3 SECTORS

Recommended the use of the CorPress joining system in combination with special parts produced by Futura and pipes produced by ITALIANA CORRUGATI S.p.A., on which it has been sized and tested.

The possible use of CorPress on corrugated pipes produced by other companies, DOES NOT guarantee the performance declared in the technical specification.

For the completion of the system

Cor+ see also:

MOLDED MANHOLES p. 96
FORMED MANHOLES p. 126

PVC SEWERAGE FITTINGS

DESCRIPTION

PVC-U fittings for non-pressurized sewer systems, manufactured through moulding and/or dimensional forming in accordance with the UNI EN 1401 standard. All fittings are produced according to ISO 9001.

ADVANTAGES

> COST EFFECTIVENESS
> EASE OF INSTALLATION
> WIDE SIZES RANGE

CERTIFICATES

Standards / Certifications:
- UNI EN 1401

APPLICATIONS

RIGID PVC FITTINGS FOR SEWERAGE SYSTEMS

UNI EN 1401 standards

15° BEND WITH O-RING

Ø mm	€
110	3,98
125	5,85
160	9,84
200	18,08
250	46,36
315	92,71
400	220,07
500*	417,20
630*	997,33

30° BEND WITH O-RING

Ø mm	€
110	3,98
125	5,85
160	9,84
200	18,08
250	46,36
315	92,71
400	220,07
500*	417,20
630*	997,33

45° BEND WITH O-RING

Ø mm	€
110	4,03
125	5,57
160	9,69
200	17,75
250	46,36
315	92,71
400	220,07
500*	398,23
630*	1.047,19
710*	•
800*	•

67° BEND WITH O-RING

Ø mm	€
110	5,99
125	7,96
160	13,58
200	21,14

87° BEND WITH O-RING

Ø mm	€
110	5,01
125	7,30
160	12,74
200	24,26
250	57,12
315	103,01
400	332,44
500*	511,31
630*	1.101,28
710*	•
800*	•

45° BRANCH WITH O-RING

Ø mm	€
110	8,57
125	12,08
160	22,38
200	39,80
250	90,75
315	229,43
400*	407,36
500*	927,09
630*	2.013,39

87° - 45° REDUCING TEE WITH O-RING

Ø mm	€
125/110	13,96
160/110	18,64
160/125	19,58
200/110	34,18
200/125	34,18
200/160	35,12
250/110	92,71
250/125	92,71
250/160	92,71
250/200	96,46
315/110	105,82
315/125	105,82
315/160	105,82
315/200	195,72
315/250	195,72
400-(110/200)*	285,62
400-(250/315)*	422,34
500-(110-125)*	422,34
500-(160-200)*	458,40
500-(250/315)*	685,02
500-400*	803,48
630-(110/200)*	917,73
630-(250/400)*	1.258,60
630-500*	1.741,81

87° BRANCH WITH O-RING

Ø mm	€
110	8,57
125	12,08
160	22,38
200	39,80
250	90,75
315	229,43
400*	407,36
500*	927,09
630*	2.013,39

INSPECTION PIPE WITH CAP AND O-RING

Ø mm	€
110	17,70
125	23,50
160	41,68
200	60,40
250**	112,38
315**	177,93
400**	238,80
500**	416,72
630**	915,39
800**	•

*manufactured / **formed / • on demand

RIGID PVC FITTINGS FOR SEWERAGE SYSTEMS

UNI EN 1401 standards

DOUBLE SOCKET COUPLING WITHOUT CENTRAL STOP

Ø mm	€
110	**4,59**
125	**5,81**
160	**9,84**
200	**18,26**
250	**42,14**
315	**65,55**
400	**154,52**
500	**298,73**
630	**824,08**

DOUBLE SOCKET COUPLING WITH CENTRAL STOP

Ø mm	€
110	**5,81**
125	**5,99**
160	**11,15**
200	**22,38**

MALE SCREW CAP

Complete with gasket

Ø mm	€
110	**7,14**
125	**7,19**
160	**16,62**
200	**24,23**
250	**53,05**
315	**101,14**

MALE END CAP

Ø mm	€
110	**2,25**
125	**2,81**
160	**4,31**
200	**7,96**
250	**23,88**
315	**37,93**
400	**69,30**
500**	**200,87**
630**	**397,99**

"FIRENZE" SYPHON

Ø mm	€
110*	**29,03**
125*	**42,14**
160*	**63,87**
200*	**95,52**
250*	**276,26**
315*	**388,63**
400*	**842,81**
500*	**1.966,56**
630*	•

"FIRENZE" SYPHON WITH 2 CAPS

	Ø mm	€
by curves	110	**44,74**
	125	**53,38**
	160	**74,73**
	200	**135,79**
sections	250	**318,40**
	315	**499,60**
	400	**927,09**
	500	**2.317,73**
	630	•

ECCENTRIC ENLARGER COUPLING WITH O-RING

Ø mm	€
110/125	**5,15**
110/160	**8,90**
125/160	**8,90**
125/200	**24,35**
160/200	**24,35**
200/250	**36,52**
250/315	**78,66**
315/400	**101,28**

45° O-RING BEND WITH LATERAL INSPECTION

Ø mm	€
110*	**21,07**
125*	**23,41**
160*	**32,78**
200*	**59,00**
250*	**92,71**
315*	**154,52**
400*	**374,58**

87° O-RING BEND WITH LATERAL INSPECTION

Ø mm	€
110*	**22,48**
125*	**26,22**
160*	**35,59**
200*	**59,93**
250*	**97,39**
315*	**177,93**
400*	**552,51**

*manufactured / **formed / • on demand

45° AND 87° O-RING BEND WITH LATERAL INSP.

Ø mm	€
110*	25,76
125*	30,90
160*	42,14
200*	68,36
250*	163,88
315*	346,49
400*	580,60

ECCENTRIC O-RING REDUCTION

Ø mm	€
125/110	27,16
160/110	35,89
160/125	35,89
200/110	50,99
200/125	50,99
250/125	98,33
250/160	98,33
250/200	98,33
315/125	126,42
315/160	126,42
315/200	126,42
400/160	243,48
400/200	243,48
400/250	243,48
400/315	243,48
500/250	435,45
500/315	435,45
630/250	1.020,74
630/315	1.020,74
630/400	1.076,93
630/500	1.076,93

45° - 87° SADDLE COUPLING WITH O-RING

Ø mm	€
125/110	43,08
160/110...125	43,08
200/110...160	45,89
250/110...160	54,31
250/200	67,90
315/110...200	77,73
315/250	85,50
400/110...160	90,84
400/200	112,38
400/250	210,70
400/315	355,85
500/110...160	107,69
500/200	113,08
500/250...315	271,57
500/400	463,55
630/110...200	145,15
630/250...315	369,90
630/400...500	1.102,21

Eccentric o-ring reduction
on demand

*Manufactured

JOINTS AND BACKFLOW VALVES

DESCRIPTION

Reinforced sleeve with various diameters for the connection of gravity pipelines of any material made of EPDM elastomer rubber, provided with clamps and stainless steel band AISI 304.

Backflow valve and gates, inline or end line, which finds application in non-pressurized drainage pipelines, produced according to ISO 9001.

ADVANTAGES

> CUSTOMISED SOLUTIONS
> WIDE SIZES RANGE
> COMPATIBLE WITH DIFFERENT MATERIALS

CERTIFICATES

Standards / Certifications: various

APPLICATIONS

MULTI-DIAMETER JOINTS

click on the notch to access the section

For the choice of joint, the OD and type of tubes must be known.

RUBBER MSC UNIVERSAL JOINT

COD. 612SC

MOD.	Range		Difference between pipes	MAX Pressure	L	€	L	€
	min	max	mm	PN	mm		mm	
65	50	65	5	1,5	100	**88,00**	-	**-**
75	65	75	5	1,5	100	**92,00**	-	**-**
90	75	90	8	1,5	100	**104,00**	-	**-**
100	85	100	8	1,5	100	**104,00**	-	**-**
115	100	115	10	1,5	120	**156,00**	-	**-**
120	105	120	10	1,5	120	**156,00**	-	**-**
140	120	140	10	1,5	120	**156,00**	-	**-**
150	130	150	10	1,5	120	**172,00**	-	**-**
162	137	162	10	1,5	120	**172,00**	-	**-**
175	150	175	10	1,5	120	**200,00**	-	**-**
190	165	190	12	1,5	120	**240,00**	-	**-**
200	175	200	12	1,5	150	**240,00**	-	**-**
210	185	210	12	1,5	150	**240,00**	-	**-**
225	200	225	12	1,5	150	**240,00**	-	**-**
250	225	250	12	1,5	150	**280,00**	-	**-**
275	250	275	12	1,5	150	**280,00**	-	**-**
290	265	290	12	1,5	150	**360,00**	-	**-**
310	285	310	15	1,5	190	**440,00**	300	**640,00**
320	295	320	15	1,5	190	**460,00**	300	**660,00**
335	310	335	15	1,5	190	**480,00**	300	**680,00**
350	325	350	15	1,5	190	**500,00**	300	**700,00**
365	340	365	15	1,5	190	**520,00**	300	**720,00**
385	355	385	15	1,5	190	**540,00**	300	**760,00**
410	385	410	15	1,5	190	**560,00**	300	**800,00**
430	400	430	15	1,5	190	**580,00**	300	**820,00**
445	415	445	15	1,5	190	**600,00**	300	**840,00**
465	435	465	15	1,5	190	**620,00**	300	**880,00**
495	465	495	15	1,5	190	**640,00**	300	**920,00**
510	480	510	15	1,5	190	**660,00**	300	**940,00**
525	495	525	15	1,5	190	**680,00**	300	**960,00**
545	515	545	15	1,5	190	**700,00**	300	**1.000,00**
560	530	560	15	1,5	190	**720,00**	300	**1.020,00**
585	550	585	15	1,5	190	**760,00**	300	**1.040,00**
600	570	600	15	1,5	190	**780,00**	300	**1.060,00**
620	590	620	15	1,5	190	**800,00**	300	**1.080,00**
635	605	635	15	1	190	**840,00**	300	**1.120,00**
645	615	645	15	1	190	**840,00**	300	**1.120,00**
710	685	710	15	1	190	**1.280,00**	300	**1.760,00**
805	775	805	15	1	190	**1.440,00**	300	**2.000,00**
910	885	910	15	1	190	**1.640,00**	300	**2.280,00**
1010	985	1010	15	0,6	190	**1.800,00**	300	**2.440,00**
1115	1090	1115	15	0,6	190	**2.000,00**	300	**2.760,00**
1205	1180	1205	15	0,6	190	**2.200,00**	300	**3.200,00**
1310	1285	1310	15	0,6	190	**-**	300	**3.400,00**
1415	1390	1415	15	-	190	**-**	300	**3.600,00**
1505	1480	1505	15	-	190	**-**	300	**4.000,00**
1610	1585	1610	15	-	190	**-**	300	**4.400,00**
1715	1690	1715	15	-	190	**-**	300	**4.600,00**
1805	1780	1805	15	-	190	**-**	300	**4.800,00**
1910	1885	1910	15	-	190	**-**	300	**5.200,00**
2000	1975	2000	15	-	190	**-**	300	**5.600,00**

RUBBER MDC UNIVERSAL JOINT

COD. 612DC

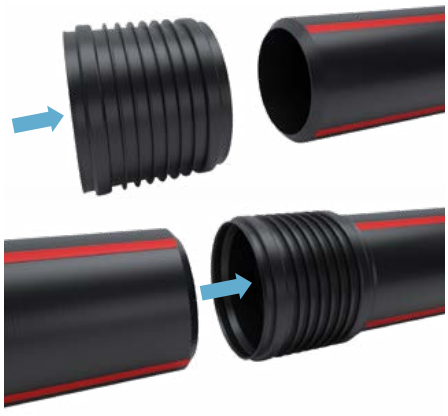
MOD.	Range		Difference between pipes	MAX Pressure	L	€
	min	max	mm	PN	mm	
32	24	32	5	0,6	64	**20,00**
40	32	40	5	0,6	64	**24,00**
50	42	50	5	0,6	64	**26,00**
65	50	65	5	0,6	100	**36,00**
75	65	75	5	0,6	100	**60,00**
90	75	90	8	0,6	100	**60,00**
100	85	100	8	0,6	100	**60,00**
115	100	115	10	0,6	120	**60,00**
120	105	120	10	0,6	120	**80,00**
140	120	140	10	0,6	120	**80,00**
150	130	150	10	0,6	120	**100,00**
162	137	162	10	0,6	120	**100,00**
175	150	175	10	0,6	120	**100,00**
190	165	190	10	0,6	120	**124,00**
200	175	200	12	0,6	150	**124,00**
210	185	210	12	0,6	150	**132,00**
225	200	225	12	0,6	150	**132,00**
250	225	250	12	0,6	150	**188,00**
275	250	275	12	0,6	150	**188,00**
290	265	290	15	0,6	150	**280,00**
310	285	310	15	0,6	190	**280,00**
320	295	320	15	0,6	190	**280,00**
335	310	335	15	0,6	190	**280,00**
350	325	350	15	0,6	190	**280,00**
365	340	365	15	0,6	190	**300,00**
385	355	385	15	0,6	190	**300,00**
410	385	410	15	0,6	190	**320,00**
430	400	490	15	0,6	190	**320,00**
445	415	445	15	0,6	190	**340,00**
465	435	465	15	0,6	190	**360,00**
490	460	490	15	0,6	190	**380,00**
510	480	510	15	0,6	190	**400,00**
525	495	525	15	0,6	190	**400,00**
545	515	545	15	0,6	190	**420,00**
550	525	550	15	0,6	190	**420,00**
560	530	560	15	0,6	190	**420,00**
570	545	570	15	0,6	190	**480,00**
585	560	585	15	0,6	190	**480,00**
600	570	600	15	0,6	190	**520,00**
620	590	620	15	0,6	190	**520,00**
635	605	635	15	0,6	190	**520,00**

CABLES PROTECTION JOINTS

INSTALLATION

Smooth the ends of the pipe

Lubrication of pipe and gaskets



System assembly

The CEI EN 60529 defines the various degrees of protection against solid objects and water.
The IP acronym represents the coding scheme of protecting degrees of a casing against the entrance in dangerous parts, the entrance of external solid bodies and/or the entrance of water.
Additional information are provided by two specific numbers (ex. IP68), where:
- The first number represents the protection degree provided against external solid bodies, which can go from 0 (minimum) to 6 (maximum);
- The second number represents the protection degree provided against water, which can go from 0 (minimum) to 6 (maximum).
According to the CEI EN 60529 standard, the protection degree IP68 has the following meaning:
- first specific number "6": complete protection against dust
- second specific number "8": protection against water immersion.

These characteristics are particularly useful when the cement mortar is contemplated on pipes, in order to avoid the entrance of liquid and solid bodies through the connection system.

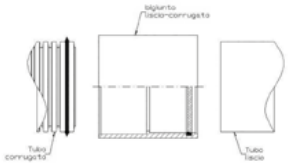
NRG CONNECTION SLEEVE

with EPDM gaskets pre-installed
Protection class IP66 and IP68 certified

DN	€/each
200	**56,00**
225	**60,00**
250	**67,00**

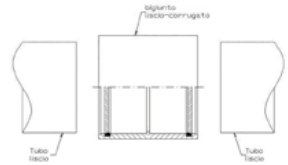
DISCHARGE JOINTS

click on the notch to access the section



ECCENTRIC DOUBLE JOINT FOR CONNECTING SMOOTH PE/PVC/PP PIPE WITH MAGNUM PIPE

CODE	DN/OD mm	€
220LC	110	**85,00**
220LC	125	**60,00**
220LC	160	**75,00**
220LC	200	**115,00**
220LC	250	**180,00**
220LC	315	**305,00**
220LC	400	**490,00**
220LC	500	**835,00**



DOUBLE JOINT FOR CONNECTING SMOOTH PE/PVC/PP PIPE

CODE	DN/OD mm	€
220LL	110	**35,00**
220LL	125	**35,00**
220LL	140	**45,00**
220LL	160	**45,00**
220LL	180	**60,00**
220LL	200	**70,00**
220LL	225	**100,00**
220LL	250	**120,00**
220LL	280	**165,00**
220LL	315	**200,00**
220LL	355	**335,00**
220LL	400	**410,00**
220LL	450	**550,00**
220LL	500	**675,00**
220LL	560	**905,00**
220LL	630	**1.120,00**
220LL	710	**1.355,00**
220LL	800	**2.350,00**

PE/PVC DOUBLE JOINT

Ø mm	€
160	**51,00**
200	**56,00**
225	**60,00**
250	**67,00**

PE/PVC SIPHON

Ø mm	€
160	**178,20**
200	**-**
225	**-**
250	**-**

90° PE/PVC ELBOW FF

Ø mm	€
160	**145,20**
200	**-**
225	**-**
250	**-**

PE/PVC SINGLE JOINT

Ø mm	€
160	**50,16**
200	**68,64**
225	**-**
250	**118,80**

45° PE/PVC ELBOW FF

Ø mm	€
160	**112,20**
200	**-**
225	**-**
250	**-**

BACKFLOW VALVE

CLAPET PE FLAT VALVE

Ø mm	€
100	**324,00**
125	**372,00**
150	**428,00**
200	**475,00**
250	**687,00**
300	**817,00**
400	**1.037,00**
500	**1.272,00**
600	**2.975,00**
700	**3.356,00**
800	**4.120,00**
900	**4.695,00**
1000	**5.411,00**
1100	**5.952,00**
1200	**8.332,00**

INCLINED CLAPET PE VALVE

Ø mm	€
110	**398,00**
125	**400,00**
140	**508,00**
160	**513,00**
180	**578,00**
200	**600,00**
225	**825,00**
250	**840,00**
280	**1.001,00**
315	**1.068,00**
355	**1.343,00**
400	**1.398,00**
450	**1.853,00**
500	**2.030,00**
560	**2.192,00**
630	**3.911,00**
710	**4.468,00**
800	**5.523,00**
900	**6.711,00**
1000	**7.866,00**
1100	•
1200	•

• on demand

DIAPHRAGM VALVE

Ø mm	€
100	**3.840,00**
125	**4.160,00**
150	**4.480,00**
200	**6.400,00**
250	**7.680,00**
300	**9.600,00**
350	**11.840,00**
400	**13.120,00**
450	**18.880,00**
500	**20.800,00**
600	**30.400,00**
700	**38.400,00**
800	**46.400,00**
900	**55.040,00**
1000	**60.800,00**
1100	**76.800,00**
1200	**86.400,00**
1300	**99.200,00**
1400	**115.200,00**
1500	**140.800,00**
1600	**182.400,00**

MANUAL GUILLOTINE VALVE WITH HANDWHEEL

Ø mm	€
50	**960,00**
65	**976,00**
80	**992,00**
100	**1.056,00**
125	**1.280,00**
150	**1.376,00**
200	**2.080,00**
250	**2.816,00**
300	**3.712,00**
350	**5.472,00**
400	**6.848,00**
450	**8.384,00**
500	**10.560,00**

STAINLESS STEEL CIRCULAR SLUICE GATE

Ø mm	€
150	**6.048,00**
200	**6.112,00**
250	**6.560,00**
300	**7.264,00**
400	**9.344,00**
500	**11.232,00**
600	**11.920,00**
700	**19.968,00**
800	**21.760,00**
900	**28.800,00**
1000	**30.080,00**
1200	**32.960,00**

STAINLESS STEEL SQUARE SLUICE GATE

Ø mm	€
150	**4.544,00**
200	**4.896,00**
250	**5.088,00**
300	**5.376,00**
400	**6.560,00**
500	**7.360,00**
600	**8.160,00**
700	**11.360,00**
800	**12.480,00**
900	**17.920,00**
1000	**18.240,00**
1200	**21.120,00**

PVC CLAPET VALVE F/M

Ø mm	€
110	**186,00**
125	**186,00**
160	**225,00**
200	**261,00**
250	**405,00**
315	**554,00**
400	**962,00**
500	**1.403,00**
630	**2.697,00**

PE/PVC BACKFLOW VALVE

Ø mm	€
50	**126,00**
75	**166,00**
110	**268,00**
125	**333,00**
160	**383,00**
200	**678,00**
250	**792,00**
315	**1.196,00**
400	-
500	-
630	-

PVC PLATED BACKFLOW VALVE

Ø mm	PVC €	INOX €
110	-	-
125	-	-
160	-	-
200	**387,00**	**639,00**
250	**657,00**	**971,00**
315	**864,00**	**1.349,00**
400	**1.214,00**	**1.834,00**
500	**1.906,00**	-
630	**5.359,00**	-

MULTI BACKFLOW VALVE

Ø mm	€
250	**5.440,00**
315	**6.240,00**
400	**8.800,00**
500	**9.920,00**

POLYESTER CLAPET VALVE MULTI N

Ø mm	€
200	**1.504,00**
250	**1.952,00**
300	**2.176,00**
400	**2.880,00**
500	**4.160,00**
600	**4.800,00**

FLANGED POLYESTER CLAPET VALVE MULTI NB FOR VERTICAL WALL CONNECTION

Ø mm	€
200	**1.312,00**
250	**1.952,00**
300	**2.176,00**
400	**2.880,00**
500	**4.160,00**
600	**4.800,00**
800	**10.240,00**
1000	**13.120,00**
1200	**22.400,00**
1400	**28.800,00**
1500	**31.360,00**

Other types of valves and floodgates
on demand

INSPECTION TEE

DESCRIPTION

Inspection tee corrugated pipe Magnum type for non-pressurized underground pipelines created through rotational moulding technology with linear polyethylene 100% pure with dimensionals according to the UNI EN 13476 and UNI EN 13598 standards. All fittings are produced in accordance with ISO 9001.

ADVANTAGES

> EASE OF INSTALLATION
> WIDE DIMENSIONAL RANGE
> SYSTEM UNIFORMITY
> CUSTOMISED SOLUTIONS

CERTIFICATES

Standards / Certifications:
- UNI EN 13476
- UNI EN 13598

APPLICATIONS

TEE MAGNUM B FOR PIPE

Outlet	Inlet	Inspection DN/OD mm					
DN/OD mm	DN/OD mm	630	701	800	935	1000	1200
		€					
1200	1200	**5.355,00**	**5.355,00**	**5.355,00**	**5.355,00**	**5.355,00**	**5.355,00**
1000	1000	**3.448,00**	**3.448,00**	**3.448,00**	**3.448,00**	**3.448,00**	-
935	935	**2.872,00**	**2.872,00**	**2.872,00**	**2.872,00**	-	-
800	800	**2.110,00**	**2.110,00**	**2.110,00**	-	-	-
701	701	**1.535,00**	**1.535,00**	-	-	-	-
630	630	**1.263,00**	-	-	-	-	-
575	575	**1.263,00**	-	-	-	-	-
565	565	**1.263,00**	-	-	-	-	-
500	500	**1.263,00**	-	-	-	-	-
468	468	**1.263,00**	-	-	-	-	-
400	400	**1.263,00**	-	-	-	-	-
315	315	**1.263,00**	-	-	-	-	-

Gasket not included in the prices

GASKET FOR MAGNUM PIPE

CODE 218G6

DN/OD mm	€
630	**61,51**
701	**74,58**
800	**130,95**
935	**181,80**
1000	**202,37**
1200	**369,71**

* Gasket has to be positioned on the first corrugation of the pipe.

TEE MAGNUM M FOR MODULES

Outlet	Inlet	Inspection DN/OD mm		
DN/OD mm	DN/OD mm	600	800	1000
			€	
1200	1200	**5.229,00**	**5.229,00**	**5.229,00**
1000	1000	**3.313,80**	**3.313,80**	**3.313,80**
935	935	**2.734,20**	**2.734,20**	**2.734,20**
800	800	**1.953,00**	**1.953,00**	**-**
701	701	**1.373,40**	**1.373,40**	**-**

Gasket not included in the prices

GASKET FOR MANHOLE MODULES

CODE 218G3

DN/OD mm	€
500	**43,00**
600	**48,00**
800	**73,00**
1000	**76,00**

* Gasket has to be positioned on the first corrugation of the pipe.

click on the notch to access the section

notes

PE MOULDED MANHOLES

DESCRIPTION

Manholes for non-pressurized underground sewerage pipelines manufactured through rotational moulding technology with linear polyethylene 100% pure with sizes according to the UNI 13598 standard. They are produced in accordance with ISO 9001.

ADVANTAGES

> EASE OF INSTALLATION
> WIDE SIZES RANGE
> SYSTEM UNIFORMITY
> CUSTOMISED SOLUTIONS

CERTIFICATES

Standards / Certifications:

- UNI EN 13476
- **UNI EN 13598-1**
- **UNI EN 13598-2**
- UNI EN 13067

APPLICATIONS

MANHOLE EXTENSION

WITH **MOULDED** FORMS

WITH **MAGNUM** FORMS

IN-LINE MANHOLE

VERTEX MANHOLE

INTERSECTION MANHOLE

JUMP MANHOLE

DECELARATION MANHOLE

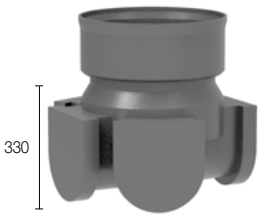
see p. 118

DN 400

BASE DN 400 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	200	200	500	PC0400B0000001	**272,00**
Ø max outlets OUT	1	200	200	750	PC0400B0000002	**347,00**
				1000	PC0400B0000003	**371,00**
				1250	PC0400B0000004	**396,00**
				1500	PC0400B0000005	**454,00**

SOCKET BASE DN 400 WITH 3 INLETS USEFUL H 330 MM - TOTAL H 500 MM



	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	200	200	500	PC0400B0000009	**260,00**
Ø max outlets OUT	1	200	200			

GASKET FOR MAGNUM PIPE OD 400

CODE	€
218G60000007	**15,79**

DN 500

BASE DN 500 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	250	250	500	PC0500B0000002	**438,00**
Ø max outlets OUT	1	250	250	750	PC0500B0000009	**445,00**
				1000	PC0500B0000004	**661,00**
				1250	PC0500B0000007	**710,00**
				1500	PC0500B0000008	**973,00**

EXTENSION DN 500

H	CODE	€
250	PC0500P0000003	**331,00**
500	PC0500P0000004	**413,00**
1000	PC0500P0000001	**445,00**

GASKET

CODE	€
218G30000006	**43,00**

WELDING

€
85,00

SOCKET BASE DN 500 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	250	250	800	PC0500B0000010	**504,00**
Ø max outlets OUT	1	250	250			

GASKET FOR MAGNUM PIPE OD 500

CODE	€
218G60000008	**28,27**

MANHOLE SR DN 500

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	-	200	200	1500	PC0500B0000015	**412,82**
Ø max outlets OUT	1	200	200	2000	PC0500B0000016	**494,40**

DN 600

IN-LINE BASE DN 600

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	400	315	500	PC0600B0000025	**825,00**
Ø max outlets OUT	1	400	315			

BASE DN 600 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	315	315	750	PC0600B0000008	**694,10**
Ø max outlets OUT	1	315	315	1000	PC0600B0000003	**816,50**
				1500	PC0600B0000005	**947,40**

SPHERICAL BASE DN 600

(Implementation on vortex manholes at page 114)

H	CODE	€
600	PC0600B1000003	**531,30**

EXTENSION DN 600

H	CODE	€
250	PC0600P0000002	**391,70**
500	PC0600P0000003	**465,20**
1000	PC0600P0000001	**694,10**

DN 600

GASKET

CODE	€
218G30000001	**48,00**

WELDING

€
122,40

IN-LINE SOCKETED BASE DN 600

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	400	315	920	PC0600B0000028	**614,00**
Ø max outlets OUT	1	400	315			

SOCKETED BASE DN 600 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	315	315	1000	PC0600B0000002	**743,00**
Ø max outlets OUT	1	315	315			

GASKET FOR MAGNUM PIPE OD 630

CODE	€
218G60000009	**61,51**

MANHOLE SR DN 600

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	-	200	200	1500	PC0600B0000045	**635,30**
Ø max outlets OUT	1	200	200	2000	PC0600B0000046	**816,50**

DN 800

CONCENTRIC CONE DN 800 X DN 625 REDUCED

H*	CODE	€
450	PC0800C0000009	**538,60**

*With possibility to cut 250 mm

CONCENTRIC CONE DN 800 X DN 625 REDUCED WHIT SCALE

H*	CODE	€
800	PC0800C0000006	**751,60**

*With possibility to cut 250 mm

EXTENSION DN 800 WHIT SCALE

H	CODE	€
250	PC0800P0000006	**685,50**
500	PC0800P0000004	**727,10**
1000	PC0800P0000002	**1.085,70**

GASKET

CODE	€
218G30000002	**73,00**

WELDING

€
164,02

IN-LINE BASE DN 800

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	400	400	500	PC0800B0000013	**825,00**
Ø max outlets OUT	1	400	400			

BASE DN 800 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	400	400	800	PC0800B0000008	**898,50**
Ø max outlets OUT	1	500	500			

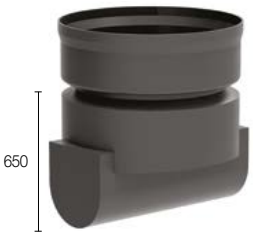
DN 800

DN 800 TO 600 REDUCED BASE WITH 3 SCALED INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	400	400	1000	PC0600B0000001	**979,20**
Ø max outlets OUT	1	500	500	1400	PC0600B0000014	**1.159,20**

SPHERICAL BASE DN 800 (Implementation on vortex manholes at page 114)

H	CODE	€
450	PC0800B1000004	**384,40**



IN-LINE SOCKET BASE DN 800

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	400	400	900	PC0800B0000019	**697,70**
Ø max outlets OUT	1	400	400			

SOCKETED BASE DN 800 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	400	400	950	PC0800B0000010	**942,50**
Ø max outlets OUT	1	500	500			

GASKET FOR MAGNUM PIPE OD 800

CODE	€
218G60000010	**130,95**

SOCKETED REDUCING CONE DN 800 X CONCENTRIC DN 625

H*	CODE	€
650	PC0800C0000008	**538,60**

*With possibility to cut 250 mm

MONOBLOCK

click on the notch to access the section

DN 800 MONOBLOCK

DN 800 MONOBLOCK MANHOLE WITH IN-LINEA / EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H*	€
Ø max inlets IN	1	400	400	1.300	**1.740,62**
Ø max outlets OUT	1	400	400	1.450	**2.418,73**
				1.800	**2.631,73**
				1.950	**2.777,33**
				2.300	**2.990,33**
				2.450	**3.692,95**
				2.800	**3.881,45**
				2.950	**4.027,05**
				3.300	**4.240,05**
				2.450	**4.918,16**
				3.800	**5.131,16**
				3.950	**5.276,76**
				4.300	**5.489,76**
				4.450	**6.167,88**
				4.800	**6.380,88**
				4.950	**6.526,48**
				5.300	**6.739,48**

DN 800 MONOBLOCK MANHOLE WHIT 3 INLETS BASE / EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H*	€
Ø max inlets IN	1	400	400	1.600	**1.814,12**
Ø max outlets OUT	1	500	500	1.750	**2.852,13**
				2.100	**2.705,23**
				2.250	**3.210,73**
				2.600	**3.063,83**
				2.750	**4.101,85**
				3.100	**3.954,95**
				3.250	**4.460,45**
				3.600	**4.313,55**
				3.750	**5.351,56**
				4.100	**5.204,66**
				4.250	**5.710,16**
				4.600	**5.563,26**
				4.750	**6.601,28**
				5.100	**6.454,38**

DECELERATION MONOBLOCK MANHOLE DN 800 / EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H*	€
Ø max inlets IN	1	400	400	1.250	**1.300,02**
Ø max outlets OUT	1	400	400	1.750	**2.191,13**
				2.250	**2.549,73**
				2.750	**3.440,85**
				3.250	**3.799,45**
				3.750	**4.690,56**
				4.250	**5.049,16**
				4.750	**5.940,28**
				5.250	**6.298,88**

*With possibility to cut 250 mm

DN 1000

IN-LINE BASE DN 1000 SMALL DIAMETERS

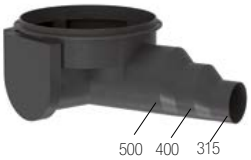
	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	500	400	600	PC1000B0000088	**898,50**
Ø max outlets OUT	1	500	400			

IN-LINE BASE DN 1000 LARGE DIAMETERS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	800	630	800	PC1000B0000089	**930,30**
Ø max outlets OUT	1	800	630			

BASE DN 1200 TO 1000 REDUCED

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	800	800	1300	PC1000B0000018	**1.388,10**
Ø max outlets OUT	1	800	800			



BASE DN 1000 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	500	500	650	PC1000B0000066	**1.322,00**
Ø max outlets OUT	1	500	500			

BASE DN 1000 WITH 5 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	5	315	315	500	PC1000B0000076	**1.183,70**
Ø max outlets OUT	1	315	315			

SPHERICAL BASE DN 1000 (Implementation on vortex manholes at page 114)

H	CODE	€
550	PC1000B1000016	**800,50**

REDUCING CONE DN 1000 X DN 625 ECCENTRIC

H*	CODE	€
650	PC1000C0000016	**783,40**

*With possibility to cut 300 mm

REDUCING CONE DN 1000 X DN 625 ECCENTRIC WHIT SCALE

H*	CODE	€
900	PC1000C0000020	**930,30**

*With possibility to cut 300 mm

EXTENSION DN 1000 WHIT SCALE

H	CODE	€
250	PC1000P0000014	**812,80**
500	PC1000P0000017	**979,20**
1000	PC1000P0000011	**1.404,00**

GASKET

CODE	€
218G30000003	**76,00**

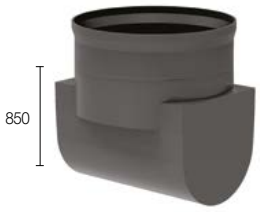
WELDING

€
244,80

DN 1000

IN-LINE SOCKETED BASE DN 1000 SMALL DIAMETERS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	500	400	930	PC1000B0000405	**1.028,20**
Ø max outlets OUT	1	500	400			



IN-LINE SOCKETED BASE DN 1000 LARGE DIAMETERS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	800	630	1130	PC1000B0000406	**1.175,10**
Ø max outlets OUT	1	800	630			

SOCKET BASE DN 1000 WITH 3 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	3	500	500	970	PC1000B0000043	**1.566,80**
Ø max outlets OUT	1	500	500			

SOCKET BASE DN 1000 WITH 5 INLETS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	5	315	315	830	PC1000B0000056	**1.468,80**
Ø max outlets OUT	1	315	315			

GASKET FOR MAGNUM PIPE OD 1000

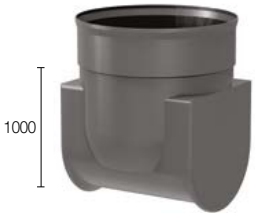
CODE	€
218G60000011	**202,37**

SOCKETED REDUCING CONE DN 1000 X CONCENTRIC DN 625

H*	CODE	€
700	PS1000C0000001	**571,70**

* With possibility to cut 300 mm

DN 1200



IN-LINE SOCKET BASE DN 1200

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max inlets IN	1	800	800	1330	PC1200B0000003	**1.652,40**
Ø max outlets OUT	1	800	800			

GASKET FOR MAGNUM PIPE MAGNUM OD 1200

CODE	€
218G60000012	**369,71**

SOCKETED REDUCING CONE DN 1200 X DN 625 ECCENTRIC

H*	CODE	€
650	PS1200C0000001	**673,20**

* With possibility to cut 300 mm

MONOBLOCK

DN 1000 MONOBLOCK

DN 1000 MONOBLOCK MANHOLE WITH IN-LINEA BASE (OD MAX 500)

EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	€
Ø max inlets IN	1	500	400	1250	**1.926,70**
Ø max outlets OUT	1	500	400	1500	**2.073,60**
				1750	**3.150,70**
				2000	**3.297,60**
				2250	**3.575,50**
				2500	**3.722,40**
				2750	**4.799,50**
				3000	**4.946,40**
				3250	**5.224,30**
				3500	**5.371,20**
				3750	**6.448,30**
				4000	**6.595,20**
				4250	**6.873,10**
				4500	**7.020,00**
				4750	**8.097,10**
				5000	**8.244,00**
				5250	**8.521,90**

DN 1000 MONOBLOCK MANHOLE WITH IN-LINEA BASE (OD MAX 800)

EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	€
Ø max inlets IN	1	800	630	1450	**1.958,50**
Ø max outlets OUT	1	800	630	1700	**2.105,40**
				1950	**3.182,50**
				2200	**3.329,40**
				2450	**3.607,30**
				2700	**3.754,20**
				2950	**4.831,30**
				3200	**4.978,20**
				3450	**5.256,10**
				3700	**5.403,00**
				3950	**6.480,10**
				4200	**6.627,00**
				4450	**6.904,90**
				4700	**7.051,80**
				4950	**8.128,90**
				5200	**8.275,80**

DN 1000 MONOBLOCK MANHOLE WITH 3 INLETS BASE

EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	€
Ø max inlets IN	1	500	500	1300	**2.350,20**
Ø max outlets OUT	1	500	500	1550	**2.497,10**
				1800	**3.574,20**
				2050	**3.721,10**
				2300	**3.999,00**
				2550	**4.145,90**
				2800	**5.223,00**
				3050	**5.369,90**
				3300	**5.647,80**
				3550	**5.794,70**
				3800	**6.871,80**
				4050	**7.018,70**
				4300	**7.296,60**
				4550	**7.443,50**
				4800	**8.520,60**
				5050	**8.667,50**
				5300	**8.945,40**

DN 1000 MONOBLOCK MANHOLE WITH 5 INLETS BASE

EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	€
Ø max inlets IN	1	315	315	1150	**2.211,90**
Ø max outlets OUT	1	315	315	1400	**2.358,80**
				1650	**3.435,90**
				1900	**3.582,80**
				2150	**3.860,70**
				2400	**4.007,60**
				2650	**5.084,70**
				2900	**5.231,60**
				3150	**5.509,50**
				3400	**5.656,40**
				3650	**6.733,50**
				3900	**6.880,40**
				4150	**7.158,30**
				4400	**7.305,20**
				4650	**8.382,30**
				4900	**8.529,20**
				5150	**8.807,10**

DN 1000 MONOBLOCK

DECELERATION MONOBLOCK MANHOLE DN 1000 / EXCLUDING DERIVATIONS

	n.	MAGNUM DN/OD	PE/PVC/PP	H	€
Ø max inlets IN	1	630	630	1200	**1.828,70**
Ø max outlets OUT	1	630	630	1450	**1.975,60**
				1700	**3.052,70**
				1950	**3.199,60**
				2200	**3.477,50**
				2450	**3.624,40**
				2700	**4.701,50**
				2950	**4.848,40**
				3200	**5.126,30**
				3450	**5.273,20**
				3700	**6.350,30**
				3950	**6.497,20**
				4200	**6.775,10**
				4450	**6.922,00**
				4700	**7.999,10**
				4950	**8.146,00**
				5200	**8.423,90**

DN 1200 MONOBLOCK

	n.	MAGNUM DN/OD	PE/PVC/PP		H	€
Ø max inlets IN	3	1000	800	Base DN1200 with 3 inlets	1570	**4.076,00**
Ø max outlets OUT	1	1000	800			
				Extension DN1200 with scale	250	**3.292,60**
					500	
					1000	
					1500	
				Cone DN1200 x DN625 reduced	1100	**2.148,20**

GASKET

€
192,00

WELDING

€
401,50

PE MANHOLE

PLASTIKO GULLY POT

H	CODE	€
500	PC0400B0000015	**268,00**

DN 500 GULLY POT

	n.	MAGNUM DN/OD	PE/PVC/PP	H	CODE	€
Ø max outlets OUT	1	200	200	500	PC0500B0000001	**425,00**

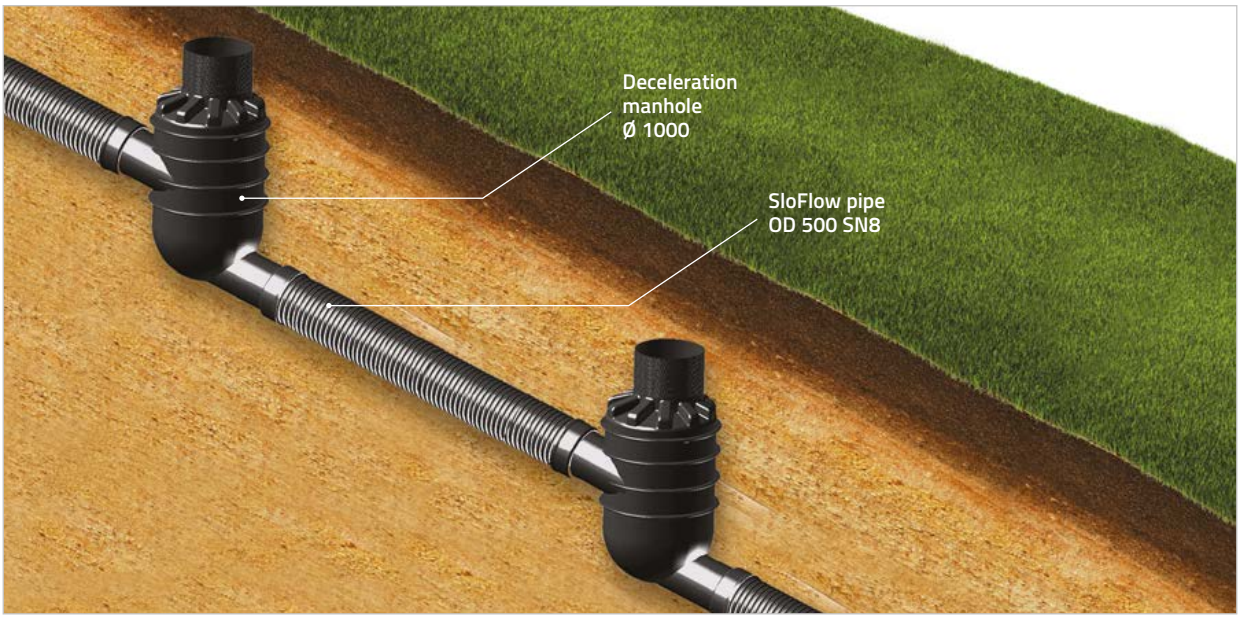
400 X 400 GULLY POT, DE200 MAGNUM 45° EXIT

H	CODE	€
200	PS0400MD000225	**162,00**

VORTEX MANHOLE

SPHERICAL BASE MANHOLES

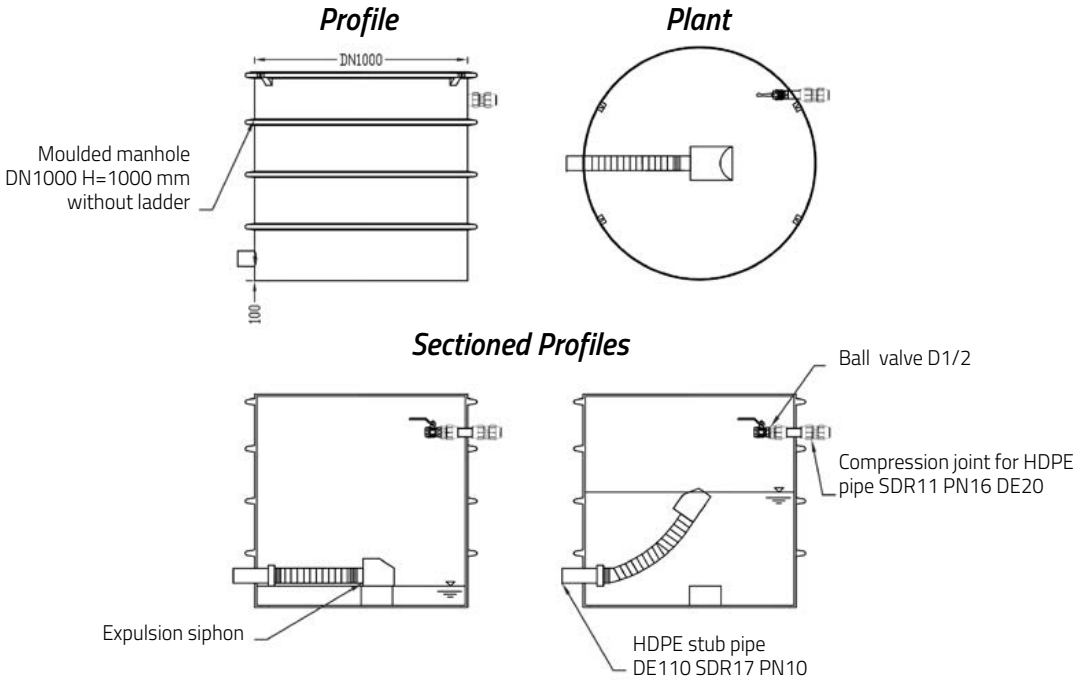
Vortex manholes allow to reduce the sliding proportion of network and maintain the flow speed of liquids.
Unlike the systems that exploit the flow leaps of water inside the manhole to reduce the sliding proportion in the network and slow down the flow speed, the vortex manholes do the same work, but maintain flow speed entrance.
For these systems the semi-spherical bases become useful and convenient, because they allow the flow to generate a self-cleaning system of the manhole's base, plus, the avoidance of risks of hydraulic crisis because of recovery pipeline coverage due to potential backflow events for speed differences of arrival to the base (plate) and of restart at low speed.
Vortex manholes are also particularly effective in case of strong inclination of laying combined with pipelines able to reduce the flow speed.



WASHING MANHOLE

HOW IT WORKS

The device consists of a floating tank, with a patented geometry, connected to a flexible pipe which releases the water coming from the storage tank inside the sewerage pipeline, with a continous and adjustable sequence. The feeding of the storage tank with water coming from outer sources (tap) rises the floating tank that falls back to the bottom once the floating altitude is reach. The flexible pipe, that is connected to the drain, empties the storage tank, restores the starting floating situation of the tank and initiates the following cycle.



PRICE LIST

Description	Dimension H	Drain capacity l/s	Drain Volume litri	Derivations	€/each.
Washing manhole DN1000	1000 mm	8	300	**on request**	**on request**
		11	420		
		22	500		

Scan me for complete specifications.

DERIVATIONS

DESCRIPTION

Polyethylene socket for connection of corrugated or smooth pipe which find application in non-pressurized drain systems and for HDPE stub pipes for connection of pressurized systems.
Sockets are produced with sizes in accordance with the UNI EN 13476 - UNI EN 1401 standards. All fittings are made according to ISO 9001.

ADVANTAGES

> EASE OF INSTALLATION
> WIDE SIZES RAGE
> SYSTEM UNIFORMITY
> CUSTOMISED SOLUTIONS

CERTIFICATES

Standards / Certifications:
- UNI EN 13476
- UNI EN 13598
- UNI EN 1401
- UNI EN 12201
- UNI EN 13067

APPLICATIONS

DERIVATIONS FOR MAGNUM PIPE

CODE 218G4 + 219CC O 219CP

Kit (socket + gasket)

CODE 218G9

Off-take gasket on manhole

CODE 220LC

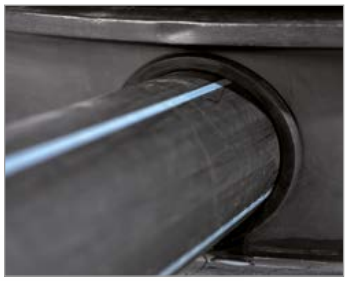
Double socket joint

Welded socket

CorPress

DERIVATIONS FOR SMOOTH PE PIPE

Welded socket



CODE 218G4
Gasket

Welded smooth stub pipe

CODE 218G4
Gasket

Smooth stub PE pipe

DERIVATIONS FOR PVC PIPE

CODE 218G4
Gasket

Welded socket

Smooth stub PE pipe

CODE 218G4
Gasket

WELDED SOCKET FOR MAGNUM PIPE WITH GASKET

DN/OD mm	In-line manhole	Jump manhole	Concerning the deceleration
	€		
125	**105,00**	**135,00**	**205,00**
160	**70,00**	**105,00**	**175,00**
200	**90,00**	**150,00**	**205,00**
250	**110,00**	**190,00**	**265,00**
284	**230,00**	**345,00**	**440,00**
315	**150,00**	**265,00**	**365,00**
350	**175,00**	**330,00**	**465,00**
400	**200,00**	**355,00**	**525,00**
468	**195,00**	**430,00**	**680,00**
500	**215,00**	**495,00**	**690,00**
565	**480,00**	**900,00**	**1.445,00**
575	**295,00**	**715,00**	**1.265,00**
630	**320,00**	**750,00**	**1.320,00**
701	**550,00**	**1.175,00**	**-**
800	**710,00**	**1.510,00**	**-**

WELDED SOCKET FOR SMOOTH PE/PVC/PP PIPE WITH GASKET

DN/OD mm	In-line manhole	Jump manhole	Concerning the deceleration
	€		
110	**95,00**	**110,00**	**145,00**
125	**105,00**	**120,00**	**155,00**
140	**100,00**	**120,00**	**150,00**
160	**125,00**	**140,00**	**175,00**
180	**120,00**	**155,00**	**190,00**
200	**180,00**	**215,00**	**250,00**
225	**120,00**	**155,00**	**190,00**
250	**270,00**	**305,00**	**345,00**
280	**215,00**	**265,00**	**285,00**
315	**260,00**	**310,00**	**345,00**
355	**360,00**	**410,00**	**445,00**
400	**435,00**	**490,00**	**525,00**
450	**520,00**	**590,00**	**610,00**
500	**620,00**	**695,00**	**730,00**
560	**860,00**	**935,00**	**970,00**
630	**1.050,00**	**1.140,00**	**1.195,00**
710	**-**	**-**	**-**
800	**-**	**-**	**-**

PE STUB PIPE SDR 17 FOR PE SMOOTH PIPES PP/PVC

DN/OD mm	In-line manhole	Jump manhole	Concerning the deceleration
		€	
110	**70,00**	**90,00**	**140,00**
125	**70,00**	**90,00**	**140,00**
140	**70,00**	**95,00**	**150,00**
160	**75,00**	**100,00**	**160,00**
180	**100,00**	**140,00**	**210,00**
200	**105,00**	**150,00**	**225,00**
225	**115,00**	**160,00**	**245,00**
250	**140,00**	**190,00**	**290,00**
280	**150,00**	**220,00**	**310,00**
315	**180,00**	**255,00**	**390,00**
355	**245,00**	**350,00**	**510,00**
400	**300,00**	**415,00**	**610,00**
450	**340,00**	**490,00**	**710,00**
500	**395,00**	**565,00**	**850,00**
560	**475,00**	**670,00**	**1.020,00**
630	**670,00**	**915,00**	**1.365,00**
710	-	-	-
800	-	-	-
900	-	-	-

JUNCTION

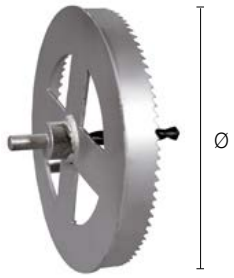
on demand

PIPES RANGE

DN/OD [mm]

160	**315**	**630**
200	**400**	**800**
250	**500**	

HOLLOW CUTTER FOR MANHOLE



CODE	DN/OD mm	Ø	€
221FP	110	121	**189,00**
221FP	125	140	**287,00**
221FP	160	174	**265,00**
221FP	200	208	**265,00**
221FP	250	262	**294,00**
221FP	315	328	**294,00**
221FP	400	410	**346,00**

OFF-TAKE GASKET ON MANHOLE FOR SMOOTH PE/PVC/PP AND MAGNUM SOCKET

CODE	DN/OD mm	€
218G4	110	**18,00**
218G4	125	**18,00**
218G4	160	**19,00**
218G4	200	**26,00**
218G4	250	**29,00**
218G4	315	**32,00**
218G4	400	**37,00**

SOCKET FOR MAGNUM PIPE

CODE	DN/OD mm	€	
		MAGNUM	PE/PVC
219CC	110	**41,00**	**38,00**
219CC	125	**48,00**	**48,00**
219CP	160	**71,00**	**68,00**
219CP	200	**111,00**	**104,00**
219CP	250	**191,00**	**180,00**

OFF-TAKE GASKET ON MANHOLE FOR MAGNUM

CODE	DN/OD mm	€
218G9	160	**45,00**
218G9	200	**48,00**
218G9	250	**62,00**
218G9	315	**76,00**

With 1 gasket for PE/PVC/PP

OFF-CENTRE DOUBLE JOINT FOR CONNECTION OF PE PVC/PP PIPE WITH MAGNUM PIPE

CODE	DN/OD mm	€
220LC	110	**85,00**
220LC	125	**60,00**
220LC	160	**75,00**
220LC	200	**115,00**
220LC	250	**180,00**
220LC	315	**305,00**
220LC	400	**490,00**
220LC	500	**835,00**

ASSEMBLY INDICATIONS

Hollow cutter hole

Off-take system for the smooth PE/PVC/PP pipe

Off-take system for the smooth MAGNUM pipe

Off-take system for the smooth MAGNUM

ACCESSORIES

PAIR OF LIFTING HOOKS

€
176,40

SUPPORT LEG

€
270,90

PE COVER

CODE	€
PC0600C0000001	**453,60**

REMOVABLE COVER

CODE	Ø mm	S mm	€
DN 400	500	20	**201,60**
DN 600	700	20	**478,80**
DN 800	900	20	**693,00**
DN 1000	1100	20	**1.392,30**

FLANGED COVER WITH EPDM GASKET

CODE	Ø mm	S mm	€
DN 600	780	20	**2.318,40**
DN 800	1000	20	**2.734,20**
DN 1000	1250	20	**4.277,70**

OFF-TAKE SYSTEM ON MAGNUM PIPE

Hollow cutter hole

Off-take system with socket for MAGNUM

Off-take system with socket for the smooth PE/PVC/PP pipe

NB: To verify that the gasket joins perfectly to the inner wall

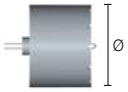
GASKET FOR OFF-TAKE ON MAGNUM

CODE 218G5

Off-take Ø	Main pipeline diameter Ø DN/OD mm / €														
	250	284	315	350	400	468	500	565	575	630	701	800	935	1000	1200
110	**42,00**	**34,00**	**34,00**	-	-	-	-	-	-	-	-	-	-	-	-
125	-	-	**53,00**	**53,00**	**53,00**	**53,00**	**53,00**	**53,00**	**53,00**	**54,00**	-	-	-	-	-
160	-	-	**38,00**	**41,00**	**41,00**	**50,00**	**50,00**	**50,00**	**50,00**	**51,00**	**57,00**	**66,00**	**72,00**	**74,00**	**79,00**
200	-	-	-	**41,00**	**49,00**	**67,00**	**67,00**	**67,00**	**67,00**	**67,00**	**123,00**	**181,00**	**182,00**	**171,00**	**175,00**
250	-	-	-	-	-	**74,00**	**74,00**	**74,00**	**75,00**	**91,00**	**123,00**	**181,00**	**182,00**	**171,00**	**175,00**

HOLLOW CUTTER FOR MAGNUM

CODE 221FT



DN/OD mm	Ø	€
110	125	**292,00**
125	145	**292,00**
160	177	**397,00**
200	210	**435,00**
250	267	**496,00**

SOCKET FOR SMOOTH PE PIPE/PVC/PP

CODE 219LC

DN/OD mm	€
110	**38,00**
125	**48,00**
160	**68,00**
200	**104,00**
250	**180,00**

With 1gasket for PE/PVC/PP code 218G2

SOCKET FOR MAGNUM

CODE 219CC

DN/OD mm	€
110	**41,00**
125	**48,00**
160	**71,00**
200	**111,00**
250	**191,00**

Without gasket

FORMED MANHOLES

CONNECTION TYPES

with **CORRUGATED** pipe

with **SMOOTH** PE pipe

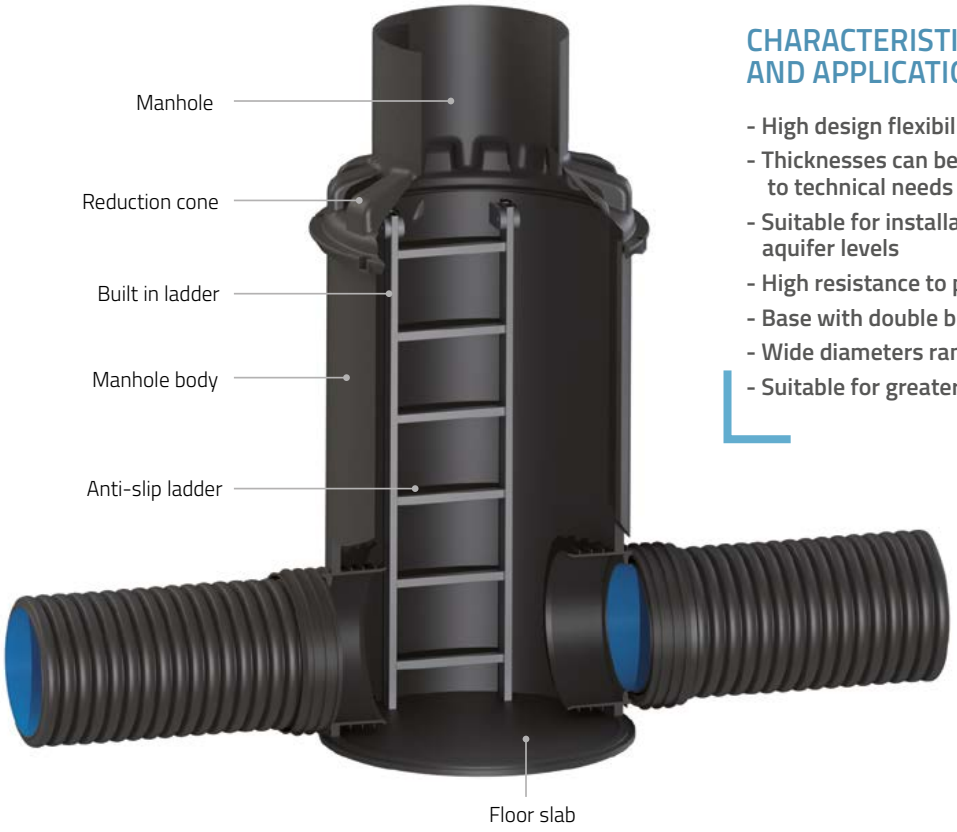
with **PVC** pipe

CERTIFICATES

Standards / Certifications:
- UNI EN 13067 CLASSE 3

APPLICATIONS

PE MANHOLE CONSISTING OF PIPES WITH COMPACT PROFILE



CHARACTERISTICS AND APPLICATIONS

- High design flexibility
- Thicknesses can be dimensioned according to technical needs
- Suitable for installation with toughest aquifer levels
- High resistance to point load
- Base with double bottom welded available
- Wide diameters range (up to ID 2500 mm)
- Suitable for greater depth installation

MANHOLE MADE OF SMOOTH PIPE

DN/OD mm	Smooth pipe SDR33 with aluminium ladder	Smooth pipe SDR26 with aluminium ladder	Smooth pipe SDR17 with aluminium ladder	Welded flat bottom (sp 20 mm)	Welded socket cone
			€/m		
630	•	•	•	•	•
800	**1.650,60**	**1.934,10**	**2.803,50**	**907,20**	**781,20**
900	**1.934,10**	**2.387,70**	**3.483,90**	**1.291,50**	**781,20**
1000	**2.425,50**	**2.885,40**	**4.252,50**	**1.291,50**	**976,50**
1200	**3.332,70**	**4.032,00**	**5.985,00**	**1.738,80**	**2.135,70**

• On demand

DERIVATIONS

DN/OD mm	Welded socket for corrugated pipe provided with gasket	DN/OD mm	Welded socket for PE smooth pipe /PVC/PP provided with gasket	PE stub pipe SDR 17 for PE smooth pipe/PVC/PP
	€		€	
125	**138,00**	110	**126,00**	**96,00**
160	**108,00**	125	**132,00**	**96,00**
200	**156,00**	140	**144,00**	**102,00**
250	**198,00**	160	**156,00**	**108,00**
284	**342,00**	180	**168,00**	**156,00**
315	**270,00**	200	**228,00**	**162,00**
350	**336,00**	225	**174,00**	**174,00**
400	**354,00**	250	**330,00**	**204,00**
468	**426,00**	280	**288,00**	**234,00**
500	**486,00**	315	**336,00**	**270,00**
565	**864,00**	355	**438,00**	**366,00**
575	**690,00**	400	**522,00**	**432,00**
630	**726,00**	450	**630,00**	**504,00**
701	**1.116,00**	500	**732,00**	**576,00**
800	**1.410,00**	560	**972,00**	**684,00**
		630	**1.182,00**	**924,00**

PE MANHOLE CONSISTING OF STRUCTURED PIPES CORRUGATED TYPE

CHARACTERISTICS AND APPLICATIONS

- Suitable for normal situations
- Lightweight and ease of transportation (manual too) and installation. For these they are preferred in laying situations with confined space
- Aquifer absent or 2 m maximum
- (UNI) EN 13598-1-2 and Product Quality mark
- Corrugated pipe with high ring stifness

MANHOLE CONSISTING OF CORRUGATED PIPE SN8

DN/OD mm	DN/ID mm	Corrugated pipe with aluminium ladder	Welded flat bottom (SP 20 mm)	Welded socket cone
		€/m		
630	535	•	•	•
701	600	•	•	•
800	678	**667,80**	**907,20**	**655,20**
935	800	**762,30**	**1.291,50**	**-**
1000	852	**825,30**	**1.291,50**	**837,90**
1200	1030	**1.058,40**	**1.738,80**	**1.033,20**

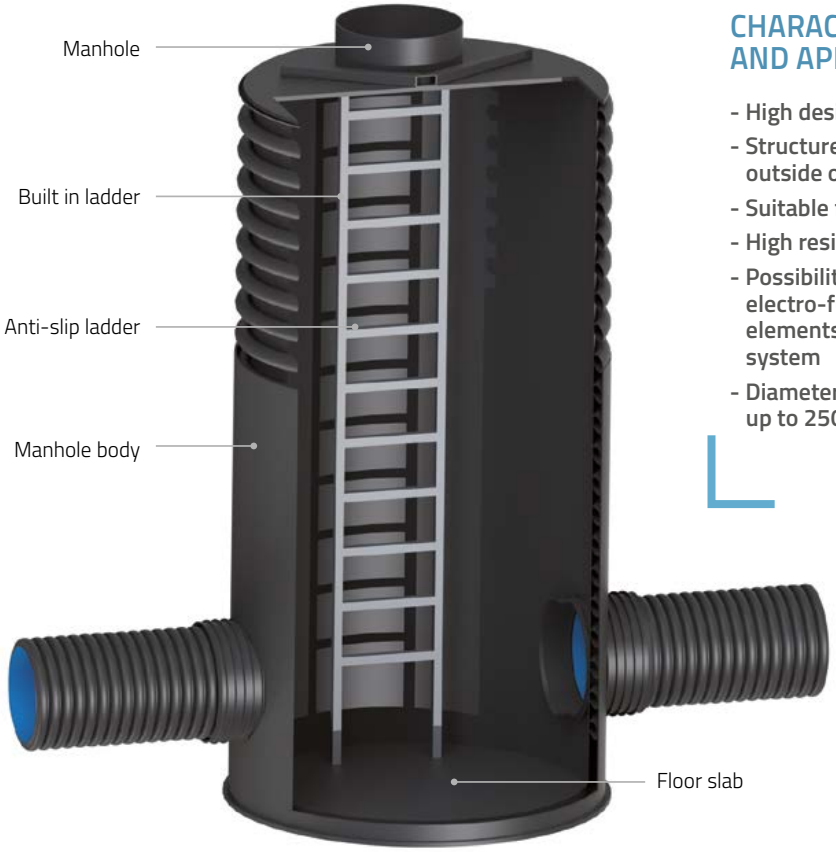
• a richiesta

DERIVATIONS

DN/OD mm	Welded socket for corrugated pipe provided with gasket
	€
125	**220,50**
160	**189,00**
200	**220,50**
250	**283,50**
284	**459,90**
315	**384,30**
350	**478,80**
400	**535,50**
468	**674,10**
500	**686,70**
565	**1.392,30**
575	**1.215,90**
630	**1.266,30**
701	**1.171,80**
800	**1.480,50**

DN/OD mm	Welded socket for PE smooth pipe/PVC/PP provided with gasket	PE stub pipe SDR 17 for PE smooth pipe/PVC/PP
	€	
110	**170,10**	**157,50**
125	**182,70**	**163,80**
140	**189,00**	**170,10**
160	**201,60**	**182,70**
180	**220,50**	**239,40**
200	**283,50**	**252,00**
225	**226,80**	**270,90**
250	**384,30**	**315,00**
280	**321,30**	**340,20**
315	**390,60**	**428,40**
355	**504,00**	**554,40**
400	**585,90**	**655,20**
450	**680,40**	**756,00**
500	**806,40**	**900,90**
560	**1.064,70**	**1.071,00**
630	**1.304,10**	**1.430,10**

PE MANHOLE CONSISTING OF STRUCTURED SPIRAL PIPES



CHARACTERISTICS AND APPLICATIONS

- High design flexibility
- Structured profiles (smooth on the outside or structured)
- Suitable for aquifer installation
- High resistance to load points
- Possibility to connect through the electro-fusion technology, the body's elements using the male and female system
- Diameters range from DN-ID 1000 up to 2500 mm

Made with SGK pipe

HDPE structured wall pipes spiraled type for underground sewerage networks.
The currently pipes have large diameters, are long-term, resistant to aggressive environments, easy and fast to install, resistant to the hydromechanical actions for the maintenance, have a wide range of possible solutions, are able to create completed systems, tailored, have a perfect tightness between the elements.

Diameters range

manhole body	in/out connections
1200	min 200 max 2500
1400	
1500	
1600	
1700	
1800	
2000	
2200	
2500	

Prices on demand

PE MANHOLES FOR HIGH WATER TABLE APPLICATIONS

DESCRIPTION

Manholes for gravity water pipeline, made with HDPE pipe OD ...SDR ...PE... according to UNI 12201 standard. The manhole's height will be ....mm. The manhole's base will have a flat bottom/dripping pan. The manhole is designed for the connection of PVC, PP and PE pipes, provided with inlet/outlet with a diameter of ....mm. All manhole pieces will be assembled through an extrusion welding adding a bead of exruded material, made by patented employers according to UNI EN 13067 CLASSE 3. The manhole will be provided by the company certified UNI EN ISO 9001.

ADVANTAGES

> EASY TO INSTALL
> WIDE SIZES RANGE
> SYSTEM UNIFORMITY
> CUSTOMISED SOLUTIONS
> HIGHER DURABILITY

CERTIFICATES

Standards / Certifications:
- UNI EN 13067 CLASSE 3

APPLICATIONS

Heavy Ring

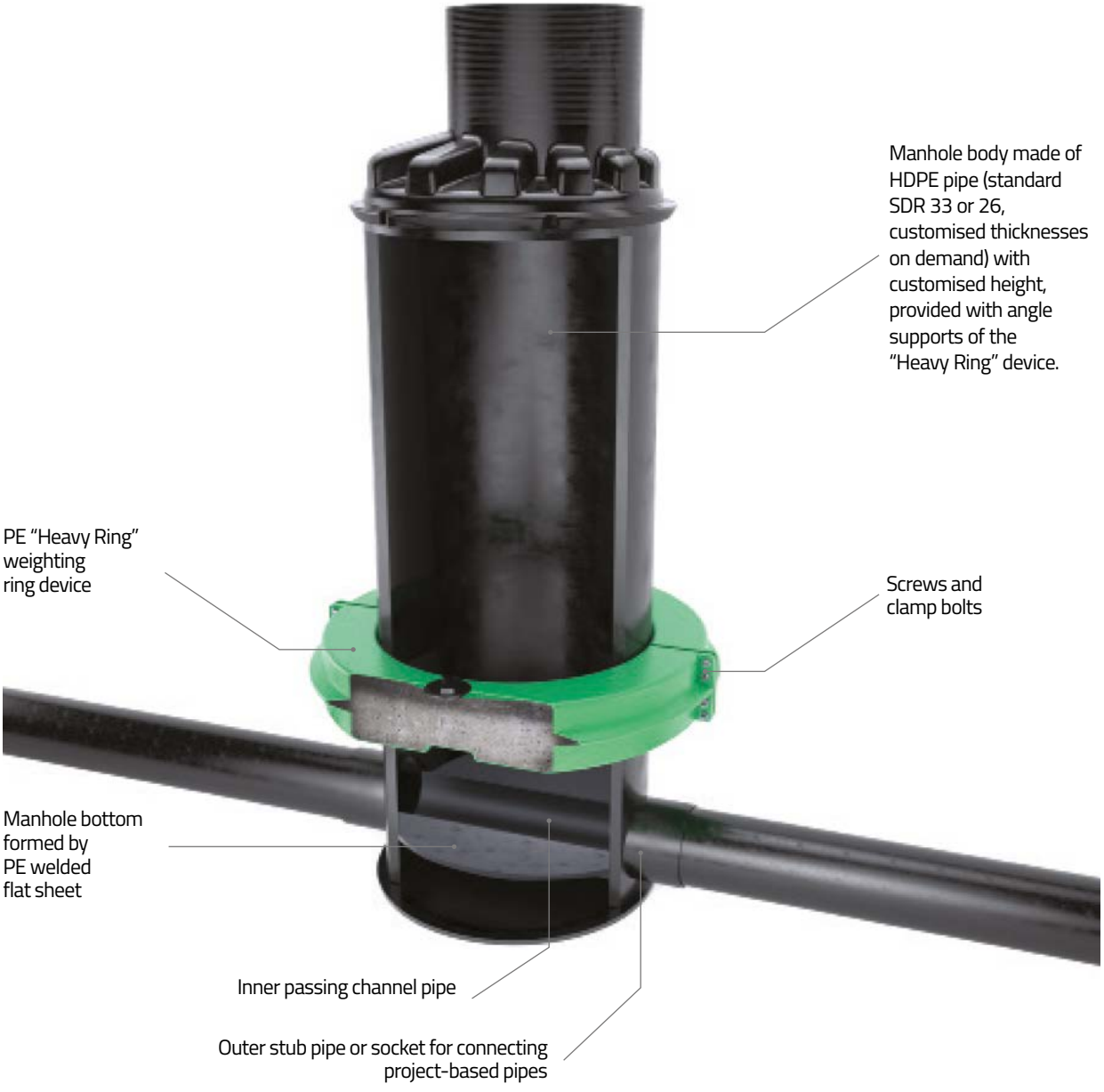
ANTI-FLOATING DEVICE FOR POLYETHYLENE MANHOLES

HEAVY RING allows to stabilise the installation site of buried HDPE manholes O 1000 mm, in case of groundwater up to a height of 5 m.

This device allows to obtain:

- **STRUCTURAL SAFETY STARTING FROM THE PLANNING STAGE**
- **STANDARDISATION AND EASE OF INSTALLATION**
- **SPEED OF IMPLEMENTATION**
- **COST-EFFECTIVE**

STRUCTURE



INSTALLATION

1. delete for a moment the water inside the excavation

2. creation of the laying bed

3. final placement of the manhole

4. connection of the inlet and outlet pipes

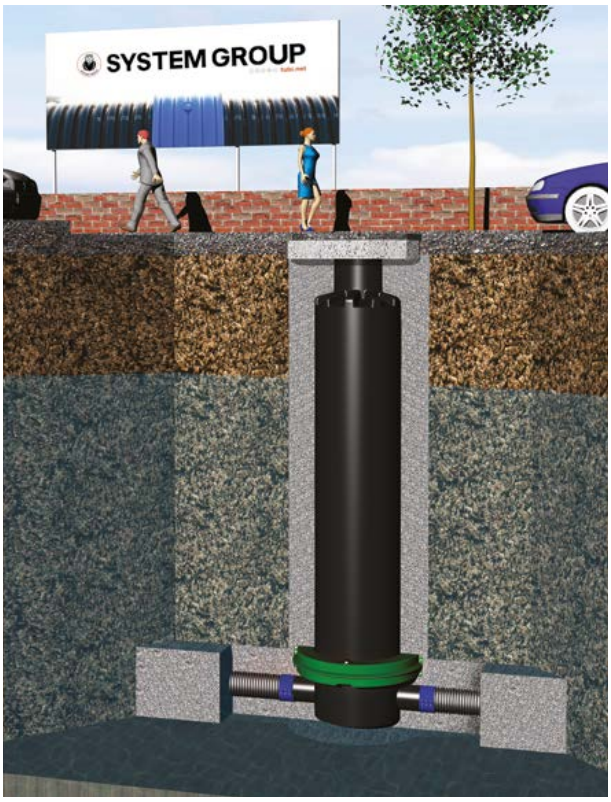
5. cover the sides of the product with suitable aggregate(Possibly bulk granular materials with maximum size 40 mm) up to the "angles of support", making sure to do an appropriate compaction

6. Installation of the two half-shells (still empty) all around the manhole, and connecting them with the nuts and bolts supplied in the kit, in order to place the ring on the angles of support and also partially on the aggregate which are below and on the sides

7. unscrew the caps of the set up ring and competely fill the two half-shells with fluid grout

8. screw the closing caps

9. proceed with the covering of the sides and the compaction of the product with the aggregate defined during the planning



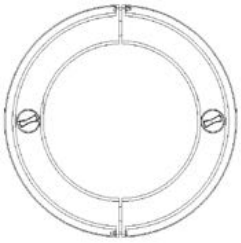


fig. 1

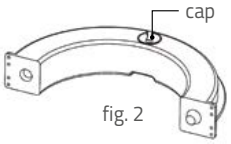


fig. 2

ANTI-FLOATING DEVICE DN 1000

Description	DN	€/each.
Anti-floating device	1000	**860,00**

The green colour is only for product presentation.

PRODUCT SPECIFIC

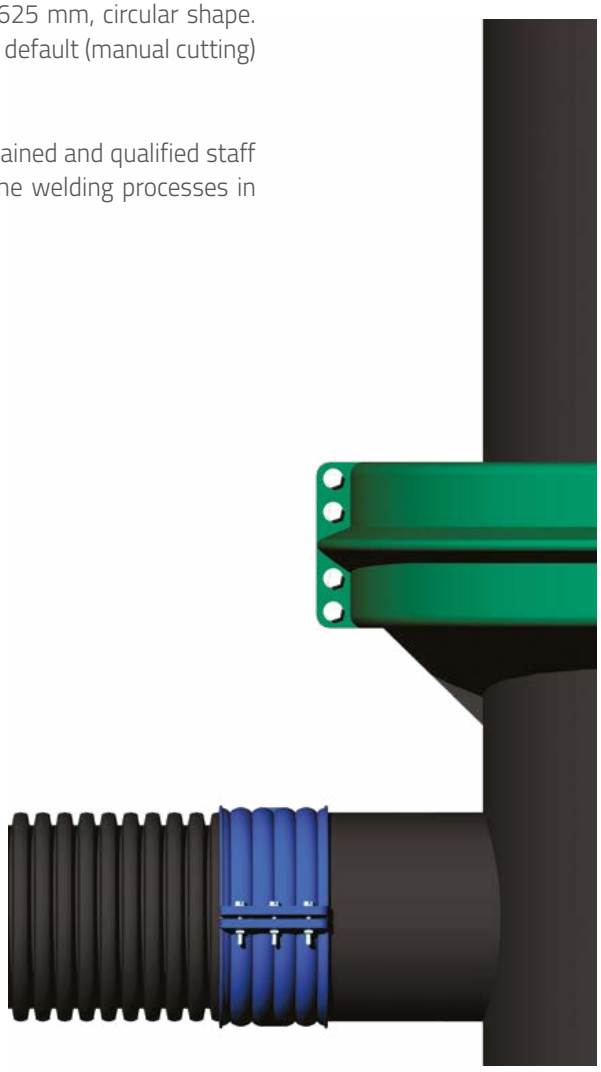
Inspection manhole provided with anti-floating system for installation in soil with heights of aquifer up to 5 m, according to UNI UN 13598-2, consisting of PE smooth pipe OD 1000 mm SDR26 (or SDR33), according to UNI EN 12666, with ring stifness SN2.

The **base** has to be equipped on the outside with a PE closing sheet of 30 mm of thickness, which is welded to the manhole's body, and on the inside with a PE "passing channel" pipe for allowing inspection and cleaning activities. Upon request, an entrance/exit ladder for inner inspection. The stub pipes or sockets of entrance/exit are manufactured with PE elements and connected to the manhole through welding made with molten material injection.

Above the point of connection of pipes entrance/exit there are supportive **corner pieces** (outside the manhole body). An anti-floating ring will be placed on the top of them. The ring consists of 2 half shells made of PE with quadrangular section, hollow on the inside, and joined together around the manhole body with the specific nuts and bolts made of stainless steel AISI 316. Both half shells are provided with a cap that can be unscrewed manually and that closes the entrance in which the cement mortar will be placed up to full coverage and will create the specific weight for counter the buoyancy lift.

A PE **eccentric cone reduction** will be placed on the top of the manhole. Characteristics: in accordance with DIN 4034 T1 standard, Inner Diameter 625 mm, circular shape. The cone is welded on the manhole and it can be adjusted in default (manual cutting) in order to improve the installation height up to 300 mm.

All weldings of polyethylene elements need to be done by trained and qualified staff according to UNI EN 9737 standard. Staff need to follow the welding processes in accordance with DVS 2212 part. 2 standard.



Presentation on tubi.net

ROCK MANHOLE

DESCRIPTION

Inspection manhole for water in non-pressurized system, which consists of a double wall pipe made of high density polyethylene (HDPE), with an outer diameter OD of ... mm, smooth on the inside and corrugated on the outside, available in black colour, with ring stifness class SN... measured according to EN ISO 9969, manufactured thorugh continuous co-extrusion of the two walls in accordance with the draft European standard prEN 13476 for PE structured pipe "B" type.
The manhole base will be a moulded flat base. The manhole is designed for the connection of PVC, PP and PE pipes, including entrance/exit with a diameter of ...mm.
All manhole's elements will be assembled through an extrusion welding with the bringing of a bead of extruded material, by patented employees according to UNI EN 13067 CLASSE 3.
The manhole will be supplied by a company certified UNI EN ISO 9001.

CERTIFICATES

Standards / Certifications:
- UNI EN 13067 CLASSE 3

ADVANTAGES

> EASE OF INSTALLATION
> CUSTOMISED SOLUTIONS
> COST-EFFECTIVE
> FLEXIBILITY

APPLICATIONS

ROCK MANHOLE

CHARACTERISTICS AND APPLICATIONS

- Suitable for standard situations
- Lightness, ease of transportation (manual too) and installation promote it in installation sites with limited spaces
- Absent groundwater or maximum height of 2 m
- In accordance with (UNI) EN 13598-1-2 with Product Quality mark
- Corrugated body with high ring stiffness

ROCK MANHOLE

DN/OD mm	H manhole	With ladder	Without ladder
		€	
1000	1200	**2.053,80**	**1.795,50**
	2200	**2.620,80**	**2.362,50**
	3200	**3.181,50**	**2.929,50**
1200	1200	**2.746,80**	**2.494,80**
	2200	**3.546,90**	**3.294,90**
	3200	**4.347,00**	**4.088,70**

Other heights available on demand

DERIVATIONS

DN/OD mm	Welded socket for corrugated pipe provided with gasket
	€
125	**138,00**
160	**108,00**
200	**156,00**
250	**198,00**
284	**342,00**
315	**270,00**
350	**336,00**
400	**354,00**
468	**426,00**
500	**486,00**
565	**864,00**
575	**690,00**
630	**726,00**
701	**1.116,00**
800	**1.410,00**

DN/OD mm	Welded socket for PE smooth pipe/PVC/PP provided with gasket	PE stub pipe SDR 17 for PE smooth pipe/PVC/PP
	€	
110	**126,00**	**96,00**
125	**132,00**	**96,00**
140	**144,00**	**102,00**
160	**156,00**	**108,00**
180	**168,00**	**156,00**
200	**228,00**	**162,00**
225	**174,00**	**174,00**
250	**330,00**	**204,00**
280	**288,00**	**234,00**
315	**336,00**	**270,00**
355	**438,00**	**366,00**
400	**522,00**	**432,00**
450	**630,00**	**504,00**
500	**732,00**	**576,00**
560	**972,00**	**684,00**
630	**1.182,00**	**924,00**

INSTALLATION INSTRUCTIONS

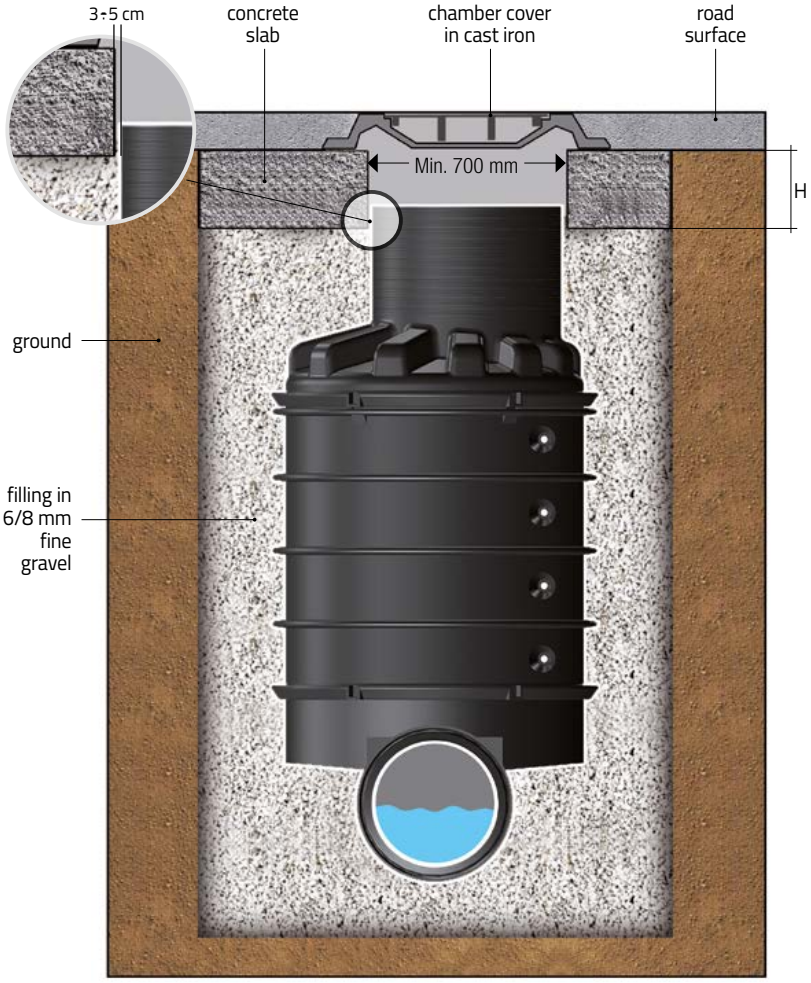
ADVANTAGES

All Futura manholes are provided with an installation booklet with every type of laying, for every kind of soil.

The technical department is always available for every explanation about laying methods and product technical information.

APPLICATIONS

STANDARD INSTALLATION CONDITIONS



In the relation within manhole and soil, the soil is for sure the element which contribute the most in supporting loads.
In the following text you will find some information regarding the installation of **Futura S.p.A.** polyethylene manholes.

BEDDING

The trench bottom needs to be stable in order to set a solid work plan during the construction and in order to maintain the manhole at the requested alignment. Moreover, it has to support the weight of the filling material which is around the manhole.
The trench bottom has to be smooth and free from the waste material coming from the trench walls: big rocks, pieces of soil, frozen materials, hard or soft bodies coming from the rocks or soils with low resistance and from those materials which could cause a bad or uneven support.
For the bedding it is recommended to use non-cohesive materials like fragmented and rounded gravel, with a compacting level which has to be not less than the requested for the reinforcement compacting.
The trench bottom needs to be dry during installation.

It is recommended to do an excavation twice as big as the manhole diameter.
Bigger values can be adopted in order to allow the workers' accessibility for the purpose of an accurate arrangement of the bottom and bedding and the execution of all the operations required for the implementation of connections and the compaction of the reinforcement material.
The excavation walls need to be verticals, in accordance with the type of soil and the characteristics of the work.

BACKFILLING PROCEDURES

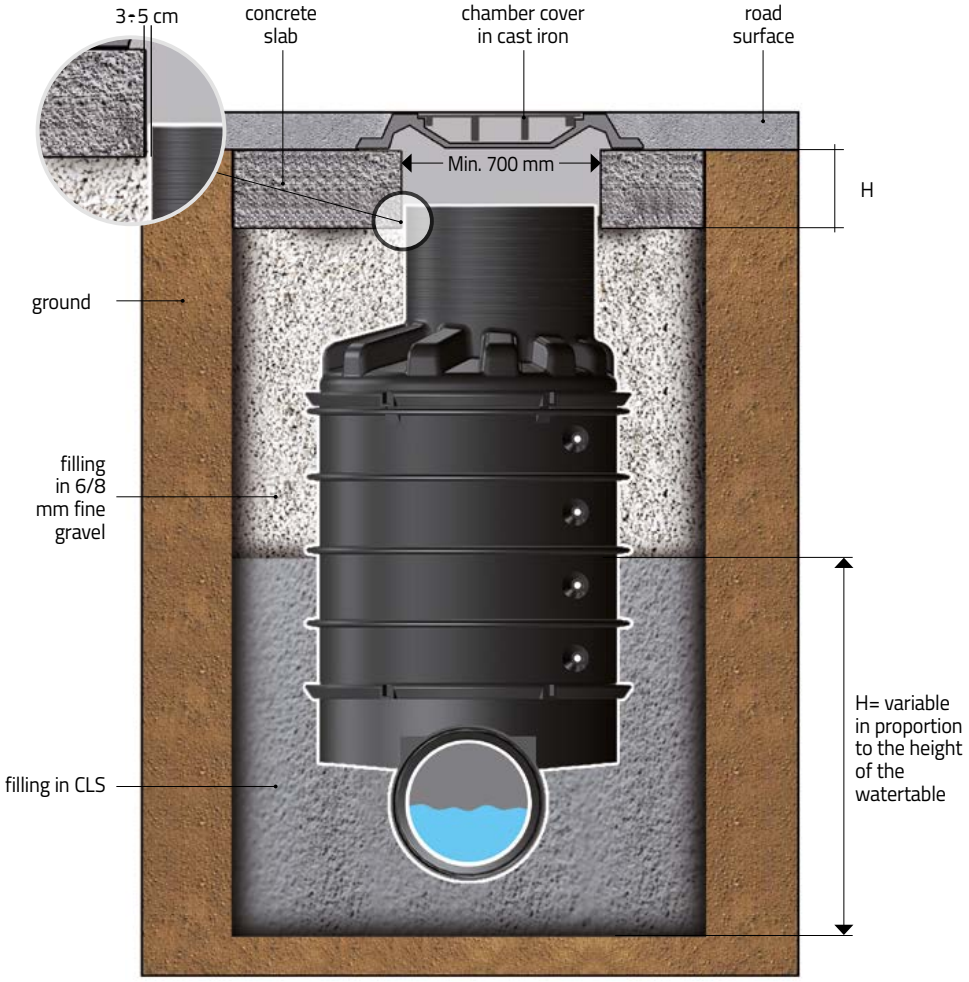
The backfilling of the excavation is the most delicate part in the installation and needs to be done through compaction in successive layers of 30 cm. A reasonable compaction value is 90-95% of Proctor index.
We suggest a reinforcement with fragmented gravel of 6/8 mm in order to facilitate the compaction phases.

The operations of backfilling of manhole need to be done after the vertical positioning. To maintain the vertical position you can use straps. The first actions of reinforcement under the sides and under the connections of the manhole will help with the maintenance of the vertical position.
Place the backfilling material on every part and compact by following the methods shown, unless it is specified something different in the design specifications. Be sure you compact the material even under the sides of connections included in the artifact.
The free fall of backfilling material on the generator needs to be checked in order to set it at minimum.

The backfilling material needs to be laid in uniform layers if it is compacted as expected.
When the ground water is expected, you need to take into consideration barriers, for example clay barrages.

Finely granulated and organic soils are usually considered unsuitable as backfilling material for the first space around the manhole. The structural properties of backfilling material depends on the type of material and the level of compaction reached. The level of compaction can change with the usage of different type of equipment and by varying the number of layers.

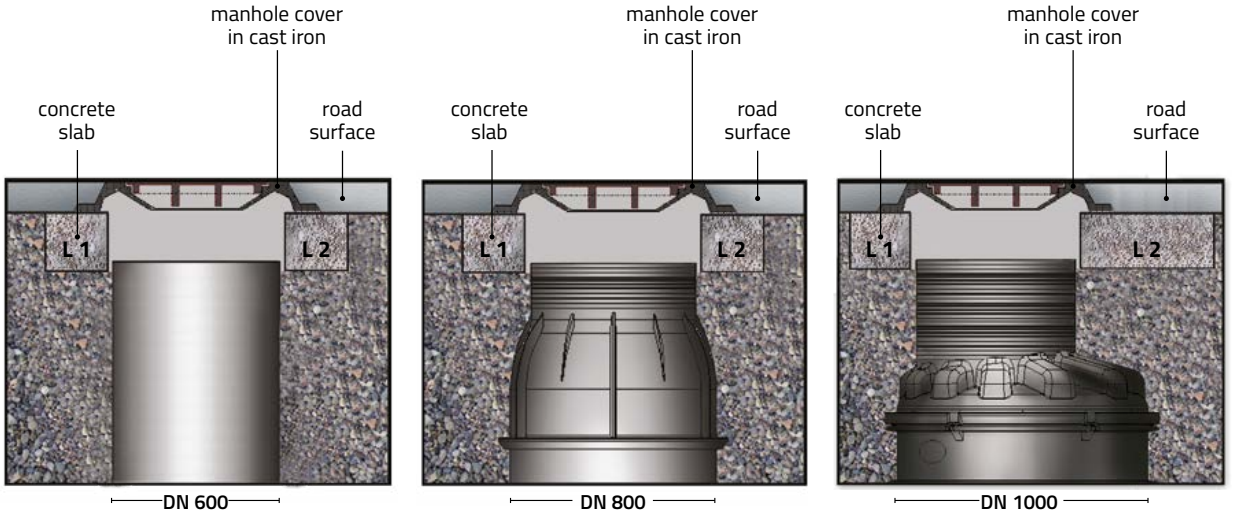
INSTALLATION IN CASE OF UNDERGROUND WATER TABLE

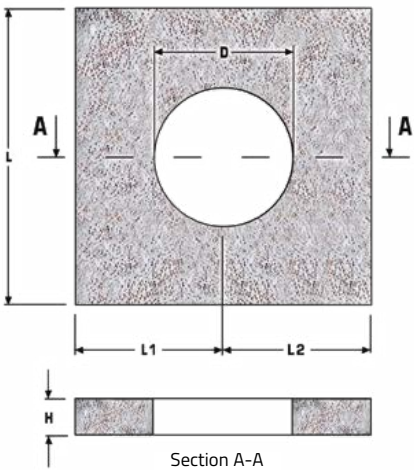


If there are applications with certain critical issues (high presence of groundwater or high depth of the excavated bottom) it is essential to make some adjustments. In order to avoid phenomena of floating or bulges of the main body you just need to reinforce the manhole, 15-20 cm, with concrete, in order to reach a height that is proportional to the groundwater's height.
The Technical Department of Futura S.p.A. is completely available for recommending the quantities and the thicknesses of the CLS requested to guarantee qualities and performances of the manhole.

SLAB INSTALLATION

Underground inspection manholes that are subjected to static and dynamic loads, can be made with flexible plastic artifacts which have to be considered as elements interacting with the system stiffness.
The plastic manhole is not the only part of the system: there are also the type and degree of compaction of the materials on the sides and the completion structures (stiff plate and manhole cover). The stiff plate on which will be installed the manhole cover has the purpose of allocating the loads on a wider surface: this is how you restrict the harmful and dangerous deflection of the street around the manhole cover which can be caused by the residual compaction made by traffic after the installation.
The stiff plates of street loads distribution, which are usually designed and made of concrete depending on the conditions (traffic, materials, excavation width etc.), are provided with an opening in order to allow the entrance of the worker (inspector) inside the manhole.
The right method of laying states that the higher part of the manhole (the circular element) needs to be partially inside that opening of the plate (telescopic system) in order to avoid that some remaining beddings (drop in the level) can spread around the manhole. This avoids to involve the manhole with vertical forces which could cause the deflection.
During the installation of the slab is essential that the diameter of the hole inside the slab is larger than the outer diameter of the upper part of the manhole. In case of reduction cones, the hole diameter needs to be larger than 70 cm.





CONCRETE SLAB SIZING

Manholes	DN 600	DN 800	DN 1000
D mm	700	700	700
L mm	2000	2300	2200
L1 mm	1000	1150	850
L2 mm	1000	1150	1350
H mm	200	200	250

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

LANDFILL SITE

click on the notch to access the section

PIPELINES FOR WATER COLLECTION

click here

DESCRIPTION

Pipes made of high density polyethylene (HDPE) with a smooth surface and dimensional requirements (diameters, thicknesses and tolerances) required by the UNI EN 12201-2, black colour, with marking specifying the manufacturer and/or trade name, the outer diameter, type, date, line and the production shift. Pipes are provided with draining slots made perpendicularly to the pipe axis, occupying a portion of the circumference, but alternating them in order to reduce the resultant loss of crush resistanc; the slots' width will be 4-8 mm with defined wheel base in order that the slotted surface is between 3-7% of the entire outer one of the pipe. The connection will be done by using .....(look at "connection systems" shown on the page to the side).

For pipes with the PSV mark

Pipes have to be manufactured entirely with HDPE obtained from the reuse of plastic wastes coming from recycling , according to the UNI 10667. The raw material supply chain has to be guaranteed by the PSV mark (Second Life Plastic "Plastica Seconda Vita), eco-labelling related to UNI EN ISO 14021, with the Istituto Italiano dei Plastici certification. The product has to contain in full the labelling with the required information for full traceability of the manufacturer and the third mark which guarantees the source of the raw material.

CERTIFICATES

Standards / Certifications:
- UNI EN ISO 9001
- UNI EN ISO 14001
- UNI ISO 45001

ADVANTAGES

> ABRASION RESISTANCE
> DURABILITY
> COMPLETE RANGE

APPLICATIONS

TECHNICAL STANDARD

Pipes	HDPE, smooth, black
Standard length	6m bars
Slot width	4 – 8 mm
Slot formation	to be agreed upon
Slotted surface	standard 3-7% of outer surface
Fittings	elbows, tees, Y-ways, caps, etc.
Connection	butt-welding, jolly coupler, threaded ends, sockets

plastic second life FROM SEPARATE WASTE COLLECTION

The pipes can be made entirely in material obtained **by valorisation of differentiated recycled scraps**. The pipes shall bear the marking with all the information that guarantee the production chain traceability, and the certification of raw material.

CAM Minimum Environmental Criteria

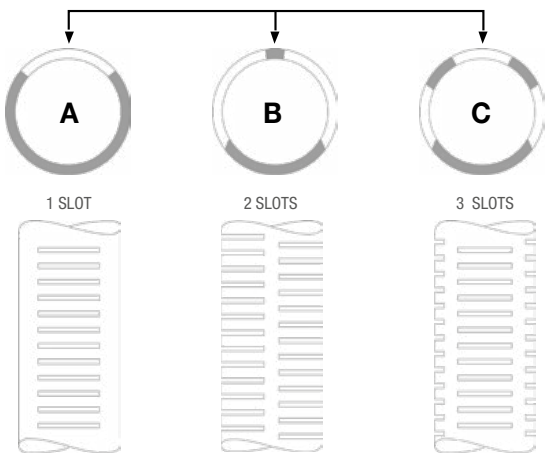
plastic second life FROM SEPARATE WASTE COLLECTION on request

Ø mm	e_n	SDR 17		SDR 11		SDR 7,4	
		1/2 slots	3/4 slots	1/2 slots	3/4 slots	1/2 slots	3/4 slots
		€/m		€/m		€/m	
75	4,5	**7,14**	**7,65**	**10,36**	**11,10**	**14,84**	**15,90**
90	5,4	**10,29**	**11,03**	**15,05**	**16,13**	**21,28**	**22,80**
110	6,6	**15,26**	**16,35**	**22,26**	**23,85**	**31,85**	**34,13**
125	7,4	**19,53**	**20,93**	**28,84**	**30,90**	**40,95**	**43,88**
140	8,3	**24,50**	**26,25**	**35,98**	**38,55**	**51,45**	**55,13**
160	9,5	**31,99**	**34,28**	**47,18**	**50,55**	**66,92**	**71,70**
180	10,7	**40,39**	**43,30**	**59,64**	**63,90**	**84,63**	**90,68**
200	11,9	**49,84**	**53,40**	**73,57**	**78,83**	**104,65**	**112,13**
225	13,4	**63,21**	**67,73**	**93,10**	**99,75**	**132,23**	**141,68**
250	14,8	**77,49**	**83,03**	**114,52**	**122,70**	**163,24**	**174,90**
280	16,6	**97,30**	**104,25**	**143,50**	**153,75**	**204,68**	**219,30**
315	18,7	**123,27**	**132,80**	**181,65**	**194,63**	**259,14**	**277,65**
355	21,1	**156,87**	**168,08**	**230,65**	**247,13**	**328,51**	**351,98**
400	23,7	**198,24**	**212,4**	**292,81**	**313,73**	**417,27**	**447,08**

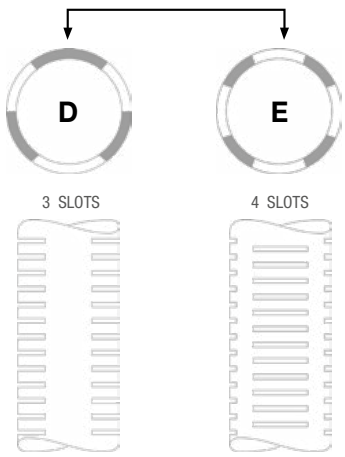
e_n= nominal thickness [mm] / Junction system are not included in the price.

SLOTTING SYSTEMS

Recommended for leachate captation



Recommended for biogas captation



PLANT ELEMENTS

DESCRIPTION

Wellheads, condensate drains and fittings for landfill sites application.
Suitable for RSU landfill site model, biogas plants and pumping stations.

All products are in accordance with ISO 9001.

ADVANTAGES

> 100% PERMANENT AND SAFE SEALING
> WIDE RANGE OF SIZES AND PERFORMANCES
> SAFETY
> COST-EFFECTIVE

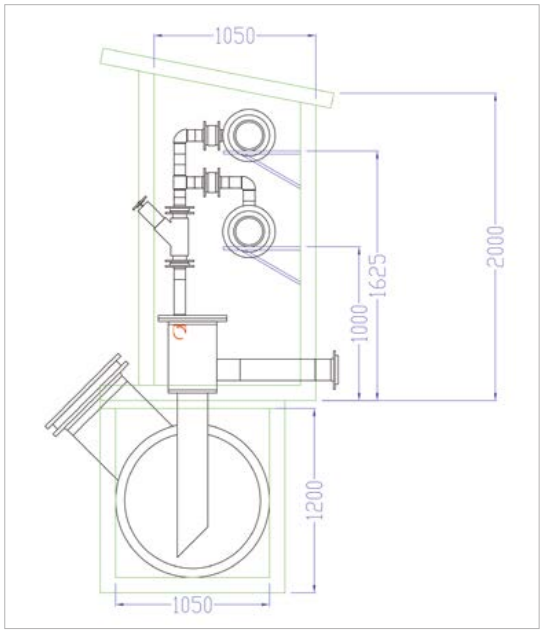
APPLICATIONS

LEACHATE AND BIOGAS COLLECTION: FUTURA IN THE SERVICE OF DESIGN ENGINEERS AND INSTALLERS

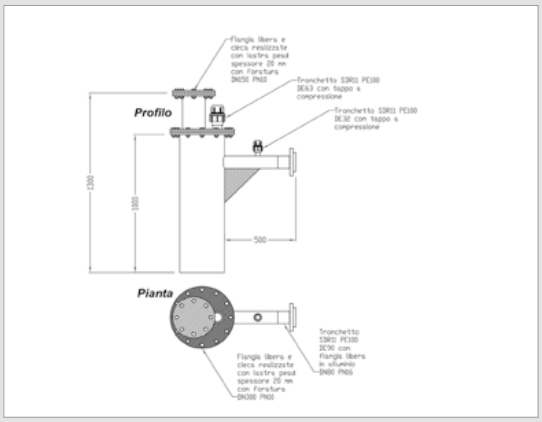
FUTURA S.p.A. actively supported for many yars design engineers and installers of leachate and biogas collection in municipal solid waste landfill (MSWLF) and in biomass plants.

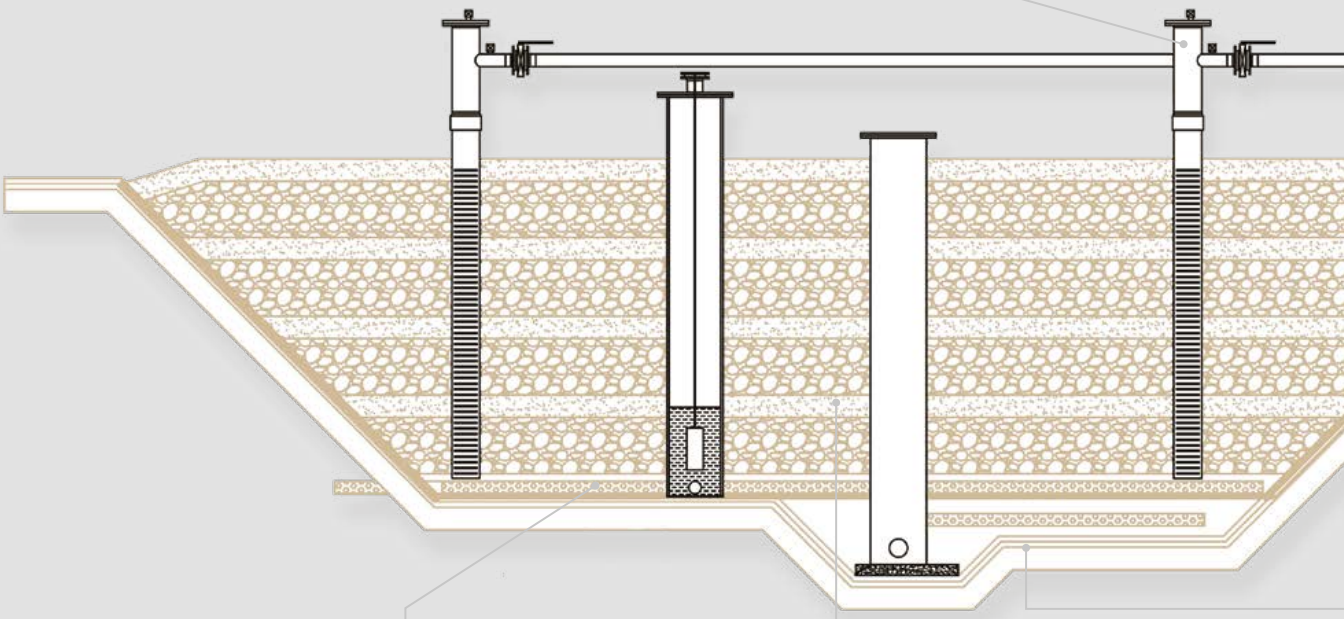
Most frequently served products are:
- HDPE pipes (pipes with slots for drainage and standard ones for fluids, liquids and gas distribution), monolithic or modular tanks obtained from HDPE spiraled pipes
- Elements and biogas control station, wellheads and well for leachate collection.

Depending on the type of plant used by the operator and on the management needs, out technical department produces customised solutions "on demand". For example: Pontedera (PI) 2013: the biogas produced in the landfill siteturned out extremely moist due to a condensate separation system, an individual type for every line. The operator, in accordance with FUTURA, created a new system of "global storage" for replacing the previous one. In the following image you can identify in the foreground the new system with storage tank, created with a pipe with the following characteristics: PE100 - DN 1000 mm - SDR17, 6 m long, located nextto the old system, which is abandoned, and which you can see placed immediately after.

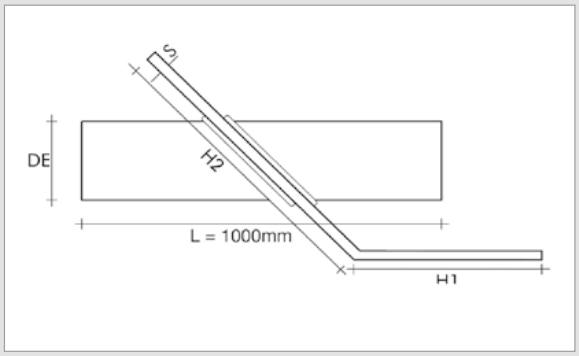


WELLHEADS





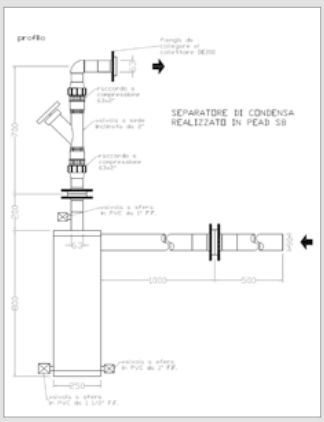
PASS-IT FITTING

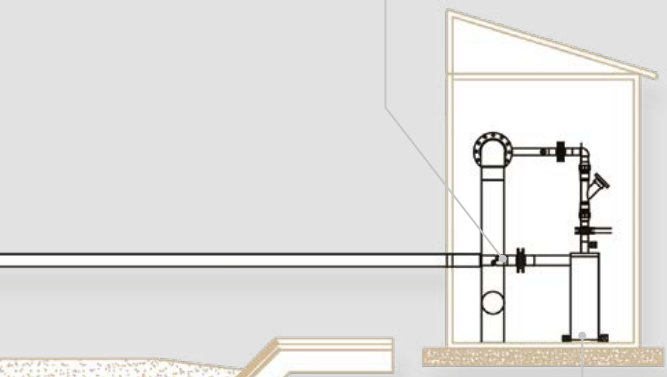


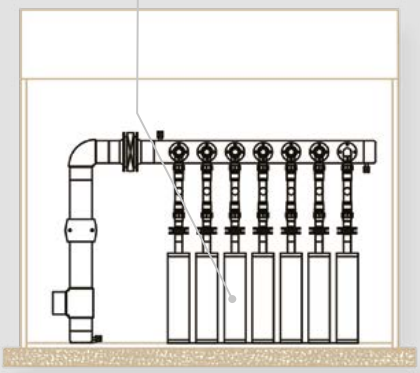
LEACHATE EXTRACTION WELL

CONTROL STATION

CONDENSATE SEPARATION SYSTEM

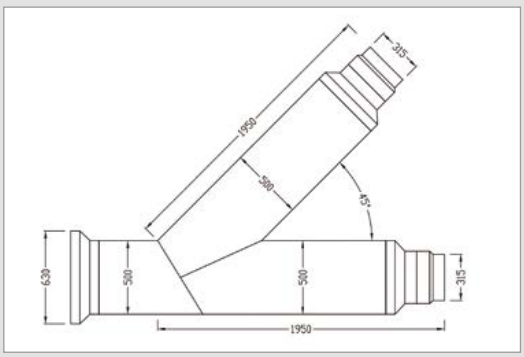




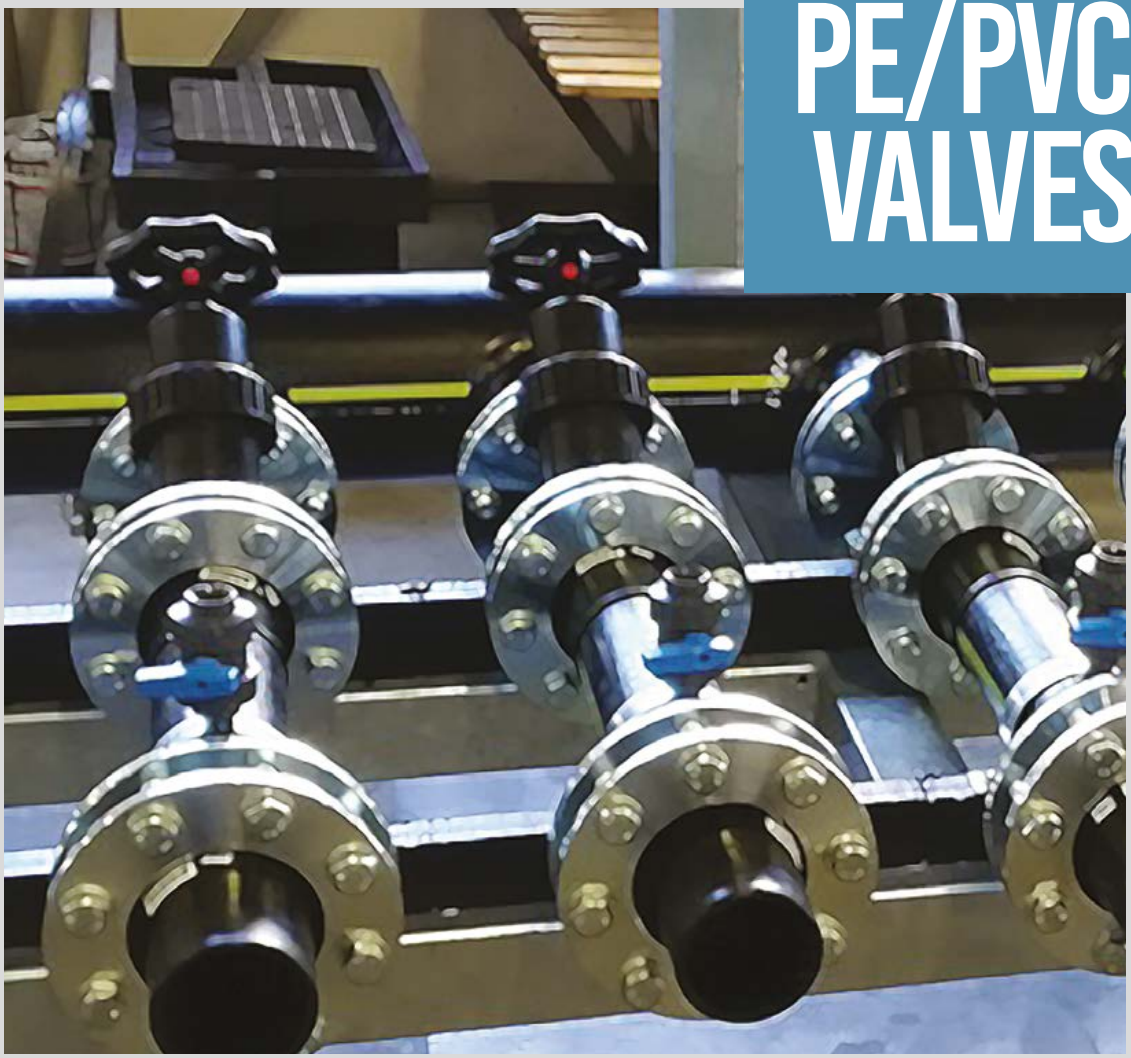


WELL FOR CONTAINMENT

SEGMENTED FITTINGS



PE/PVC VALVES



DESCRIPTION

Valves made of plastic material (HDPE or PVC-U) for interception and adjustment of pressurized or non pressurized pipelines of HDPE. All products are in accordance with ISO 9001.

ADVANTAGES

> EASE OF INSTALLATION
> WIDE RANGE OF SIZES
> SYSTEM UNIFORMITY
> CUSTOMISED SOLUTIONS
> RESISTANCE TO CORROSIVE SUBSTANCES

CERTIFICATES

Standards / Certifications: various

APPLICATIONS

PVC BUTTERFLY VALVE

CODE 611

DN/OD	DN		A	C	E	H	L	Pack	€
	mm	"							
63	50	2"	192,50	1110	18x4	44,5	228	2	**215,20**
75	65	2"1/2	192,50	110	18x8	44,5	228	2	**215,20**
90	80	3"	227	126	18x8	44,5	263	2	**254,30**
110	100	4"	271	156,50	18x8	44,5	263	2	**290,60**
125	125	5"	271	156,50	18x8	44,5	263	2	**327,00**
140	125	5"	297	172	18x8	44,5	350	2	**331,90**
160	150	6"	327	185	22x8	44,5	350	2	**366,80**
200	200	8"	400	230	22x8	58	390	2	**524,70**
250	250	10"	-	-	-	-	-	-	**1.226,70**
315	30	12"	-	-	-	-	-	-	**3.813,40**
400	400	16"	-	-	-	-	-	-	•

Project standard EN 1074-3, flange standard EN 1092-2, with control lever and PVC lens. / • On request

ANGLE SEAT VALVE THREADED CONNECTIONS

DN/OD	€
1/2"	**on request**
3/4"	**on request**
1"	**on request**
1"1/4	**on request**
1"1/2	**on request**
2"	**on request**

PVC BALL VALVE WITH DOUBLE NUT F/F

DN/OD	€
1/2"	**18,50**
3/4"	**20,10**
1"	**28,60**
1"1/4	**35,70**
1"1/2	**42,80**
2"	**66,50**
2"1/2	**200,70**
3"	**271,40**
4"	**347,40**

ANGLE SEAT VALVE PIPE UNION CONNECTIONS FOR PVC GLUING

DN/OD	DN	PN	€
16	10	16	**on request**
20	15	16	**on request**
25	20	16	**on request**
32	25	16	**on request**
40	32	16	**on request**
50	40	16	**on request**
63	50	16	**on request**

ANGLE SEAT VALVE CONNECTORS

PVC threaded couplings

D"	€
3/8"	**on request**
1/2"	**on request**
3/4"	**on request**
1"	**on request**
1"1/4	**on request**
1"1/2	**on request**
2"	**on request**

PE100 connectors long shank

DN/OD	€
20	**on request**
25	**on request**
32	**on request**
40	**on request**
50	**on request**
63	**on request**

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

SERVICES

click on the notch to access the section

VIDEO INSPECTION AND MONITORING

DESCRIPTION

Video inspection of multi-material pipes for non-pressurized sewerage systems or cable routing, by using professional systems on wheels equipped with control unite, cable reels, rotating cameras. Inspection operations and reports are realised by a company which has the ISO 9001 certification.

ADVANTAGES

> APPLICATION FLEXIBILITY
> CUSTOMISED SOLUTIONS
> EASY AND PRECISE WORKMANSHIP
> ADVANCED SYSTEM

click here

CHECK OUT
THE VIDEOS ON
YouTube

CERTIFICATES

Standards / Certifications:
- IP68

APPLICATIONS

FUTURA S.p.A. benefits from highly sophisticated equipments for perform full and detailed video inspections, of sewerage and hydraulic pipelines, in potentially explosive enviroments too.
Thank to the moden softwares, inspection and audits reports concerning the deformations of pipes are released too.
Those reports provide full and detailed information through technical reports, videos of the inspected section, mapping of the underground pipelines.

The FUTURA video inspection system is designed for the usage for all kind of pipes and consists of:

- **Control unit with monitor 15'', PC and control elements**
- **Motorized cable drum**
- **Cart and accessories**
- **Pantograph with additional lights**
- **Cameras and accessories**

Thanks to the multiple accessories the system can be used starting from DN 150 up to DN 3000 and above.

CONTROL UNIT

Control unit is movable and easy to handle and facilitates the usage in every kind of situation, furthermore is provided with a PC with USB entrances and DVD/CD player/recorder and Windows 10 operating system, for control reportings.

CAMERA

The camera is sealed and has a resistance up to 0,8 bar of inner pressure. It is provided with optical zoom 10x + digital zoom 12x, right and left tilt 120° and 360° rotation on the axle. High intensity LED, 650 lm, 5,5W.

CART

The cart is equipped with 6 driving wheels and is steerable. It is provided with inclinometric sensors and inner pressure sensor. In addition there are various sets of wheels and outdistances for adapting to the different conditions. It reaches the top speed of 20 m/min. It is provided with a reversing camera with LED lights in order to verify the cable status during the backward movement. The cart is leak-proof with resistance to inner pressures up to 0,8 bar.

TESTING

DESCRIPTION

Tightness testing of non-pressurized underground pipeline through professional systems with air and water, for mirrors of different shapes or material, with diameters up to ID3000 mm.
The inspection operations and the reports are done by the company with ISO 9001 certification.

ADVANTAGES

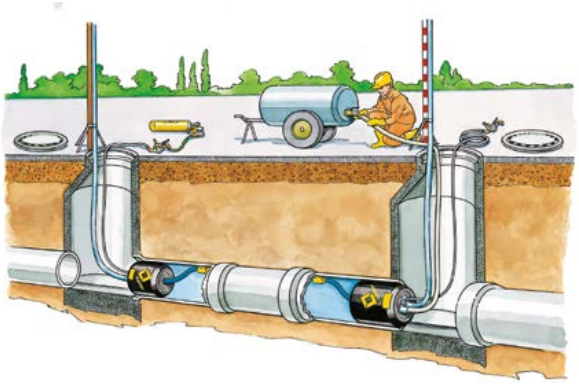
> APPLICATION FLEXIBILITY
> CUSTOMISED SOLUTIONS
> EASY AND PRECISE WORKMANSHIP
> ADVANCED SYSTEM

CERTIFICATES

Standards / Certifications:
- UNI EN 1610

APPLICATIONS

According to DM LL.PP., December 12th 1985, all pipelines and plants have to be submitted to a test of acceptance of HYDRAULIC SEAL, in order to verify the absence of LEAKAGES.
The reference documents for the proper execution of the test are:
Ministerial Decree on public works of December 12th 1985; technical standard UNI 11149; Requirements in the technical specifications of the works.



FUTURA offers inspection test and pipeline testing, ensuring the maximum professionalism.
Safe pipes contribute to the security and the respect of both human and environment.

FUTURA S.p.A., other than count on highly qualified employees, benefits from professional equipment for perform tests and leaktesting of sewerage pipes with air or water.

Those tests are made in accordance with UNI EN 1610 through inflatable pipe plugs highly reliable.
Moreover, the operations sequence of leaktesting, can be automatically recorded and saved on the PC, thanks to a digital hand-held manometer, so the client can receive reports and testing graphics protocol.

GEOREFERENCING SYSTEM

DESCRIPTION

Fittings for the Pipe Tracer system for the detection, localisation and the identification of underground networks with a remarkable level of accuracy, for every kind of pipe, for every kind of application.
All fittings are produced according to ISO 9001.

ADVANTAGES

> SYSTEM UNIFORMITY
> APPLICATION FLEXIBILITY
> CUSTOMISED SOLUTIONS
> EASY AND PRECISE WORKMANSHIP
> ADVANCED SYSTEM

APPLICATIONS

COMPONENTS PIPE TRACER

CABLE

> Inox cable Ø 0,8 mm
> Totally covered in polyethylene for chemical and electrical protection in soil
> PE coating sheath with rectangular shape for more stability on the pipe.
> Highly flexible, so it's easy to install and adapt to all the path variations of pipes

STRAIGHT OR TEE CONNECTORS

> Straight or tee, made for connecting PIPE TRACER cables
> With inner gel for waterproofing the steel cable
> Marking on the uncovered steel cable
> Resistance to a breakout force of >20 kg

straight connector
pack of 10 pieces

tee connector
pack of 10 pieces

CONNECTION BOXES

> For the placing of the electromagnetic signal
> Waterproof membrane for protection against water
> Equipped with two flaps (inox 304 L) which allows the grounding when the cover is closed
> Equipped with four holes for the evacuation of impurities
> Equipped with 2 connection points with TRACER cables
> Available in the standard colours which identify the type of service provided by the network
> It can be accessorized (upon request) with RFID for referencing the network section

CAST IRON CIRCUIT-CLOSED DEVICES

> They house and protect the connection box
> Optimized for grounding too (circuit closing)
> Installation is better on sidewalks for the safety of workers
> Opening/closure of cover through triangular key
> Maximum distance recommended in urban areas: 500 m
> Placement: at the beginning and at the end of every underground system, at the end of every branch, in correspondence with the pipes changes (ex. diameter change), in particular for systems used also for referencing individual sections of pipe
> Equipped (upon request) with **RFID** tag

vehicular

for sidewalk

RFID TAG

> Name: HT62
> Made of special plastic material
> Ø 6,2 x 4 mm
> Operating temperature: -25°C Ø 80°C
> Frequency: 13,56 MHz
> Size of chip storage: 112 Bytes
> Reading distance: max 3 cm (it depends from the reading device)

FOR QUOTATIONS YOU NEED TO CONTACT THE AREA SALES REPRESENTATIVE OR THE ON-SITE SALES OFFICES

WBH
(**W**all **B**ox **H**older)

Plastic frame for the installation of the in-wall connection box through screws or on a pole through clamps.
Together with the product it is provided a specific removable plastic cap with metallic flap (pull-out) for the implementation of the grounding system and the placing of the electromagnetic signal.
The cap can be equipped, on request, with the RFID tag for the reading of the referencing information of the network sections.

(with metallic flap)

(with metallic flap and RFID tag)

FOR QUOTATIONS YOU NEED TO CONTACT THE AREA SALES REPRESENTATIVE OR THE ON-SITE SALES OFFICES

REFERENCING

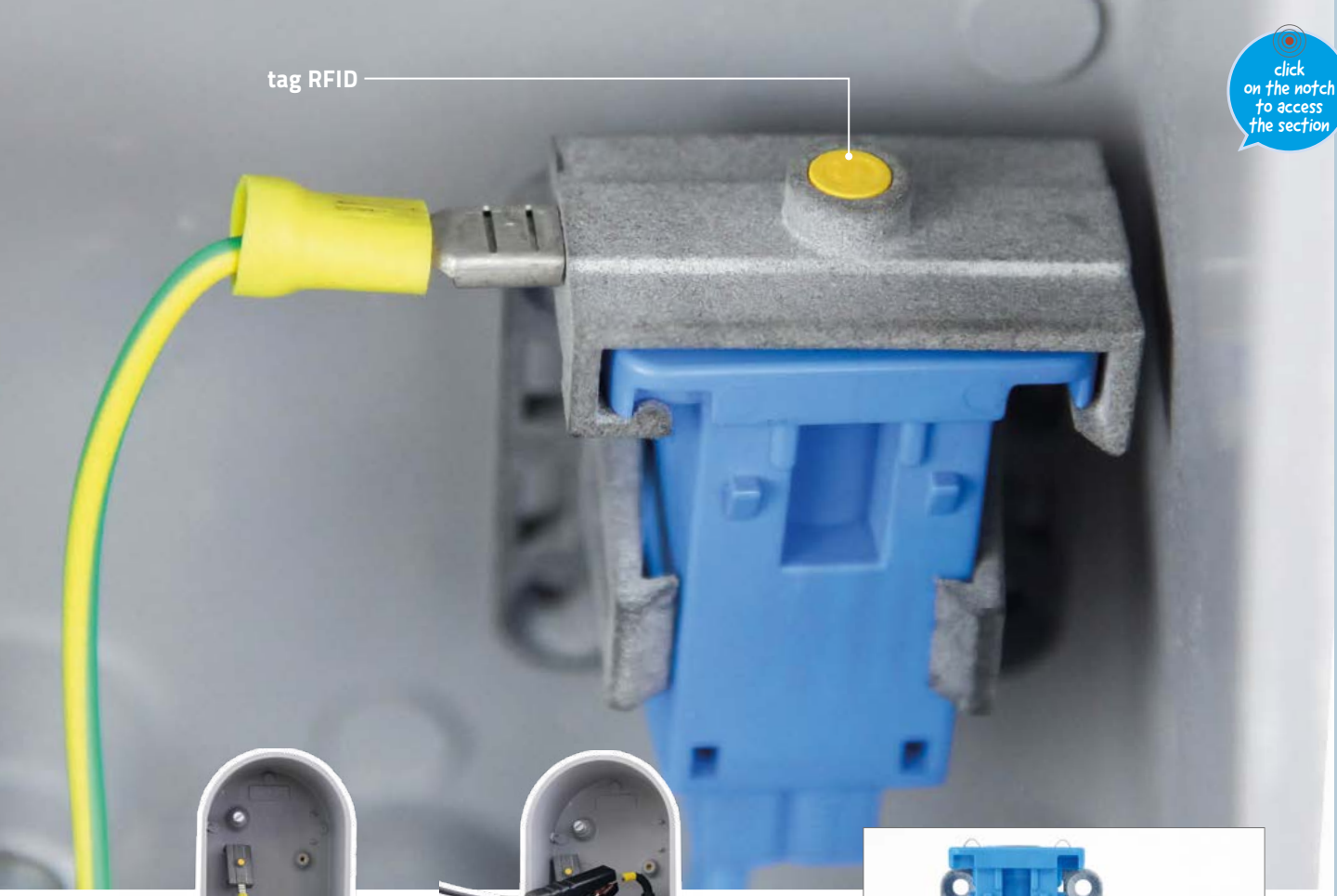
RFID is the English acronym for Radio-Frequency IDentification.

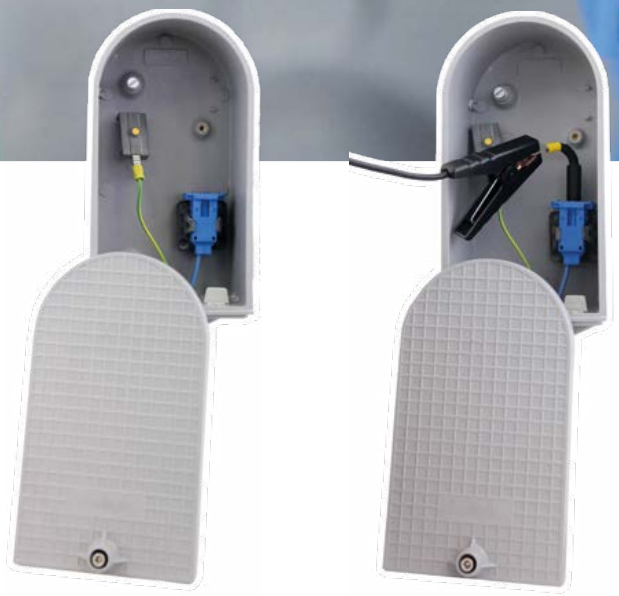
Per **RFID** is the **TECHNOLOGY FOR THE IDENTIFICATION AND/OR AUTOMATIC STORAGE OF INFORMATION** based on the ability of data storage from specific electronic tags called tags (or transponders too) and the ability of this tags of responding remotely to specific fixed or portable equipment called readers.

RFID allow to manage in a private way the recorded information. The standard **RFID** tag has a storage of 112 bytes. There is the possibility of writing URL addresses by which manage the information and access system.

The **RFID** technology is considered a **GENERAL PURPOSE TECHNOLOGY** (as electricity, the wheel etc.) and it has an high level of "pervasiveness", which means that once you find an application in a supply chain point, the application and the benefits will spread quickly on the top and bottom of the same. With **RFIDs** , thanks to the development of information technologies and Internet, it is possible to create an objects network and an interconnection of the obtained data in a unique big global network.

The provided **RFID** tag can be easily used with those smartphones equipped with the NFC technology (the majority). Specific Apps can be developed for the tag management.





click here

Product page available on **www.tubi.net**

INSTALLATION OF THE PIPE TRACER SYSTEM

> The TRACER cable needs to be placed and fixed on pipes along the upper generator of the pipe.

> The piece of TRACER cable placed between the pipe and the junction to the connection box does not need protection (which can always be adopted)

> Connect all the parts of the TRACER cable between them, by using the straight and tee connectors. The inox cable needs to be removed from the PE cover for 10 mm (see the instructions)

> Put the TRACER cable inside the cast iron device (when it is used) BEFORE placing it

> Link the TRACER cables to the connection boxes, which needs to be placed inside the cast iron devices or inside the WBH (Wall Box Holder)

> Verify that the colour of the connection boxes is the one of the project

> At the end of the installation and backfilling of the single parts that are between two subsequent connection boxes, verify the presence of electromagnetic continuity of the signal.

> Distinguish the RFID (when they are used) by assigning the codes required by the management system; this operations can be done even after the installation.

click here

RENTAL SERVICE

DESCRIPTION

Rental services of equipment for the proper execution of on-site weldings according to the applicable standards, for HDPE smooth or structured pipes, for pressurized systems, non-pressurized systems or routing cables. The available equipment allows junctions for end-to-end weldings, electrofusion or manual extrusion, properly revised and provided with instruction manuals.
All products are in accordance with ISO 9001.

ADVANTAGES

> APPLICATION FLEXIBILITY
> EASY AND PRECISE WORKMANSHIP
> ADVANCED SYSTEM

CERTIFICATES

Standards / Certifications:

BUTT-WELDING MACHINE:

UNI EN ISO 12100 UNI ISO 12176-1:2018

ELECTROFUSION MACHINE:

ISO 13950 ISO 12176-2
ISO 12176-3 ISO 12176-4
UNI 10566 UNI EN ISO 17050-1
UNI EN ISO 17050-2

APPLICATIONS

FUTURA has several machines for electrofusion, end-to-end welding machines, extrusors and advanced generating sets and in order with the current regulations security-related.

Technicians guarantee detailed information and instructions on the correct usage of machines and equipment which are always provided with a e and maintenance manual and revised on a regular basis. Moreover, we offer free assistance for the main welding techniques and the related charts according to the standards.

The rental solution by FUTURA allows a flexible and reliable service, through customised solutions tailored for any need of the client and routine checks done at any shipment.

End-to-end welding machine	Daily price	50 hz power supply
FUT 250 from (OD 250 to OD 63)	***€ 50,00**	230 V - 4 KW
FUT 315 from (OD 315 to OD 90)	***€ 55,00**	230 V - 5,2 KW
FUT 500 from (OD 500 to OD 200)	***€ 85,00**	230 V - 7,7 KW
FUT 630 from (OD 630 to OD 315)	***€ 105,00**	400 V - 12,7 KW
FUT 800 from (OD 800 to OD 450)	***€ 160,00**	400 V - 14,1 KW
FUT 1000 from (OD 1000 to OD 630)	***€ 240,00**	400 V - 19,2 KW
FUT 1200 from (OD 1200 to OD 800)	***€ 310,00**	400 V - 55 KW

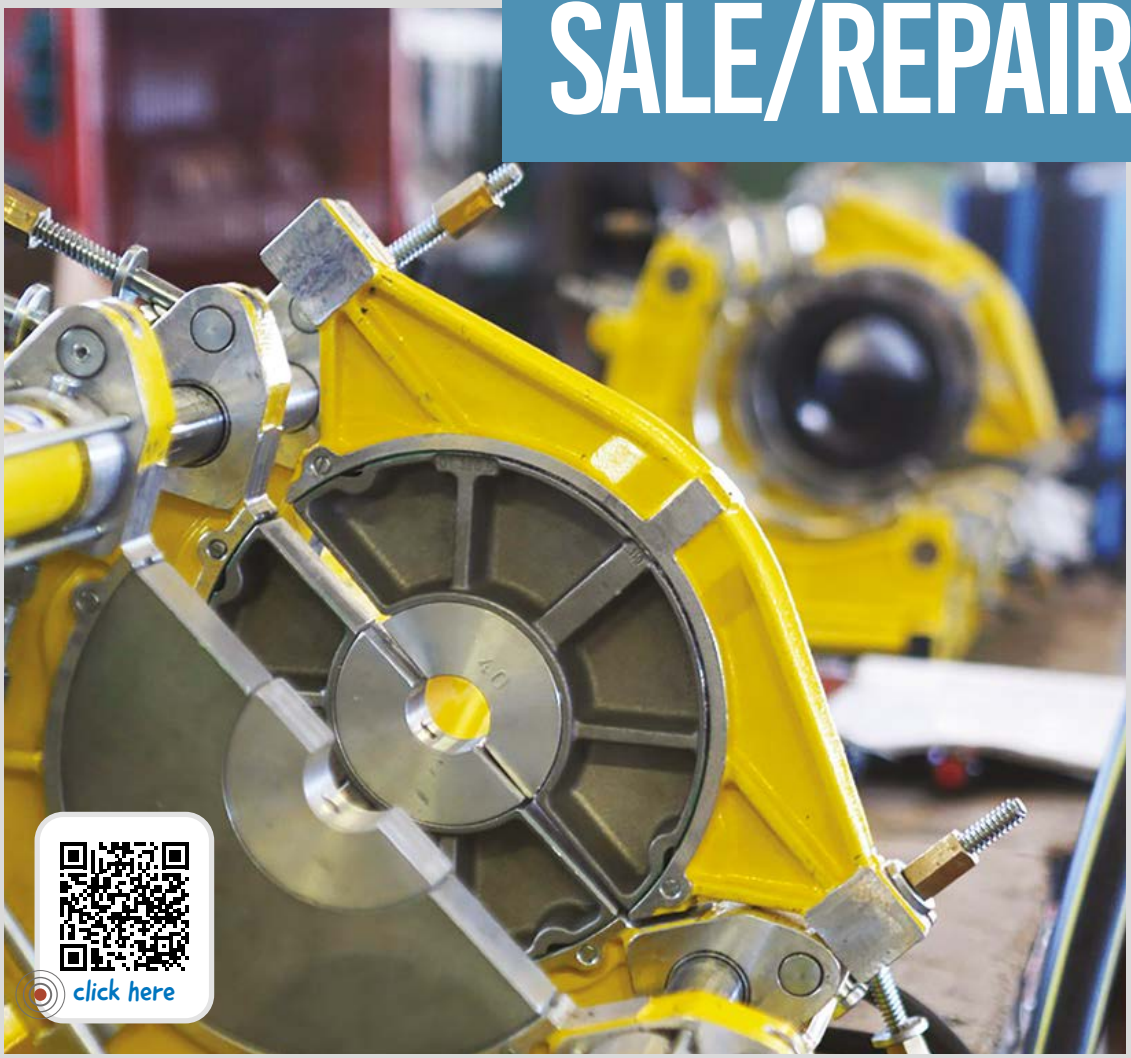
Electrofusion welding machine	Daily price	50 hz power supply
ATHENA UNIV. from (OD 20 to OD 800)	***€ 42,00**	230 V - 6KVA

Extruded equipment	Extrusor	Power supply
Portable extruder	***€ 50,00**	230 V - 6KVA

Electrofusion welding machines for SGK products		
DN (d.i.) ≤ 1200 mm	Daily price	DN (d.i.) > 1200 mm
Welding machine for SGK from (ID 800 to ID 1200) 1 welding machine	**on request**	.....
Welding machine for SGK from (ID 1400 to ID 2500) 2 welding machines	**on request**	.....

*** prices without discount**

SALE/REPAIR



DESCRIPTION

Equipment for the proper execution of on-site weldings according to the applicable standards, for HDPE smooth or structured pipes, for pressurized systems, non-pressurized systems or routing cables. The available equipment allows junctions for end-to-end weldings, electrofusion or manual extrusion, properly revised and provided with instruction manuals. All products are in accordance with ISO 9001.

ADVANTAGES

> APPLICATION FLEXIBILITY
> EASY AND PRECISE WORKMANSHIP
> ADVANCED SYSTEM

CERTIFICATES

Standards / Certifications:

BUTT-WELDING MACHINE:

UNI EN ISO 12100 UNI ISO 12176-1:2018

ELECTROFUSION MACHINE:

ISO 13950 ISO 12176-2
ISO 12176-3 ISO 12176-4
UNI 10566 UNI EN ISO 17050-1
UNI EN ISO 17050-2

APPLICATIONS

BUTT-WELDING MACHINE FULL OPTIONAL VERSION FOR PEHD/PP PIPES, FUT LINE, FULL OPTIONAL VERSION

MOD. FUT	Simplest version	Series of reducers	Stubend device	Transport wooden box	Total machine
			€		
FUT125	**9.110,00**	**1.200,00**	**-**	**270,00**	**10.580,00**
FUT160	**11.150,00**	**1.870,00**	**510,00**	**440,00**	**13.970,00**
FUT200	**12.650,00**	**2.290,00**	**610,00**	**440,00**	**15.990,00**
FUT250	**12.750,00**	**3.330,00**	**730,00**	**490,00**	**17.300,00**
FUT315	**14.860,00**	**3.790,00**	**830,00**	**620,00**	**20.100,00**
FUT355	**16.050,00**	**6.170,00**	**1.490,00**	**630,00**	**24.340,00**
FUT500	**26.430,00**	**6.040,00**	**1.320,00**	**1.050,00**	**34.840,00**
FUT630	**37.180,00**	**12.220,00**	**2.460,00**	**1.100,00**	**52.960,00**

SUPPLY

MOD. FUT	Transport case size					Supply		
	Range mm	Full weight	Length	Width	Height	Voltage	Frequency	Power
FUT125	40..125	78	84	64	64	230 V	50 hz	1,75 kW
FUT160	40..160	158	99	94	75	230 V	50 hz	2,17 kW
FUT200	63..200	176	99	94	75	230 V	50 hz	2,60 kW
FUT250	63..250	227	100	104	77	230 V	50 hz	3,70 kW
FUT315	90..315	307	114	127	86	230 V	50 hz	5,14 kW
FUT355	90..355	344	114	122	93	230 V	50 hz	5,13 kW
FUT500	200..500	634	225	107	130	400 V	50 hz	9 kW
FUT630	315..630	920	220	127	128	400 V	50 hz	12,7 kW

CONTROL BOX WELDING CYCLE RECORDER FOR BUTT-WELDING MACHINE OF THE FUT LINE

The CONTROL BOX is a system to register and control the parameters used during the butt-welding operation using PEHD and PP pipes. This machine verifies that the parameters imposed by the operator during the welding operation are complied with the normative ones. Pressures and temperatures are visualized on a LCD 2* 16 display and, if they are different from that are estimated from the law, they utter acoustic sounds. These last elements guide the operator during all the welding phases. This system is provided with an incorporated printer that issues a report at the end of the cycle.

MOD. FUT	Weight	Length	Width	Height	Voltage	Consume	Memory	Pressure	€
Control Box	5 Kg	34 cm	18 cm	18 cm	230v	0,30 kw	2000 cicli	max 200 bar	**10.300,00**

fixed rollers d. 315 mm

REDUCTION SERIES FOR "FUT" WELDING MACHINES (details available sizes and relative price list)

The reductions for FUT315 from OD90 to OD225 can only be used combined with the 250 reductions for FUT315

Reductions for FUT355 from OD90 to OD225 can only be used combined with 250 reductions for FUT355

The reductions for FUT500 from OD250 to OD280 can only be used combined with the 315 reductions for FUT500

The reductions for FUT630 from OD315 to OD450 can only be used combined with the 500 reductions for FUT630

DN/OD	125	160	200	250	315	355	500	630
				€				
40	225,00	255,00	-	-	-	-	-	-
50	214,00	250,00	-	-	-	-	-	-
63	208,00	244,00	327,00	341,00	-	-	-	-
75	202,00	238,00	320,00	336,00	-	-	-	-
90	185,00	238,00	314,00	336,00	336,00	336,00	-	-
110	166,00	238,00	309,00	336,00	336,00	336,00	-	-
125	-	225,00	297,00	336,00	336,00	336,00	-	-
140	-	185,00	280,00	336,00	336,00	336,00	-	-
160	-	-	231,00	336,00	336,00	336,00	-	-
180	-	-	214,00	336,00	336,00	336,00	-	-
200	-	-	-	336,00	336,00	336,00	336,00	-
225	-	-	-	300,00	300,00	300,00	300,00	-
250	-	-	-	-	757,00	1.473,00	757,00	-
280	-	-	-	-	381,00	1.101,00	381,00	-
315	-	-	-	-	-	896,00	1.398,00	1.507,00
355	-	-	-	-	-	-	966,00	1.063,00
400	-	-	-	-	-	-	871,00	958,00
450	-	-	-	-	-	-	1.033,00	1.127,00
500	-	-	-	-	-	-	-	3.793,00
560	-	-	-	-	-	-	-	3.769,00

ACCESSORIES

BELTS ALIGNER WITH 2 ARMS

MOD.	€
63...225 mm *	1.640,00
90...400 mm *	3.040,00

* aligners also available with only 3 arms

PIPE CUTTER

MOD.	€
16...63 mm	300,00
50...140 mm	640,00
160...315 mm	•

• on demand

REVOLVING SCRAPER

MOD.	€
63...225 mm	1.560,00
75...315 mm	2.040,00
110...500 mm	2.090,00

equipped with case

MANUAL SCRAPER

€
30,00

MULTIDIAMETER CONNECTORS

MOD.	€
4,7 + 4,0	160,00

WHITE INDELIBLE PEN

€
10,00

CLEANING FLUID FOR PEHD PIPES

€
50,00

DIGITAL TIMER (TIMER)

€
121,00

ELECTROFUSION WELDING MACHINES

click on the notch to access the section

ELECTROFUSION MACHINE FOR PEHD PIPES "ATHENA"

AthenaUniversal

The ATHENA UNIVERSAL welding machine is equipped with a scanner for the bar code reading, manual adjustment so the machine can weld, through an electrofusion operation, all the PE fittings which are on the market O 400 / O 800. Subject to biennial review.

MOD. FUT	Weight	Length	Width	Height	Voltage	Consume	Range	Voltage	€
Athena Universal V 400 (*)	18	32	20	27	230	4,5	20..400	8..48	**3.460,00**
Athena Universal V 800 (*)	22	30	21	26	230	6	20..800	8..48	**4.200,00**

ELECTROFUSION MACHINE FOR PEHD PIPES "I PLAST"

It can weld fittings up to O 160 mm.
Provided with universal adapters and with shoulder bag for easy carrying.

It can weld fittings up to O 1200 mm.
Provided with transport case, 4 mm plugs and 4,7 mm adapters.

MOD. FUT	Weight	Length	Width	Height	Voltage	Consume	Range	Voltage	€
I plast 105	24	309	165	329	230	5	20..1200	8..48	**7.040,00**
I plast 30	13	252	145	248	230	3	20..160	8..48	**3.590,00**

WIRE EXTRUDER MODEL FUSION 3C

Voltage	230 v
Frequency	50/60 hz
Material output	ø 4 mm 2.1 - 3.6 Kg/h
Welding materials	HDPE; LDPE; LLDPE; PP
Length	588.0 mm
Width	98.0 mm
Height	225.0 mm
Weight	6.9 Kg

Price to be agreed
Wire to be purchased separately

ON-SITE WELDINGS

DESCRIPTION

On-site welding services on pipes for pressurized systems, non-pressurized systems or cable routing. All operations are done by workers patented for end-to-end,electrofusion manual extrusion weldings and with certification for working in confined areas.
The welding operations and the reports are realised in accordance with ISO 9001.

ADVANTAGES

> APPLICATION FLEXIBILITY
> EASY AND PRECISE WORKMANSHIP
> ADVANCED SYSTEM
> CUSTOMISED SOLUTIONS

CERTIFICATES

Standards / Certifications:
- UNI 9737
- DVS 2212-2

APPLICATIONS

The on-site weldings service offered by Futura, is a complete service which gives other than the possibility to be coordinated with the materials supply for reducing the production times and supply, offeres to the client an experience brought together over the years on operations, materials and products with an available technical department and an advanced and complete equipment to deal with every kind of situation.

Futura benefits from:

- Patented workers on a europe level on welding processes (according to UNI EN ISO 13067) with training certificate for working in confined areas (as said by d.lgs 81/2008)
- Support staff with training certificate for working in confined areas, first aid and firefighting certificate
- DPI 3° category regularly maintained and revised
- Technical department available to redact the documents required for the access to the construction site (Poi, DVR, RLS training, etc.)
- Additional equipment always provided for any situation
- Electrofusion and end-to-end welding machines, certified and revised up to diam. 1600
- Electrofusion welding machines SGK type for diameters up to 2500
- Portable granule and thread extruders for operations of modifications' and repair
- Independent machine for the equipment displacement
- Generators for small operations, or with higher voltage in addition.

Departments are always at your disposal for every kind of request and are able to create a specific offer for every client need, ensuring the best service and the fast response.

N. END-TO-END ON-SITE WELDINGS IN OPTIMAL CONDITIONS

Ø mm	SDR26 PN 6	SDR17 PN 10	SDR11 PN 16	SDR7,4 PN 25
63	40	36	24	18
75	38	32	20	16
90	32	28	18	13
110	28	22	16	11
125	26	20	14	9
140	25	19	12	8
160	21	16	11	7
180	19	15	10	6
200	18	13	9	6
225	17	12	8	5
250	17	11	7	5
280	14	10	6	4
315	13	8	5	4
355	12	8	5	3
400	10	7	4	3
450	9	6	4	2
500	8	6	4	-
560	7	5	3	-
630	7	4	3	-
710	6	4	3	-
800	5	3	2	-
900	5	3	2	-
1000	4	2	2	-

N. ELECTROFUSION ON-SITE WELDINGS IN OPTIMAL CONDITIONS

Ø mm	SDR26 PN 6	SDR17 PN 10	SDR11 PN 16	SDR7,4 PN 25
63	-	-	23	15
75	-	-	22	14
90	-	22	15	14
110	22	21	14	13
125	21	15	14	13
140	15	15	14	7
160	15	14	14	7
180	14	15	13	6
200	15	13	13	6
225	13	13	9	6
250	13	9	7	6
280	13	9	7	6
315	9	7	7	4
355	9	5	3	3
400	5	4	3	3
450	4	3	4*	-
500	4	3	4*	-
560	4	4*	3*	-
630	3	3*	4*	-
710	4*	2*	2*	-
800	3*	2*	2*	-
900	3*	2*	-	-
1000	2*	1*	-	-

* Double wire sleeve: 2 weldings required for every fitting

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

AQUACULTURE

click on the notch to access the section

CAGES

DESCRIPTION

High density polyethylene elements for off-shore aquaculture plants made through rotational moulding or extrusion.
All products are in accordance with ISO 9001.

ADVANTAGES

> APPLICATION FLEXIBILITY
> CUSTOMISED SOLUTIONS
> WIDE SIZES RANGE

APPLICATIONS

High density polyethylene (HDPE) is widely used for the construction of floating cages.
Futura boasts a multiannual experience in the production of aquaculture pipes providing HDPE pipes coming from excellent characteristics of durability, flexibility, shock absorption and UV resistance.

HDPE pipes are usually classified based on a minimum resistance which is required for application of pressure of 20°C for 50 years, such as PE80 or PE100. The working pressure of pipes for the construction of the floating cages is not a relevant characteristic as they are the material inherent characteristics, the solid wall thickness, the weight, the impact toughness, the resistance and the flexibility.

While choosing a pipe for aquaculture, it should be used the dimension report SDR, which is the relation between diameter and thickness of the pipe. High values of the SDR ratio reflect thinner wall thicknesses.
A fundamental factor that is important to consider while using pipes to build circular cages is the torsion ability of the pipe and the bending elastic modulus: the first factor affects the minimum bend raduis allowed for the pipe, the second one affects the effort required to obtain a specific bending.

FEATURES OF THE PIPES FOR FLOATING CAGES

Dimensional features	Respect of the dimensional features in order to apply safely the filling elements made of polystyrene and all the mounting accessories of the cage. This is why all the pipes are verified according to EN ISO 3126.
UV resistance	Pipes are tested according to ISO 6964, to guarantee a certain percentage of soot of 2% above, in order to increase significantly the polyethylene resistance to damages caused by UV rays. The dispersal of pigment is tested according to ISO 18553.
Shock absorption resistance	Pipes are tested to view the shock absorption resistance after remaining in a cold storage to simulate the heaviest working situations according to EN 744.
Flexibility	It is verified in the tensile testing, with a flexural elastic modulus guaranteed in accordance with ISO 13953.
Welding compatibility	The end-to-end welding resistance is verified in accordance with ISO 13953.
Abrasion resistance	Pipes are tested according to EN 295-3 to guarantee the maximum resistance to sand abrasion.
Chemical compatibility	Polyethylene is basically inert to sea water, to acids and strong bases according to ISO TR 10358.
Cleaning resistance	Pipes are tested to resist to cleaning with high pressure jets up to 120 bar.
Tensile strenght resistance	Pipes are tested according to ISO 6259 to resist to tensile efforts higher than 19 MPa.
Environmental compatibility	HDPE pipes are entirely recyclable and do not release compounds environmentally damaging.

ANTI BIRD CAGES

Floating cages for anti bird nets placement for the livestocks protection, consisting of HDPE pipe of different diameters to create a frame according to the layout and sizes suggested by the clients based on their needs.

SEAWORKER

SeaWorker is an innovative boat, entirely built with HDPE pipes and panels 100% pure, through manual welding done by qualified operators.
The specific shape of the hull and its characteristics, make the boat strong, fast and stable and with high load possibilities. It is suitable for those who use it for work, fishing or diving or any other application in which high performances and rurability are required.

CHECK OUT THE VIDEOS ON YouTube click here

FEET HANDRAIL BUOYS

DESCRIPTION

High density polyethylene accessories for off-shore aquaculture plants, made through rotational moulding or manual extrusion welding.
Products can be foamed on the inside to promote the resistance.
All products are in accordance with ISO 9001.

ADVANTAGES

:: APPLICATION FLEXIBILITY
:: CUSTOMISED SOLUTIONS
:: WIDE SIZES RANGE

APPLICATIONS

BUOYS WITH LIGHTING SYSTEM

Buoys with marine reporting lighting system for coastal state property areas are made of PE in yellow colour, as requested by the current reguation. On the top a pole with a target with a X shape is fixed. The target can be seen by radars and has a headlight carriage at a 3m height above the sea. The headlight, which is on the top of the pole, is up to ALA code.

ANCHORAGE BUOYS

Our Polyethylene Buoys are made with new types of plastic materials developed specifically for marine application.
Their shape and structure is designed to make the buoys highly resistant to environments and marine situations more extreme.

Anchorage buoy "Standard type"
Anchorage buoy consisting of 2 LLD-PE shells made through rotatonal moulding, filled with polystyrene with a density of 30 kg/m^3 and assembled together afterwards.
The upper eyebolt is fixed and the lower one is movable. They are connected by a steel bar with diameter 30 mm. Under each eyebolt there is a steel flange with a thickness of 5mm, for compacting the buoy, and a EPDM gasket, to guarantee the sealing.

Anchorage buoy "BB" type
Anchorage buoy which consists of 2 LLD-PE shells made through rotational moulding, filled with polystyrene with a density of 30 kg/m^3 and assembled together afterwards.
On the upper and lower part there are two PE flanges witha thickness of 20 mm, to which a pipe is welded a pipe with a inner diameter of ID= 110 mm. Afterwards, these flanges are welded to the buoy to guarantee a perfect sealing.

FEET

The feet design can have two or three (sometimes also four) sites for the floating pipes (A) and an addtional site for the supporting pipe of the walkway (B).
In the upper part of the pillar there is a site where the HDPE pipe is placed and which has an handrail fuction (C).
Feet can be equipped with connection points specifically designed for the net anchorage and the dead bodies (D) through cables or ropes.
Finally, inside the foot it can be a site for the connection to the sinking system and, in case of heaviest apllication, for the placement of a safety chain which prevents the rupture of the floating ring in those installations that are more exposed to the waves movements.
FUTURA can provide a wide range of feet designed in accordance with the requirements of the client, engineered by the R&D department based on the site's characteristics and the required strenght of the cage.
FORMED FOOT made through end-to-end welding (UNI 10520) with HDPE pipes with OD.... and welding made with portable extruder of the HDPE panels in conformity with prEN 13476-1 by patented workers according to DVS 2212-2.

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

TUNNELS

click on the notch to access the section

BIM AVAILABLE

NO FIRE FLAME-TRAP STORM DRAIN

click here

BIVALENT FLAME TRAP BUILT INTO THE DRAINAGE SYSTEM (ENVIRONMENTAL PROTECTION) FOR ROAD SURFACES INSIDE TUNNELS

CHECK OUT THE VIDEOS ON YouTube

click here

DESCRIPTION

Providing and installation of telescopic storm drain with double siphon with flame trap and liquids collection functions, made of polyethylene (PE) in fire resistance class V2 (UL94), provided by a company in accordance with UNI EN 9001. The upper part consists of a collection tray with a light which is 1000 x 200 mm utilities, provided with a grid made of ductile iron with a carriage way class of D400. The lower part consists of a base tank which is in common, with two lateral sockets for the connection (IN-OUT) of corrugated pipes; the upper part of the tank is provided with 3 specific sizes of entrance, each of which with a specific socket for connecting the above tray extension. The distances placed between the 3 sizes generate between them two hollow separators, with a specific lenght that allows to generate a double siphon system along the liquids flow axis inside the storm drain, which prevents the entrance of smoke and oxygen inside the upstream and downstream collectors in case of fire inside the tunnel. This is how the NO FIRE accomplishes the breakout function by supporting the fire safety system. The entire storm drain needs to be completely incorporated in a cast concrete to reinforce the structure and preserve the proper functioning even in case of damages caused by a fire.

CERTIFICATES

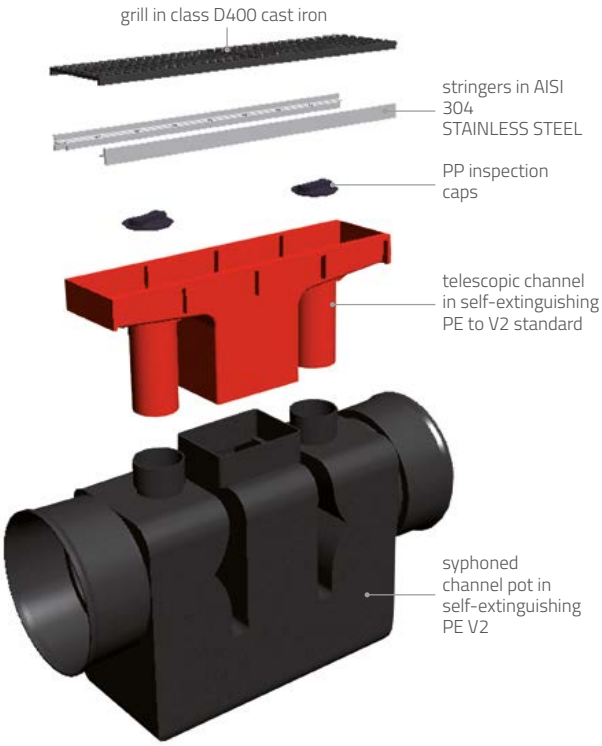
Standards / Certifications:
- UNI EN 12201-3
- UNI EN 1555-3
- UNI EN ISO 15494

ADVANTAGES

> MANAGEMENT OF ONE CHANNELING ON THE TUNNEL'S SIDE (INSTEAD OF TWO)
> REDUCTION OF THE PRODUCTION COST (PIPES AND MANHOLES)
> REDUCTION OF THE MAINTENANCE COST
> SAFETY (FIRE-FIGHTING SYSTEM)
> TESTED FUNCTIONALITY

APPLICATIONS

NO FIRE gully has been designed for **PERSONAL SAFETY** (fire-fighting system) and **ENVIRONMENTAL** plants (unintentional pollution spill) which are able to satisfy the modern regulatory requirements of tunnels.



COMPOSITION

NO FIRE gully drain is made of polyethylene PE in V2 class of fire resistance (UL94).

UPPER BODY with cast iron drain grid (driveway D400), consisting of liquids collection tray with 3 vertical exits equipped with extensions: the central one is four-sided for leading the liquids to the tank below, while the two outer circular extensions (closed with a screw tap and a gasket) are needed to create the inspection and maintenance operations of the system near the entrance of the pipes. The extensions of the exits can be cut to adjust the height looking at the needs of installation.

LOWER BODY consisting of a tank with: 3 sockets in the upper part with gaskets for the connection to the 3 extensions of the upper body. The extensions are connected to the tank in 3 points separated by two vertical separators, which divide the tank in 3 parts leaving the base in common in order to establish a DOUBLE SIPHON system (water inside) which prevents the air entrance, but allows the liquids flow on the inside. On both sides of the tank there are the sockets connected to the manifold (corrugated standard pipes).

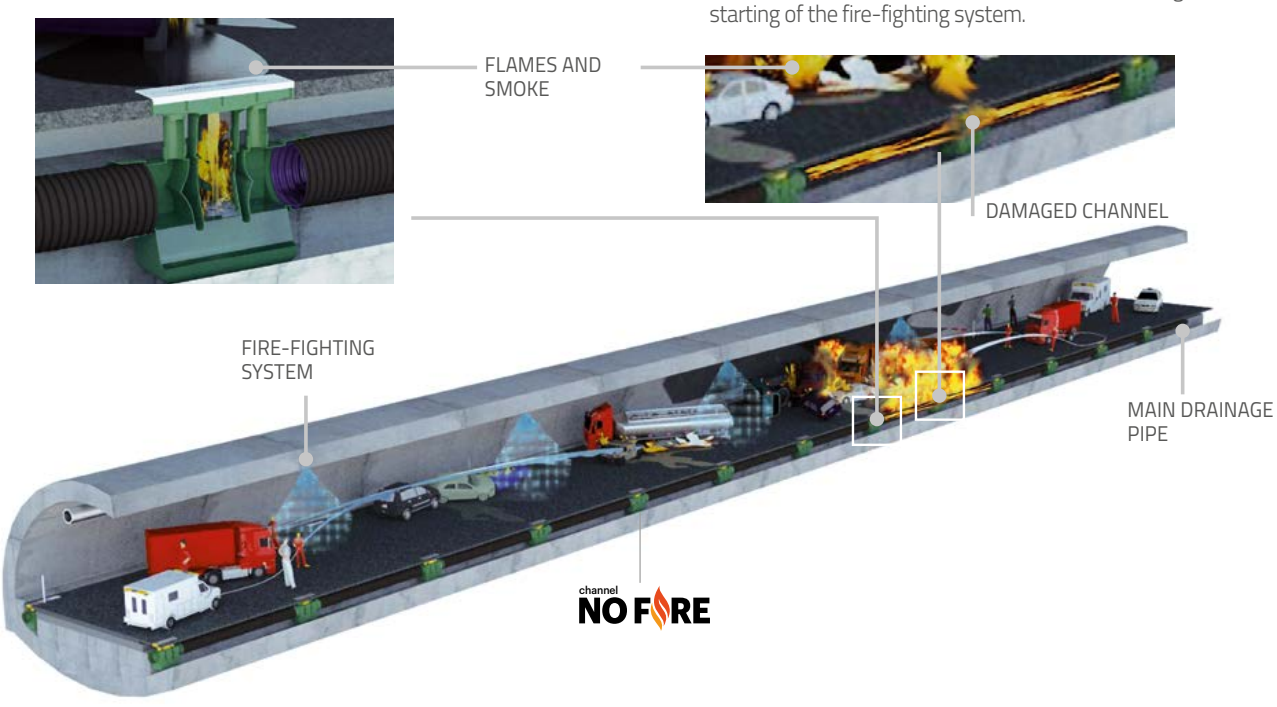
NO FIRE STORM DRAIN FUNCTIONALITY

BARRIER AGAINST FLAMES AND SMOKE

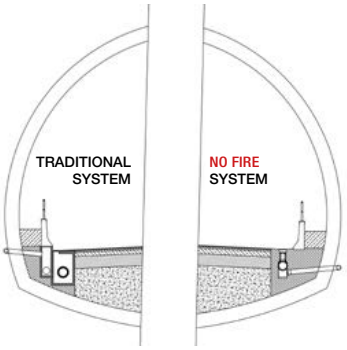
In case of fire, the level of the water that is inside the **NO FIRE** creates a barrier effect to prevent the FLAMES, SMOKE and OXYGEN penetration inside the mainfold.

FLAME TRAP

The double siphon design guarantees an effect of isolation of the pipes sections upstream and downstream the **NO FIRE** gully. In case of entrance of flammable liquids inside the system and the subsequent combustion initiation, the lack of air exchange possibility inside the mainfold extinguished the fire mainly for asphyxiation, other than for continuous dilution caused by the entrance of the external drainage water inside the tunnel and for the entrance of the water coming from the starting of the fire-fighting system.



NO FIRE STORM DRAIN FUNCTIONALITY

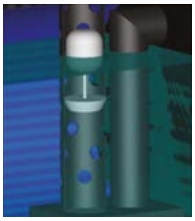


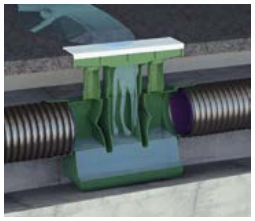
BIVALENT SYSTEM, allows to:
manage the external drainage water of the tunnel inside together with the unintentional spill of the water;
obviate the construction and management of a second drainage system inside the tunnel.

The system can be also made by keeping the two drainage lines inside the tunnel separated.

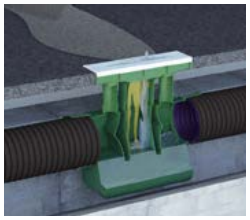
WATER DELIVERY TANK

with non-stop system of split from light liquids with non-pressure automatic shutter valve and safety bypass.

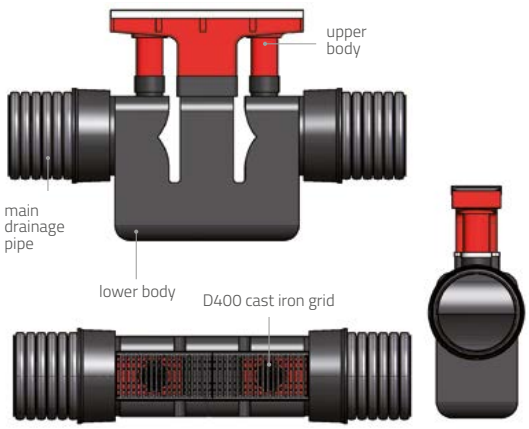




unintentional spills - washes



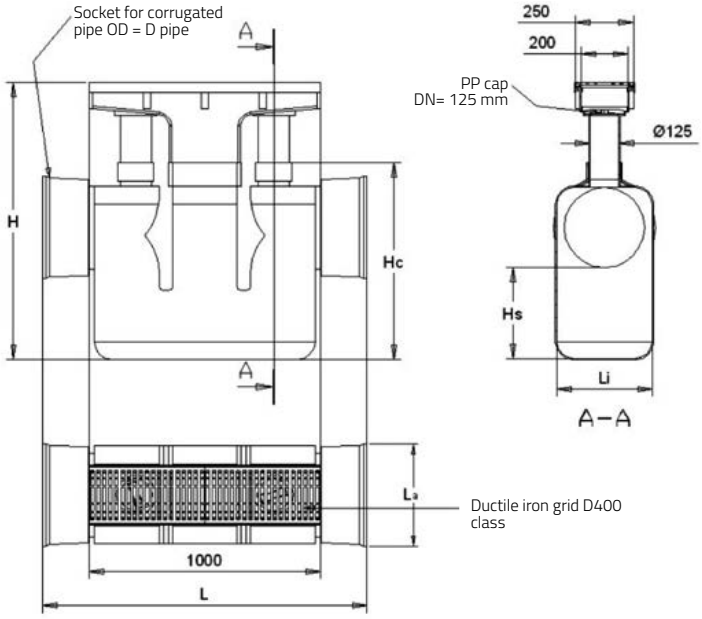
water from firefighting



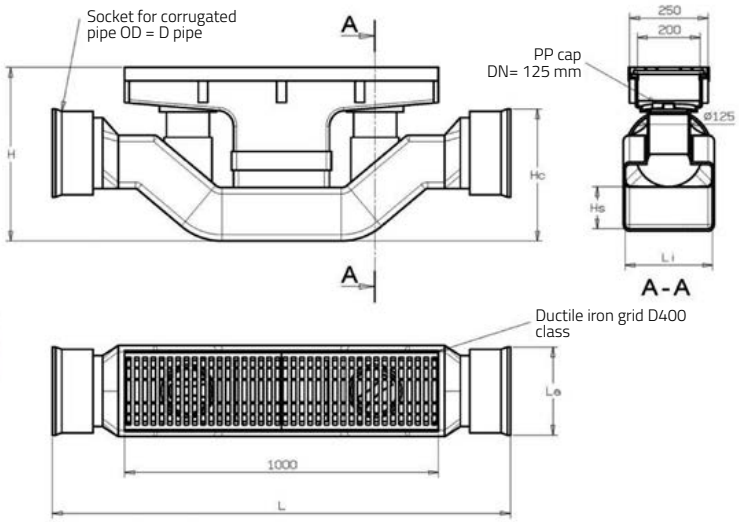
PRICE LIST

DN/OD PIPES MAINFOLD IN-OUT mm	€
468	2.080,00
400	2.070,00
350	1.970,00
315	1.720,00
250	1.330,00
250 (lowered)	1.330,00

TECHNICAL INFORMATION



DN/OD pipe	H min	H max	Hc	L	La	Li	Hs	Tolerance
mm	mm	mm	mm	mm	mm	mm	mm	mm
468	1000	1200	852	1400	494	412	340	+/- 10
400	1000	1200	852	1400	442	412	393	+/- 10
350	860	1060	670	1126	371	300	277	+/- 10
315	860	1060	670	1126	347	300	305	+/- 10
250	640	840	475	1100	300	215	170	+/- 10



DN/OD pipe	H min	H max	Hc	L	La	Li	Hs	Tolerance
mm	mm	mm	mm	mm	mm	mm	mm	mm
250	470	750	420	1460	280	280	135	+/- 10

APPLICATIONS

WATER 

SEWERAGE 

SPECIAL PIECES 

GAS 

FIRE-FIGHTING 

INDUSTRIAL SECTOR 

IRRIGATION 

BUILDING 

AQUACULTURE 

DRAINAGE 

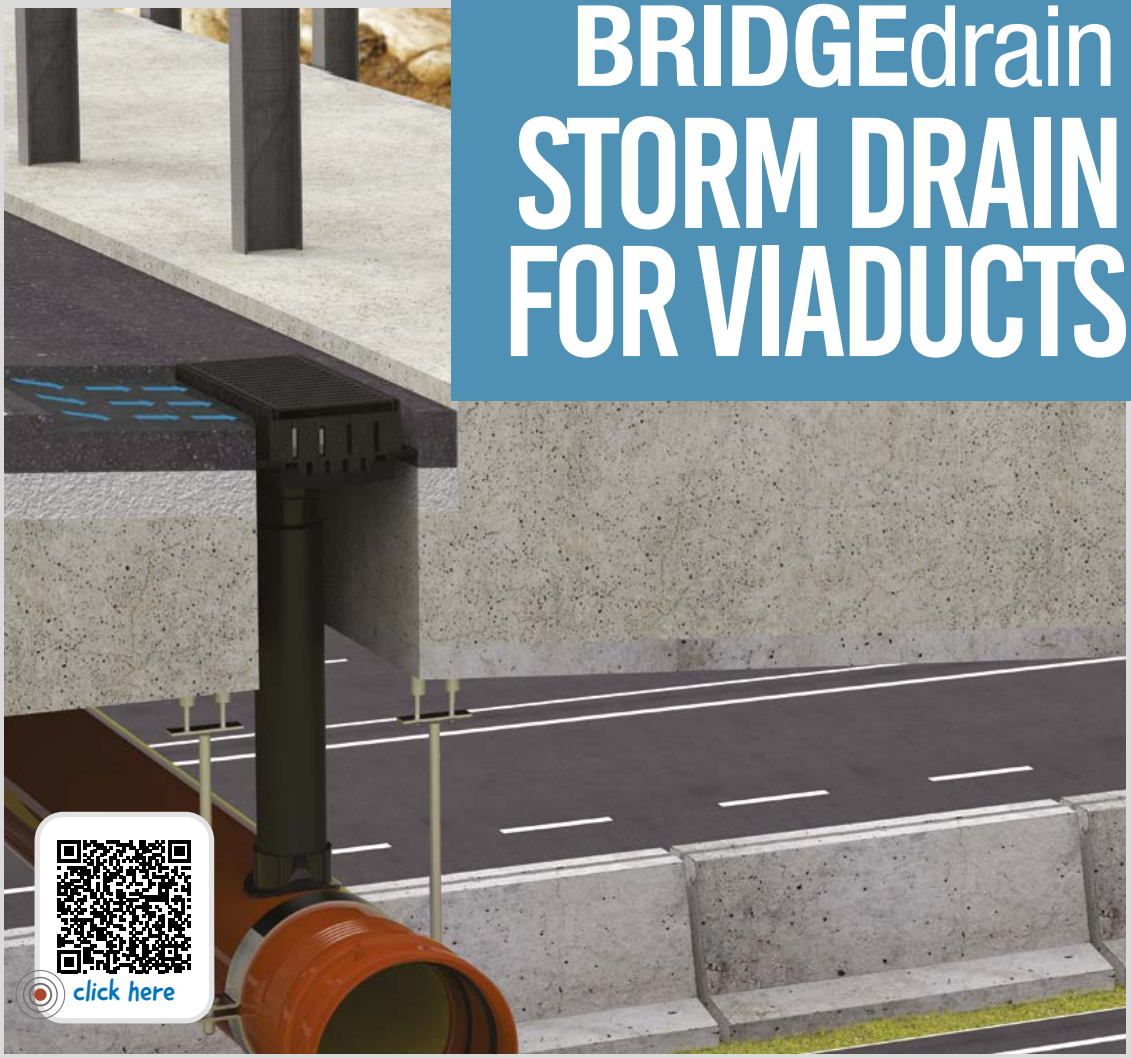
CABLE ROUTING 

HEATING & PLUMBING 

BRIDGES

click on the notch to access the section

BRIDGEdrain
STORM DRAIN FOR VIADUCTS



DESCRIPTION

Supply and installation of bridge drain in PE with D400 cast iron grid for self-draining asphalts, by a company in possession of UNI EN ISO 9001 certificate.
The bridge drain, manufactured by using the PE rotation molding technique, should have a funnel type shape suitable for draining road surfaces, with dimensions L=500 mm X D=300 mm X H <= 80mm and an outlet connection for vertical or lateral Dia.125 or Dia.110 discharge pipes. Equipped with the galvanized steel anchors for embedding in concrete, the BRIDGEdrain is to be installed in accordance with EN1433 standards, using Rck 35 N/mm² concrete to ensure class D400 load resistance.
Fitted with a lateral cast iron vertically slotted in H=95mm, the drain guarantees the collection of water from the self-draining asphalt layer coated on the road.

ADVANTAGES

- > SUITABLE FOR USE WITH SELF-DRAINING ASPHALT DUE TO ITS LATERAL COLLECTION CAPACITY
- > LOAD CLASS D400 ACCORDING TO EN124 STANDARDS, SUITABLE FOR THE PASSAGE OF VEHICULAR TRAFFIC
- > REDUCED DIMENSIONS (50 CM LONG) TO ALLOW MINIMALLY INVASIVE INSTALLATION
- > FUNNEL SECTION TO PREVENT PONDING
- > SIMPLE CONNECTION TO THE COLLECTOR
- > EASY TO MAINTAIN
- > EXTREMELY VERSATILE, TO THE DIFFERENT OUTLET POSITIONS

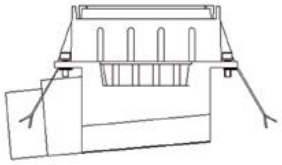
APPLICATIONS

TECHNICAL SPECIFICATION

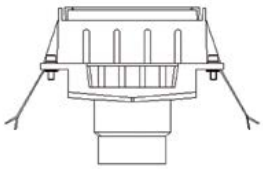
Futura S.p.A. has been implementing its vast experience in the New Road Systems products manufacturing for many years. One of these products is the **BRIDGEdrain**, designed specifically for draining water from interrupted road surfaces. The special slotted grid support and the hopper shaped interior also allow the water that normally flows across the roadway, between the wearing course and the binder, to be drained away without ponding or blockages, either in the upper part, as occurs in normal channels, or laterally.
The use of polyethylene renders the new **BRIDGEdrain** durable and completely unaffected by natural or artificial corrosion phenomena such as, for example, salt spreading during winter periods. The bridge drain is easy to install due to its lightness, compact size and the galvanized steel anchors used to tighten it firmly to the concrete layer.

ITS SHAPE MAKES MAINTENANCE QUICK AND SIMPLE.

TYPES

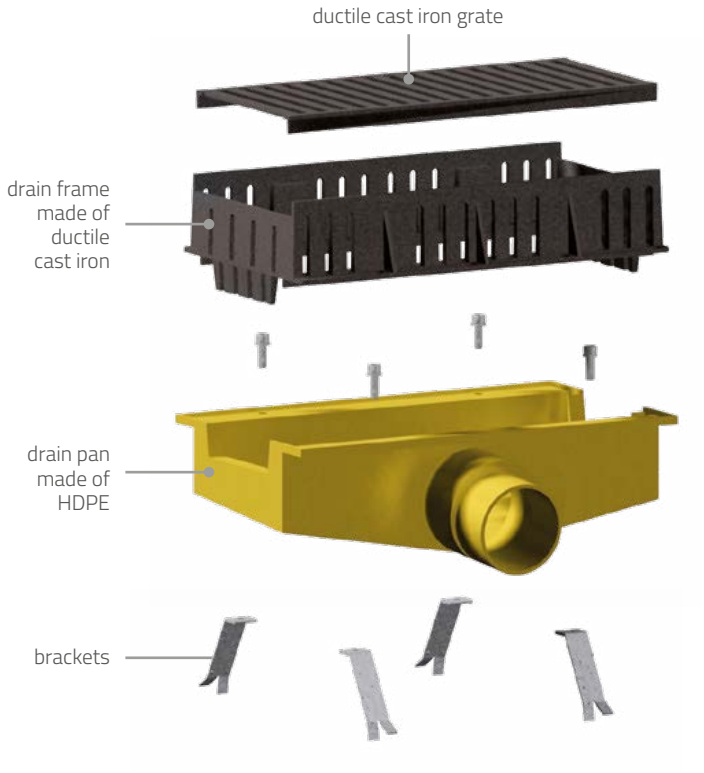


"BRIDGEdrain O"
with side outlet, suitable for collectors installed laterally with respect to the axis of the gutter.



"BRIDGEdrain V"
with vertical outlet for use when the collector is below the gutter.

COMPOSITION



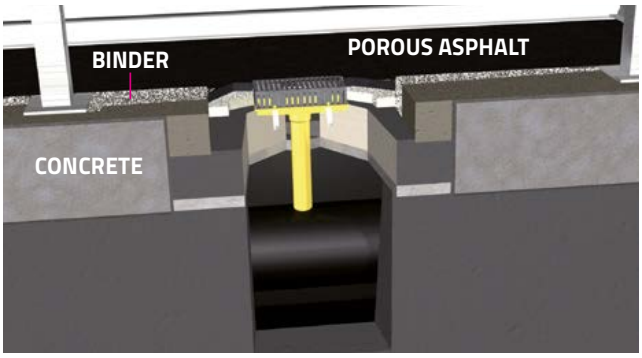
The BRIDGEdrain consists of:

- a lower part, rotomoulded in 100% virgin LLDPE, functioning as the accumulation chamber with a vertical or lateral Dia125/Dia110 outlet reducer.
- an upper part consisting of a draining casing and corresponding cover grid, both in D400 class cast iron.
- four (4) galvanised steel anchors attached to the lower part in LLDPE complete with respective screws, to secure embedding in the concrete.

TECHNICAL CHARACTERISTICS

	BRIDGEdrain "O"	BRIDGEdrain "V"
Maximum surface collection capacity	21 l/s	21 l/s
Maximum lateral drainage capacity	3,4 l/s	3,4 l/s
Maximum overall capacity	27 l/s	37 l/s
€/Pz	**650,00**	**650,00**

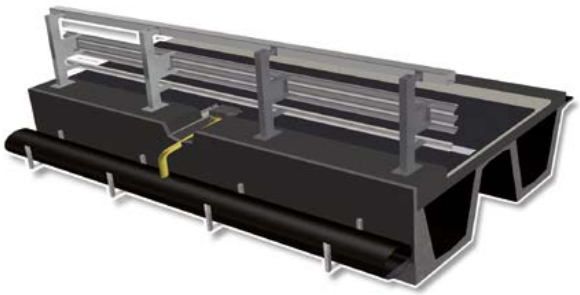
INSTALLATION INSTRUCTIONS



1. Fully embed the lower part of the drain (in PE) in wet concrete class 35kN/mm²
2. Position the D400 cast iron grill support on the embedded drain and fix in position using the appropriate screws
3. Position the D400 cast iron grill on the support

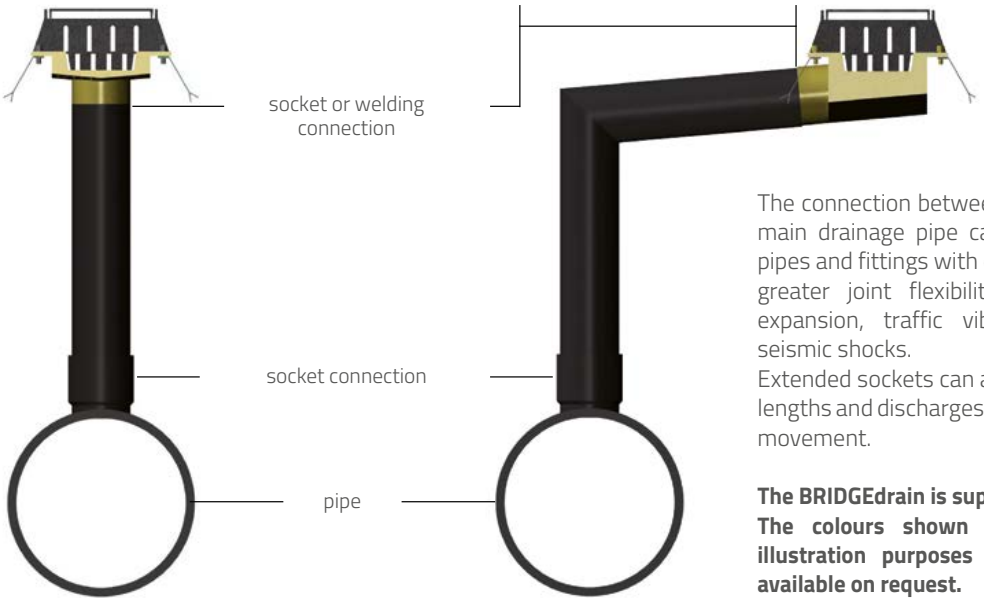
EXAMPLES OF USAGE

BRIDGEdrain "O"



BRIDGEdrain "V"

EXAMPLES OF USAGE



The connection between the drain itself and the main drainage pipe can be made using HDPE pipes and fittings with extended sockets to allow greater joint flexibility in cases of thermal expansion, traffic vibration, settlement and seismic shocks.
Extended sockets can also be welded to the pipe lengths and discharges to absorb any longitudinal movement.

The BRIDGEdrain is supplied entirely in black. The colours shown in the figures are for illustration purposes only. Other colours are available on request.

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

ROADS

click on the notch to access the section

CHANNELS

DESCRIPTION

PP drainage channel SabDrain channel, certified for the fire resistance in V2 class, according to UL94, in conformity with UNI UN1433, equipped with ribs of external tightening, system of hooking between channels with M/F front interlocking with two steel safety clips.
All products are in accordance with ISO 9001.

ADVANTAGES

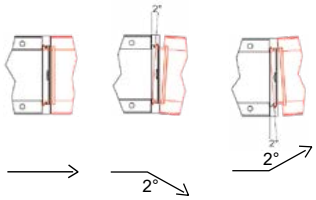
> EASE OF INSTALLATION
> APPLICATION FLEXIBILITY
> CUSTOMISED SOLUTIONS
> WIDE SIZES RANGE
> ABRASION AND FIRE RESISTANCE

CERTIFICATES

Standards / Certifications:
- UNI EN 1433

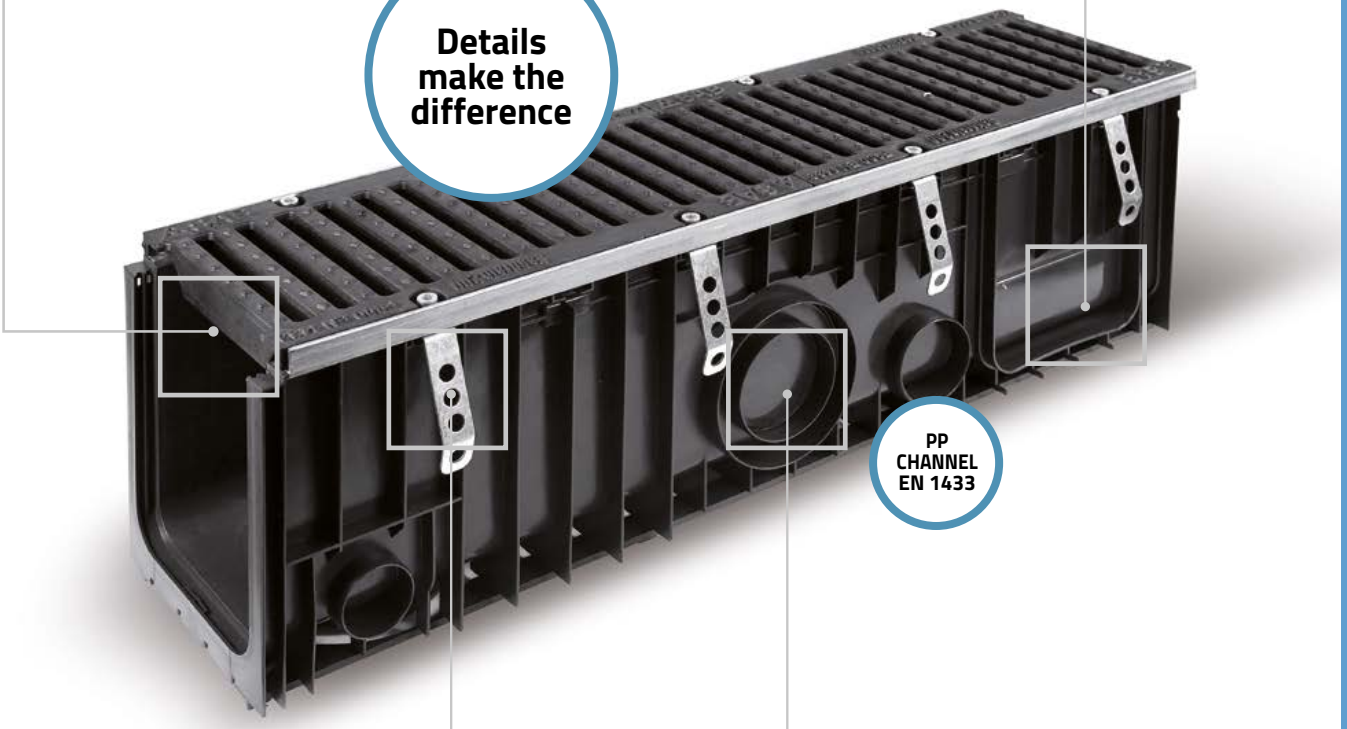
APPLICATIONS

1 CONNECTION
Male/female
embedding system



3 LATERAL CONNECTION
90° embedding presetting

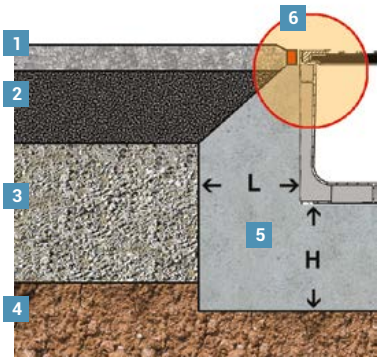
Details make the difference



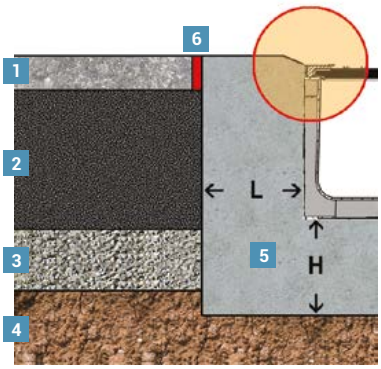
2 ANCHORAGE
The anchorage of the grids

4 PIPES CONNECTION
Preset pipe connections

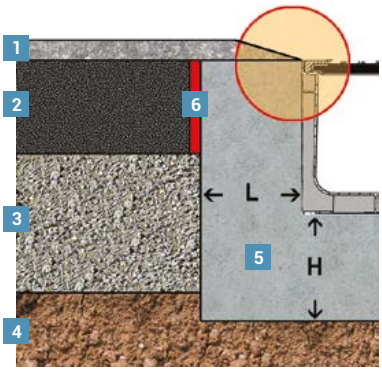
ASPHALT, LOAD CLASS UP TO C250



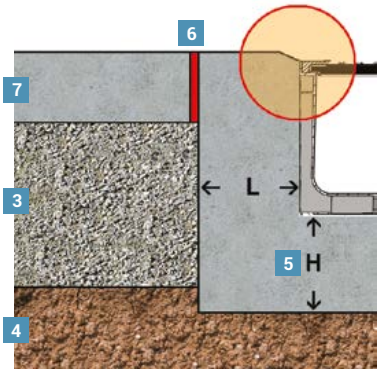
ASPHALT, LOAD CLASS D400-F900



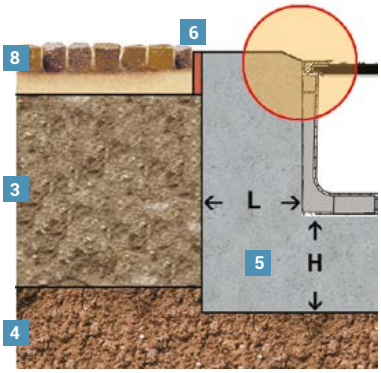
DRAINING ASPHALT

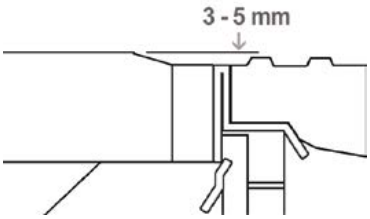


CONCRETE SLAB



SELF PAVING





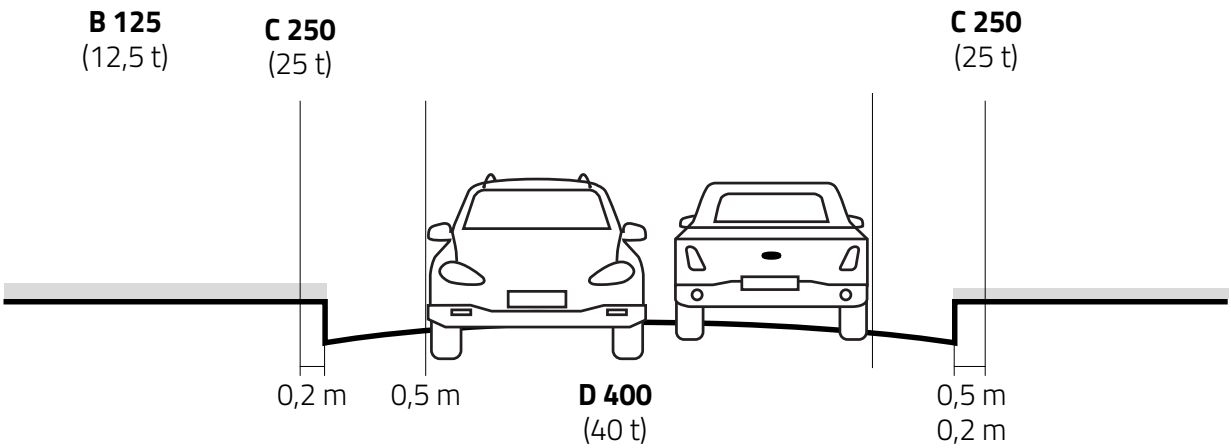
1 Waring asphalt layer
2 Lower layer (binder)
3 Bearing layer
4 Under backfill
5 Concrete backfill
6 Bitumen joint
7 Concrete slab
8 Self blocking paving

DIMENSIONS AND FEATURES OF THE CONCRETE SUPPORT

	L mm	H mm	Rck (EN 206-1)	Consistency UNI 9858	Abrams cone UNI 9418	Aggregate D max	Cement	Dosing
A15	100	80	C 25/30	S5	> 220 mm	8 mm	42,5 r	300 kg/m³
B125	100	100	C 25/30	S5	> 220 mm	8 mm	42,5 r	300 kg/m³
C250	150	150	C 25/30	S5	> 220 mm	8 mm	42,5 r	300 kg/m³
D400	200	200	C 25/30	S5	> 220 mm	8 mm	42,5 r	300 kg/m³
E600	200	200	C 30/37	S5	> 220 mm	8 mm	42,5 r	300 kg/m³
F900	250	250	C 35/45	S5	> 220 mm	8 mm	42,5 r	300 kg/m³

CHOOSE YOUR SABDRAIN CHANNEL ACCORDING TO THE SUITABLE LOAD CLASS

CLASS		RESISTANCE		USE
	A15	15 kn	1500 kg	Pedestrian, precincts, cycle-lanes, parks
P	B125	125 kn	12500 kg	Sidewalks, lay by, car parks multilevel
	C250	250 kn	25000 kg	Strip that extends from 50cm of the carriageway to 20cm on the sidewalk
	D400	400 kn	40000 kg	Carriageway of roads and highways
	E600	600 kn	60000 kg	Industrial and harbour sites used for heavy loading
	F900	900 kn	90000 kg	Airports, army bases, heavy loading areas



CODE
25 704C

C250

COMPOSITION

n.1 Steel edged PP channel

n.2 Cast iron grids

n.1 Fix kit
n.8 anchors M10
n.8 screws M10x25

CODE	L x H	L1 x H1	kg	pack	€/m	€/m	€/m	€/m
525 1005 704CS	100 x 50	150 x 100	13,0	84	155,30	43,50	96,20	15,60
525 1010 704CS	100 x 100	150 x 150	13,6	56	158,70	46,90	96,20	15,60
525 1015 704CS	100 x 150	150 x 200	14,1	42	163,40	51,60	96,20	15,60
525 1510 704CS	150 x 100	200 x 150	16,8	48	190,00	55,00	119,40	15,60
525 1515 704CS	150 x 150	200 x 200	17,5	36	195,00	60,00	119,40	15,60
525 200 5704CS	200 x 50	250 x 100	19,2	60	233,30	56,30	161,40	15,60
525 2010 704CS	200 x 100	250 x 150	19,7	40	236,20	59,20	161,40	15,60
525 2015 704CS	200 x 150	250 x 200	20,2	30	239,00	62,00	161,40	15,60
525 2020 704CS	200 x 200	250 x 250	20,7	25	243,30	66,30	161,40	15,60
525 2025 704CS	200 x 250	250 x 300	21,2	20	246,20	69,20	161,40	15,60
525 2030 704CS	200 x 300	250 x 350	21,7	20	249,00	72,00	161,40	15,60

CODE
25 704D

D400

COMPOSITION

n.1 Steel edged PP channel

n.2 Cast iron grids

n.1 Fix kit
n.8 anchors M10
n.8 screws M10x25

CODE	L x H	L1 x H1	kg	pack	€/m	€/m	€/m	€/m
525 1005 704DS	100 x 50	150 x 100	13,2	84	169,50	43,50	110,40	15,60
525 1010 704DS	100 x 100	150 x 150	13,8	56	172,90	46,90	110,40	15,60
525 1015 704DS	100 x 150	150 x 200	14,3	42	177,60	51,60	110,40	15,60
525 1510 704DS	150 x 100	200 x 150	17,6	48	215,00	55,00	144,40	15,60
525 1515 704DS	150 x 150	200 x 200	18,3	36	220,00	60,00	144,40	15,60
525 2005 704DS	200 x 50	250 x 100	20,8	60	261,70	56,30	189,80	15,60
525 2010 704DS	200 x 100	250 x 150	21,3	40	264,60	59,20	189,80	15,60
525 2015 704DS	200 x 150	250 x 200	21,8	30	267,40	62,00	189,80	15,60
525 2020 704DS	200 x 200	250 x 250	22,3	25	271,70	66,30	189,80	15,60
525 2025 704DS	200 x 250	250 x 300	22,8	20	274,60	69,20	189,80	15,60
525 2030 704DS	200 x 300	250 x 350	23,3	20	277,40	72,00	189,80	15,60

CODE
25 704F

F900

COMPOSITION

n.1 Steel edged PP channel

n.2 Cast iron grids

n.1 Fix kit
n.8 anchors M10
n.8 screws M10x25

CODE	L x H	L1 x H1	kg	pack	€/m	€/m	€/m	€/m
525 1005 704FS	100 x 50	150 x 100	15,6	84	**173,30**	**43,50**	**114,20**	**15,60**
525 1010 704FS	100 x 100	150 x 150	16,2	56	**176,70**	**46,90**	**114,20**	**15,60**
525 1015 704FS	100 x 150	150 x 200	16,7	42	**181,40**	**51,60**	**114,20**	**15,60**
525 1510 704FS	150 x 100	200 x 150	22,6	48	**240,60**	**55,00**	**170,00**	**15,60**
525 1515 704FS	150 x 150	200 x 200	23,3	36	**245,60**	**60,00**	**170,00**	**15,60**
525 2005 704FS	200 x 50	250 x 100	32,6	60	**288,90**	**56,30**	**217,00**	**15,60**
525 2010 704FS	200 x 100	250 x 150	33,1	40	**291,80**	**59,20**	**217,00**	**15,60**
525 2015 704FS	200 x 150	250 x 200	33,6	30	**294,60**	**62,00**	**217,00**	**15,60**
525 2020 704FS	200 x 200	250 x 250	34,1	25	**298,90**	**66,30**	**217,00**	**15,60**
525 2025 704FS	200 x 250	250 x 300	34,6	20	**301,80**	**69,20**	**217,00**	**15,60**
525 2030 704FS	200 x 300	250 x 350	35,1	20	**304,60**	**72,00**	**217,00**	**15,60**

CODE
33 704 ..

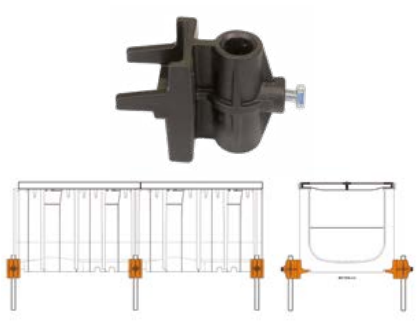
COMPOSITION

n.1 Steel edged PP drain box

n.2 Cast iron grids

n.1 Fix kit
n.4 anchors M10
n.4 screws M10x25

		H / L	L1 / H1						
C250	CODE	L x H	L1 x H1	kg	pack	€/m	€/m	€/m	€/m
	533 10 704CS	100 x 400	150 x 430	8,1	48	**134,70**	**78,80**	**48,10**	**7,80**
	533 15 704CS	150 x 400	200 x 430	9,7	36	**170,00**	**102,50**	**59,70**	**7,80**
	533 20 704CS	200 x 400	250 x 430	11,3	30	**213,00**	**124,50**	**80,70**	**7,80**
D400									
	533 10 704DS	100 x 400	150 x 430	8,2	48	**141,00**	**78,80**	**55,20**	**7,80**
	533 15 704DS	150 x 400	200 x 430	10,1	36	**182,50**	**102,50**	**72,20**	**7,80**
	533 20 704DS	200 x 400	250 x 430	12,0	30	**227,20**	**124,50**	**94,90**	**7,80**
F900									
	533 10 704FS	100 x 400	150 x 430	9,4	48	**143,70**	**78,80**	**57,10**	**7,80**
	533 15 704FS	150 x 400	200 x 430	12,6	36	**195,30**	**102,50**	**85,00**	**7,80**
	533 20 704FS	200 x 400	250 x 430	17,9	30	**240,80**	**124,50**	**105,50**	**7,80**

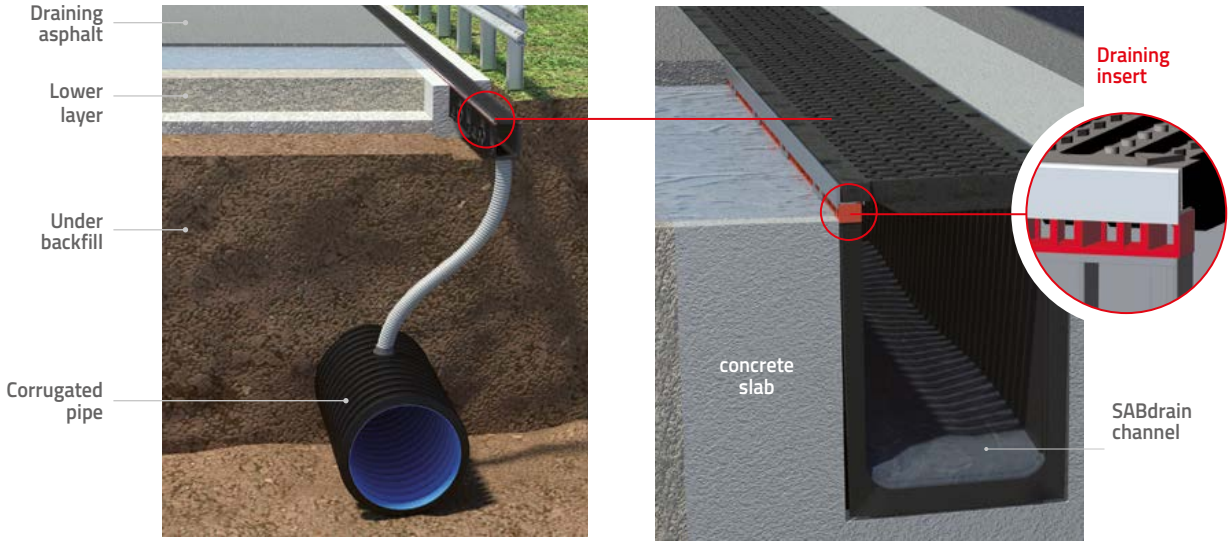


INSTALLATION SUPPORT

CODE	MATERIAL	PACK	€/pc
5006 0000	PP	10	**2,85**

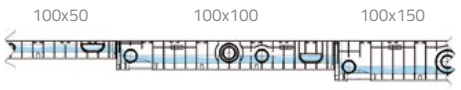
INSERT FOR DRAINING ASPHALT

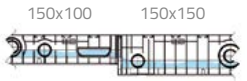
CODE	MATERIAL	DRAIN cm²	A	H	L	LOAD CLASS	KG	PACK	€	€/m
50002010050	PAGF	56	25	20	500	D400	0,2	20	**5,69**	**22,76**

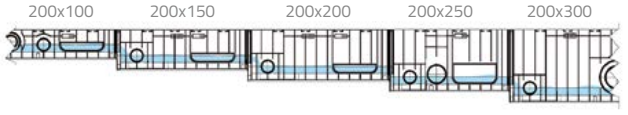


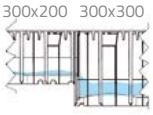
STEPPED FALL CAP

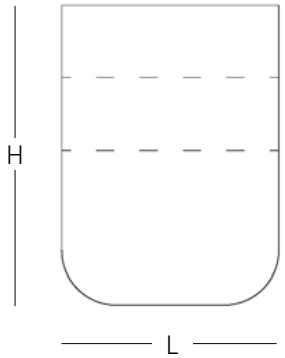
	CODE
H 50 L 100	5009 1005 **€ 11,40**
H 50 L 150	5009 1505 **€ 14,30**
H 50 L 200	5009 2005 **€ 17,10**
H 100 L 300	5009 3010 **€ 28,50**





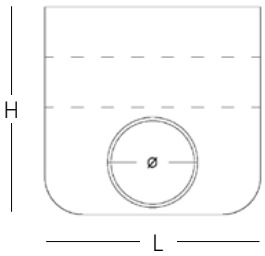






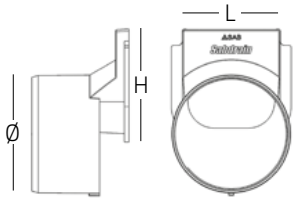
BLANK END-PLUGS

CODE	L x H	Ø	PACK	€
5006 1005	100 x 50	-	10	**4,09**
5006 1010	100 x 100	-	10	**5,57**
5006 1015	100 x 150	-	10	**7,41**
5006 1510	150 x 100	-	10	**7,41**
5006 1515	150 x 150	-	10	**9,77**
5006 2005	200 x 50	-	5	**9,90**
5006 2010	200x100	-	5	**10,60**
5006 2015	200 x 150	-	5	**10,60**
5006 2020	200 x 200	-	5	**13,60**
5006 2025	200 x 250	-	5	**15,50**
5006 2030	200 x 300	-	5	**18,10**
5006 3020	300 x 200	-	1	**41,30**
5006 3030	300 x 300	-	1	**45,20**
5006 5050	500 x 500	-	1	**71,20**

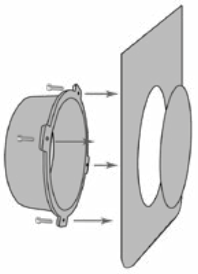


END-PLUGS WITH OFF-TAKE

CODE	L x H	Ø	PACK	€
5006 1010 075	100 x 100	75	5	**7,41**
5006 1010 090	100 x 100	90	5	**7,41**
5006 1015 090	100 x 150	90	5	**9,02**
5006 1515 110	150 x 150	110	5	**11,3**
5006 2030 090	200 x 300	110	5	**19,6**
5006 2030 160	200 x 300	160	1	**19,6**



CODE	L x H	Ø	PACK	€
5006 1010 110	100 x 100	110	1	**9,27**



SPIGOT OFF-TAKE

CODE	L x H	Ø	PACK	€
5000 7040	-	40	5	**1,24**
5000 7090	-	90	5	**1,49**
5000 7110	-	110	2	**1,79**
5000 7160	-	160	1	**3,03**

also check out
INSPECTION TEE
pag. 94

CANYON DRAINAGE CHANNELS

DESCRIPTION

The **CANYON** system consists of channel sections manufactured entirely in polyethylene, suitably reinforced with lateral stiffeners, for use as an alternative to the traditional heavy concrete channels used to channel rainwater on steep slopes such as road and railway embankments.

The **CANYON** system has been designed and produced by the SYSTEM GROUP principally to make laying operations easy and improve safety conditions for personnel carrying out the installation work.

CANYON is also extremely versatile and quick to install.

Thanks to the hinge effect of the cylindrical joints and the numerous options available for anchoring it to the ground, the **CANYON** system allows the slope of the ground to be followed without difficulty.

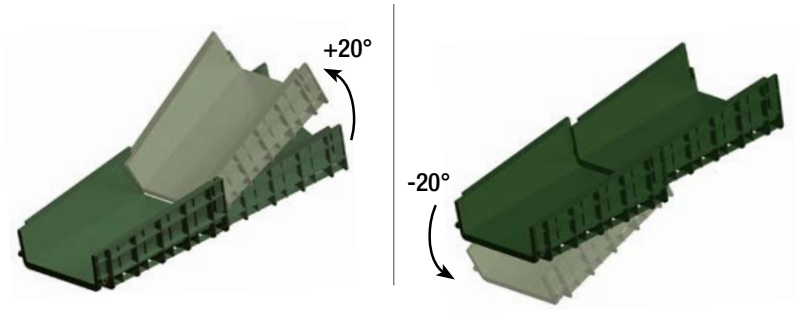
ADVANTAGES

> LIGHTNESS
> SAFETY
> SPEED AND SAVINGS
> TRANSPORT ECONOMY

APPLICATIONS

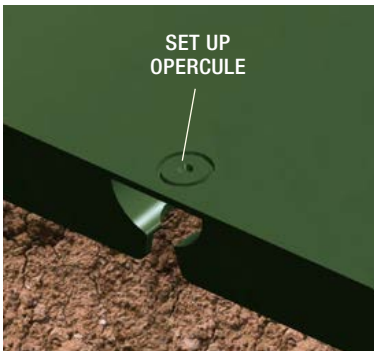


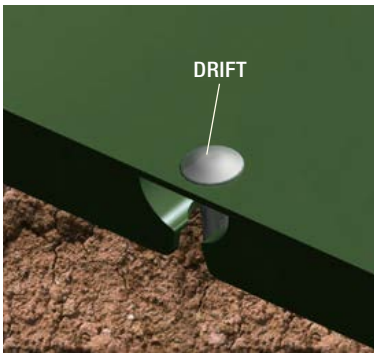

The CANYON system is made up of individual elements which can be connected together by hand. The elements are linked on both sides by placing the upper element (fitted with cylindrical pins) over the lower element (housing the pin seatings).

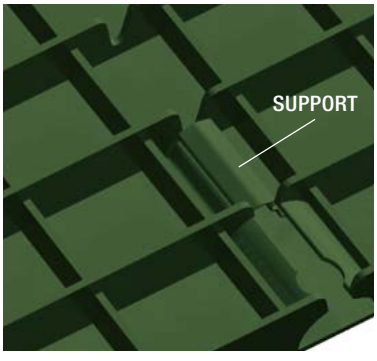


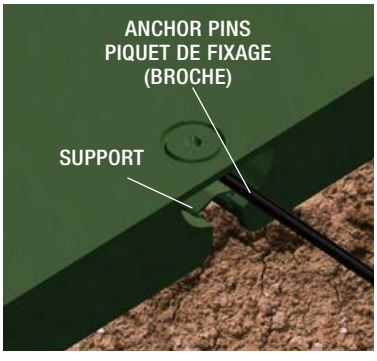
The cylindrical pins allow the joints to rotate from +20° to -20° with respect to the axis of the pins, thus allowing the channel system to be adapted to any angular variations in the surface on which it is laid.
The joints are designed with sufficient play to allow for any thermal expansion when the elements are laid in the open air, while the external fin structure helps to reduce thermal movement and strengthen the product.

LAYING









The elements of the CANYON system can be anchored to the ground to guarantee stability over time, regardless of the weight and type of material used for their manufacture. The contractor can normally provide information regarding the anchoring system and frequency required.

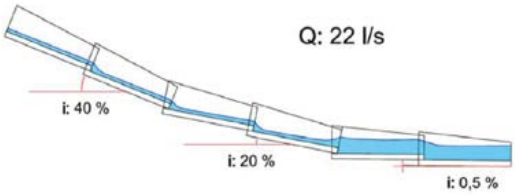
USING ANCHOR PINS

The CANYON system elements are manufactured in a manner that allows a hole to be punched in the upper surface, at the point where the overlying element overlaps it, through which an anchor pin can be inserted to fix the system to the ground.

USING A STEEL CABLE

The CANYON system elements also have a hook under the bottom surface that enables them to be anchored to a steel cable, the two ends of which must first be buried in the ground. The CANYON elements are fixed to the cable by a manual hook-up system present (moulded) on each element.

HYDRAULICS

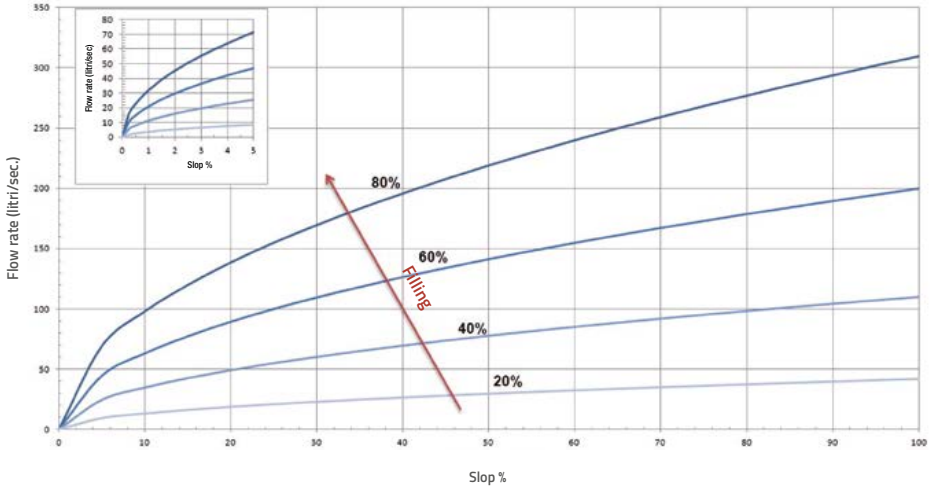


Flow rate [l/s] of the channel as a function of the gradient [%] and variation in percentage full.

The hydraulic behaviour of the CANYON system is similar to that of a rectangular section channel of width equal to the minimum width of the single channel element, considered at the narrowest section, where uniform flow conditions at the various changes in gradient are considered.

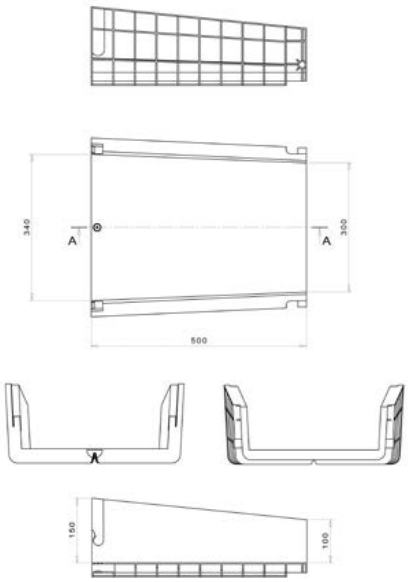
The calculations are performed using the Chezy-Strickler formula, where:
Q: uniform flow through the channel (m/s).
A: cross sectional area of flow as a function of the percentage full of the narrow section of the channel (m2).
KS: coefficient of resistance according to Gauckler-Strickler (m1/3/s).
RH: hydraulic radius: section/wetted perimeter (m).
i: gradient (m/m).

The profile created by the succession of canyon system channels can adapt to variations in gradient along its length. In order to avoid localised overflowing, the flow rate of the system must be calculated for the element laid at the minimum gradient.



TECHNICAL SPECIFICATION

The CANYON system consists of channel sections manufactured entirely in POLYETHYLENE, suitably reinforced with lateral stiffeners, for use as an alternative to the traditional heavy concrete channels used to channel rainwater on steep slopes such as road and railway embankments.
The CANYON system has been designed and produced by the SYSTEM GROUP principally to make laying operations easy and improve safety conditions for personnel carrying out the installation work.
CANYON is also extremely versatile and quick to install.
Thanks to the hinge effect of the cylindrical joints and the numerous options available for anchoring it to the ground, the CANYON system allows the slope of the ground to be followed without difficulty.



ADVANTAGES

LIGHTNESS

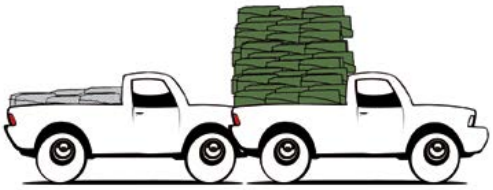
The CANYON system channel, manufactured in PE, has an average weight 23 times lower than the equivalent channel in concrete (average weight of a CANYON channel is 1.5 kg, average weight of a concrete channel is 35 kg).

SAFETY

Substantial reduction in incidents on-site during handling (the weight is well below that provided for by Legislative Decree 81/08)

SPEED AND SAVINGS

Easy to transport and lay, greatly reducing site time and costs.



TRANSPORT ECONOMY

Possibility to load bigger quantity of pieces.

click here

Examples of CANYON channel laying: easy to manage and install compared to concrete channels.

PRICE LIST

	Size mm	€/pz.
Canyon channel	340 x 500 x 150 h	**35,00**
Anchor pins	on request	•
Steel cable	on request	•

• on request

APPLICATIONS

WATER 

SEWERAGE 

SPECIAL PIECES 

GAS 

FIRE-FIGHTING 

INDUSTRIAL SECTOR 

IRRIGATION 

BUILDING 

AQUACULTURE 

DRAINAGE 

CABLE ROUTING 

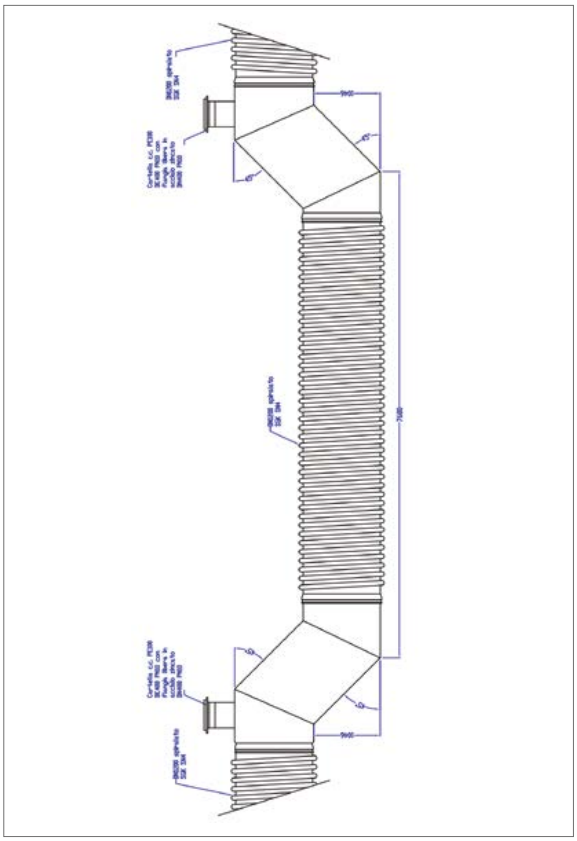
HEATING & PLUMBING 

COLLECTORS

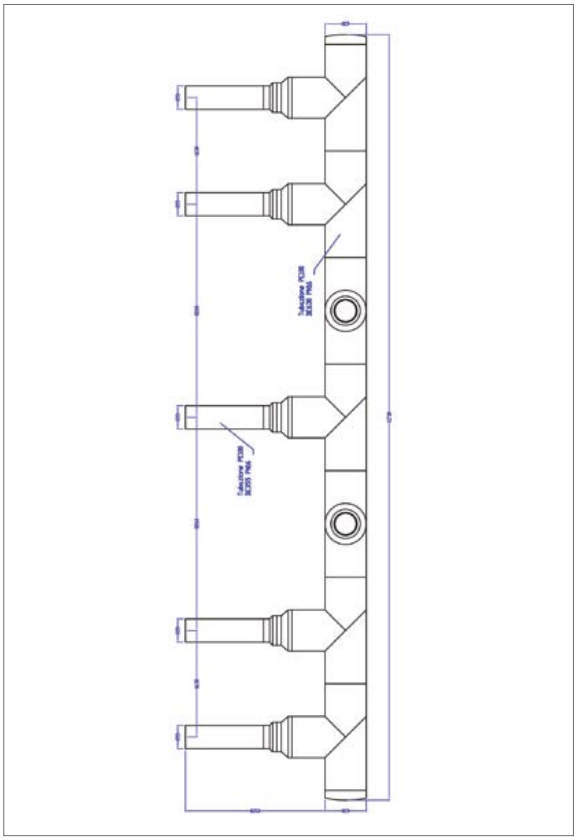
Collector Ø800 PN6 SDR26 PE100
San Benedetto del Tronto (AP)

click on the notch to access the section

FUTURA PRODUCES CUSTOMISED COLLECTORS AND SPECIAL PIECES, FOLLOWING THE CLIENT FROM THE PLANT DESIGN TO ITS CONSTRUCTION AND IN THE DELIVERY AND THE RELATED IMPLEMENT.

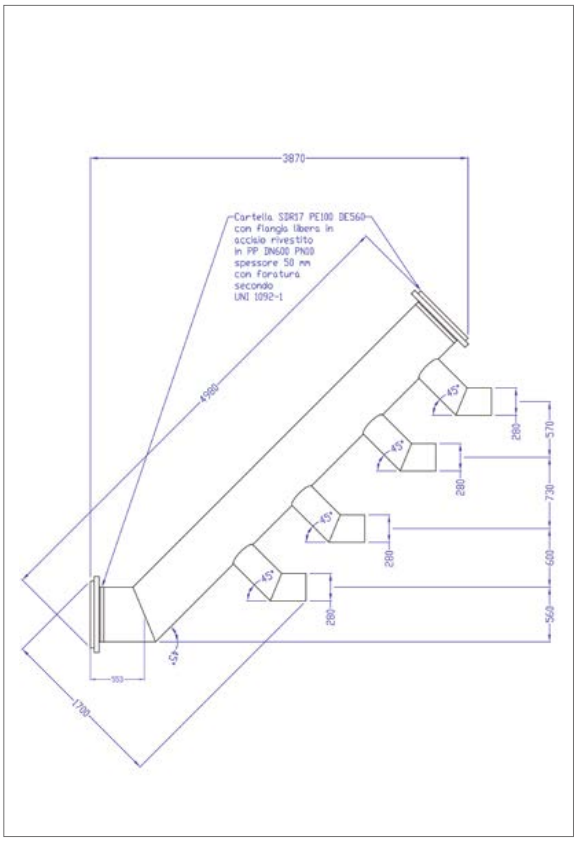


Siphon SGK Ø1200 PN1 SN4 HDPE
Ravenna (RA)

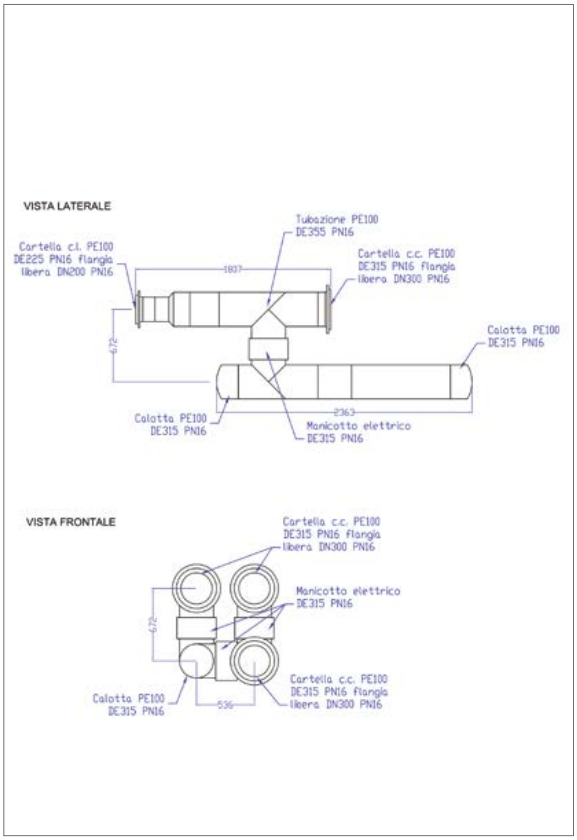


Collector Ø500 PN10 SDR17 PE100
13105 Mimet (Francia)

FUTURA HAS AN ADVANCED TECHNICAL DEPARTMENT, ALWAYS AT THE CLIENT'S SERVICE, WHICH IS ABLE TO PROVIDE 3D DRAWINGS AND TECHNICAL SPECIFIC INFORMATION REQUESTED.



Collector Ø560 PN10 SDR17 PE100
13105 Mimet (Francia)



Collector Ø400 PN10 SDR17 PE100
8620 Wetzikon (Svizzera)

APPLICATIONS

WATER 

GAS 

IRRIGATION 

DRAINAGE 

SEWERAGE 

FIRE-FIGHTING 

BUILDING 

CABLE ROUTING 

SPECIAL PIECES 

INDUSTRIAL SECTOR 

AQUACULTURE 

HEATING & PLUMBING 

click on the notch to access the section

MARINE APPLICATION

SYSTEM GROUP | Marine Division

click here

DOCKS

DESCRIPTION

Design and construction of complete systems made of multimaterial for marine applications, such as floating docks, finger and rods, for mooring boats and service pedestals.
All products are in accordance with ISO 9001.

ADVANTAGES

> APPLICATION FLEXIBILITY
> CUSTOMISED SOLUTIONS
> WIDE SIZES RANGE
> MARINE AGENTS RESISTANCE

CERTIFICATES

Standards / Certifications:
- IP 65

APPLICATIONS

DOCKS

- Docks are available in different configurations, ranging from 6-12m in length and 1,8-3 m in width.

Technical characteristics:

- Galvanized steel structure, 120 µ thickness according to UNI EN ISO 1461
- Floats in rotational PE, colour of choice, 5-6 mm thickness with 15 kg/m2 polystyrene bloc inside
- Exotic wood slats with antiskid surface
- Connection elements made of neoprene blocks or hinges
- Interchangeable anchor hooks
- Mooring rings made of INOX steel
- Lateral channels made in wooden or aluminium slats, for electric and hydric lines
- Wooden or rubber fenders

As an alternative to polyethylene floats, reinforced concrete floats can be used.

ROWING PIERS

Rowing piers are designed according to their specific use: low free deck (18/20 cm) and strong loading class (100/120 kg/m^2). Rowing piers are constructed in rotational polyethylene floats, which come in different configurations: 6-12 m in length and 2,40-3 m in width.

Rowing piers with sliding arm, alignment and timing towers, can also be produced. Recently, the company has constructed rowing piers on Sabaudia and Varese lakes, as well as rowing platforms for Circolo Canottieri Aniene and Ministry of Foreign Affairs Circolo on Tiber.

RP TWO PLUS

The provider of nautical services Marina Point **RP TWO PLUS** is a compact and flexible machine designed for using it as a distribution point of electricity, water, notifications, information and more, in marinas. The provider is designed so that the user can have access by himself, in simplicity, in safety and at every hour. The utilities authorisation and the allocation of the related costs to the users takes place through a transponder electronic key scanner. The logic of management can happen with subsequent charge or with scaling charge. In the first case the user is provided with a specific key in which a personal code is stored that once the control unit reads it, it allows to choose which utility to use and from that moment counts the consumptions and assigns them to the read code. In the secondo case, the user charges the key with a variable amount and enables the utilities thus transferring that credit inside the control unit.
The polyethylene outer structure produced in one-piece with rotational moulding guarantees an high shock absorption, solar radiations resistance, chemical and salt resistance, The same outer envelope can be done in a wide colours range.

Sizes:	300 x 300 x 1100 mm
Envelope material:	linear PE, anti UV mass-coloured
Protection degree:	IP65
Lightning:	vertical LED bar with high efficiency

click here

CHECK OUT
THE VIDEOS ON
YouTube

click here

RP ONE PLUS

The provider of nautical services Marina Point **RP ONE PLUS** is a compact and flexible machine designed for using it as a distribution point of electricity, water, notifications, information and more, in marinas.
The provider is designed so that the user can have access by himself, in simplicity, in safety and at every hour. The utilities authorisation and the allocation of the related costs to the users takes place through a transponder electronic key scanner. The logic of management can happen with subsequent charge or with scaling charge. In the first case the user is provided with a specific key in which a personal code is stored that once the control unit reads it, it allows to choose which utility to use and from that moment counts the consumptions and assigns them to the read code. In the secondo case, the user charges the key with a variable amount and enables the utilities thus transferring that credit inside the control unit.
The polyethylene outer structure produced in one-piece with rotational moulding guarantees an high shock absorption, solar radiations resistance, chemical and salt resistance, The same outer envelope can be done in a wide colours range.

Sizes:	600 x 300 x 1200 mm
Envelope material:	linear PE, anti UV mass-coloured
Protection degree:	IP65
Lightning:	LED points

FIRE POINT FIRE EXTINGUISHER AND HYDRANT CARRIER

The **Fire Point** column is a practical box of accomodation and protection.
The quick-release front door or the front breakable glass allows, in case of fire, to open the door and use the fire extinguisher and use the monitor nozzle.
The polyethylene outer structure produced in one-piece with rotational moulding guarantees an high shock absorption, solar radiations resistance, chemical and salt resistance, The same outer envelope can be done in a wide colours range.

learn more about HERE

4.0 READY

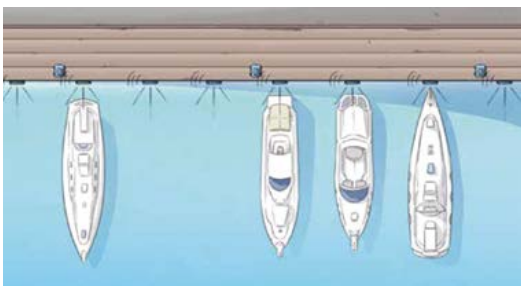
RP ONE PLUS and **RP TWO PLUS** service pedestals with the implementation of interconnection, are functional to the technological and digital transformation of companies in accordance with the 4.0 transition model.
Thanks to these specific characteristics it is possible to use tax credit facilities according to the current law.

DARSENA 4.0 SOFTWARE

The DARSENA software makes easy and safe the credit management and the supply of the pedestal services.
Thanks to DARSENA 4.0 is possible to create clients' data to which assign one or more boats and is possible to assign one or more keys to every boat for the credit management.
Clients' data also allows the usage of information that are freely manageable by the user.

FUNCTIONS AND USE OF THE SOFTWARE

1. Enter the data and assign the keys
2. Recharge the credit of the keys
3. Use of the map
4. Alarms



SYSTEM OF BOATS DETECTION FOR MARINAS

PLATFORMS AND FLOATING BREAKWATERS

DESCRIPTION

Design and construction of the multimaterial floating platforms of mooring services and coastline protection.
All products are in accordance with ISO 9001.

ADVANTAGES

> APPLICATION FLEXIBILITY
> CUSTOMISED SOLUTIONS
> WIDE SIZES RANGE
> MARINE AGENTS RESISTANCE

CERTIFICATES

Standards / Certifications:
- UNI 10565

APPLICATIONS

FLOATING PLATFORMS

Floating platforms can be made in any shape or dimension, according to the various needs.
On request, various gear can be installed: derrick, pumping stations, covers, etc.
Floats can be made of Polyethylene or reinforced concrete.

FLOATING BREAKWATER

Floating dock made of reinforced concrete with a polystyrene core.
The connection between modules takes place through special shock absorber joints.
The anchorage takes place through two wells for every head with anchorage through dead bodies and catenary. For the plants transit a variable numer of ducts is placed, and is possible to insert wells for the connection branches of the service pedestals.
Mooring bollards for boats can be anchored to the structure.

CHECK OUT THE VIDEOS ON YouTube

BOATS

SEAWORKER is an innovative boat, entirely built with HDPE pipes and panels 100% pure, through manual welding done by qualified operators.
The specific shape of the hull and its characteristics, make the boat strong, fast and stable and with high load possibilities. It is suitable for those who use it for work, fishing or diving or any other application in which high performances and durability are required.
The types suggested by Futura, SW550 and SW750, can both be set up according to the individual need of the client and both have the Bureau Veritas certification.

APPLICATIONS

WATER 

SEWERAGE 

SPECIAL PIECES 

GAS 

FIRE-FIGHTING 

INDUSTRIAL SECTOR 

IRRIGATION 

BUILDING 

AQUACULTURE 

DRAINAGE 

CABLE ROUTING 

HEATING & PLUMBING 

REFERENCES

Collector Ø1000 PN16 SDR11 PE100
74637 Balsta (Svezia)

Bridgedrain - *Cuneo (CN)*

Siphon Ø1200 - *Milano (MI)*

Special piece Ø1400 SP40 SGK VW HDPE - *Cengio (SV)*

Bridgedrain - *Savona (SV)*

Manhole Ø1000 PN6 SDR 26 PE100 - *Terlano (BZ)*

Washing tower Ø1800 SN4 SGK HDPE - *Cremona (CR)*

Welding intervention 2000 - *Genova (GE)*

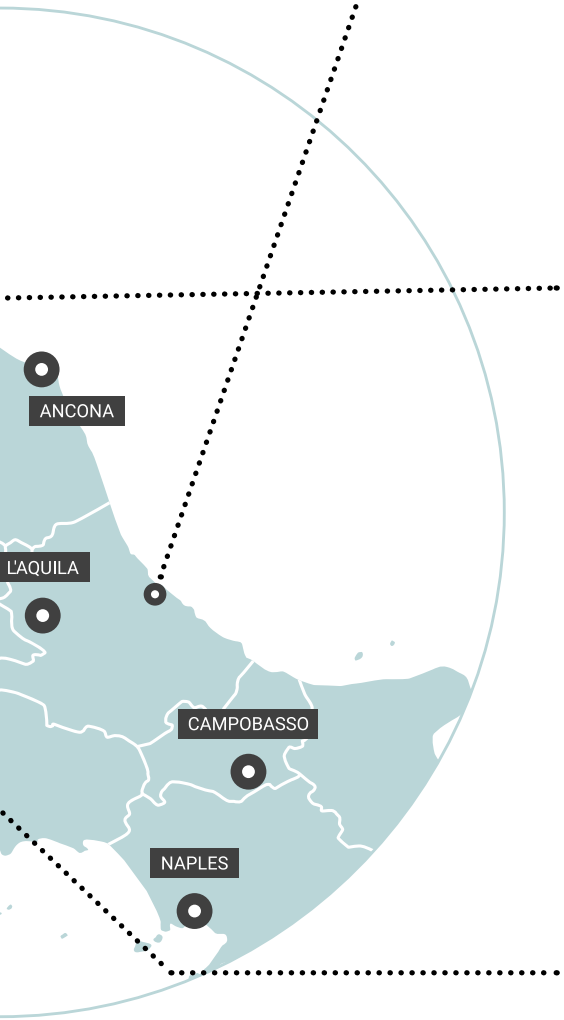
Collector 200 - *Rimini (RN)*

Special piece Ø630
San Clemente (RN)

Welding intervention 1200 - *Belforte all'Isauro (PU)*

NRG couplers - *Siena (SI)*

Formed Manhole Ø1000 - *Chieti (CH)*



No Fire 250 - *Riccione (RN)*

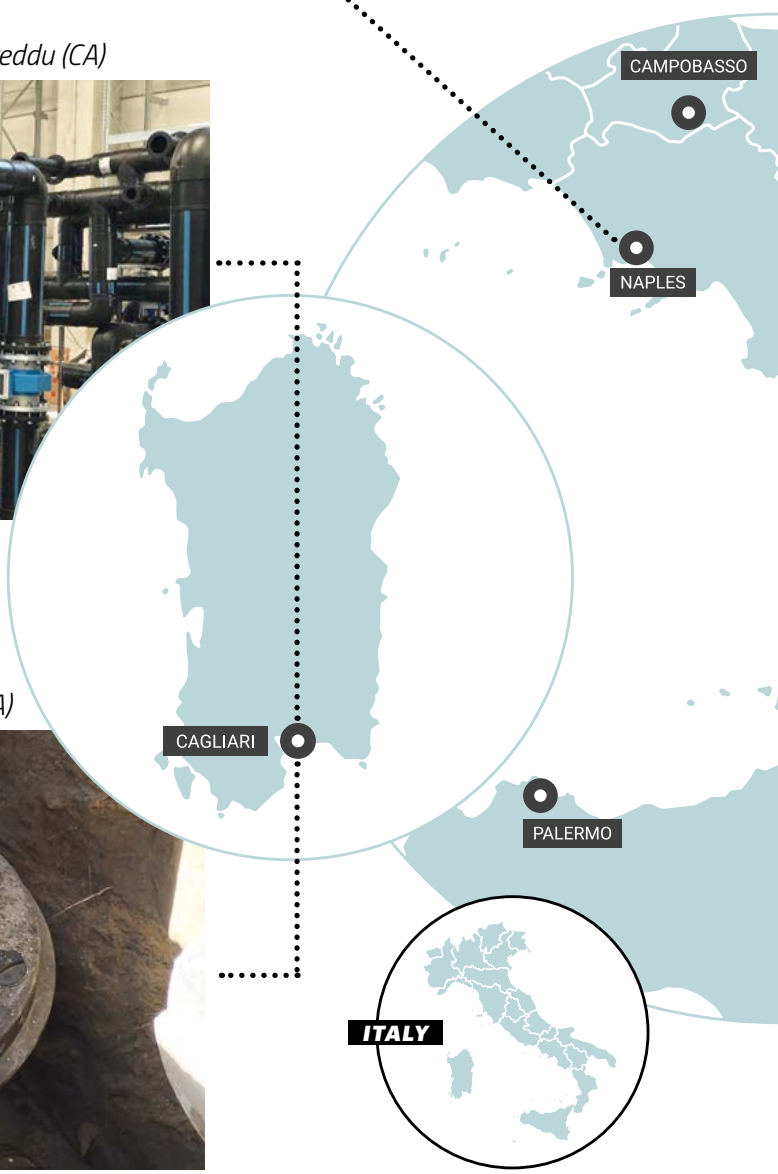
Special piece Ø315 - *Roma (RM)*

Formed manholes Ø1000 - *Napoli (NA)*

No Fire 400 - *Foggia (FG)*

Collector Ø125 PN16 SDR11 PE100 - *Macchiareddu (CA)*

Formed manholes anti-layer Ø1000 - *Cagliari (CA)*



Formed manholes Ø1000 - *Salerno (SA)*

Sea discharge Ø500 - *Salerno (SA)*

Formed manholes Ø1000 MAGNUM - *Catania (CT)*

notes

notes

click here

SUSTAINABILITY REPORT
available on
tubi.net/en/sustainability-report

Technical documentantion
and software for planning
are available on request
on **www.tubi.net**

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