



# Technical Handbook 2007

Compression fittings  
and clamp saddles

**+GF+**

**GEORG FISCHER**  
PIPING SYSTEMS



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# POLY16 *Plus*



**Compression  
fittings  
and clamp  
saddles**

# POLY16 Plus Compression Fittings

## Technical information

### Materials

#### Body, Thrust ring:

polypropylene copolymer stabilized (PP-B), UV stabilized

#### Nut:

polypropylene copolymer stabilized (PP-B) with Master Batches UV stabilized (Grade 8, ASTM D2565, 1-8)

#### Clamp ring:

Acetalic resin (POM)

#### Gasket:

Food safe rubber (NBR and special NBR KTW approved); 70 sh

#### Reinforcement ring:

Stainless Steel AISI 430 (for female thread from 1"1/4 to 4")

### Standards

#### For PE pipe:

DIN 8074; EN 12201-1/2; AS/NZS 4130; BS 6572; ISO 4427; UNI 7990; UNI 9561; ISO 13460, ISO 12162

#### Threads:

ISO 7-1; DIN EN 10226-1; BS 21; AS 1722.1

#### Flanges:

DIN 2501.1; DIN 8063-4; ISO 7005-1 - AS/NZS 4331

#### Test Standards

ISO 14236; DIN 8076-3; AS/NZS 4129 , BRL K534/03 - UNI EN 712 - UNI EN713

UNI EN715; UNI 9561

#### Nominal Pressure PFA (PN):

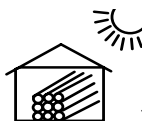
See single article tables

### Colour

**Body, Thrust ring, Rubber:** black

**Nut:** blue (RAL 5012)

**Clamp ring:** white



Fittings should be stored protected from ultraviolet radiations

**Working temperature range (C°): -10° +45°**

## Relation between working pressure and temperature

TEMPERATURE (C°)	- 10° / + 25°	+ 26° / + 35°	+ 36° / + 45°
PFA* (PN)	<b>16</b>	12,5	10
PFA* (PN)	<b>12,5</b>	10	8
PFA* (PN)	<b>10</b>	8	6
PFA* (PN)	<b>6</b>	4,5	N.A.

\* In accordance with EN805

### Sanitary

Compression Fittings suitable for drinking water according to standards and regulation currently in force in Italy (Circolare n. 102 - 02.12.1978 Ministry of Health and DM -21.03.1973), D.M num. 174 - 06 Aprile 2004, Germany (Mitteilungen aus dem Bundes-gesundheitsamt, 108./109. Mitteilung BGAKTW-D2), United Kingdom (BS6920), Netherlands (KIWA Regulations for ATA), USA (NSF/ANSI 61), Australia (AS/NZS4020).

Finland



Germany



Italy



Netherlands



Sweden



Hungary



Australia



Denmark



United Kingdom



Poland



Norway



Switzerland



USA



### List of abbreviations

<b>BS</b>	British Standard	<b>DN</b>	Nominal diameter
<b>DIN</b>	Deutsche Industrie-Norm	<b>PFA (PN)</b>	Working pressure allowable
<b>ISO</b>	International Standardization Organisation	<b>kg</b>	weight in kilogramm
<b>PP</b>	Polypropylene	<b>SP</b>	standard package (bag)
<b>PE</b>	Polyethylene	<b>GP</b>	Gross Pack (cm. 59x25x41)
<b>NBR</b>	Nitrile butadiene rubber	<b>R</b>	Conical Male thread
<b>d</b>	Pipe outside diameter	<b>Rp</b>	Parallel female thread

# POLY16 Plus Compression Fittings

## Components and detailed notes

A complete range of compression fittings allows assembly on all types of polyethylene pipes (PE HD, PE LD, PE 80, PE 100) and PEX-a **with no need to disassemble the fitting**. After loosening the nut, the pipe can be inserted directly to the pipe-stop (Push-fit type).

- 1) The body, in black polypropylene, is designed and manufactured as a unique modular construction with axial reinforcements. The production batch number is on every body thus ensuring easy traceability.
- 2) The thrust ring, in polypropylene, applies pressure on the lip gasket after the nut has been tightened thus allowing an ideal compression of the gasket on the pipe. The thrust ring grips the body so that it cannot be lost in cases where disassembling of the fitting is required.

### 2') For fittings Ø 75-90-110:

The polypropylene thrust ring defines, while tightening the nut, the compression of the spring gasket (see pt. 5').

- 3) The floating split ring, in polyacetal, allows perfect resistance to possible pull-out forces without having a negative impact on the tightness of the fitting.

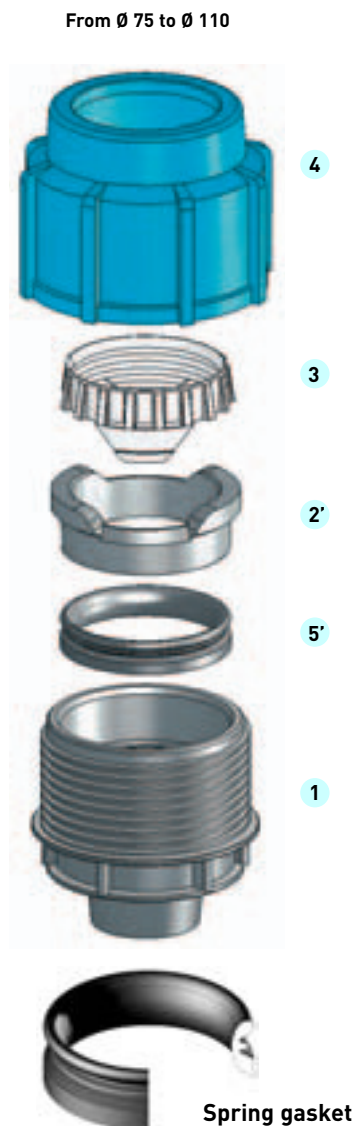
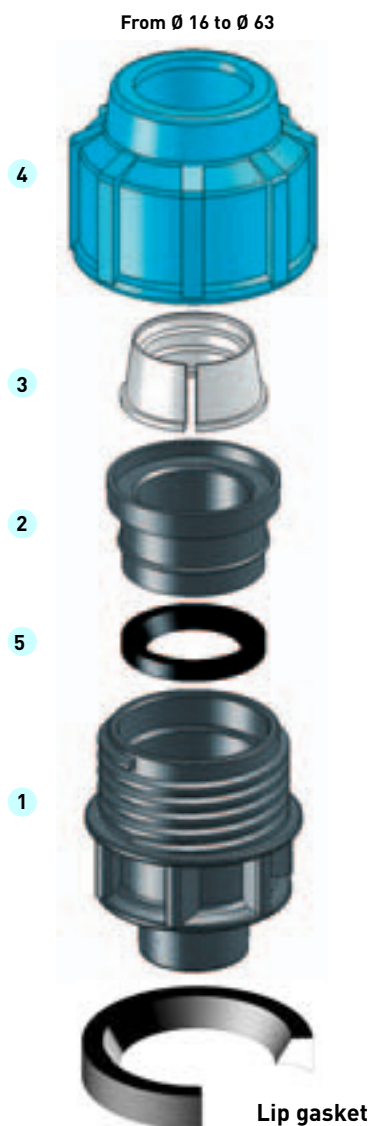
- 4) The nut in light blue polypropylene offers an outstanding resistance to impact. The nut is perfectly resistant to UV rays, too.

- 5) The only fitting with "**pre-lubricated double lip-gasket**" in NBR patented by Georg Fischer allowing to overcome: **oval - scratched - undersized pipes**.

The double lip gasket assures in course of compression a perfect adherence to the pipe as it covers widely its surface and consequently a constant seal over the full life-time of the fitting. The double lip gasket grants high resistance in case of vacuum and/or suction, too.

### 5') For Ø 75-90-110:

A fitting with spring gasket that simplifies and speeds up the insertion of the pipe assuring a perfect and constant seal and resistance to the internal pressure even in case of oval/scratched-undersized pipes, thanks to the particular shape of the gasket that covers a wide surface of the pipe. The lip-shape of the inferior part of the gasket allows its optimal placing into the seat of the body and the constant keeping of its position during the time granting a high resistance also in case of vacuum and/or suction.

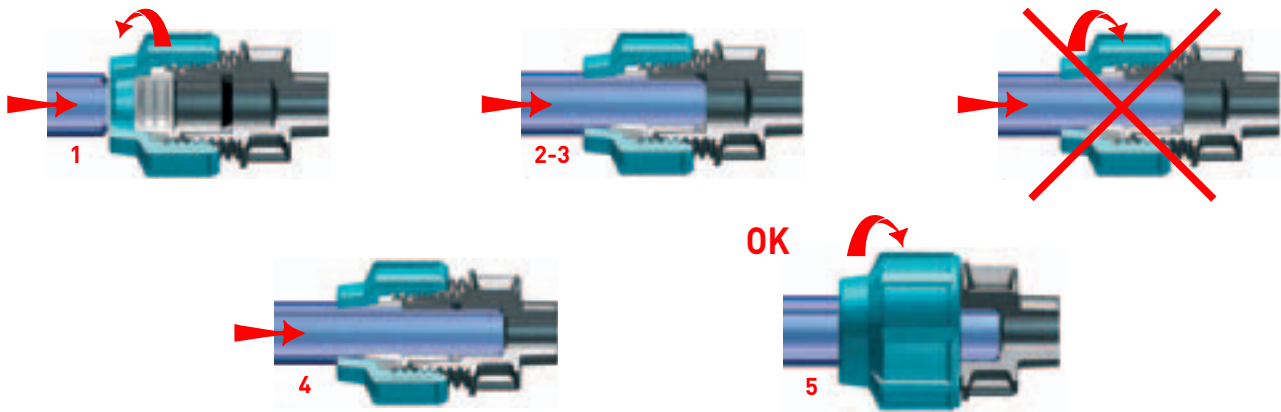


# Poly16 Plus Compression Fittings Assembly instructions

## Ø 16 - 63

Before proceeding with the assembly, please check the presence of all components (seal, thrust ring, split ring).

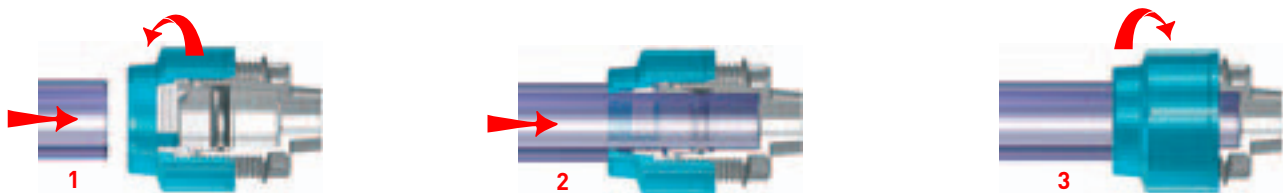
1. Cut the pipe square and deburr it. Grease the seal, in case it is dry. Partially unscrew the nut.
2. Mark the insert depth on the pipe (see table: insert depth).
3. Push the pipe into the fitting through the split ring until the first stop, meaning you have reached the seal.
4. Push the pipe through the seal until you reach the pipe stop of the fitting. Check the mark of the insert depth on the pipe for correct assembly.
5. Tighten the nut as tightly as possible. Manual or mechanical tightening of the nut (using the +GF+ tool or a standard wrench) until diameter d 32. Mechanical tightening of the nut (using the +GF+ tool or a special wrench) from diameter d 40.



## Ø 75 - 110

Before proceeding with the assembly, please check the presence of a all components (gasket, thrust ring, split ring).

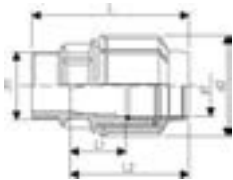
1. Cut the pipe square and deburr it. No chamfering. Unscrew partially the nut.
2. Push the pipe into the fitting until you have reached the pipe stop.
3. Tighten the nut as tightly as possible with the +GF+ wrench, or a special wrench for fittings.



### INSERT DEPTH

Ø	mm
16	45
20	45
25	50
32	55
40	70
50	75
63	95

# POLY16 Plus COMPRESSION FITTINGS



## Male adaptor

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (conical)
- colour: blue-black

d	R	PN	Code	d1	d2	L	L1	L2	
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	
16	½	16	<b>727 926 329</b>	22	46	76	20	58	
16	¾	16	<b>727 926 330</b>	22	46	76	20	58	
20	½	16	<b>727 926 306</b>	22	46	76	16	56	
20	¾	16	<b>727 926 333</b>	22	46	77	15	55	
20	1	16	<b>727 926 332</b>	22	46	79	15	55	
25	½	16	<b>727 926 337</b>	28	57	80	18	62	
25	¾	16	<b>727 926 307</b>	28	57	82	18	62	
25	1	16	<b>727 926 336</b>	28	57	86	18	64	
32	¾	16	<b>727 926 341</b>	34	67	89	20	68	
32	1	16	<b>727 926 308</b>	34	67	92	20	68	
32	1 ¼	16	<b>727 926 340</b>	34	67	94	20	70	
32	1 ½	16	<b>727 926 339</b>	34	67	93	20	68	
40	1	16	<b>727 926 346</b>	44	82	113	28	87	
40	1 ¼	16	<b>727 926 309</b>	44	82	115	28	87	
40	1 ½	16	<b>727 926 345</b>	44	82	115	27	87	
40	2	16	<b>727 926 347</b>	44	82	115	27	87	
50	1	16	<b>727 926 353</b>	54	93	125	30	99	
50	1 ¼	16	<b>727 926 352</b>	54	93	127	30	99	
50	1 ½	16	<b>727 926 310</b>	54	93	126	30	99	
50	2	16	<b>727 926 351</b>	54	93	132	30	99	
63	1 ½	16	<b>727 926 358</b>	65	117	154	41	119	
63	2	16	<b>727 926 311</b>	65	117	156	41	119	
63	2 ½	16	<b>727 926 357</b>	65	117	160	41	119	
75	2	16	<b>727 926 364</b>	77	134	177	56	138	
75	2 ½	16	<b>727 926 312</b>	77	134	178	56	134	
75	3	16	<b>727 926 363</b>	77	134	178	56	136	
90	2	16	<b>727 926 371</b>	93	160	205	68	168	
90	2 ½	16	<b>727 926 372</b>	93	160	210	68	168	
90	3	16	<b>727 926 313</b>	93	160	210	68	168	
90	4	16	<b>727 926 369</b>	93	160	216	68	168	
110	3	16	<b>727 926 376</b>	113	181	226	71	178	
110	4	16	<b>727 926 314</b>	113	181	231	71	178	





## Flanged joint with metal flange

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- suitable for PE and PEX-a pipes
- installation without disassembling
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- flange: steel
- colour: blue-black

d [mm]	DN [inch]	DN [mm]	PN	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]
50	1 ½	40	16	<b>727 706 350</b>	54	93	150	110	170	36	100
50	2	50	16	<b>727 706 351</b>	54	93	174	125	170	36	100
63	2	50	16	<b>727 706 311</b>	65	117	174	125	193	48	126
63	2 ½	65	16	<b>727 706 357</b>	65	117	185	145	195	48	127
75	2 ½	65	16	<b>727 706 312</b>	78	134	185	145	197	104	185
75	3	80	16	<b>727 706 363</b>	78	134	200	160	197	82	162
90	3	80	16	<b>727 706 313</b>	93	160	200	160	232	65	166
90	4	100	16	<b>727 706 369</b>	93	160	220	181	232	65	166
110	4	100	16	<b>727 706 314</b>	113	181	220	181	239	107	220



## Shouldered adaptor type Victaulic

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

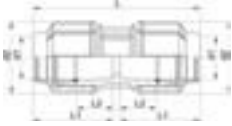
d [mm]	Code	L [mm]	L2 [mm]	d2 [mm]	d1 [mm]	L1 [mm]	d3 [mm]	d4 [mm]
50	<b>158 001 877</b>	140	105	93	53	30	59	66
63	<b>158 001 878</b>	165	130	117	65	50	59	66
110	<b>158 001 879</b>	230	170	181	113	48	112	122



## Female adaptor

- (\*) with stainless steel reinforcement ring **AISI430**
- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- female thread: ISO 7 (parallel)
- colour: blue-black

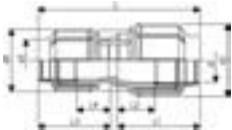
d	Rp	PN	Code	d1	d2	L	L1	L2
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]
16	½	16	<b>727 916 329</b>	22	46	78	15	54
16	¾	16	<b>727 916 330</b>	22	46	78	13	52
20	½	16	<b>727 916 306</b>	22	46	78	17	58
20	¾	16	<b>727 916 333</b>	22	46	78	16	57
25	½	16	<b>727 916 337</b>	28	57	86	18	61
25	¾	16	<b>727 916 307</b>	28	57	86	18	61
25	1	16	<b>727 916 336</b>	28	57	86	18	61
32	¾	16	<b>727 916 341</b>	34	67	95	20	67
32	1	16	<b>727 916 308</b>	34	67	95	20	67
*32	1 ¼	16	<b>727 916 340</b>	34	67	96	20	67
40	1	16	<b>727 916 346</b>	44	82	111	28	87
*40	1 ¼	16	<b>727 916 309</b>	44	82	116	28	87
*40	1 ½	16	<b>727 916 345</b>	44	82	116	28	87
*50	1	16	<b>727 916 353</b>	54	93	123	30	99
*50	1 ¼	16	<b>727 916 352</b>	54	93	129	30	99
*50	1 ½	16	<b>727 916 310</b>	54	93	128	30	99
*50	2	16	<b>727 916 351</b>	54	93	133	30	99
*63	1 ½	16	<b>727 916 358</b>	65	117	158	51	128
*63	2	16	<b>727 916 311</b>	65	117	161	51	128
*63	2 ½	16	<b>158 001 728</b>	65	117	162	46	122
*75	2	16	<b>727 916 364</b>	78	134	169	56	136
*75	2 ½	16	<b>727 916 312</b>	78	134	174	56	136
*75	3	10	<b>158 001 729</b>	78	134	174	56	136
*90	2	16	<b>727 916 371</b>	93	160	196	55	155
*90	2 ½	16	<b>727 916 372</b>	93	160	210	55	155
*90	3	10	<b>727 916 313</b>	93	160	196	55	155
*110	3	10	<b>727 916 376</b>	113	181	215	48	170
*110	4	10	<b>727 916 314</b>	113	181	215	48	170



## Coupling

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- gasket: NBR quality for drinkable water
- material: PP
- colour: blue-black

d	PN	Code	d1	d2	L	L1	L2
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]
16	16	<b>727 906 305</b>	22	46	114	55	14
20	16	<b>727 906 306</b>	22	46	114	55	14
25	16	<b>727 906 307</b>	28	57	124	62	17
32	16	<b>727 906 308</b>	34	67	136	65	18
40	16	<b>727 906 309</b>	44	80	176	86	27
50	16	<b>727 906 310</b>	54	93	195	96	27
63	16	<b>727 906 311</b>	65	115	248	122	42
75	16	<b>727 906 312</b>	78	134	278	136	54
90	16	<b>727 906 313</b>	93	164	336	167	61
110	16	<b>727 906 314</b>	113	186	381	190	71



## Reducing coupling

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

d-d	PN	Code	d1	d2	d3	d4	L	L1	L2	L3	L4
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20 - 16	16	<b>727 906 334</b>	22	46	22	46	116	56	15	56	17
25 - 16	16	<b>727 906 335</b>	28	54	22	46	133	63	21	56	17
25 - 20	16	<b>727 906 337</b>	28	54	22	46	133	63	21	56	15
32 - 20	16	<b>727 906 340</b>	35	64	22	46	130	65	18	56	15
32 - 25	16	<b>727 906 341</b>	35	64	28	54	130	65	18	59	18
40 - 25	16	<b>727 906 347</b>	44	82	28	54	160	94	34	63	21
40 - 32	16	<b>727 906 346</b>	44	82	35	64	164	94	34	66	22
50 - 32	16	<b>727 906 353</b>	53	93	35	64	175	103	34	69	25
50 - 40	16	<b>727 906 352</b>	53	93	44	82	204	103	34	97	38
63 - 32	16	<b>727 906 356</b>	65	115	34	64	210	118	38	80	34
63 - 40	16	<b>727 906 357</b>	65	117	44	82	216	117	38	87	30
63 - 50	16	<b>727 906 358</b>	65	117	53	93	216	117	38	96	28
75 - 50	16	<b>727 906 363</b>	78	134	53	93	237	129	48	100	32
75 - 63	16	<b>727 906 364</b>	78	134	65	117	249	129	48	116	37
90 - 63	16	<b>727 906 371</b>	93	160	65	117	292	169	61	107	36
90 - 75	16	<b>727 906 370</b>	93	160	78	134	366	188	87	175	94
110 - 90	16	<b>727 906 376</b>	113	181	93	160	363	188	70	168	61



## 90° Tee

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

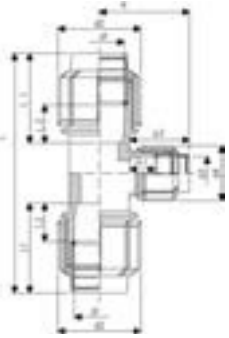
d [mm]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]
16	16	<b>727 206 305</b>	22	46	138	57	13	55
20	16	<b>727 206 306</b>	22	46	138	55	13	55
25	16	<b>727 206 307</b>	28	57	153	60	18	77
32	16	<b>727 206 308</b>	34	67	175	66	20	87
40	16	<b>727 206 309</b>	44	82	238	88	27	118
50	16	<b>727 206 310</b>	53	93	259	96	28	128
63	16	<b>727 206 311</b>	65	117	317	113	35	160
75	16	<b>727 206 312</b>	78	134	360	129	48	180
90	16	<b>727 206 313</b>	93	160	472	183	82	140
110	16	<b>727 206 314</b>	113	181	512	193	80	260



## 90° Tee with threaded female offtake

- (\*) with stainless steel reinforcement ring **AISI430**
- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- female thread: ISO 7 (parallel)
- colour: blue-black

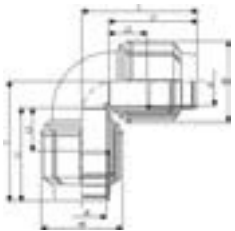
d [mm]	Rp [inch]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]
16	½	16	<b>727 216 329</b>	22	46	142	57	18	48
16	¾	16	<b>727 216 330</b>	22	46	142	58	19	53
20	½	16	<b>727 216 306</b>	22	46	143	58	18	48
20	¾	16	<b>727 216 333</b>	22	46	143	58	18	53
25	½	16	<b>727 216 337</b>	28	57	153	59	17	52
25	¾	16	<b>727 216 307</b>	28	57	153	60	18	37
25	1	16	<b>727 216 336</b>	28	57	153	59	17	59
32	½	16	<b>727 216 342</b>	34	67	175	66	20	41
32	¾	16	<b>727 216 341</b>	34	67	175	66	20	41
32	1	16	<b>727 216 308</b>	34	67	175	66	20	43
*32	1 ¼	16	<b>727 216 340</b>	34	67	175	66	20	46
40	¾	16	<b>727 216 347</b>	44	82	238	87	27	53
40	1	16	<b>727 216 346</b>	44	82	238	87	27	53
*40	1 ¼	16	<b>727 216 309</b>	44	82	238	87	27	53
*40	1 ½	16	<b>727 216 345</b>	44	82	238	83	24	53
*50	1	16	<b>727 216 353</b>	53	93	260	97	28	63
*50	1 ¼	16	<b>727 216 352</b>	53	93	260	97	28	63
*50	1 ½	16	<b>727 216 310</b>	53	93	260	97	28	63
*50	2	16	<b>727 216 351</b>	53	93	260	97	28	75
*63	1 ¼	16	<b>727 216 359</b>	65	117	317	113	35	70
*63	1 ½	16	<b>727 216 358</b>	65	117	317	113	35	70
*63	2	16	<b>727 216 311</b>	65	117	317	113	35	70
*75	2	10	<b>158 001 730</b>	78	134	360	129	48	75
*75	2 ½	16	<b>727 216 312</b>	78	134	360	129	48	75
*75	3	10	<b>158 001 731</b>	78	134	360	129	48	75
*90	3	10	<b>727 216 313</b>	93	160	472	183	82	101
*110	4	10	<b>727 216 314</b>	113	181	512	193	80	115



## 90° Reducing-increasing Tee

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

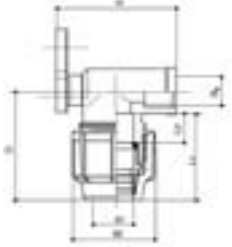
d-d-d [mm]	PN	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	H1 [mm]	H2 [mm]
20 - 16 - 20	16	<b>727 206 334</b>	22	46	22	46	143	58	18	18	57
20 - 25 - 20	16	<b>727 206 335</b>	22	46	28	54	144	58	18	17	59
25 - 20 - 25	16	<b>727 206 337</b>	28	54	22	46	153	58	17	18	58
25 - 32 - 25	16	<b>727 206 338</b>	28	54	35	64	155	59	17	19	65
32 - 25 - 32	16	<b>727 206 341</b>	35	64	28	54	173	64	19	21	63
40 - 32 - 40	16	<b>727 206 346</b>	44	82	35	64	238	87	27	21	66
50 - 32 - 50	16	<b>727 206 353</b>	53	93	35	64	259	96	28	21	68
50 - 40 - 50	16	<b>727 206 352</b>	53	93	44	82	259	96	28	38	94
63 - 32 - 63	16	<b>727 206 357</b>	65	117	35	64	317	113	35	19	65
63 - 50 - 63	16	<b>727 206 358</b>	65	117	53	93	317	113	35	28	90
75 - 63 - 75	16	<b>727 206 364</b>	78	134	65	117	360	129	48	35	113
90 - 75 - 90	16	<b>727 206 366</b>	93	160	78	134	472	183	48	63	150
110 - 90 - 110	16	<b>727 206 367</b>	113	181	93	160	512	193	68	82	180



## 90° Elbow

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

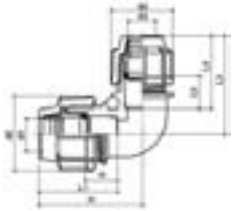
d [mm]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]
16	16	<b>727 106 305</b>	22	46	71	58	18
20	16	<b>727 106 306</b>	22	46	71	58	18
25	16	<b>727 106 307</b>	28	57	77	60	17
32	16	<b>727 106 308</b>	34	67	88	67	20
40	16	<b>727 106 309</b>	44	82	117	86	27
50	16	<b>727 106 310</b>	53	93	128	97	28
63	16	<b>727 106 311</b>	65	117	160	114	35
75	16	<b>727 106 312</b>	78	134	178	129	48
90	16	<b>727 106 313</b>	93	160	235	163	62
110	16	<b>727 106 314</b>	113	181	250	168	57



## Metal wall-plate elbow

- active sealing system (with thrust ring); double lip gasket;
- suitable for PE and PEX-a pipes
- water PN16
- female thread: ISO 7 (parallel)
- material: Brass
- gasket: NBR quality for drinkable water

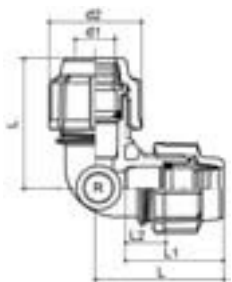
d [mm]	Rp [inch]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]
20	½	16	<b>720 100 206</b>	22	46	65	53	12	55
25	¾	16	<b>720 100 207</b>	28	57	72	57	15	64



## 90° Reducing elbow

- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

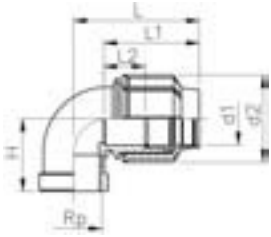
d-d [mm]	PN	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]
20 - 16	16	<b>193 281 229</b>	22	46	22	46	77	58	18	71	58	18
25 - 20	16	<b>193 281 230</b>	27	54	22	46	80	65	21	77	58	18



## 90° Elbow for sprinkler

- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- female thread: ISO 7 (parallel)
- colour: blue-black

d [mm]	Rp [inch]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]
16	½	16	<b>158 001 010</b>	22	46	71	58	18
20	½	16	<b>158 001 011</b>	22	46	71	58	18
25	½	16	<b>158 001 012</b>	27	57	77	60	17
32	½	16	<b>158 001 013</b>	34	67	88	67	20
32	¾	16	<b>158 001 014</b>	34	67	88	67	20

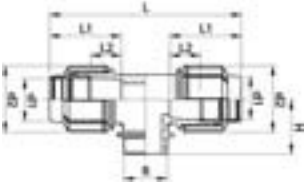


## 90° Elbow with threaded female offtake

- (\*) with stainless steel reinforcement ring **AISI430**
- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- female thread: ISO 7 (parallel)
- colour: blue-black

d	Rp	PN	Code	d1	d2	L	L1	L2	H
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	1/2	16	<b>727 116 329</b>	22	46	71	58	18	50
16	3/4	16	<b>727 116 330</b>	22	46	71	58	18	50
20	1/2	16	<b>727 116 306</b>	22	46	71	58	18	50
20	3/4	16	<b>727 116 333</b>	22	46	71	58	18	50
25	1/2	16	<b>727 116 337</b>	28	57	76	60	18	53
25	3/4	16	<b>727 116 307</b>	28	57	77	60	18	53
25	1	16	<b>727 116 336</b>	28	57	77	60	18	60
32	1/2	16	<b>727 116 342</b>	34	67	87	68	22	60
32	3/4	16	<b>727 116 341</b>	34	67	87	68	22	60
32	1	16	<b>727 116 308</b>	34	67	87	68	22	60
*32	1 1/4	16	<b>727 116 340</b>	34	67	87	68	22	47
40	3/4	16	<b>727 116 347</b>	44	82	120	87	27	53
40	1	16	<b>727 116 346</b>	44	82	120	87	27	53
*40	1 1/4	16	<b>727 116 309</b>	44	82	120	87	27	53
*40	1 1/2	16	<b>727 116 345</b>	44	82	120	83	23	53
*50	1	16	<b>727 116 318</b>	53	93	130	97	28	62
*50	1 1/4	16	<b>727 116 319</b>	53	93	130	97	28	62
*50	1 1/2	16	<b>727 116 310</b>	53	93	130	97	28	62
*50	2	16	<b>727 116 351</b>	53	93	130	97	28	75
*63	1 1/4	16	<b>727 116 321</b>	65	117	160	114	35	70
*63	1 1/2	16	<b>727 116 320</b>	65	117	160	114	35	70
*63	2	16	<b>727 116 311</b>	65	117	160	114	35	70
*63	2 1/2	16	<b>158 001 727</b>	65	117	160	114	35	70
*75	2	16	<b>158 001 732</b>	78	134	178	129	48	75
*75	2 1/2	16	<b>727 116 312</b>	78	134	178	129	48	75
*75	3	10	<b>158 001 733</b>	78	134	178	129	48	75
*90	3	10	<b>727 116 313</b>	93	160	235	163	62	100
*110	4	10	<b>727 116 314</b>	113	181	250	168	57	116

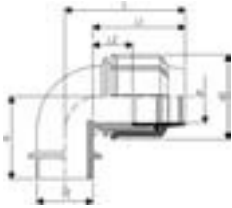




## 90° Tee with threaded male offtake

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (conical)
- colour: blue-black

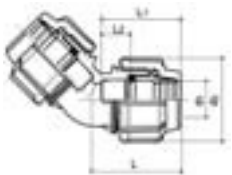
d	R	PN	Code	d1	d2	L	L1	L2	H
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	½	16	<b>727 226 329</b>	22	46	142	58	19	50
16	¾	16	<b>727 226 330</b>	22	46	142	58	19	50
20	½	16	<b>727 226 306</b>	22	46	143	58	18	50
20	¾	16	<b>727 226 333</b>	22	46	143	58	18	50
25	½	16	<b>727 226 337</b>	28	54	153	58	17	52
25	¾	16	<b>727 226 307</b>	28	54	153	58	17	54
25	1	16	<b>727 226 336</b>	28	54	153	58	17	52
32	¾	16	<b>727 226 341</b>	34	67	175	66	20	60
32	1	16	<b>727 226 308</b>	34	67	175	66	20	60
40	¾	16	<b>727 226 347</b>	44	82	238	88	27	82
40	1 ¼	16	<b>727 226 309</b>	44	82	238	88	27	73
40	1 ½	16	<b>727 226 349</b>	44	82	238	88	27	73
50	¾	16	<b>727 226 354</b>	53	93	259	96	28	86
50	1 ¼	16	<b>727 226 355</b>	53	93	259	96	28	80
50	1 ½	16	<b>727 226 310</b>	53	93	259	96	28	80
63	1 ¼	16	<b>727 226 357</b>	65	117	317	113	35	80
63	1 ½	16	<b>727 226 358</b>	65	117	317	113	35	80
63	2	16	<b>727 226 311</b>	65	117	317	113	35	82
63	2 ½	16	<b>727 226 359</b>	65	117	317	113	35	85
75	2 ½	16	<b>727 226 361</b>	78	134	360	129	48	105
75	3	16	<b>158 001 000</b>	78	134	360	129	48	105
90	3	16	<b>158 001 001</b>	93	160	472	183	82	132
110	4	16	<b>158 001 002</b>	113	181	512	193	80	145



## 90° Elbow with threaded male offtake

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (conical)
- colour: blue-black

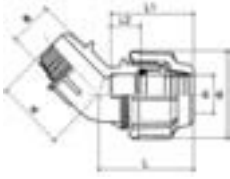
d	R	PN	Code	d1	d2	L	L1	L2	H
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	½	16	<b>727 126 329</b>	22	46	71	58	18	50
16	¾	16	<b>727 126 330</b>	22	46	71	58	19	50
20	½	16	<b>727 126 306</b>	22	46	71	58	18	50
20	¾	16	<b>727 126 333</b>	22	46	71	58	18	50
25	½	16	<b>727 126 337</b>	28	57	77	63	21	53
25	¾	16	<b>727 126 307</b>	28	57	77	60	17	53
25	1	16	<b>727 126 336</b>	28	57	77	60	17	53
32	½	16	<b>727 126 338</b>	34	67	88	68	22	60
32	¾	16	<b>727 126 339</b>	34	67	88	68	22	60
32	1	16	<b>727 126 308</b>	34	67	88	68	22	60
40	1	16	<b>727 126 344</b>	44	82	115	83	23	75
40	1 ¼	16	<b>727 126 309</b>	44	82	117	86	27	73
40	1 ½	16	<b>727 126 345</b>	44	82	117	86	27	73
50	1 ¼	16	<b>727 126 352</b>	53	93	128	97	28	78
50	1 ½	16	<b>727 126 310</b>	53	93	128	97	28	80
63	1 ¼	16	<b>727 126 313</b>	65	117	160	114	35	82
63	1 ½	16	<b>727 126 312</b>	65	117	160	114	35	82
63	2	16	<b>727 126 311</b>	65	117	160	114	35	82
63	2 ½	16	<b>727 126 314</b>	65	117	160	114	35	82
75	2 ½	16	<b>727 126 316</b>	77	134	178	129	48	110
75	3	16	<b>727 126 317</b>	77	134	178	129	48	110
90	3	16	<b>727 126 515</b>	93	160	240	170	62	132
90	4	16	<b>158 001 692</b>	93	160	245	165	48	135
110	3	16	<b>158 001 710</b>	113	181	245	175	66	142
110	4	16	<b>158 001 003</b>	113	185	256	180	60	140



## 45° Elbow

- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

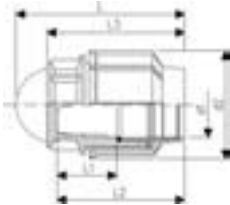
d	PN	Code	d1	d2	L	L1	L2
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]
20	16	<b>727 156 306</b>	22	46	65	56	14
25	16	<b>727 156 307</b>	28	57	74	60	17
32	16	<b>727 156 308</b>	34	67	82	67	19
40	16	<b>727 156 309</b>	44	82	108	86	27
50	16	<b>727 156 310</b>	53	93	128	99	30
63	16	<b>727 156 311</b>	65	118	150	115	35



## 45° Elbow with threaded male offtake

- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (conical)
- colour: blue-black

d [mm]	R [inch]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]
20	½	16	<b>727 166 306</b>	22	46	65	56	14	41
25	¾	16	<b>727 166 307</b>	28	57	73	60	17	44
32	1	16	<b>727 166 308</b>	34	67	83	66	19	48
40	1 ¼	16	<b>727 166 309</b>	44	82	108	86	27	65
50	1 ½	16	<b>727 166 310</b>	53	93	128	99	30	69
63	2	16	<b>727 166 311</b>	65	118	150	115	30	85



## End cap

- active sealing system (with thrust ring); d16-63 double lip gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

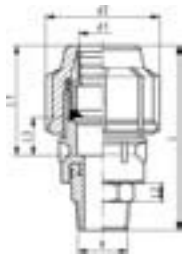
d [mm]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
16	16	<b>727 966 305</b>	22	46	60	20	60	62
20	16	<b>727 966 306</b>	22	46	69	18	58	62
25	16	<b>727 966 307</b>	28	57	76	18	63	65
32	16	<b>727 966 308</b>	34	67	90	18	70	69
40	16	<b>727 966 309</b>	44	82	112	28	87	93
50	16	<b>727 966 310</b>	54	93	129	30	99	105
63	16	<b>727 966 311</b>	65	117	160	42	122	132
75	16	<b>727 966 312</b>	78	134	180	56	139	147
90	16	<b>727 966 313</b>	93	160	220	68	173	181
110	16	<b>727 966 314</b>	114	182	234	70	184	195



## Male adaptor with threaded metal offtake (nickel-plated brass)

- (\*) without hexagon
- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- water PN16
- suitable for PE and PEX-a pipes
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (cilindric); Nickel-plated brass
- colour: blue-black

d	R	PN	Code	L	L1	d2	L2	d1	L3
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
*20	½	16	<b>158 001 569</b>	94	56	46		22	15
25	¾	16	<b>158 001 570</b>	115	62	57	15	28	19
32	¾	16	<b>158 001 571</b>	120	67	67	15	34	20
32	1	16	<b>158 001 572</b>	120	67	67	15	34	20
32	1 ¼	16	<b>158 001 573</b>	120	67	67	15	34	20
40	1	16	<b>158 001 574</b>	146	88	82	15	43	30
40	1 ¼	16	<b>158 001 575</b>	146	88	82	15	43	30
50	1 ½	16	<b>158 001 576</b>	162	99	93	15	53	30
63	2	16	<b>158 001 577</b>	190	118	118	18	65	42



## Male adaptor with threaded metal offtake (bronze)

- (\*) without hexagon
- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (cilindric); Bronze
- colour: blue-black

d	R	PN	Code	L	L1	d2	L2	d1	L3
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
*20	½	16	<b>727 926 506</b>	94	56	46		22	15
25	¾	16	<b>727 926 507</b>	115	62	57	15	28	19
32	¾	16	<b>727 926 508</b>	120	67	67	15	34	20
32	1	16	<b>727 926 509</b>	120	67	67	15	34	20
32	1 ¼	16	<b>727 926 510</b>	120	67	67	15	34	20
32	1 ½	16	<b>158 001 015</b>	132	69	67	15	34	20
40	1	16	<b>727 926 511</b>	146	88	82	15	43	30
40	1 ¼	16	<b>727 926 512</b>	146	88	82	15	43	30
40	1 ½	16	<b>727 926 516</b>	150	88	82	15	43	30
40	2	16	<b>727 926 517</b>	160	88	82	18	43	30
50	1 ¼	16	<b>727 926 513</b>	161	99	93	15	53	28
50	1 ½	16	<b>727 926 514</b>	162	99	93	15	53	30
63	1 ½	16	<b>158 001 016</b>	185	124	118	15	65	42
63	2	16	<b>727 926 515</b>	190	118	118	18	65	42



## Female adaptor with metal offtake (nickeled brass)

- (\*) without hexagon
- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- female thread: ISO 7 (parallel); Nickeled brass
- colour: blue-black

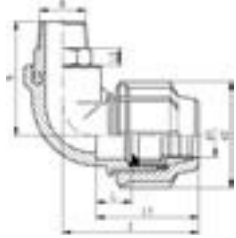
d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	d2 [mm]	L2 [mm]	d1 [mm]	L3 [mm]
20	1/2	16	<b>158 001 578</b>	80	57	46	0	22	15
25	3/4	16	<b>158 001 579</b>	100	61	57	15	28	18
32	1	16	<b>158 001 580</b>	105	67	67	15	34	20
40	1 1/4	16	<b>158 001 581</b>	130	88	82	15	43	29
50	1 1/2	16	<b>158 001 582</b>	140	98	93	15	53	30
63	2	16	<b>158 001 583</b>	165	118	118	20	65	42



## Female adaptor with metal offtake (bronze)

- (\*) without hexagon
- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- female thread: ISO 7 (parallel); Bronze
- colour: blue-black

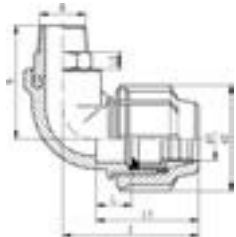
d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	d2 [mm]	L2 [mm]	d1 [mm]	L3 [mm]
*20	1/2	16	<b>727 916 506</b>	80	57	46		22	15
25	3/4	16	<b>727 916 507</b>	100	61	57	15	28	18
32	1	16	<b>727 916 509</b>	105	67	67	15	34	20
40	1 1/4	16	<b>727 916 512</b>	130	88	82	15	43	29
50	1 1/2	16	<b>727 916 513</b>	140	98	93	15	53	30
63	2	16	<b>727 916 514</b>	165	118	118	20	65	42



## 90° Male elbow with threaded metal offtake (nickel-plated brass)

- (\*) without hexagon
- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (cylindric); Nickel-plated brass
- colour: blue-black

d	R	PN	Code	L1	d2	L2	d1	z	H	L	
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
*20	1/2	16	<b>158 001 584</b>	55	46		22	65	45	15	
25	3/4	16	<b>158 001 585</b>	60	57	15	28	75	60	18	
32	3/4	16	<b>158 001 586</b>	70	67	15	34	92	70	23	
32	1	16	<b>158 001 587</b>	70	67	15	34	100	70	25	
40	1	16	<b>158 001 588</b>	86	82	15	43	123	71	28	
40	1 1/4	16	<b>158 001 589</b>	86	82	15	43	123	80	28	



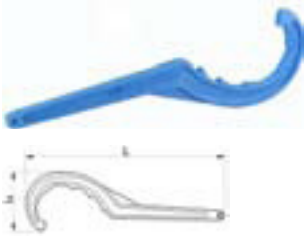
## 90° Male elbow with threaded metal offtake (bronze)

- (\*) without hexagon
- active sealing system (with thrust ring); double lip gasket;
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- male thread: ISO 7 (cylindric); Bronze
- colour: blue-black

d	R	PN	Code	L1	d2	L2	d1	z	H	L	
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
*20	1/2	16	<b>727 126 506</b>	55	46		22	65	45	15	
25	3/4	16	<b>727 126 507</b>	60	57	15	28	75	60	18	
32	3/4	16	<b>727 126 508</b>	70	67	15	34	92	70	23	
32	1	16	<b>727 126 509</b>	70	67	15	34	100	70	25	
32	1 1/2	16	<b>158 001 017</b>	68	67	15	34	90	85	23	
40	1	16	<b>727 126 511</b>	86	82	15	43	123	71	28	
40	1 1/4	16	<b>727 126 512</b>	86	82	15	43	123	80	28	
40	1 1/2	16	<b>727 126 510</b>	86	82	15	43	123	71	28	
40	2	16	<b>727 126 514</b>	86	82	18	43	123	95	28	
50	1 1/4	16	<b>727 126 513</b>	99	93	15	53	130	82	27	
63	1 1/2	16	<b>158 001 018</b>	122	118	15	65	163	97	40	

# POLY16 Plus KITS & ACCESSORIES

## Metal tightening wrench for POLY16 Plus fittings



- (\*)Polypropylene
- also sold as individual pieces

d-d [mm]	Code	L [mm]	L1 [mm]
*16 - 32	<b>799 198 097</b>	210	75
40 - 63	<b>799 198 098</b>	405	100
75 - 110	<b>799 198 099</b>	550	150



## Reducing set

- suitable for PE and PEX-a pipes
- maximum operating pressure PN 16
- material: PP
- gasket: NBR quality for drinkable water
- non-compliance with POLY16 Plus repairing coupling

d-d [mm]	PN	Code
25 - 20	16	<b>727 826 430</b>
32 - 20	16	<b>727 826 431</b>
32 - 25	16	<b>727 826 432</b>
*40 - 20	16	<b>727 826 433</b>
*40 - 25	16	<b>727 826 434</b>
40 - 32	16	<b>727 826 435</b>
*50 - 25	16	<b>727 826 436</b>
*50 - 32	16	<b>727 826 437</b>
50 - 40	16	<b>727 826 438</b>
*63 - 25	16	<b>727 826 439</b>
*63 - 32	16	<b>727 826 440</b>
*63 - 40	16	<b>727 826 441</b>
63 - 50	16	<b>727 826 442</b>

## Poly16 Plus Reduction Kit Type 1 Assembly instructions

Non-compliance with repairing coupling



Starting from a POLY16 PLUS fitting ISO/DIN standard

1. Remove the nut [N] from the body.
2. Remove the components S and T leaving the gasket G.
3. Insert component A until you reach the pipe stop.
4. Insert component B.
5. Lubricate component B.
6. Insert component C.
7. Insert component D.
8. Put the nut [N] back on the body, loose.
9. Insert the pipe to the final pipe stop.
10. Mechanically tighten the nut [N].

## Poly16 Plus Reduction Kit Type 2 Assembly instructions

Non-compliance with repairing coupling



Starting from a POLY16 PLUS fitting ISO/DIN standard

1. Remove the nut [N] from the body.
2. Remove all internal components [S, T and G].
3. Insert component A.
4. Insert component B.
5. Lubricate component B.
6. Insert component C.
7. Insert component D.
8. Put the nut [N] back on the body, loose.
9. Insert the pipe to the final pipe stop.
10. Mechanically tighten the nut [N].





## Grip ring in stainless steel for PVC-U and ABS pipes

- with PVC-U pipe: maximum operating pressure PN16
- with ABS pipe: maximum operating pressure PN10
- material: stainless steel AISI304
- non-compliance with POLY16 Plus repairing coupling

d [mm]	Code	
20	727 826 415	
25	727 826 416	
32	727 826 417	
40	727 826 418	
50	727 826 419	
63	727 826 420	

## Poly16 Plus Grip Ring in stainless steel for PVC-U and ABS pipes

### Assembly instructions

#### Non-compliance with repairing coupling



Starting from a POLY16 PLUS fitting ISO/DIN standard

1. Remove the nut (N).
2. Insert the stainless steel ring (R) between thrust ring (T) and split ring (S).  
**Note:** The metal teeth have to be down oriented.
3. Put the nut (N) back on the body.
4. Verify with a finger if the ring is in central position.
5. Insert the pipe to the final pipe stop.
6. Mechanically tighten the nut (N).



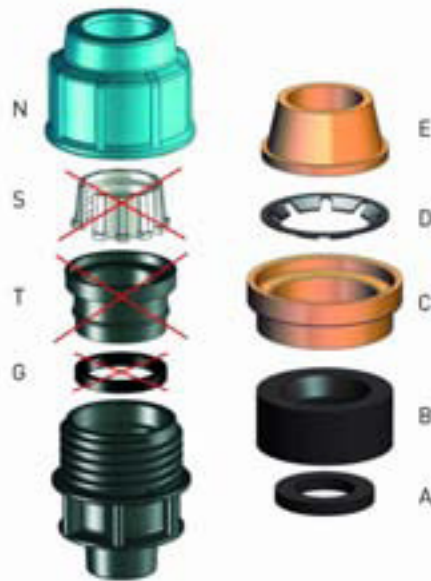
## Kit for copper pipe DIN BS EN 1057 pull out resistance

- maximum operating pressure PN 16
- Material: NBR Dichtung; Verstärkungsring aus Edelstahl (AISI304); PP
- non-compliance with POLY16 Plus repairing coupling

d [mm]	DN [mm]	PN	Code
20	15	16	<b>727 826 400</b>
25	22	16	<b>727 826 401</b>
32	28	16	<b>727 826 402</b>

## Poly16 Plus Kit for Copper Pipes Assembly instructions

### Non-compliance with repairing coupling



Starting from a POLY16 PLUS fitting ISO/DIN standard

1. Remove the nut [N].
2. Remove all internal components [S, T and G].
3. Insert component A.
4. Insert component B.
5. Lubricate component B.
6. Insert component C.
7. Insert component D.  
*Note: The metal teeth have to be down oriented.*
8. Insert component E.
9. Put the nut [N] back on the body, loose.
10. Insert the pipe to the final pipe stop.
11. Mechanically tighten the nut [N].



## Kit consisting of PVC-C Split ring and FPM (Viton) gasket

- suitable for PE and PEX-a pipes
- maximum operating pressure PN 16
- (\*) with thrust ring
- non-compliance with POLY16 Plus repairing coupling

d [mm]	PN	Code	
20	16	727 826 506	
25	16	727 826 507	
32	16	727 826 508	
40	16	727 826 509	
50	16	727 826 510	
63	16	727 826 511	
*75	16	727 826 512	
*90	16	727 826 513	
*110	16	727 826 514	

## Poly16 Plus Kit PVC-C/FPM (Viton) Assembly instructions

### Non-compliance with repairing coupling



Starting from a POLY16 PLUS fitting

1. Remove the nut [N], the split ring [S1], the thrust ring [T] and the gasket [G1], maintaining the correct assembly order
2. Substitute the standard white split ring [S1] and the standard black gasket [G1] with the corresponding kit components: PVC-C split ring [S2] and FPM/Viton gasket [G2]

Reassemble the components as follows:

3. Insert the green gasket [G2] into the fitting body so that the conical part is visible (see figure)
4. Lubricate the conical part of the gasket
5. Re-insert the thrust ring [T] ensuring that the wider part is uppermost, (for diameters up to 50 ensure that it fits into place correctly)
6. Insert the grey split ring [S2], ensuring that the wider part lays on the thrust ring [T]
7. Put the nut [N] back on the body, loose.
8. Insert the pipe to the final pipe stop.
9. Mechanically tighten the nut [N].



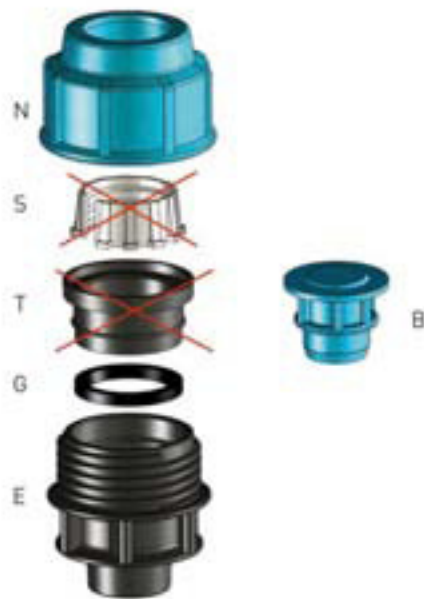
## Blanking plug

- maximum operating pressure PN 16
- material: PP

d [mm]	PN	Code	
20	16	193 281 187	
25	16	193 281 188	
32	16	193 281 189	
40	16	193 281 190	
50	16	193 281 191	

## Poly16 Plus Blanking Plug Assembly instructions

### Non-compliance with repairing coupling



*Starting from a Poly 16 Plus fitting ISO/DIN standard*

1. Unscrew the nut [N]
2. Remove the components [S + T], leaving the gasket [G] inside the body [E].
3. Fit in the blanking plug [B].
4. Mechanically tighten the nut [N].

# POLY16 Plus REPAIRING COUPLINGS

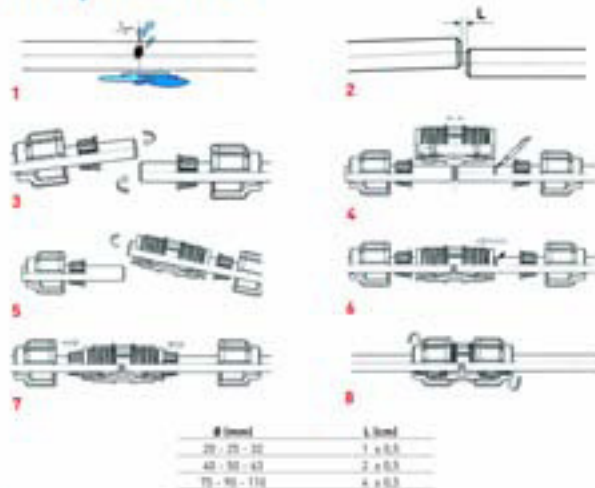


## Repairing coupling (without pipe stop)

- non-compliance with kits and metal grip ring
- active sealing system (with thrust ring); d20-32 O-ring gasket; d40-63 oval gasket; d75-110 spring gasket
- installation without disassembling
- suitable for PE and PEX-a pipes
- water PN16
- material: PP
- gasket: NBR quality for drinkable water
- colour: blue-black

d [mm]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L2 [mm]
20	16	<b>727 936 306</b>	22	46	114	34
25	16	<b>727 936 307</b>	28	57	126	43
32	16	<b>727 936 308</b>	35	67	131	39
40	16	<b>727 936 309</b>	44	82	188	68
50	16	<b>727 936 310</b>	53	93	207	70
63	16	<b>727 936 311</b>	65	117	248	86
75	16	<b>727 936 312</b>	78	134	290	110
90	16	<b>727 936 313</b>	93	160	322	128
110	16	<b>727 936 314</b>	113	181	362	148

### Poly16 Plus Repairing Coupling Assembly instructions



1. Cut the pipe next to the break leaving a minimum distance 0,2 between the two pipes (see table). Chamfer the pipes (eventually use grease to make the insertion of the fitting easier).
2. Insert nut and grip ring on both sides.
3. Mark the pipe as indicated in the drawing (sign in correspondence of the thrust ring).
4. Insert the fitting on one side of the pipe, the pipe itself must come out from the fitting on the opposite side.
5. Align the two pipes and slide the fitting till the mark on the pipe.
6. Slide the grip ring till the right position on the thrust ring.
7. Screw very hardly the nut in order to have the right compression of the gasket: use a +GF+ wrench or a special wrench for fittings (screwing the nut 90° maximum 7 round of body thread for ø 40-63 mm, 1-1,5 rounds for 75-90 mm, 1,5-2 rounds for 110 mm is suitable).

# Universal Fittings

## Coupling



- black offtake: suitable for Metric and Imperial PE, PEX, PVC, ABS, galvanized, lead, copper pipes
- blue offtake: suitable for PE pipe
- water PN10
- material: PP
- gasket: EPDM quality for drinkable water
- non-compliance with POLY16 Plus kits
- colour: blue-black

PE outlet [mm]	Universal outlet [mm]	PN	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]
20	15 - 21	10	<b>158 001 713</b>	20	47	15 - 21	55	119	55	55
20	21 - 27	10	<b>158 001 714</b>	20	47	21 - 27	65	127	70	55
20	27 - 35	10	<b>158 001 715</b>	20	47	27 - 35	80	151	88	55
25	15 - 21	10	<b>158 001 716</b>	25	57	15 - 21	55	128	55	55
25	21 - 27	10	<b>158 001 717</b>	25	57	21 - 27	65	136	70	55
25	27 - 35	10	<b>158 001 718</b>	25	57	27 - 35	80	162	88	55
32	21 - 27	10	<b>158 001 719</b>	32	66	21 - 27	65	159	70	75
32	27 - 35	10	<b>158 001 720</b>	32	66	27 - 35	80	174	88	75

## 90° Elbow

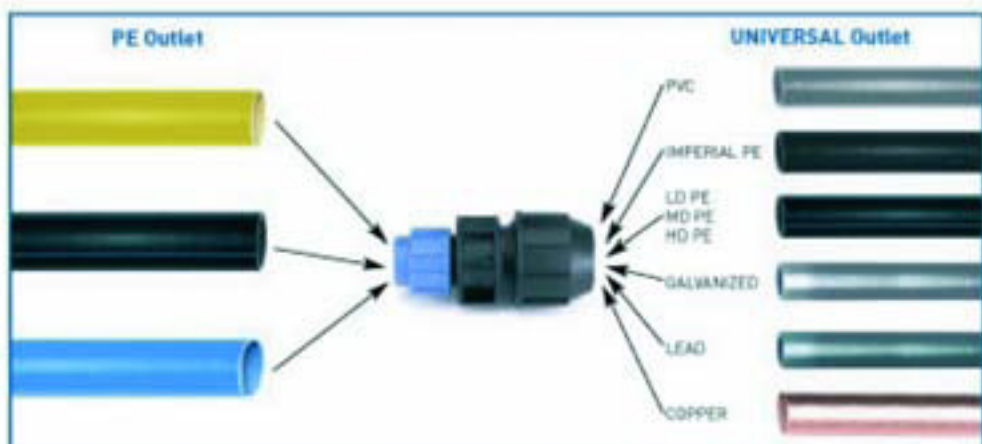


- black offtake: suitable for Metric and Imperial PE, PEX, PVC, ABS, galvanized, lead, copper pipes
- blue offtake: suitable for PE pipe
- water PN10
- material: PP
- gasket: EPDM quality for drinkable water
- non-compliance with POLY16 Plus kits
- colour: blue-black

PE outlet [mm]	Universal outlet [mm]	PN	Code
25	15 - 21	10	<b>158 001 721</b>
25	21 - 27	10	<b>158 001 722</b>

PE outlet [mm]	Universal outlet [mm]	PN	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
25	15 - 21	10	25	57	15 - 21	55	69	55	65	74
25	21 - 27	10	25	57	21 - 27	65	76	70	70	74





## Universal Kit (in compliance with Universal fitting only)

- non-compliance with POLY16 fittings
- water PN10
- material: PP
- gasket: EPDM quality for drinkable water
- (\*)Spare part

PE outlet [mm]	Universal outlet [mm]	PN	Code	
25	15 - 21	10	158 001 723	
32	21 - 27	10	158 001 724	
*	27 - 35	10	158 001 725	

### Universal Fittings Assembly instructions

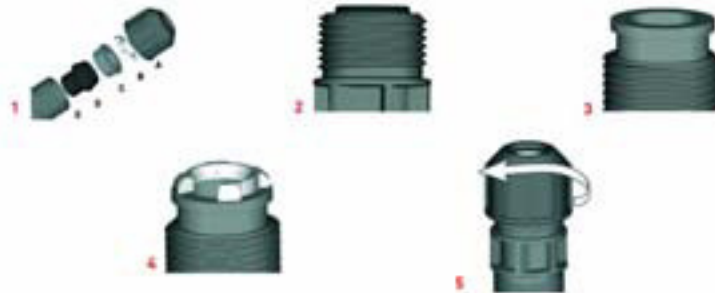
Non-compliance with POLY16 Plus kits.



1. Cut the pipe at a 90-degree angle (square cut). When possible, it is recommended to bevel the edges of the cut in order to make insertion easier.
2. Slacken the ring nut without removing from the body. In case the internal components are disassembled (for example due to its transport), please follow the assembly instructions for the components which can be found in the Kit assembly instructions.
3. Insert the pipe end without tightening the nut. Push the fitting until the pipe reaches the stop.
4. Hand tighten the nut and then tighten further with a proper tool. Do not screw the Universal nut without pipe.

In order to disassemble the Universal nut, follow the Kit assembly instructions in reverse order, keeping in mind that the Universal split ring may require a manual opening of the ends to unseat the steel grippers from the pipe.

### Universal Kit Assembly instructions



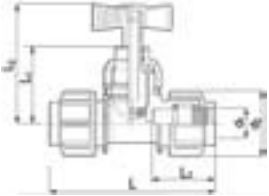
Kit, adaptable only for the universal fitting, allows to transform any metric offtake into an Universal one. The steps involved in the assembly of the components are:

1. Disassemble all the components of the PE metric offtake to transform: nut, split ring, thrust ring and O-ring. Prepare the components of the Universal kit (A, B, C, D).
2. Insert the Universal sealing ring (D) in the body (E), as in the enclosed picture, until the upper edge becomes virtually aligned with the edge of the body. Due to the existing friction between the body and the sealing ring, specially in the bigger sizes, sealing ring insertion may require an additional effort.
3. Place the Universal insert (C) so that it is positioned above the sealing ring and with the flat surface upwards (see enclosed picture).
4. Place the Universal split ring (B) above the insert (C), so that the steel grippers lean on the flat surface of the insert (see enclosed picture).
5. Place the Universal nut (A) and tighten clockwise by just one screw thread, leaving it prepared for pipe insertion. Do not screw the Universal nut without pipe.

In order to disassemble the Universal nut, follow the Kit assembly instructions in reverse order, keeping in mind that the Universal split ring may require a manual opening of the ends to unseat the steel grippers from the pipe.

# Plastic Stop Cock Valves

## Plastic Stop Cock Valve

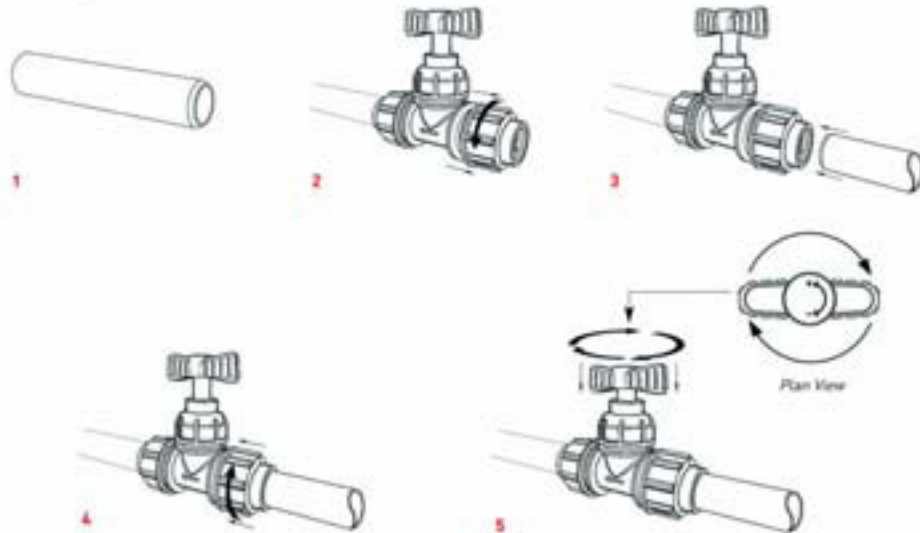


- suitable for PE
- water PN16
- non-compliance with kits
- material: PP
- gasket: O-ring (EPDM)

d [mm]	PN	Code	d [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	d1 [mm]	d2 [mm]
20	16	<b>158 001 872</b>	20	128	64	93	50	20	47
25	16	<b>158 001 874</b>	25	138	65	93	53	25	54
32	16	<b>158 001 876</b>	32	158	71	98	60	32	65

## Plastic Stop Cock Valve Assembly instructions

### Non-compliance with kits



1. Chamfer the pipe with a beveler tool.
2. Refer to the arrow marked on the body for the flow direction. Unscrew the nut without removing it from the body. Ensure the O' ring and the split ring are in the proper position.
3. Insert the pipe end through the nut. Push the pipe until it goes through the O' ring and reaches the pipe stop.
4. Tighten the nut manually, then further tighten with wrench.
5. To lock the Stop Cock, tightly turn the spindle clockwise. To unlock the Stop Cock, turn the spindle anticlockwise.



# POLY16 Plus Clamp Saddles

## Technical information

### Materials

#### Body:

polypropylene copolymer stabilized (PP-B) with Master Batches UV stabilized (Grade 8, ASTM D2565, 1-8)

#### Gasket:

Food safe rubber (NBR); 70 sh

#### Reinforcement ring:

Stainless Steel AISI 430

#### Bolts and nuts:

galvanized or stainless steel

### Standards

#### For PE pipe:

ISO 11922-1; ISO 4427; DIN 8074; AS/NZS 4130; EN 12201-1/2; BS 6572; BS 6730; UNI 7990

#### For PVC pipe:

UNI EN 1452-1/2

#### Threads:

ISO 7-1; DIN EN 10226-1; BS 21; AS 1722.1

#### Test Standards:

AS/NZS 4129; ISO 13460

#### Nominal Pressure PFA (PN):

See single article tables

**Working temperature range (C°): -10° +45°**

### Relation between working pressure and temperature

TEMPERATURE (C°)	- 10° / + 25°	+ 26° / + 35°	+ 36° / + 45°
PFA* (PN)	<b>16</b>	12,5	10
PFA* (PN)	<b>12,5</b>	10	8
PFA* (PN)	<b>10</b>	8	6
PFA* (PN)	<b>6</b>	4,5	N.A.

\* In accordance with EN805

### Sanitary

Clamp saddles suitable for drinking water. The materials comply with all major legislations and recommendations for food and potable water contact.

#### List of abbreviations

<b>BS</b>	British Standard	<b>DN</b>	Nominal diameter
<b>DIN</b>	Deutsche Industrie-Norm	<b>PFA (PN)</b>	Working pressure allowable
<b>ISO</b>	International Standardization Organisation	<b>kg</b>	weight in kilogramm
<b>PP</b>	Polypropylene	<b>SP</b>	standard package (bag)
<b>PE</b>	Polyethylene	<b>GP</b>	Gross Pack (cm. 59x25x41)
<b>NBR</b>	Nitrile butadiene rubber	<b>R</b>	Conical Male thread
<b>d</b>	Pipe outside diameter	<b>Rp</b>	Parallel female thread

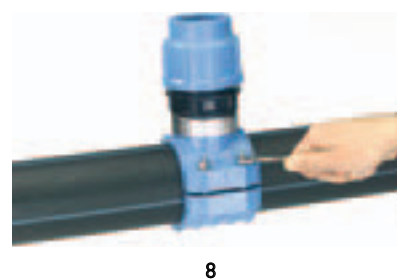
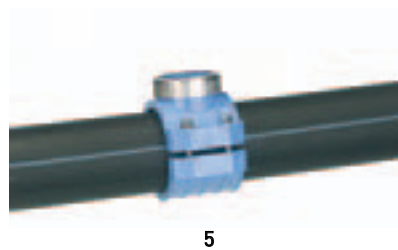
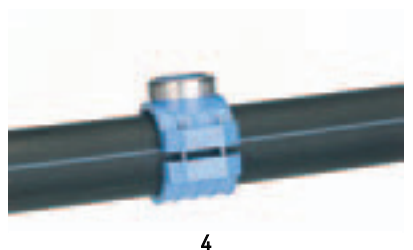
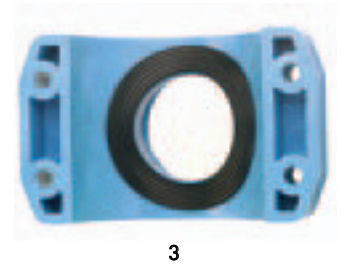
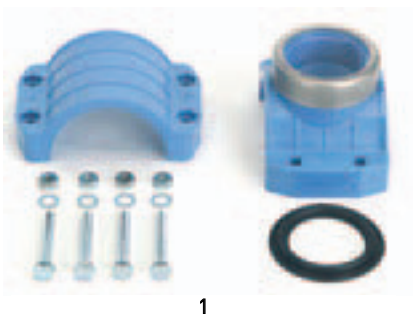
# Clamp Saddles

## Assembly instructions

- 1 check that all components are present
  - verify that on the surface of the pipe are not present impurities (dirt, sand, and so on) or tracks of lubricating oils which could cause sliding while assembling the saddle.
- 2 place the lower part of the saddle on the pipe in correspondence of the chosen area for the derivation.
- 3 position properly the gasket into its seat in the threaded part of the saddle.
- 4 line up the threaded part with the lower part (already in position) and insert the screws from below, preferably in diagonal sequence so that one can simplify the lining up of the two parts.
- 5 insert the possible existing washers and screw the nuts without tightening in depth, until a first blocking of the saddle, so that the rotation on the pipe will be avoided (\*).
- 6 punch the pipe in correspondence of the derivation area (\*\*).
- 7 screw the threaded male of the fitting on the threaded female offtake of the saddle using a suitable quantity of teflon in order to fill the gap between the two threads.
- 8 complete the screwing of the bolts until the two parts of the saddle touch each other (until size 250 mm [8"]; for bigger diameters, until a suitable draught of the bolt).

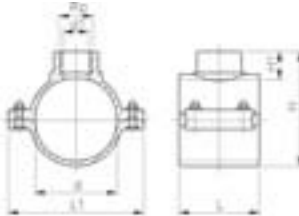
### Please, note:

- (\*): avoid to screw too much the bolts in course of this phase in order not to cause even if slight ovalizations of the threaded female offtake not assembled, yet that could cause subsequent difficulties in screwing the threaded male offtake.
- (\*\*): The punching of the pipe can be advanced depending on the installer's experience.



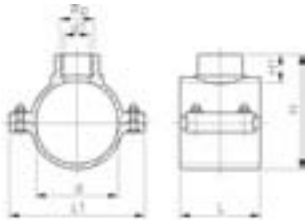
# POLY16 Plus CLAMP SADDLES

## 654X - Blue clamp saddles with stainless steel reinforcement ring, flat gasket and stainless steel bolts and nuts (PN16-PN10)

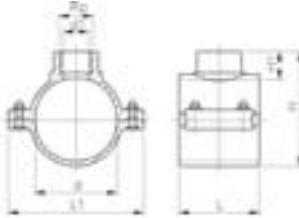


- water PN16-10
- suitable for PE and PVC pipes
- material: PP
- female thread: ISO 7 (parallel)
- gasket: O-ring with flat lip (NBR)
- reinforcement ring: stainless steel AISI430
- bolts and nuts : stainless steel (bolts:AISI304-A2; nuts:AISI316-A4)
- colour: blue
- B= N° of bolts
- M= bolt type
- (\*) with O-ring gasket

d	Rp	PN	B	M	Code	d1	L	L1	H	H1
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]	[mm]
*20	½	16	2	M8X40	727 627 001	12	46	77	59	26
*25	½	16	2	M8X30	727 627 011	13	49	79	58	15
*25	¾	16	2	M8X30	727 627 012	13	49	79	58	15
*32	½	16	2	M8X30	727 627 021	14	49	79	62	20
*32	¾	16	2	M8X30	727 627 022	14	49	79	62	20
*32	1	16	2	M8X40	727 627 023	14	62	87	70	20
40	½	16	2	M8X40	727 627 031	21	62	86	71	20
40	¾	16	2	M8X40	727 627 032	21	62	86	71	20
40	1	16	2	M8X40	727 627 033	21	62	86	70	19
50	½	16	4	M8X40	727 627 041	21	62	86	82	20
50	¾	16	4	M8X40	727 627 042	21	62	86	82	20
50	1	16	4	M8X40	727 627 043	21	62	86	82	20
50	1 ¼	16	4	M8X40	727 627 044	21	62	86	82	20
63	½	16	4	M8X40	727 627 051	18	62	101	96	21
63	¾	16	4	M8X40	727 627 052	24	62	101	96	21
63	1	16	4	M8X40	727 627 053	31	62	101	96	21
63	1 ¼	16	4	M8X40	727 627 054	31	62	101	96	21
63	1 ½	16	4	M8X40	727 627 055	31	62	101	96	21
75	½	16	4	M8X60	727 627 061	16	79	123	102	14
75	¾	16	4	M8X60	727 627 062	21	79	123	104	16
75	1	16	4	M8X60	727 627 063	27	79	123	107	19
75	1 ¼	16	4	M8X60	727 627 064	35	79	123	109	21
75	1 ½	16	4	M8X60	727 627 065	42	79	123	109	21
75	2	16	4	M8X60	727 627 066	53	79	123	112	24
90	½	16	4	M8X60	727 627 071	16	87	138	116	14
90	¾	16	4	M8X60	727 627 072	21	87	138	118	16
90	1	16	4	M8X60	727 627 073	27	87	138	121	19
90	1 ¼	16	4	M8X60	727 627 074	35	87	138	123	21
90	1 ½	16	4	M8X60	727 627 075	42	87	138	123	21
90	2	16	4	M8X60	727 627 076	53	87	138	126	24
110	½	16	6	M8X60	727 627 081	15	99	152	150	23
110	¾	16	6	M8X50	727 627 082	20	99	152	150	23
110	1	16	6	M8X50	727 627 083	26	99	152	150	23
110	1 ¼	16	6	M8X50	727 627 084	35	99	152	150	23
110	1 ½	16	6	M8X50	727 627 085	41	99	152	150	23
110	2	16	6	M8X50	727 627 086	51	99	152	150	23
*110	3	6	6	M8X50	727 627 087	85	99	152	150	23
125	½	16	6	M8X70	727 627 091	15	101	166	169	24
125	¾	16	6	M8X50	727 627 092	20	101	166	169	24
125	1	16	6	M8X50	727 627 093	26	101	166	169	24
125	1 ¼	16	6	M8X50	727 627 094	35	101	166	168	23
125	1 ½	16	6	M8X50	727 627 095	41	101	166	168	23
125	2	16	6	M8X50	727 627 096	50	101	166	168	23
*125	3	6	6	M8X50	727 627 097	85	139	178	180	37
*125	4	6	6	M10X70	727 627 098	90	139	178	181	38
140	½	16	6	M10X70	727 627 101	18	114	207	191	25



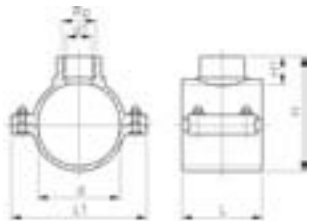
<b>d</b> [mm]	<b>Rp</b> [inch]	<b>PN</b>	<b>B</b>	<b>M</b>	<b>Code</b>	<b>d1</b> [mm]	<b>L</b> [mm]	<b>L1</b> [mm]	<b>H</b> [mm]	<b>H1</b> [mm]
140	¾	16	6	M10X70	<b>727 627 102</b>	24	114	207	191	25
140	1	16	6	M10X70	<b>727 627 103</b>	30	114	207	191	25
140	1 ¼	16	6	M10X70	<b>727 627 104</b>	38	114	207	191	25
140	1 ½	16	6	M10X70	<b>727 627 105</b>	45	114	207	191	24
140	2	16	6	M10X70	<b>727 627 106</b>	50	114	207	191	24
*140	3	10	6	M10X70	<b>727 627 107</b>	85	142	208	201	38
*140	4	10	6	M10X70	<b>727 627 108</b>	90	142	208	201	38
160	½	16	6	M10X70	<b>727 627 111</b>	18	114	226	215	24
160	¾	16	6	M10X70	<b>727 627 112</b>	24	114	226	215	24
160	1	16	6	M10X70	<b>727 627 113</b>	30	114	226	215	24
160	1 ¼	16	6	M10X70	<b>727 627 114</b>	37	114	226	215	24
160	1 ½	16	6	M10X70	<b>727 627 115</b>	45	114	226	215	24
160	2	16	6	M10X70	<b>727 627 116</b>	51	114	226	215	24
*160	3	10	6	M10X70	<b>727 627 117</b>	84	142	228	222	24
*160	4	10	6	M10X70	<b>727 627 118</b>	90	142	228	222	24
*180	1	10	6	M10x80	<b>727 627 123</b>	30	169	262	265	38
*180	1 ¼	10	6	M10x80	<b>727 627 124</b>	36	169	262	265	38
*180	1 ½	10	6	M10x80	<b>727 627 125</b>	42	169	262	265	38
*180	2	10	6	M10x80	<b>727 627 126</b>	54	169	262	265	38
*180	3	10	6	M10x80	<b>727 627 127</b>	84	169	262	265	38
*180	4	10	6	M10x80	<b>727 627 128</b>	108	169	262	265	38
*200	1 ½	10	6	M10x80	<b>727 627 135</b>	45	169	262	265	38
*200	2	10	6	M10x80	<b>727 627 136</b>	54	169	262	265	38
*200	3	10	6	M10x80	<b>727 627 137</b>	85	169	262	265	38
*200	4	10	6	M10x80	<b>727 627 138</b>	103	169	262	267	40
*225	1 ½	10	6	M10x80	<b>727 627 145</b>	45	145	287	287	26
*225	2	10	6	M10x80	<b>727 627 146</b>	51	145	287	287	26
*225	3	10	6	M10x80	<b>727 627 147</b>	85	174	287	295	37
*225	4	10	6	M10x80	<b>727 627 148</b>	103	174	287	295	38
*250	2	10	6	M10x80	<b>727 627 156</b>	55	178	310	314	38
*250	3	10	6	M10x80	<b>727 627 157</b>	85	178	310	314	38
*250	4	10	6	M10x80	<b>727 627 158</b>	103	178	310	314	38
*280	2	10	6	M10x80	<b>727 627 166</b>	51	179	335	326	31
*280	3	10	6	M10x80	<b>727 627 167</b>	78	179	335	338	41
*280	4	10	6	M10x80	<b>727 627 168</b>	98	179	335	338	46
*315	2	10	6	M10x120	<b>727 627 176</b>	51	246	390	350	31
*315	3	10	6	M10x120	<b>727 627 177</b>	78	246	390	363	41
*315	4	10	6	M10x120	<b>727 627 178</b>	98	246	390	363	46



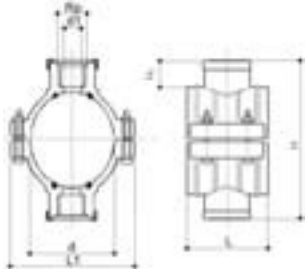
## 654 - Blue clamp saddles with stainless steel reinforcing ring, flat gasket and galvanized bolts and nuts (PN16-PN10)

- water PN16-10
- suitable for PE and PVC pipes
- female thread: ISO 7 (parallel)
- material: PP
- gasket: O-ring with flat lip (NBR)
- reinforcement ring: stainless steel AISI430
- bolts and nuts : galvanized
- colour: blue
- B= N° of bolts
- M= bolt type
- (\*) with O-ring gasket

d	Rp	PN	B	M	Code	d1	L	L1	H	H1
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]	[mm]
*20	½	16	2	M8X40	158 001 041	12	46	77	59	26
*25	½	16	2	M8X30	158 001 042	13	49	79	58	15
*25	¾	16	2	M8X30	158 001 043	13	49	79	58	15
*32	½	16	2	M8X30	158 001 044	14	49	79	62	20
*32	¾	16	2	M8X30	158 001 045	14	49	79	62	20
*32	1	16	2	M8X40	158 001 046	14	62	87	70	20
40	½	16	2	M8X40	158 001 047	21	62	86	71	20
40	¾	16	2	M8X40	158 001 048	21	62	86	71	20
40	1	16	2	M8X40	158 001 049	21	62	86	70	19
50	½	16	4	M8X40	158 001 050	21	62	86	82	20
50	¾	16	4	M8X40	158 001 051	21	62	86	82	20
50	1	16	4	M8X40	158 001 052	21	62	86	82	20
50	1 ¼	16	4	M8X40	158 001 053	21	62	86	82	20
63	½	16	4	M8X40	158 001 054	18	62	101	96	21
63	¾	16	4	M8X40	158 001 055	24	62	101	96	21
63	1	16	4	M8X40	158 001 056	31	62	101	96	21
63	1 ¼	16	4	M8X40	158 001 058	31	62	101	96	21
63	1 ½	16	4	M8X40	158 001 057	31	62	101	96	21
75	½	16	4	M8X60	158 001 059	16	79	123	102	14
75	¾	16	4	M8X60	158 001 060	21	79	123	104	16
75	1	16	4	M8X60	158 001 061	27	79	123	107	19
75	1 ¼	16	4	M8X60	158 001 062	35	79	123	109	21
75	1 ½	16	4	M8X60	158 001 063	42	79	123	109	21
75	2	16	4	M8X60	158 001 064	53	79	123	112	24
90	½	16	4	M8X60	158 001 065	16	87	138	116	14
90	¾	16	4	M8X60	158 001 066	21	87	138	118	16
90	1	16	4	M8X60	158 001 067	27	87	138	121	19
90	1 ¼	16	4	M8X60	158 001 069	35	87	138	123	21
90	1 ½	16	4	M8X60	158 001 068	42	87	138	123	21
90	2	16	4	M8X60	158 001 070	53	87	138	126	24
110	½	16	6	M8X50	158 001 071	15	99	152	150	23
110	¾	16	6	M8X50	158 001 072	20	99	152	150	23
110	1	16	6	M8X50	158 001 073	26	99	152	150	23
110	1 ¼	16	6	M8X50	158 001 075	35	99	152	150	23
110	1 ½	16	6	M8X50	158 001 074	41	99	152	150	23
110	2	16	6	M8X50	158 001 076	51	99	152	150	23
*110	3	6	6	M8x70	158 001 077	85	99	152	150	23
125	½	16	6	M8X50	158 001 078	15	101	166	169	24
125	¾	16	6	M8X50	158 001 079	20	101	166	169	24
125	1	16	6	M8X50	158 001 080	26	101	166	169	24
125	1 ¼	16	6	M8X50	158 001 081	35	101	166	168	23
125	1 ½	16	6	M8X50	158 001 082	41	101	166	168	23
125	2	16	6	M8X50	158 001 083	50	101	166	168	23
*125	3	6	6	M8X70	158 001 084	85	139	178	180	37
*125	4	6	6	M8X70	158 001 085	90	139	178	181	38
140	½	16	6	M8X70	158 001 086	18	114	207	191	25



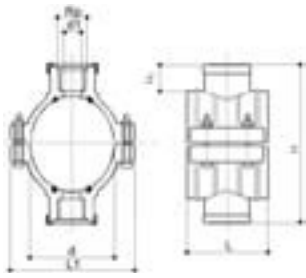
<b>d</b> [mm]	<b>Rp</b> [inch]	<b>PN</b>	<b>B</b>	<b>M</b>	<b>Code</b>	<b>d1</b> [mm]	<b>L</b> [mm]	<b>L1</b> [mm]	<b>H</b> [mm]	<b>H1</b> [mm]
140	¾	16	6	M8X70	<b>158 001 087</b>	24	114	207	191	25
140	1	16	6	M8X70	<b>158 001 088</b>	30	114	207	191	25
140	1 ¼	16	6	M8X70	<b>158 001 090</b>	38	114	207	191	25
140	1 ½	16	6	M8X70	<b>158 001 089</b>	45	114	207	191	24
140	2	16	6	M8X70	<b>158 001 091</b>	50	114	207	191	24
*140	3	10	6	M8X70	<b>158 001 092</b>	85	142	208	201	38
*140	4	10	6	M8X70	<b>158 001 093</b>	90	142	208	201	38
160	½	16	6	M8X70	<b>158 001 094</b>	18	114	226	215	24
160	¾	16	6	M8X70	<b>158 001 095</b>	24	114	226	215	24
160	1	16	6	M8X70	<b>158 001 096</b>	30	114	226	215	24
160	1 ¼	16	6	M8X70	<b>158 001 098</b>	37	114	226	215	24
160	1 ½	16	6	M8X70	<b>158 001 097</b>	45	114	226	215	24
160	2	16	6	M8X70	<b>158 001 099</b>	51	114	226	215	24
*160	3	10	6	M8X70	<b>158 001 100</b>	84	142	228	222	38
*160	4	10	6	M8X70	<b>158 001 101</b>	90	142	228	222	38
*180	1	10	6	M10X80	<b>158 001 102</b>	30	169	262	265	38
*180	1 ¼	10	6	M10X80	<b>158 001 104</b>	36	169	262	265	38
*180	1 ½	10	6	M10X80	<b>158 001 103</b>	54	169	262	265	38
*180	2	10	6	M10X80	<b>158 001 105</b>	54	169	262	265	38
*180	3	10	6	M10X80	<b>158 001 106</b>	85	169	262	265	38
*180	4	10	6	M10X80	<b>158 001 107</b>	103	169	262	267	40
*200	1 ½	10	6	M10X80	<b>158 001 108</b>	45	169	262	265	38
*200	2	10	6	M10X80	<b>158 001 109</b>	54	169	262	265	38
*200	3	10	6	M10X80	<b>158 001 110</b>	85	169	262	265	38
*200	4	10	6	M10X80	<b>158 001 111</b>	103	169	262	267	40
*225	1 ½	10	6	M10X80	<b>158 001 112</b>	45	145	287	287	26
*225	2	10	6	M10X80	<b>158 001 113</b>	51	145	287	287	26
*225	3	10	6	M10X80	<b>158 001 114</b>	85	174	287	295	37
*225	4	10	6	M10X80	<b>158 001 115</b>	103	174	287	295	38
*250	2	10	6	M10X80	<b>158 001 116</b>	55	178	310	314	38
*250	3	10	6	M10X80	<b>158 001 117</b>	85	178	310	314	38
*250	4	10	6	M10X80	<b>158 001 118</b>	103	178	310	314	38
*280	2	10	6	M10X80	<b>158 001 119</b>	51	179	335	326	31
*280	3	10	6	M10X80	<b>158 001 120</b>	78	179	335	338	41
*280	4	10	6	M10X80	<b>158 001 121</b>	98	179	335	338	46
*315	2	10	6	M10X120	<b>158 001 122</b>	51	246	390	350	31
*315	3	10	6	M10X120	<b>158 001 123</b>	78	246	390	363	41
*315	4	10	6	M10X120	<b>158 001 124</b>	98	246	390	363	46



## 664 - Double blue clamp saddles with stainless steel reinforcing ring, flat gasket and galvanized bolts and nuts (PN16-PN10)

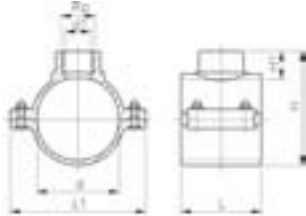
- water PN16-10
- suitable for PE and PVC pipes
- female thread: ISO 7 (parallel)
- material: PP
- gasket: O-ring with flat lip (NBR)
- reinforcement ring: stainless steel AISI430
- bolts and nuts : stainless steel (bolts:AISI304-A2; nuts:AISI316-A4)
- colour: blue
- B= N° of bolts
- M= bolt type
- (\*) with O-ring gasket

d	Rp	PN	B	M	Code	d1	L	L1	H	H1
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]	[mm]
*20	½	16	2	M8X40	158 001 125	12	46	77	84	26
*25	½	16	2	M8X30	158 001 126	13	49	79	80	15
*25	¾	16	2	M8X30	158 001 127	13	49	79	80	15
*32	½	16	2	M8X30	158 001 128	14	49	79	80	20
*32	¾	16	2	M8X30	158 001 129	14	62	87	87	20
*32	1	16	2	M8X50	158 001 130	14	62	87	91	20
40	½	16	2	M8X50	158 001 131	21	62	86	91	20
40	¾	16	2	M8X50	158 001 132	21	62	86	91	20
40	1	16	2	M8X50	158 001 133	21	62	86	89	19
50	½	16	4	M8X50	158 001 134	21	62	86	101	20
50	¾	16	4	M8X50	158 001 135	21	62	86	101	20
50	1	16	4	M8X50	158 001 136	21	62	86	101	20
50	1 ¼	16	4	M8X50	158 001 137	21	62	86	101	20
63	½	16	4	M8X50	158 001 138	18	62	101	115	21
63	¾	16	4	M8X50	158 001 139	24	62	101	115	21
63	1	16	4	M8X50	158 001 140	31	62	101	115	21
63	1 ¼	16	4	M8X50	158 001 142	31	62	101	115	21
63	1 ½	16	4	M8X50	158 001 141	31	62	101	115	21
75	½	16	4	M8X70	158 001 143	16	79	123	115	14
75	¾	16	4	M8X70	158 001 144	21	79	123	119	16
75	1	16	4	M8X70	158 001 145	27	79	123	125	19
75	1 ¼	16	4	M8X70	158 001 147	35	79	123	129	21
75	1 ½	16	4	M8X70	158 001 146	42	79	123	129	21
75	2	16	4	M8X70	158 001 148	53	79	123	135	24
90	½	16	4	M8X70	158 001 149	16	87	138	129	14
90	¾	16	4	M8X70	158 001 150	21	87	138	133	16
90	1	16	4	M8X70	158 001 151	27	87	138	139	19
90	1 ¼	16	4	M8X70	158 001 153	35	87	138	145	21
90	1 ½	16	4	M8X70	158 001 152	42	87	138	145	21
90	2	16	4	M8X70	158 001 154	53	87	138	151	24
110	½	16	6	M8X70	158 001 155	15	99	152	169	23
110	¾	16	6	M8X70	158 001 156	20	99	152	169	23
110	1	16	6	M8X70	158 001 157	26	99	152	169	23
110	1 ¼	16	6	M8X70	158 001 159	35	99	152	169	23
110	1 ½	16	6	M8X70	158 001 158	41	99	152	169	23
110	2	16	6	M8X70	158 001 160	51	99	152	169	23
*110	3	6	6	M8X70	158 001 161	85	99	152	169	23
125	½	16	6	M8X70	158 001 162	15	101	166	189	24
125	¾	16	6	M8X70	158 001 163	20	101	166	189	24
125	1	16	6	M8X70	158 001 164	26	101	166	189	24
125	1 ¼	16	6	M8X70	158 001 166	35	101	166	188	23
125	1 ½	16	6	M8X70	158 001 165	41	101	166	188	23
125	2	16	6	M8X70	158 001 167	50	101	166	188	23
*125	3	6	6	M8X70	158 001 168	85	139	178	188	37
*125	4	6	6	M8X70	158 001 169	90	139	178	188	38
140	½	16	6	M8X70	158 001 170	18	114	207	209	25



<b>d</b> [mm]	<b>Rp</b> [inch]	<b>PN</b>	<b>B</b>	<b>M</b>	<b>Code</b>	<b>d1</b> [mm]	<b>L</b> [mm]	<b>L1</b> [mm]	<b>H</b> [mm]	<b>H1</b> [mm]
140	¾	16	6	M8X70	<b>158 001 171</b>	24	114	207	208	25
140	1	16	6	M8X70	<b>158 001 172</b>	30	114	207	208	25
140	1 ¼	16	6	M8X70	<b>158 001 174</b>	38	114	207	208	25
140	1 ½	16	6	M8X70	<b>158 001 173</b>	45	114	207	206	24
140	2	16	6	M8X70	<b>158 001 175</b>	50	114	207	207	24
*140	3	10	6	M8X70	<b>158 001 176</b>	85	142	208	207	38
*140	4	10	6	M8X70	<b>158 001 177</b>	90	142	208	207	38
160	½	16	6	M8X70	<b>158 001 178</b>	18	114	226	225	24
160	¾	16	6	M8X70	<b>158 001 179</b>	24	114	226	225	24
160	1	16	6	M8X70	<b>158 001 180</b>	30	114	226	225	24
160	1 ¼	16	6	M8X70	<b>158 001 182</b>	37	114	226	225	24
160	1 ½	16	6	M8X70	<b>158 001 181</b>	45	114	226	225	24
160	2	16	6	M8X70	<b>158 001 183</b>	51	114	226	225	24
*160	3	10	6	M8X70	<b>158 001 184</b>	85	142	228	225	38
*160	4	10	6	M8X70	<b>158 001 185</b>	90	142	228	225	38
*180	1	10	6	M8X70	<b>158 001 186</b>	30	169	262	303	38
*180	1 ¼	10	6	M8X70	<b>158 001 188</b>	37	169	262	303	38
*180	1 ½	10	6	M8X70	<b>158 001 187</b>	45	169	262	303	38
*180	2	10	6	M8X70	<b>158 001 189</b>	51	169	262	303	38
*180	3	10	6	M10X80	<b>158 001 190</b>	85	169	262	303	38
*180	4	10	6	M10X80	<b>158 001 191</b>	90	169	262	303	40
*200	1 ½	10	6	M10X80	<b>158 001 192</b>	45	169	262	323	38
*200	2	10	6	M10X80	<b>158 001 193</b>	51	169	262	323	38
*200	3	10	6	M10X80	<b>158 001 194</b>	85	169	262	323	38
*200	4	10	6	M10X80	<b>158 001 195</b>	90	169	262	323	40
*225	1 ½	10	6	M10X80	<b>158 001 196</b>	45	145	287	351	26
*225	2	10	6	M10X80	<b>158 001 197</b>	51	145	287	351	26
*225	3	10	6	M10X80	<b>158 001 198</b>	85	174	287	351	37
*225	4	10	6	M10X80	<b>158 001 199</b>	90	174	287	351	38
*250	2	10	6	M10X80	<b>158 001 200</b>	51	178	310	375	38
*250	3	10	6	M10X80	<b>158 001 201</b>	85	178	310	375	38
*250	4	10	6	M10X80	<b>158 001 202</b>	90	178	310	375	38





## 154 (for metal pipes) -Black clamp saddles with reinforcing ring and flat gasket , galvanized bolts and nuts

- water PN12,5
- suitable for metal pipe (see “ d “ in the table)
- female thread: ISO 7 (parallel)
- material: PP
- gasket: O-ring with flat lip (NBR)
- reinforcement ring: stainless steel AISI430
- bolts and nuts : galvanized
- colour: black
- B= N° of bolts
- M= bolt type

d	Rp	PN	B	M	Code	d1	L	L1	H	H1
[mm]	[inch]	[bar]				[mm]	[mm]	[mm]	[mm]	[mm]
60	½	12.5	4	M8X40	<b>158 001 203</b>	18	62	101	96	21
60	¾	12.5	4	M8X40	<b>158 001 706</b>	24	62	101	96	21
60	1	12.5	4	M8X40	<b>158 001 707</b>	31	62	101	96	21
60	1 ¼	12.5	4	M8X40	<b>158 001 709</b>	31	62	101	96	21
60	1 ½	12.5	4	M8X40	<b>158 001 708</b>	31	62	101	96	21
80	½	12.5	4	M8X40	<b>158 001 204</b>	18	77	116	113	20
80	¾	12.5	4	M8X50	<b>158 001 205</b>	20	77	116	113	20
80	1	12.5	4	M8X50	<b>158 001 206</b>	27	77	116	113	20
80	1 ¼	12.5	4	M8X50	<b>158 001 208</b>	35	77	116	113	20
80	1 ½	12.5	4	M8X50	<b>158 001 207</b>	45	77	116	113	20
100	½	12.5	4	M8X50	<b>158 001 209</b>	15	99	155	147	22
100	¾	12.5	4	M8X50	<b>158 001 210</b>	20	99	155	147	22
100	1	12.5	4	M8X50	<b>158 001 211</b>	26	99	155	147	22
100	1 ¼	12.5	4	M8X50	<b>158 001 213</b>	35	99	155	147	22
100	1 ½	12.5	4	M8X50	<b>158 001 212</b>	41	99	155	147	22
120	¾	12.5	4	M8X50	<b>158 001 214</b>	20	101	166	167	24
120	1	12.5	4	M8X50	<b>158 001 215</b>	26	101	166	167	24
120	1 ¼	12.5	4	M8X50	<b>158 001 217</b>	35	101	166	167	24
120	1 ½	12.5	4	M8X50	<b>158 001 216</b>	41	101	166	167	24

# POLY16 *Plus*



**Mechanical  
Tapping  
Saddle**

# POLY16 Plus Tapping Saddle

## Technical information

### Materials

#### Body (upper and lower section):

Virgin polypropilene copolymer (PP-B), highly UV stabilized, black coloured

#### Sealing cup:

Virgin polypropilene copolymer (virgin PP-B), highly UV stabilized

Universal Line – blue coloured with master batches highly UV stabilized (grade 8)

PE Line – black coloured

#### Compression offtake:

See POLY16Plus compression fittings technical information

#### Gaskets (sealing cap and saddle body):

Food safe rubber (NBR and special NBR KTW approved);

sh 70, black coloured

Sealing cup: O-ring

Universal Line – Saddle body: flat

PE Line – Saddle Body: maximize O-ring

#### Cutter:

Universal Line - brass

PE Line - polyacetalic resin (POM) and stainless steel  
AISI 304

#### Cutter extension (only PE Line):

polyacetalic resin (POM)

blue coloured

#### Bolts and Nuts:

galvanized

or stainless steel (bolts: AISI 304-A2; nuts: AISI 316-A4)

### Standard

#### For PE pipes:

ISO 11922-1; DIN 8074; EN 12201-1/2; AS/NZS 4130; BS 6572; ISO 4427; UNI 7990

#### For PVC pipes:

ISO 4422-1/2 ; DIN 8062; UNI EN 1452-1/2

#### Threads :

UNI EN ISO 7-1; DIN EN 10226-1; BS 21

#### Test Standards:

AS/NZS/4129 – ISO 14236 – ISO 13460

#### Nominal pressure : PFA (PN)

16 bar

### Sanitary

Tapping saddles suitable for drinking water. The materials comply with all major legislations and recommendations for food and potable water contact.

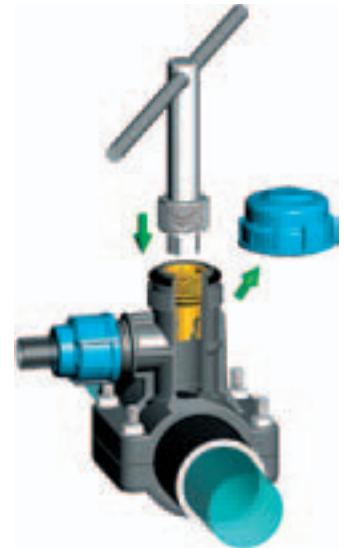
# POLY16 Plus Tapping Saddle Universal Line Assembly Instructions



1



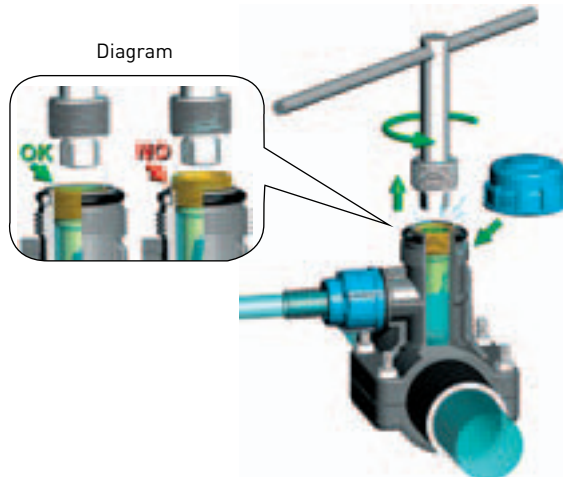
2



3



4




5



6

- 1 Place the bolts in the lower section of the saddle and place underneath the pipe. Assemble the gasket in the upper section site.  
*Attach the upper section and tighten diagonally (If SS bolts are used, lubrication of the bolts is recommended).*
- 2 Insert the outlet pipe (or connect the female thread) and assemble in accordance with the compression fittings instructions.
- 3 Unscrew the sealing cap and insert the special +GF+ key (Tab. 1) into the hexagonal recess of the cutter (*caution: take care to align the saddle and key threads*)
- 4 Screw the cutter into the pipe until a small amount of water will escape past the threads, and/or until the screwing strenght decreases, showing the main has been tapped. When the screwing strenght increases again, you have reached the final stop of the cutter inside the saddle. We recommend to mark the key with the correct drilling depht (H) (Tab.1). Screw the cutter until the mark aligns with the top of the tapping saddle thread.
- 5 Unscrew the cutter to the top of the tapping saddle thread: do not go beyond this point (see diagram in picture 5).
- 6 To complete the assembly, refit the sealing cap using the +GF+ spanner for compression fittings.

Tab.1: Special +GF+ key

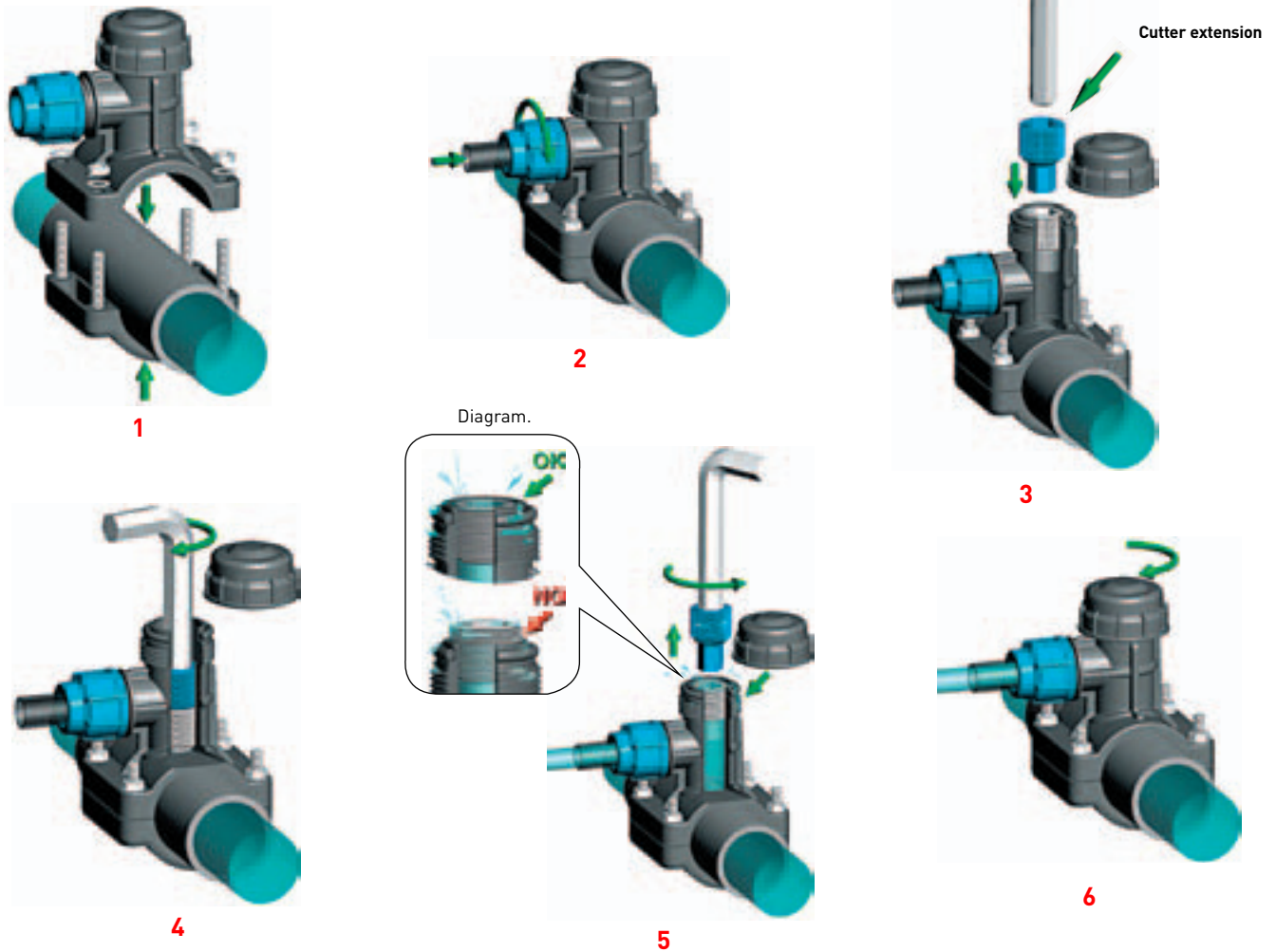
	DN Main (mm)	Offtake	H (mm)
	50-63		80
	75-90		90
	110-125-140-160	25-32-40-1"	110
	110-125-140-160	50-63-75-2"	130

H = Drilling depth

Max. wall thickness cut (e)


DN Main (mm)	e (mm)
50	10
63	10
75	14
90	14
110	16
125	20
140	20
160	20

# POLY16 Plus Tapping Saddle PE Line Assembly Instructions



- 1 Place the bolts in the lower section of the saddle and place underneath the pipe. Assemble the gasket in the upper section site. Attach the upper section and tighten diagonally. *(If SS bolts are used, lubrication of the bolts is recommended).*
- 2 Insert the outlet pipe (or connect the female thread) and assemble in accordance with the compression fittings instructions.
- 3 Unscrew the sealing cap and insert the relevant threaded extension into the hexagonal recess of the cutter. Screw using an hexagonal standard key (Tab.1). *Caution: take care to align hexagons threaded extension-cutter, and saddle-extension threads.*
- 4 Screw the threaded extension/cutter system until a small amount of water will escape through the threads, and/or until the screwing strenght decreases, showing the main has been tapped. When the screwing strenght increases again, you have reached the final stop of the cutter inside the saddle. We recommend to mark the key with the correct drilling depth (H), (Tab. 1). Screw the cutter until the mark aligns with the top of the saddle.
- 5 Unscrew the extension/cutter system to the top of the saddle: the cutter doesn't have to go beyond this point (see diagram in picture 5). Remove the threaded cutter extension.
- 6 To complete the assembly, refit the sealing cap using a tightening wrench for compression fittings.

Tab.1: 17 mm standard hexagonal key

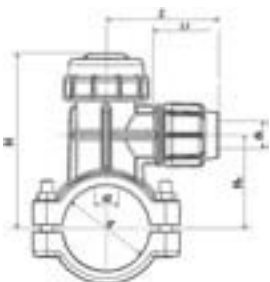
	DN Main (mm)	Offtake	H (mm)
 H = Drilling depth	50-63		55
	75-90		65
	110-125-140-160	25-32-40-1"	85
	110-125-140-160	50-63-75-2"	95

Max. wall thickness cut (e)

DN Main (mm)	e (mm)
50	10
63	10
75	14
90	14
110	16
125	20
140	20
160	20

# POLY16 Plus Tapping Saddle UNIVERSAL LINE

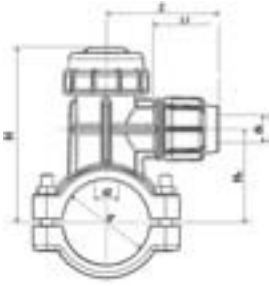
## 684C - Tapping Saddle for PE and PVC pipes with compression fitting offtake, flat gasket and stainless steel bolts and nuts



- water PN16
- suitable for PE, PEX-a and PVC pipes
- material: PP
- cutter: brass
- gasket: NBR (saddle: O-ring with flat lip; offtake: double lip; sealing cup: O-ring)
- bolts and nuts : stainless steel (bolts:AISI304-A2; nuts:AISI316-A4)
- colour: blue-black
- Key kit type (L=little; M=medium; B=big)
- B= N° of bolts
- M= bolt type

d	d1	PN	B	M	Key Kit type	Code
[mm]	[mm]					
50	20	16	4	M8X50	L	700 627 748
50	25	16	4	M8X50	L	700 627 749
50	32	16	4	M8X50	L	700 627 750
63	20	16	4	M8X50	L	700 627 751
63	25	16	4	M8X50	L	700 627 752
63	32	16	4	M8X50	L	700 627 753
75	25	16	4	M8X70	M	700 627 754
75	32	16	4	M8X70	M	700 627 755
75	40	16	4	M8X70	M	700 627 756
90	25	16	4	M8X70	M	700 627 757
90	32	16	4	M8X70	M	700 627 758
90	40	16	4	M8X70	M	700 627 759
110	25	16	6	M8X70	M	700 627 760
110	32	16	6	M8X70	M	700 627 761
110	40	16	6	M8X70	M	700 627 762
110	50	16	6	M8X70	B	700 627 763
110	63	16	6	M8X70	B	700 627 764
110	75	16	6	M8X70	B	700 627 765
125	32	16	6	M8X70	B	700 627 766
125	40	16	6	M8X70	B	700 627 767
125	50	16	6	M8X70	B	700 627 768
125	63	16	6	M8X70	B	700 627 769
125	75	16	6	M8X70	B	700 627 770
140	32	16	6	M10X100	B	700 627 771
140	40	16	6	M10X100	B	700 627 772
140	50	16	6	M10X100	B	700 627 773
140	63	16	6	M10X100	B	700 627 774
140	75	16	6	M10X100	B	700 627 775
160	32	16	6	M10X110	B	700 627 776
160	40	16	6	M10X110	B	700 627 777
160	50	16	6	M10X110	B	700 627 778
160	63	16	6	M10X110	B	700 627 779
160	75	16	6	M10X110	B	700 627 780

d	d1	d2	H	H1	L	L1	z
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
50	20	26	118	58	75	55	80
50	25	26	118	58	75	58	90
50	32	26	118	58	75	64	100
63	20	26	125	65	90	55	80
63	25	26	125	65	90	60	90
63	32	26	125	65	90	63	100

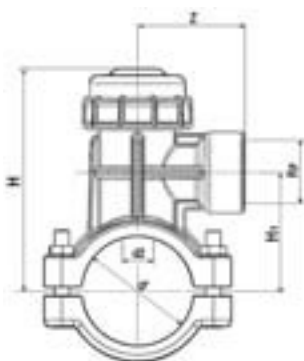


<b>d</b>	<b>d1</b>	<b>d2</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>z</b>
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	25	33	142	75	98	60	90
75	32	33	142	75	98	62	100
75	40	33	142	75	98	74	120
90	25	33	152	85	100	60	90
90	32	33	152	85	100	62	100
90	40	33	152	85	100	74	120
110	25	33	190	108	130	60	100
110	32	33	190	108	130	77	118
110	40	33	190	118	130	87	130
110	50	40	205	118	130	108	151
110	63	40	205	118	130	125	180
110	75	40	205	118	130	146	205
125	32	40	210	115	135	76	120
125	40	40	210	115	135	87	130
125	50	40	225	130	135	102	146
125	63	40	225	130	135	128	180
125	75	40	225	130	135	146	205
140	32	40	225	125	155	72	120
140	40	40	225	125	155	87	130
140	50	40	240	135	155	102	146
140	63	40	240	135	155	128	180
140	75	40	240	135	155	146	205
160	32	40	235	140	160	76	120
160	40	40	235	140	160	87	130
160	50	40	250	155	160	110	146
160	63	40	250	155	160	128	180
160	75	40	250	155	160	146	205



## 684F - Tapping Saddle for PE and PVC pipes with threaded female offtake, flat gasket and stainless steel bolts and nuts

- water PN16
- female thread: ISO 7 (parallel)
- suitable for PE, PEX-a and PVC pipes
- material: PP
- cutter: brass
- gasket: NBR (saddle: O-ring with flat lip; sealing cup: O-ring)
- bolts and nuts : stainless steel (bolts:AISI304-A2; nuts:AISI316-A4)
- colour: blue
- colour: blue-black
- Key kit type (L=little; M=medium; B=big)
- B= N° of bolts
- M= bolt type



d [mm]	Rp [inch]	PN	B	M	Key Kit type	Code	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]
50	1	16	4	M8X50	L	<b>700 627 791</b>	26	118	58	75	61
63	1	16	4	M8X50	L	<b>700 627 792</b>	26	125	65	90	61
75	1	16	4	M8X70	M	<b>700 627 793</b>	33	142	75	98	61
90	1	16	4	M8X50	M	<b>700 627 794</b>	33	152	85	100	61
90	2	16	4	M8X50	M	<b>700 627 795</b>	33	152	85	100	72
110	1	16	6	M8X50	M	<b>700 627 796</b>	33	190	108	130	78
110	2	16	6	M8X50	B	<b>700 627 797</b>	40	205	118	130	80
125	2	16	6	M8X50	B	<b>700 627 798</b>	40	225	130	135	80
140	2	16	6	M10X100	B	<b>700 627 799</b>	40	240	135	155	80
160	2	16	6	M10X100	B	<b>700 627 800</b>	40	250	155	160	80



### Key kit for Tapping Saddle Universal Line

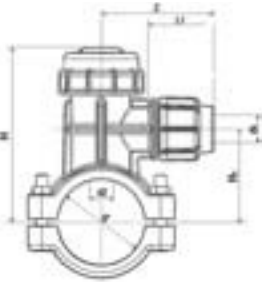
- Essential for Tapping Saddle Universal Line assembly

Dim.	Code
L (little)	<b>158 001 777</b>
M (medium)	<b>158 001 778</b>
B (big)	<b>158 001 779</b>



# POLY16 Plus Tapping Saddle PE LINE

## 680C - Tapping Saddle for PE pipes with compression fitting offtake, O-ring gasket and galvanized bolts and nuts



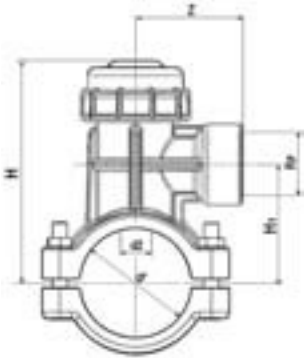
- water PN16
- suitable for PE and PEX-a pipes
- material: PP
- cutter: stainless steel (AISI304) and polyacetalic resin (POM)
- gasket: NBR (saddle and sealing cup: O-ring; offtake: double lip)
- bolts and nuts : galvanized
- colour: blue
- colour: blue-black
- B= N° of bolts
- M= bolt type

d	d1	PN	B	M	Code	d2	H	H1	L	L1	z
[mm]	[mm]					[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
50	20	16	4	M8X50	<b>700 627 715</b>	26	118	58	75	55	80
50	25	16	4	M8x50	<b>700 627 716</b>	26	118	58	75	58	90
50	32	16	4	M8X50	<b>700 627 717</b>	26	118	58	75	64	100
63	20	16	4	M8X50	<b>700 627 718</b>	26	125	65	90	55	80
63	25	16	4	M8X50	<b>700 627 719</b>	26	125	65	90	60	90
63	32	16	4	M8X50	<b>700 627 720</b>	26	125	65	90	63	100
75	25	16	4	M8X70	<b>700 627 721</b>	33	142	75	98	60	90
75	32	16	4	M8X70	<b>700 627 722</b>	33	142	75	98	62	100
75	40	16	4	M8X70	<b>700 627 723</b>	33	142	75	98	74	120
90	25	16	4	M8X70	<b>700 627 724</b>	33	152	85	100	60	90
90	32	16	4	M8X70	<b>700 627 725</b>	33	152	85	100	62	100
90	40	16	4	M8X70	<b>700 627 726</b>	33	152	85	100	74	120
110	25	16	6	M8X70	<b>700 627 727</b>	33	190	108	130	60	100
110	32	16	6	M8X70	<b>700 627 728</b>	33	190	108	130	77	118
110	40	16	6	M8X70	<b>700 627 729</b>	33	190	118	130	87	130
110	50	16	6	M8X70	<b>700 627 730</b>	40	205	118	130	108	151
110	63	16	6	M8X70	<b>700 627 731</b>	40	205	118	130	125	180
110	75	16	6	M8X70	<b>700 627 732</b>	40	205	118	130	146	205
125	32	16	6	M8X70	<b>700 627 733</b>	40	210	115	135	76	120
125	40	16	6	M8X70	<b>700 627 734</b>	40	210	115	135	87	130
125	50	16	6	M8X70	<b>700 627 735</b>	40	225	130	135	102	146
125	63	16	6	M8X70	<b>700 627 736</b>	40	225	130	135	128	180
125	75	16	6	M8X70	<b>700 627 737</b>	40	225	130	135	146	205
140	32	16	6	M10X100	<b>700 627 738</b>	40	225	125	155	72	120
140	40	16	6	M10X100	<b>700 627 739</b>	40	225	125	155	87	130
140	50	16	6	M10X100	<b>700 627 740</b>	40	240	135	155	102	146
140	63	16	6	M10X100	<b>700 627 741</b>	40	240	135	155	128	180
140	75	16	6	M10X100	<b>700 627 742</b>	40	240	135	155	146	205
160	32	16	6	M10X110	<b>700 627 743</b>	40	235	140	160	76	120
160	40	16	6	M10X110	<b>700 627 744</b>	40	235	140	160	87	130
160	50	16	6	M10X110	<b>700 627 745</b>	40	250	155	160	110	146
160	63	16	6	M10X110	<b>700 627 746</b>	40	250	155	160	128	180
160	75	16	6	M10X110	<b>700 627 747</b>	40	250	155	160	146	205



## 680F - Tapping Saddle for PE pipes with threaded female offtake, O-ring gasket and galvanized bolts and nuts

- water PN16
- female thread: ISO 7 (parallel)
- suitable for PE and PEX-a pipes
- material: PP
- gasket: NBR (saddle and sealing cup: O-ring)
- bolts and nuts : galvanized
- colour: black
- B= N° of bolts
- M= bolt type



<b>d</b> [mm]	<b>Rp</b> [inch]	<b>PN</b>	<b>B</b>	<b>M</b>	<b>Code</b>	<b>d2</b> [mm]	<b>H</b> [mm]	<b>H1</b> [mm]	<b>L</b> [mm]	<b>z</b> [mm]
50	1	16	4	M8x50	<b>700 627 781</b>	26	118	58	75	61
63	1	16	4	M8x50	<b>700 627 782</b>	26	125	65	90	61
75	1	16	4	M8x70	<b>700 627 783</b>	33	142	75	98	61
90	1	16	4	M8x70	<b>700 627 784</b>	33	152	85	100	61
90	2	16	4	M8x70	<b>700 627 785</b>	33	152	85	100	72
110	1	16	6	M8x70	<b>700 627 786</b>	33	190	108	130	78
110	2	16	6	M8x70	<b>700 627 787</b>	40	205	118	130	80
125	2	16	6	M8x70	<b>700 627 788</b>	40	225	130	135	80
140	2	16	6	M10X100	<b>700 627 789</b>	40	240	135	155	80
160	2	16	6	M10X110	<b>700 627 790</b>	40	250	155	160	80

# POLYFAST AZ



**Compression  
fittings  
and clamp  
saddles**

+GF+

# POLYFAST AZ Compression Fittings

## Technical information

### Materials

#### Body, Thrust ring:

polypropylene copolymer stabilized (PP-B)

#### Nut:

polypropylene copolymer stabilized (PP-B) with Master Batches UV stabilized (Grade 8, ASTM D2565, 1-8)

#### Clamp ring:

Acetalic resin (POM)

#### Gasket:

Food safe rubber (NBR ); d20-63 sh70 / d75-110 sh60

#### Reinforcement ring:

Stainless Steel AISI 430 (for female thread from 1"1/4 to 4")

### Standards

#### For PE pipe:

ISO 11922-1; ISO 12162; ISO 4427; DIN 8074; EN 12201-1/2; AS/NZS 4130; BS 6572; UNI 7990

#### Threads:

ISO 7-1; DIN EN 10226-1; BS 21; AS 1722.1

#### Flanges:

DIN 2501.1; DIN 8063-4; ISO 7005

#### Test Standards:

ISO 14236; DIN 8076-3; AS/NZS 4129; UNI 9561

#### Nominal Pressure (PN):

See single item tables

### Colour

**Body, Thrust ring, Rubber:** Black

**Nut:** green

**Clamp ring:** white

**Working temperature range (C°): -10° +45°**

### Relation between working pressure and temperature

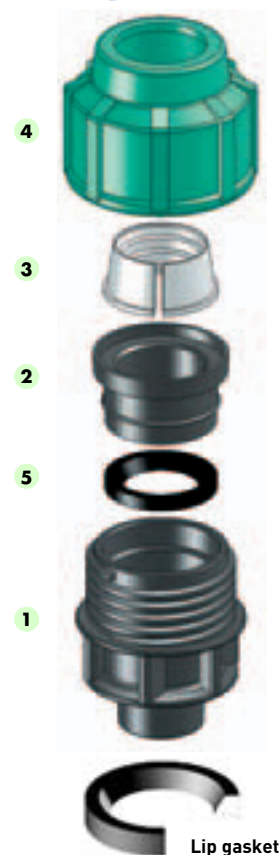
TEMPERATURE (C°)	- 10° / + 25°	+ 26° / + 35°	+ 36° / + 45°
PFA* (PN)	<b>16</b>	12,5	10
PFA* (PN)	<b>12,5</b>	10	8
PFA* (PN)	<b>10</b>	8	6
PFA* (PN)	<b>6</b>	4,5	N.A.

\* In accordance with EN805

### Sanitary

Fittings suitable for drinking water. The materials comply with all major legislations and recommendations for food and potable water contact.

## Components and detailed notes



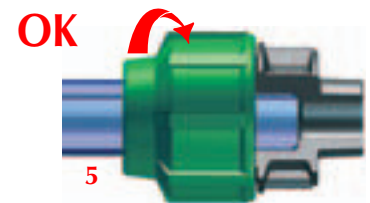
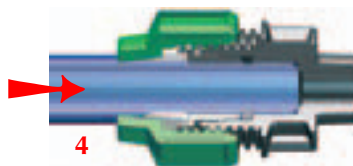
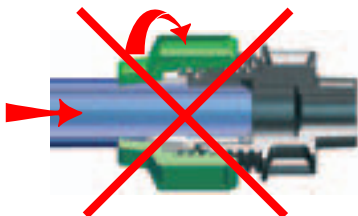
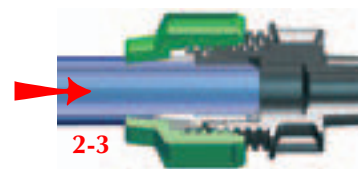
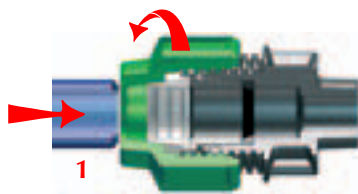
A complete range of compression fittings allows assembly on all types of polyethylene pipes (PE HD, PE LD, PE 80, PE 100) **with no need to disassemble the fitting**. After loosening the nut the pipe can be inserted directly to the pipe-stop (Push-fit type).

- 1) The body, in black polypropylene, is designed and manufactured as a unique modular construction with axial reinforcements. The production batch number is on every body thus ensuring easy traceability.
- 2) The thrust ring, in polypropylene, applies pressure on the lip gasket after the nut has been tightened thus allowing an ideal compression of the gasket on the pipe.
- 3) The floating split ring, in polyacetal, allows perfect resistance to possible pullout forces without having a negative impact on the tightness of the fitting.
- 4) The nut in green polypropylene offers an outstanding resistance to impact. The nut in green polypropylene is perfectly resistant to UV rays, too.
- 5) The only fitting with “**pre-lubricated double lip-gasket**” in NBR patented by Georg Fischer allowing to overcome: **oval- scratched-undersized pipes**. The double lip gasket assures in course of compression a perfect adherence to the pipe as it covers widely its surface and consequently a constant seal over the full life-time of the fitting. The double lip gasket grants high resistance in case of vacuum and/or suction, too.

# POLYFAST AZ Compression Fittings Assembly Instructions

Before proceeding with the assembly, please check the presence of all components (seal, thrust ring, split ring).

1. Cut the pipe square and deburr it. Grease the seal, in case it is dry. Partially unscrew the nut.
2. Mark the insert depth on the pipe (see table: insert depth).
3. Push the pipe into the fitting through the split ring until the first stop, meaning you have reached the seal.
- 4: Push the pipe through the seal until you reach the pipe stop of the fitting. Check the mark of the insert depth on the pipe for correct assembly.
5. Tighten the nut as tightly as possible. Manual or mechanical tightening of the nut using a standard wrench until diameter d 32. Mechanical tightening of the nut using a standard wrench from diameter d 40.



## INSERT DEPTH

∅	mm
16	45
20	45
25	50
32	55
40	60
50	65
63	85
75	110
90	120
110	140

# POLYFAST AZ COMPRESSION FITTINGS

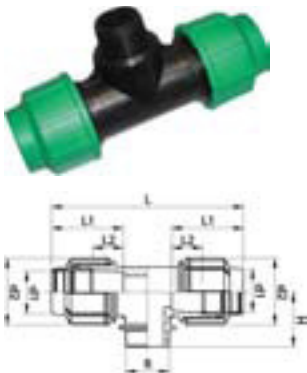
## 90° Elbow with threaded female offtake

- With stainless steel reinforcement ring (\*)



d	Rp	PN	Code	d1	d2	L	L1	L2	H
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	1/2	10	700 627 916	22	46	71	58	18	50
16	3/4	10	700 627 917	22	46	71	58	18	50
20	1/2	10	700 627 658	22	46	71	58	18	50
20	3/4	10	700 627 918	22	46	71	58	18	50
25	1/2	10	700 627 919	28	54	75	60	17	35
25	3/4	10	700 627 659	28	54	75	60	17	35
25	1	10	700 627 920	28	54	75	60	17	45
32	1/2	10	700 627 581	34	64	85	68	18	40
32	3/4	10	700 627 582	34	64	85	68	18	40
32	1	10	700 627 660	34	64	85	68	18	40
*40	1 1/4	10	700 627 661	42	77	105	78	30	54
*50	1 1/2	10	700 627 662	52	88	105	76	27	55
*50	2	10	158 001 019	53	93	130	96	28	75
*63	2	10	700 627 663	66	106	130	95	29	70
*75	2 1/2	10	700 627 921	78	134	178	129	48	75
*90	3	10	700 627 922	93	156	227	155	62	100
*110	4	10	700 627 923	114	177	247	159	57	116

## 90° Tee with threaded male offtake



d	R	PN	Code	d1	d2	L	L1	L2	H
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	1/2	10	700 627 924	22	44	134	53	28	50
16	3/4	10	700 627 925	22	44	134	53	28	50
20	1/2	10	700 627 926	22	44	137	54	26	50
20	3/4	10	700 627 927	22	46	143	58	18	50
25	1/2	10	700 627 976	28	54	150	62	18	48
25	3/4	10	700 627 928	28	54	150	62	18	48
25	1	10	700 627 929	28	54	150	62	18	50
32	3/4	10	700 627 930	34	64	170	68	19	50
32	1	10	700 627 931	34	64	170	68	19	51
40	1 1/4	10	700 627 932	34	64	170	68	19	53
50	1 1/2	10	700 627 933	52	88	210	76	27	76
63	2	10	700 627 934	66	106	262	95	29	82

## 90° Elbow with threaded male offtake



d	R	PN	Code	d1	d2	L	L1	L2	H
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	1/2	10	700 627 935	22	46	71	58	18	50
16	3/4	10	700 627 960	22	46	71	58	19	50
20	1/2	10	700 627 936	22	44	69	54	26	50
20	3/4	10	700 627 961	22	46	71	58	18	50
25	1/2	10	700 627 937	28	54	75	60	17	50
25	3/4	10	700 627 938	28	54	75	60	17	50
25	1	10	700 627 939	28	54	75	60	17	50
32	1	10	700 627 853	34	64	85	68	18	50
40	1 1/4	10	700 627 940	42	77	105	77	30	76
50	1 1/2	10	700 627 941	52	88	110	76	26	77
63	2	10	700 627 942	66	106	130	95	29	82



## End cap

d [mm]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]
16	10	<b>700 627 943</b>	22	44	59	26	56
20	10	<b>700 627 664</b>	22	44	59	26	56
25	10	<b>700 627 665</b>	28	52	63	32	59
32	10	<b>700 627 666</b>	34	60	66	27	63
40	10	<b>700 627 667</b>	52	88	87	30	81
50	10	<b>700 627 668</b>	42	77	84	31	79
63	10	<b>700 627 669</b>	66	106	108	43	103
75	10	<b>700 627 944</b>	78	134	178	55	136
90	10	<b>700 627 945</b>	93	156	208	68	162
110	10	<b>700 627 946</b>	114	177	224	71	175



## Male adaptor

d [mm]	R [inch]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]
16	½	10	<b>700 627 854</b>	22	44	73	27	52
16	¾	10	<b>700 627 855</b>	22	44	71	31	57
20	½	10	<b>700 627 670</b>	22	44	76	24	55
20	¾	10	<b>700 627 671</b>	22	44	75	25	55
25	½	10	<b>700 627 856</b>	28	52	81	32	61
25	¾	10	<b>700 627 672</b>	28	52	80	29	60
25	1	10	<b>700 627 673</b>	28	52	80	32	60
32	¾	10	<b>700 627 857</b>	34	60	83	26	63
32	1	10	<b>700 627 674</b>	34	60	83	26	63
32	1 ¼	10	<b>700 627 675</b>	34	60	81	25	60
40	1	10	<b>700 627 955</b>	42	77	104	30	78
40	1 ¼	10	<b>700 627 676</b>	42	77	105	30	78
40	1 ½	10	<b>700 627 858</b>	42	77	105	30	78
50	1 ½	10	<b>700 627 677</b>	52	88	109	32	82
50	2	10	<b>700 627 859</b>	52	88	109	32	82
63	1 ½	10	<b>700 627 860</b>	66	106	128	43	103
63	2	10	<b>700 627 678</b>	66	106	133	43	103
63	2 ½	10	<b>700 627 861</b>	65	117	160	41	119
75	2	10	<b>700 627 862</b>	78	134	173	56	136
75	2 ½	10	<b>700 627 863</b>	78	134	174	56	136
75	3	10	<b>700 627 956</b>	78	134	178	56	136
90	2	10	<b>700 627 864</b>	93	160	205	68	168
90	2 ½	10	<b>158 001 020</b>	93	156	203	68	161
90	3	10	<b>700 627 865</b>	93	156	203	68	161
90	4	10	<b>700 627 866</b>	93	156	203	68	161
110	4	10	<b>700 627 867</b>	114	177	226	71	175



## Flanged joint without metal flange

d [mm]	Inch	DN [mm]	PN	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]
50	2	50	10	<b>700 627 947</b>	54	93	174	125	170	36	100
63	2	50	10	<b>700 627 948</b>	65	117	174	125	193	48	126
63	2 ½	65	10	<b>700 627 949</b>	65	117	185	145	195	48	127
75	2 ½	65	10	<b>700 627 950</b>	78	134	185	145	197	104	185
75	3	80	10	<b>700 627 951</b>	78	134	200	160	197	82	162
90	3	80	10	<b>700 627 952</b>	93	160	200	160	232	65	166
90	4	100	10	<b>700 627 953</b>	93	160	220	181	232	65	166
110	4	100	10	<b>700 627 954</b>	113	181	220	181	239	107	220



## Female adaptor

- With stainless steel reinforcement ring (\*)

d [mm]	Rp [inch]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]
16	½	10	<b>700 627 868</b>	22	44	77	25	54
16	¾	10	<b>700 627 957</b>	22	44	77	25	54
20	½	10	<b>700 627 679</b>	22	44	77	25	54
20	¾	10	<b>700 627 869</b>	22	44	77	25	54
25	½	10	<b>700 627 870</b>	28	54	87	21	63
25	¾	10	<b>700 627 680</b>	28	54	87	21	63
25	1	10	<b>700 627 871</b>	28	54	87	21	63
32	¾	10	<b>700 627 872</b>	34	64	94	21	67
32	1	10	<b>700 627 681</b>	34	64	94	21	67
*32	1 ¼	10	<b>700 627 682</b>	34	64	92	18	64
40	1	10	<b>700 627 873</b>	42	77	105	30	78
*40	1 ¼	10	<b>700 627 683</b>	42	77	105	30	78
*50	1 ¼	10	<b>700 627 874</b>	52	86	111	32	82
*50	1 ½	10	<b>700 627 684</b>	52	86	111	32	82
*63	1 ½	10	<b>700 627 875</b>	66	106	127	34	94
*63	2	10	<b>700 627 685</b>	66	106	127	34	94
*75	2	10	<b>700 627 876</b>	78	134	169	55	136
*75	2 ½	10	<b>700 627 958</b>	78	134	174	55	135
*90	2	10	<b>700 627 877</b>	93	156	202	68	160
*90	2 ½	10	<b>158 001 021</b>	93	156	202	68	160
*90	3	10	<b>700 627 878</b>	93	156	202	68	160
*110	3	10	<b>700 627 879</b>	114	177	222	71	175
*110	4	10	<b>700 627 880</b>	114	177	222	71	175



## Coupling

d [mm]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]
16	10	<b>700 627 881</b>	22	44	117	57	32
20	10	<b>700 627 686</b>	22	44	122	60	32
25	10	<b>700 627 687</b>	28	54	119	58	16
32	10	<b>700 627 688</b>	34	64	134	66	17
40	10	<b>700 627 689</b>	42	77	178	88	40
50	10	<b>700 627 690</b>	52	88	195	96	46
63	10	<b>700 627 691</b>	66	106	214	105	45
75	10	<b>700 627 882</b>	78	134	290	143	53
90	10	<b>700 627 883</b>	93	156	290	140	42
110	10	<b>700 627 884</b>	114	177	320	150	48





## Reducing coupling

d-d [mm]	PN	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]
20 - 16	10	<b>700 627 885</b>	22	44	22	44	118	60	33	56	31
25 - 20	10	<b>700 627 710</b>	28	52	22	44	121	59	30	61	33
32 - 25	10	<b>700 627 711</b>	34	60	28	52	124	61	25	61	32
40 - 32	10	<b>700 627 712</b>	42	77	34	60	164	110	62	61	25
50 - 40	10	<b>700 627 713</b>	52	88	42	77	194	125	76	110	62
63 - 50	10	<b>700 627 714</b>	66	106	52	86	205	135	75	70	21
75 - 63	10	<b>700 627 886</b>	78	134	65	117	249	129	48	116	37
90 - 63	10	<b>700 627 959</b>	93	156	65	117	355	188	87	160	82
90 - 75	10	<b>700 627 887</b>	93	156	78	134	366	188	87	175	94
110 - 90	10	<b>700 627 888</b>	114	177	93	156	411	211	93	195	87



## 90° Tee

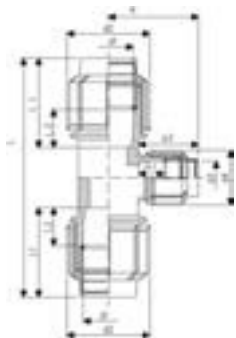
d [mm]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]
16	10	<b>700 627 889</b>	22	44	134	53	28	68
20	10	<b>700 627 692</b>	22	44	137	54	26	69
25	10	<b>700 627 693</b>	28	54	150	62	18	75
32	10	<b>700 627 694</b>	34	64	170	68	19	85
40	10	<b>700 627 695</b>	42	77	210	78	30	105
50	10	<b>700 627 696</b>	52	88	210	75	27	105
63	10	<b>700 627 697</b>	66	106	262	95	29	130
75	6	<b>700 627 890</b>	78	134	360	129	48	180
90	6	<b>700 627 891</b>	93	156	455	175	83	227
110	6	<b>700 627 892</b>	114	177	490	182	79	224



## 90° Tee with threaded female offtake

- With stainless steel reinforcement ring (\*)

d [mm]	Rp [inch]	PN	Code	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]
16	½	10	<b>700 627 893</b>	22	44	134	53	28	48
16	¾	10	<b>700 627 894</b>	22	44	134	53	28	53
20	½	10	<b>700 627 698</b>	22	44	137	54	26	48
20	¾	10	<b>700 627 895</b>	22	44	137	54	26	53
25	½	10	<b>700 627 896</b>	28	54	150	62	18	32
25	¾	10	<b>700 627 699</b>	28	54	150	62	18	32
25	1	10	<b>700 627 897</b>	28	54	150	62	18	40
32	½	10	<b>700 627 898</b>	34	64	170	68	19	40
32	¾	10	<b>700 627 899</b>	34	64	170	68	19	40
32	1	10	<b>700 627 700</b>	34	64	170	68	19	40
40	1	10	<b>158 001 022</b>	44	82	238	87	27	53
*40	1 ¼	10	<b>700 627 701</b>	42	77	210	78	30	54
*50	1 ½	10	<b>700 627 702</b>	52	88	210	76	27	55
*63	1 ½	10	<b>700 627 901</b>	65	117	317	113	35	70
*63	2	10	<b>700 627 703</b>	66	106	262	95	29	70
*75	2 ½	10	<b>700 627 902</b>	78	134	360	129	48	75
*90	3	10	<b>700 627 903</b>	93	156	455	175	83	101
*110	4	10	<b>700 627 904</b>	114	177	490	182	79	115



## 90° Reducing-increasing Tee

<b>d-d-d</b> [mm]	<b>PN</b>	<b>Code</b>	<b>d1</b> [mm]	<b>d2</b> [mm]	<b>d3</b> [mm]	<b>d4</b> [mm]	<b>L</b> [mm]	<b>L1</b> [mm]	<b>L2</b> [mm]	<b>L3</b> [mm]	<b>L4</b> [mm]
20 - 16 - 20	10	<b>700 627 905</b>	22	46	22	46	143	58	18	57	18
20 - 25 - 20	10	<b>700 627 906</b>	22	46	28	54	144	58	18	59	17
25 - 20 - 25	10	<b>700 627 907</b>	28	54	22	46	153	58	17	58	18
25 - 32 - 25	10	<b>700 627 908</b>	28	54	35	64	155	59	17	65	19
32 - 25 - 32	10	<b>700 627 909</b>	35	64	28	54	173	64	19	63	21
40 - 32 - 40	10	<b>700 627 850</b>	44	82	35	64	238	87	27	66	21
50 - 40 - 50	10	<b>700 627 910</b>	53	93	44	82	259	96	28	94	38
63 - 50 - 63	10	<b>700 627 911</b>	65	117	53	93	317	113	35	90	28
75 - 63 - 75	10	<b>700 627 977</b>	78	134	65	117	360	129	48	113	35



## 90° Elbow

<b>d</b> [mm]	<b>PN</b>	<b>Code</b>	<b>d1</b> [mm]	<b>d2</b> [mm]	<b>L</b> [mm]	<b>L1</b> [mm]	<b>L2</b> [mm]
16	10	<b>700 627 912</b>	22	46	71	58	18
20	10	<b>700 627 704</b>	22	44	69	54	26
25	10	<b>700 627 705</b>	28	54	75	60	17
32	10	<b>700 627 706</b>	34	64	85	68	18
40	10	<b>700 627 707</b>	42	77	105	78	30
50	10	<b>700 627 708</b>	52	88	105	76	27
63	10	<b>700 627 709</b>	66	106	130	95	29
75	10	<b>700 627 913</b>	78	134	178	129	48
90	10	<b>700 627 914</b>	93	156	227	155	63
110	10	<b>700 627 915</b>	114	177	247	159	57

# POLYFAST AZ Clamp Saddles without reinforcing ring

## Technical information

### Materials

#### Body:

polypropylene copolymer stabilized (PP-B) with Master Batches UV stabilized (Grade 8, ASTM D2565, 1-8)

#### Gasket:

Food safe rubber (NBR); 70 sh

#### Bolts and nuts:

galvanized

### Standards

#### For PE pipe:

ISO 11922-1; DIN 8074; AS/NZS 4130; EN 12201-1/2; BS 6572; ISO 4427; BS 6730; UNI 7990;

#### For PVC pipe:

UNI EN 1452-1/2

#### Threads:

ISO 7-1; DIN EN 10226-1; BS 21; AS 1722.13

#### Test Standards:

ISO 13460; AS/NZS 4129

#### Nominal Pressure PFA (PN):

See single article tables

**Working temperature range (C°): -10° +45°**

### Relations between working pressure and temperature

TEMPERATURE (C°)	- 10° / + 25°	+ 26° / + 35°	+ 36° / + 45°
PFA* (PN)	<b>16</b>	12,5	10
PFA* (PN)	<b>12,5</b>	10	8
PFA* (PN)	<b>10</b>	8	6
PFA* (PN)	<b>6</b>	4,5	N.A.

\* In accordance with EN805

### Sanitary

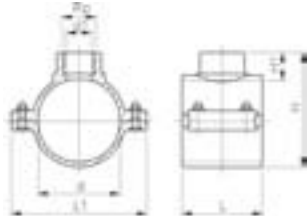
Clamp saddles suitable for drinking water. The materials comply with all major legislations and recommendations for food and potable water contact.

#### List of abbreviations

<b>BS</b>	British Standard	<b>DN</b>	Nominal diameter
<b>DIN</b>	Deutsche Industrie-Norm	<b>PFA (PN)</b>	Working pressure allowable
<b>ISO</b>	International Standardization Organisation	<b>kg</b>	weight in kilogramm
<b>PP</b>	Polypropylene	<b>SP</b>	standard package (bag)
<b>PE</b>	Polyethylene	<b>GP</b>	Gross Pack (cm. 59x25x41)
<b>NBR</b>	Nitrile butadiene rubber	<b>R</b>	Conical Male thread
<b>d</b>	Pipe outside diameter	<b>Rp</b>	Parallel female thread

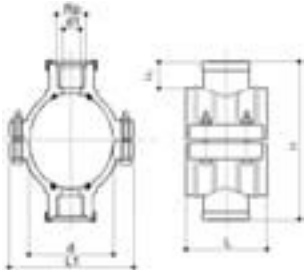
# POLYFAST AZ CLAMP SADDLES

## 150 - Black clamp saddles with O-ring gasket and galvanized bolts and nuts (PN12,5)



- B = No. of bolts
- M = bolt type

d	Rp	PN	B	M	Code	d1	L	L1	H	H1
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]	[mm]
20	½	12,5	2	M8X30	<b>158 001 590</b>	12	46	77	59	26
25	½	12,5	2	M8X30	<b>158 001 591</b>	13	49	79	58	15
25	¾	12,5	2	M8X30	<b>158 001 592</b>	13	49	79	58	15
32	½	12,5	2	M8X30	<b>158 001 593</b>	14	49	79	62	20
32	¾	12,5	2	M8X30	<b>158 001 594</b>	14	49	79	62	20
32	1	12,5	2	M8X30	<b>158 001 595</b>	14	62	87	70	20
40	½	12,5	2	M8X40	<b>158 001 596</b>	21	62	86	71	20
40	¾	12,5	2	M8X40	<b>158 001 597</b>	21	62	86	71	20
40	1	12,5	2	M8X40	<b>158 001 598</b>	21	62	86	70	19
50	½	12,5	2	M8X40	<b>158 001 599</b>	21	62	86	82	20
50	¾	12,5	2	M8X40	<b>158 001 600</b>	21	62	86	82	20
50	1	12,5	2	M8X40	<b>158 001 601</b>	21	62	86	82	20
50	1 ¼	12,5	2	M8X40	<b>158 001 602</b>	21	62	86	82	20
63	½	12,5	4	M8X40	<b>158 001 605</b>	18	62	101	96	21
63	¾	12,5	4	M8X40	<b>158 001 606</b>	24	62	101	96	21
63	1	12,5	4	M8X40	<b>158 001 607</b>	31	62	101	96	21
63	1 ¼	12,5	4	M8X40	<b>158 001 609</b>	31	62	101	96	21
63	1 ½	12,5	4	M8X40	<b>158 001 608</b>	31	62	101	96	21
75	½	12,5	4	M8X70	<b>158 001 610</b>	16	79	123	102	14
75	¾	12,5	4	M8X70	<b>158 001 611</b>	21	79	123	104	16
75	1	12,5	4	M8X70	<b>158 001 612</b>	27	79	123	107	19
75	1 ¼	12,5	4	M8X70	<b>158 001 614</b>	35	79	123	109	21
75	1 ½	12,5	4	M8X70	<b>158 001 613</b>	42	79	123	109	21
75	2	12,5	4	M8X70	<b>158 001 615</b>	53	79	123	112	24
90	½	12,5	4	M8X70	<b>158 001 616</b>	16	87	138	116	14
90	¾	12,5	4	M8X70	<b>158 001 617</b>	21	87	138	118	16
90	1	12,5	4	M8X70	<b>158 001 618</b>	27	87	138	121	19
90	1 ¼	12,5	4	M8X70	<b>158 001 620</b>	35	87	138	123	21
90	1 ½	12,5	4	M8X70	<b>158 001 619</b>	42	87	138	123	21
90	2	12,5	4	M8X70	<b>158 001 621</b>	53	87	138	126	24
110	½	12,5	4	M8X50	<b>158 001 622</b>	15	99	152	150	23
110	¾	12,5	4	M8X50	<b>158 001 623</b>	20	99	152	150	23
110	1	12,5	4	M8X50	<b>158 001 624</b>	26	99	152	150	23
110	1 ¼	12,5	4	M8X50	<b>158 001 626</b>	35	99	152	150	23
110	1 ½	12,5	4	M8X50	<b>158 001 625</b>	41	99	152	150	23
110	2	12,5	4	M8X50	<b>158 001 627</b>	51	99	152	150	23
125	½	12,5	4	M8X50	<b>158 001 628</b>	15	101	166	169	24
125	¾	12,5	4	M8X50	<b>158 001 629</b>	20	101	166	169	24
125	1	12,5	4	M8X50	<b>158 001 630</b>	26	101	166	169	24
125	1 ¼	12,5	4	M8X50	<b>158 001 632</b>	35	101	166	168	23
125	1 ½	12,5	4	M8X50	<b>158 001 631</b>	41	101	166	168	23
125	2	12,5	4	M8X50	<b>158 001 671</b>	50	101	166	168	23
140	½	12,5	4	M8X70	<b>158 001 257</b>	18	114	207	191	25
140	¾	12,5	4	M8X70	<b>158 001 258</b>	24	114	207	190	24
140	1	12,5	4	M8X70	<b>158 001 259</b>	30	114	207	190	24
140	1 ½	12,5	4	M8X70	<b>158 001 260</b>	45	114	207	189	23
140	1 ¼	12,5	4	M8X70	<b>158 001 261</b>	38	114	207	190	24
140	2	12,5	4	M8X70	<b>158 001 262</b>	50	114	207	190	24
160	½	12,5	4	M8X70	<b>158 001 263</b>	18	114	226	215	24
160	¾	12,5	4	M8X70	<b>158 001 264</b>	24	114	226	215	24
160	1	12,5	4	M8X70	<b>158 001 265</b>	30	114	226	215	24
160	1 ½	12,5	4	M8X70	<b>158 001 266</b>	45	114	226	215	24
160	1 ¼	12,5	4	M8X70	<b>158 001 267</b>	37	114	226	215	24
160	2	12,5	4	M8X70	<b>158 001 268</b>	50	114	226	215	24



## 160 - Double black clamp saddles with O-ring gasket and galvanized bolts and nuts (PN12,5)

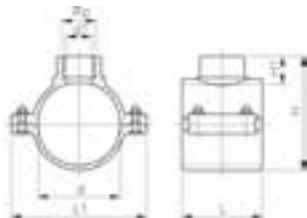
- B = No. of bolts
- M = bolt type

d	Rp	PN	B	M	Code	d1	L	L1	H	H1
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]	[mm]
25	½	12.5	2	M8X30	<b>158 001 633</b>	13	49	79	80	15
25	¾	12.5	2	M8X30	<b>158 001 634</b>	13	49	79	80	15
32	½	12.5	2	M8X30	<b>158 001 635</b>	14	49	79	80	20
32	¾	12.5	2	M8X30	<b>158 001 636</b>	14	49	79	80	20
32	1	12.5	2	M8X40	<b>158 001 269</b>	14	62	87	87	20
40	½	12.5	2	M8X50	<b>158 001 637</b>	21	62	86	91	20
40	¾	12.5	2	M8X50	<b>158 001 638</b>	21	62	86	91	20
40	1	12.5	2	M8X50	<b>158 001 712</b>	42	87	138	145	21
50	½	12.5	4	M8X50	<b>158 001 639</b>	21	62	86	101	20
50	¾	12.5	2	M8X50	<b>158 001 640</b>	21	62	86	101	20
50	1	12.5	2	M8X50	<b>158 001 641</b>	21	62	86	101	20
63	½	12.5	4	M8X50	<b>158 001 642</b>	18	62	101	115	21
63	¾	12.5	4	M8X50	<b>158 001 643</b>	24	62	101	115	21
63	1	12.5	4	M8X50	<b>158 001 644</b>	31	62	101	115	21
63	1 ¼	12.5	4	M8X50	<b>158 001 646</b>	31	62	101	115	21
63	1 ½	12.5	4	M8X50	<b>158 001 645</b>	31	62	101	115	21
75	½	12.5	4	M8X70	<b>158 001 647</b>	16	79	123	115	14
75	¾	12.5	4	M8X70	<b>158 001 648</b>	21	79	123	119	16
75	1	12.5	4	M8X70	<b>158 001 649</b>	27	79	123	125	19
75	1 ¼	12.5	4	M8X70	<b>158 001 651</b>	42	79	123	129	21
75	1 ½	12.5	4	M8X70	<b>158 001 650</b>	35	79	123	129	21
75	2	12.5	4	M8X70	<b>158 001 652</b>	53	79	123	135	24
90	½	12.5	4	M8X70	<b>158 001 653</b>	16	87	138	129	14
90	¾	12.5	4	M8X70	<b>158 001 654</b>	21	87	138	133	16
90	1	12.5	4	M8X70	<b>158 001 655</b>	27	87	138	139	19
90	1 ¼	12.5	4	M8X70	<b>158 001 657</b>	35	87	138	145	21
90	1 ½	12.5	4	M8X70	<b>158 001 656</b>	42	87	138	145	21
90	2	12.5	4	M8X70	<b>158 001 658</b>	53	87	138	151	24
110	½	12.5	4	M8X70	<b>158 001 659</b>	15	99	152	169	23
110	¾	12.5	4	M8X70	<b>158 001 660</b>	20	99	152	169	23
110	1	12.5	4	M8X70	<b>158 001 661</b>	26	99	152	169	23
110	1 ¼	12.5	4	M8X70	<b>158 001 663</b>	35	99	152	169	23
110	1 ½	12.5	4	M8X70	<b>158 001 662</b>	41	99	152	169	23
110	2	12.5	4	M8X70	<b>158 001 664</b>	51	99	152	169	23
125	½	12.5	4	M8X70	<b>158 001 665</b>	15	101	166	189	24
125	¾	12.5	4	M8X70	<b>158 001 666</b>	20	101	166	189	24
125	1	12.5	4	M8X70	<b>158 001 667</b>	26	101	166	189	24
125	1 ¼	12.5	4	M8X70	<b>158 001 669</b>	35	101	166	188	23
125	1 ½	12.5	4	M8X70	<b>158 001 668</b>	41	101	166	188	23
125	2	12.5	4	M8X70	<b>158 001 670</b>	50	101	166	188	23



## 550 - Black clamp saddles with O-ring gasket and galvanized bolts and nuts (PN10)

- Note: sale in full box (GP) only
- B = No. of bolts
- M = bolt type

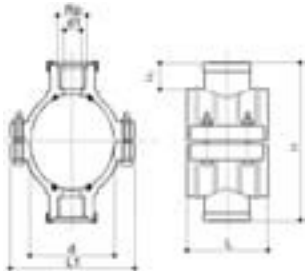


d	Rp	PN	B	M	Code	d1	L	L1	H	H1
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]	[mm]
25	1/2	10	2	M6X35	<b>158 001 270</b>	13	36	75	50	17
25	3/4	10	2	M6X35	<b>158 001 271</b>	13	36	75	52	19
32	1/2	10	2	M6X35	<b>158 001 272</b>	13	45	80	60	17
32	3/4	10	2	M6X35	<b>158 001 273</b>	13	45	80	62	19
40	1/2	10	2	M6X35	<b>158 001 274</b>	15	45	80	68	17
40	3/4	10	2	M6X35	<b>158 001 275</b>	20	45	80	70	19
40	1	10	2	M6X35	<b>158 001 276</b>	20	45	80	70	19
50	1/2	10	2	M6X35	<b>158 001 277</b>	15	46	80	78	17
50	3/4	10	2	M6X35	<b>158 001 278</b>	22	46	80	80	19
50	1	10	2	M6X35	<b>158 001 279</b>	28	46	80	80	19
63	1/2	10	4	M8X60	<b>158 001 280</b>	15	60	100	90	17
63	3/4	10	4	M8X60	<b>158 001 281</b>	22	60	100	92	19
63	1	10	4	M8X60	<b>158 001 282</b>	28	60	100	92	19
75	1/2	10	4	M8X60	<b>158 001 283</b>	15	80	110	110	17
75	3/4	10	4	M8X60	<b>158 001 284</b>	22	80	110	112	19
75	1	10	4	M8X60	<b>158 001 285</b>	28	80	110	112	19
75	1 1/4	10	4	M8X60	<b>158 001 287</b>	35	80	110	116	23
75	1 1/2	10	4	M8X60	<b>158 001 286</b>	41	80	110	116	23
90	1/2	10	4	M8X70	<b>158 001 288</b>	15	80	125	123	17
90	3/4	10	4	M8X70	<b>158 001 289</b>	22	80	125	125	19
90	1	10	4	M8X70	<b>158 001 290</b>	28	80	125	125	19
90	1 1/4	10	4	M8X70	<b>158 001 292</b>	35	80	125	129	23
90	1 1/2	10	4	M8X70	<b>158 001 291</b>	41	80	125	129	23
110	1/2	10	4	M8X70	<b>158 001 293</b>	15	82	147	141	17
110	3/4	10	4	M8X70	<b>158 001 294</b>	22	82	147	143	19
110	1	10	4	M8X70	<b>158 001 295</b>	28	82	147	143	19
110	1 1/4	10	4	M8X70	<b>158 001 297</b>	35	82	147	147	23
110	1 1/2	10	4	M8X70	<b>158 001 296</b>	41	82	147	147	23
110	2	10	4	M8X70	<b>158 001 298</b>	41	82	147	148	24



## 560 - Double black clamp saddles with O-ring gasket and galvanized bolts and nuts (PN10)

- Note: sale in full box (GP) only
- B = No. of bolts
- M = bolt type



d [mm]	Rp [inch]	PN	B	M	Code	d1 [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]
25	1/2	10	2	M6X35	<b>158 001 299</b>	13	36	75	67	17
25	3/4	10	2	M6X35	<b>158 001 300</b>	13	36	75	71	19
32	1/2	10	2	M6X35	<b>158 001 301</b>	13	45	80	7	17
32	3/4	10	2	M6X35	<b>158 001 302</b>	13	45	80	81	19
40	1/2	10	2	M6X35	<b>158 001 303</b>	15	45	80	85	17
40	3/4	10	2	M6X35	<b>158 001 304</b>	20	45	80	89	19
40	1	10	2	M6X35	<b>158 001 305</b>	20	45	80	89	19
50	1/2	10	2	M6X35	<b>158 001 306</b>	15	46	80	95	17
50	3/4	10	2	M6X35	<b>158 001 307</b>	22	46	80	99	19
50	1	10	2	M6X35	<b>158 001 308</b>	28	46	80	99	19
63	1/2	10	4	M6X60	<b>158 001 309</b>	15	60	100	107	17
63	3/4	10	4	M6X60	<b>158 001 310</b>	22	60	100	111	19
63	1	10	4	M6X60	<b>158 001 311</b>	28	60	100	111	19
75	1/2	10	4	M6X60	<b>158 001 312</b>	15	80	110	127	17
75	3/4	10	4	M6X60	<b>158 001 313</b>	22	80	110	131	19
75	1	10	4	M6X60	<b>158 001 314</b>	28	80	110	131	19
75	1 1/4	10	4	M6X60	<b>158 001 315</b>	35	80	110	139	23
75	1 1/2	10	4	M6X60	<b>158 001 316</b>	41	80	110	139	23
90	1/2	10	4	M8X70	<b>158 001 317</b>	15	80	125	140	17
90	3/4	10	4	M8X70	<b>158 001 318</b>	22	80	125	144	19
90	1	10	4	M8X70	<b>158 001 319</b>	28	80	125	144	19
90	1 1/4	10	4	M8X70	<b>158 001 320</b>	35	80	125	152	23
90	1 1/2	10	4	M8X70	<b>158 001 321</b>	41	80	125	152	23
110	1/2	10	4	M8X70	<b>158 001 322</b>	15	82	147	158	17
110	3/4	10	4	M8X70	<b>158 001 323</b>	22	82	147	162	19
110	1	10	4	M8X70	<b>158 301 324</b>	28	82	147	162	19
110	1 1/4	10	4	M8X70	<b>158 001 325</b>	35	82	147	170	23
110	1 1/2	10	4	M8X70	<b>158 001 326</b>	41	82	147	170	23
110	2	10	4	M8X70	<b>158 001 327</b>	41	82	147	172	24













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