

## METRIC SERIES

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**FEATURES**

- PVC-U fittings for the PVC pipe union.
- Material: PVC-U.
- Injection moulding.
- Density: 1,4 g/cm<sup>3</sup>.
- Color: grey RAL 7024.
- Dimensions: socket fittings D16 to D400 and threaded fittings from ¼" to 4".
- Dimensions:
  - Socket fittings according to EN 1452-3.
  - Threaded fittings according to ISO 7/1.
- For tubes according to EN 1452-2.
- Socket fittings: we recommend solvent cement for PVC-U.
- Threaded fittings: in order to guarantee the watertightness, PTFE thread-wrap tape must be used. In PVC-U metal unions, use PVC-U as the male.

**CARACTERÍSTICAS**

- Accesorios en PVC-U para unión de tuberías de PVC.
- Moldeo por inyección.
- Densidad: 1,4 g/cm<sup>3</sup>.
- Color: gris RAL 7024.
- Dimensiones: accesorios encolar de D16 hasta D400 y accesorios roscar de ¼" a 4".
- Dimensiones:
  - Accesorios encolar según la norma EN 1452-3.
  - Accesorios roscados según la norma ISO 7/1.
- Para tubos según norma EN 1452-2.
- Accesorios encolar: recomendamos el uso de cola para PVC-U.
- Accesorios roscados: para garantizar la estanqueidad sólo es admisible el uso de cinta de PTFE. En uniones PVC-U-metal, el macho debe ser el PVC-U.

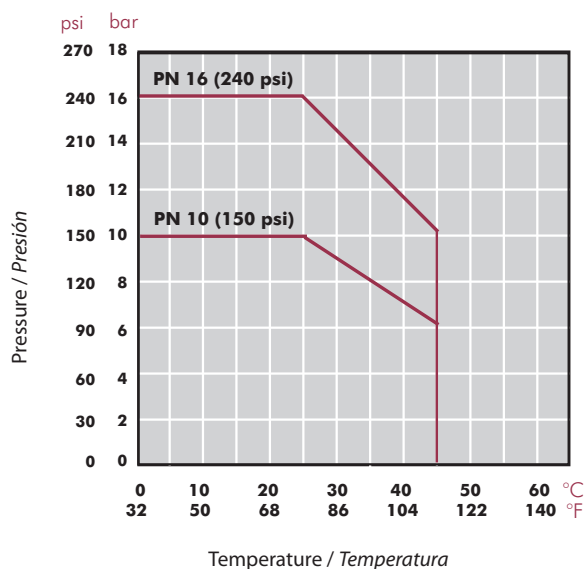


FIG.	Details	Detalles
1	Logo, material, dimensions, PN	Logo, material, dimensiones, PN
2	European standard, N (Aenor), Kiwa o NF (Afnor)	Norma europea, N (Aenor), Kiwa o NF (Afnor)
3	Marked at 45°	Marcaje a 45°

**TECHNICAL CHARACTERISTICS**  
**CARACTERÍSTICAS TÉCNICAS**

Unions Uniones	Sizes Medidas	Working pressure at 20°C Presión de servicio a 20°C
Solvent socket / Encolar	D16 - D140	PN 16 (240 psi)
Solvent socket / Encolar	D160 - D315	PN10 (150 psi)
Threaded / Roscar	½" - 4"	PN 10 (150 psi)
Threaded reinforced / Roscar reforzado	½" - 4"	PN 16 (240 psi)

**PRESSURE / TEMPERATURE GRAPH**  
**DIAGRAMA PRESIÓN / TEMPERATURA**



Life: 50 years  
Hydrostatic maximum pressure a component may withstand in continuous service (without overpressure)

Vida útil: 50 años  
Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)

**TOLERANCE CHART**  
**TABLA TOLERANCIAS**

D	DN	Minimum diameter Diámetro mínimo	Maximum diameter Diámetro máximo
16	10	16.1	16.3
20	15	20.1	20.3
25	20	25.1	25.3
32	25	32.1	32.3
40	32	40.1	40.3
50	40	50.1	50.3
63	50	63.1	63.3
75	65	75.1	75.3
90	80	90.1	90.3
110	100	110.1	110.4
125	110	125.1	125.4
140	125	140.2	140.5
160	150	160.2	160.5
200	175	200.2	200.6
225	200	225.3	225.7
250	225	250.3	250.8
315	300	315.4	316.0

## PVC-U ELBOWS CODOS PVC-U

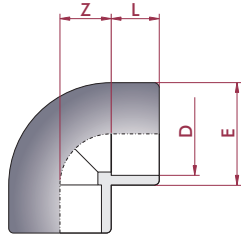
### UP. 01. SF - 90° ELBOW

#### 90° elbow

- Female solvent socket
- Metric series

#### Codo 90°

- Encolar hembra
- Serie métrica



D	DN	PN	REF.	CODE
16	10	16	05 01 016 <sup>3</sup>	<b>11655</b>
20	15	16	05 01 020 <sup>23</sup>	<b>01712</b>
25	20	16	05 01 025 <sup>123</sup>	<b>01713</b>
32	25	16	05 01 032 <sup>23</sup>	<b>01714</b>
40	32	16	05 01 040 <sup>23</sup>	<b>01715</b>
50	40	16	05 01 050 <sup>23</sup>	<b>01716</b>
63	50	16	05 01 063 <sup>23</sup>	<b>01717</b>
75	65	16	05 01 075 <sup>23</sup>	<b>01718</b>
90	80	16	05 01 090 <sup>23</sup>	<b>01719</b>
110	100	16	05 01 110 <sup>3</sup>	<b>01720</b>
125	110	16	05 01 125 <sup>3</sup>	<b>01721</b>
140	125	16	05 01 140 <sup>3</sup>	<b>01722</b>
160	150	10	05 01 160 <sup>3</sup>	<b>01723</b>
200	175	10	05 01 200 <sup>3</sup>	<b>01724</b>
225	200	10	05 01 225 <sup>3</sup>	<b>01725</b>
250	225	10	05 01 250	<b>01726</b>
315	300	10	05 01 315 <sup>*</sup>	<b>01727</b>
400	353	5	05 01 400 <sup>*</sup>	<b>34807</b>

L	Z	E
14	10	25
16	11	27
19	14	33
22	17	41
26	21	50
31	26	61
38	33	76
44	39	90
51	46	108
61	56	131
69	64	148
76	71	164
86	81	180
106	101	225
119	114	252
131	126	284
164	159	352
206	202	439

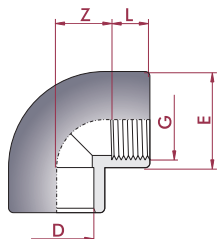
### UP. 01. SFT - 90° ELBOW

#### 90° adaptor elbow

- Female solvent socket & BSP female thread
- Metric series

#### Codo 90° mixto

- Encolar hembra y roscar hembra BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	10	05 01 420	<b>01728</b>
25 x 3/4"	20	10	05 01 425	<b>01729</b>
32 x 1"	25	10	05 01 432	<b>01730</b>
40 x 1 1/4"	32	10	05 01 440	<b>01731</b>
50 x 1 1/2"	40	10	05 01 450	<b>01732</b>
63 x 2"	50	10	05 01 463	<b>01733</b>
75 x 2 1/2"	65	10	05 01 475 <sup>*</sup>	<b>22596</b>
90 x 3"	80	10	05 01 490 <sup>*</sup>	<b>22597</b>
110 x 4"	100	10	05 01 510 <sup>*</sup>	<b>22598</b>

L	Z	E
14	11	28
16	14	34
19	17	43
20	21	54
20	26	63
24	33	78
44	40	89
51	48	106
61	58	129

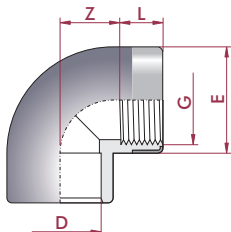
### UP. 01. SFTR - 90° REINFORCED ELBOW

#### 90° adaptor reinforced elbow

- Female solvent socket & BSP female thread
- Reinforcement in stainless steel
- Metric series

#### Codo 90° mixto reforzado

- Encolar hembra y roscar hembra BSP
- Refuerzo en acero inoxidable
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	16	05 01 820	<b>01740</b>
25 x 3/4"	20	16	05 01 825	<b>01741</b>
32 x 1"	25	16	05 01 832	<b>01742</b>
40 x 1 1/4"	32	16	05 01 840	<b>01743</b>
50 x 1 1/2"	40	16	05 01 850	<b>01744</b>
63 x 2"	50	16	05 01 863	<b>01745</b>

L	Z	E
14	11	28
16	14	34
19	17	43
20	21	54
20	26	63
24	33	78

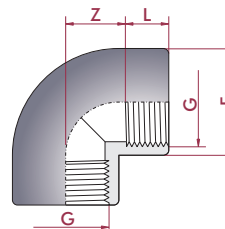
### UP. 01. FT - 90° ELBOW

#### 90° elbow

- BSP female thread

#### Codo 90°

- Roscar hembra BSP



G	DN	PN	REF.	CODE
1/2"	15	10	05 01 620	<b>01734</b>
3/4"	20	10	05 01 625	<b>01735</b>
1"	25	10	05 01 632	<b>01736</b>
1 1/4"	32	10	05 01 640	<b>01737</b>
1 1/2"	40	10	05 01 650	<b>01738</b>
2"	50	10	05 01 663	<b>01739</b>
2 1/2"	65	10	05 01 675 <sup>*</sup>	<b>22587</b>
3"	80	10	05 01 690 <sup>*</sup>	<b>22588</b>
4"	100	10	05 01 710 <sup>*</sup>	<b>22589</b>

L	Z	E
14	11	28
16	14	34
19	17	43
20	21	54
20	26	63
24	33	78
30	54	89
33	66	106
39	80	129

\* Distributed product  
\* Producto comercializado

<sup>1</sup> AFNOR  
<sup>2</sup> KIWA  
<sup>3</sup> AENOR

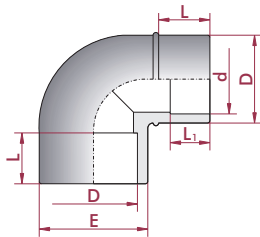
### UP. 29. SFG - 90° REDUCING ELBOW

**90° reducing elbow**

- Female solvent socket
- Metric series

**Codo 90° reducido**

- Encolar hembra
- Serie métrica



D x D - d	DN	PN	REF.	CODE
50 x 50 - 40	32	16	05 29 050	<b>02237</b>
63 x 63 - 50	40	16	05 29 063	<b>02238</b>

L	L <sub>1</sub>	E
31	26	61
38	31	76

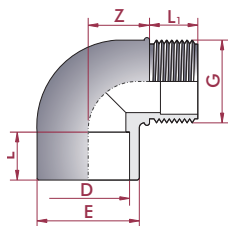
### UP. 29. SMT - 90° ELBOW

**90° elbow**

- Female solvent socket & BSP male thread
- Metric series

**Codo 90°**

- Encolar hembra y roscar macho BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
50 x 1 1/2"	40	10	05 29 450	<b>02239</b>
63 x 2"	50	10	05 29 463	<b>02240</b>

L <sub>1</sub>	L	E	Z
21	31	61	38
25	38	76	47

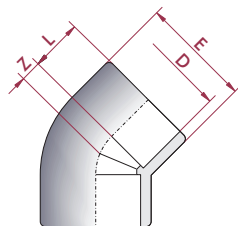
### UP. 02. SF - 45° ELBOW

**45° elbow**

- Female solvent socket
- Metric series

**Codo 45°**

- Encolar hembra
- Serie métrica



D	DN	PN	REF.	CODE
16	10	16	05 02 016 <sup>3</sup>	<b>16307</b>
20	15	16	05 02 020 <sup>123</sup>	<b>01746</b>
25	20	16	05 02 025 <sup>123</sup>	<b>01747</b>
32	25	16	05 02 032 <sup>123</sup>	<b>01748</b>
40	32	16	05 02 040 <sup>123</sup>	<b>01749</b>
50	40	16	05 02 050 <sup>23</sup>	<b>01750</b>
63	50	16	05 02 063 <sup>23</sup>	<b>01751</b>
75	65	16	05 02 075 <sup>23</sup>	<b>01752</b>
90	80	16	05 02 090 <sup>23</sup>	<b>01753</b>
110	100	16	05 02 110 <sup>3</sup>	<b>01754</b>
125	110	16	05 02 125 <sup>3</sup>	<b>01755</b>
140	125	16	05 02 140 <sup>3</sup>	<b>01756</b>
160	150	10	05 02 160 <sup>3</sup>	<b>01757</b>
200	175	10	05 02 200 <sup>3</sup>	<b>01758</b>
225	200	10	05 02 225 <sup>3</sup>	<b>01759</b>
250	225	10	05 02 250 <sup>3</sup>	<b>01760</b>
315	300	10	05 02 315 <sup>*</sup>	<b>01761</b>
400	353	5	05 02 400 <sup>*</sup>	<b>34808</b>

L	Z	E
14	5	22
16	5	28
19	6	35
22	8	43
26	10	52
31	12	58
38	14	76
44	17	93
51	20	109
61	24	133
69	27	148
76	30	164
86	34	180
106	43	225
119	48	252
131	53	284
164	67	352
206	83	439

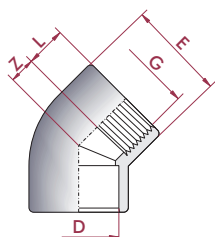
### UP. 02. SFT - 45° ELBOW

**45° adaptor elbow**

- Female solvent socket & BSP female thread
- Metric series

**Codo 45° mixto**

- Encolar hembra y roscar hembra BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	10	05 02 420	<b>01762</b>
25 x 3/4"	20	10	05 02 425	<b>01763</b>
32 x 1"	25	10	05 02 432	<b>01764</b>
40 x 1 1/4"	32	10	05 02 440	<b>01765</b>
50 x 1 1/2"	40	10	05 02 450	<b>01766</b>
63 x 2"	50	10	05 02 463	<b>01767</b>
75 x 2 1/2"	65	10	05 02 475 <sup>*</sup>	<b>22599</b>
90 x 3"	80	10	05 02 490 <sup>*</sup>	<b>22600</b>
110 x 4"	100	10	05 02 510 <sup>*</sup>	<b>22601</b>

L	Z	E
14	5	28
16	6	34
19	8	43
20	10	54
20	12	63
24	14	78
44	18	89
51	21	106
61	25	128

\* Distributed product  
\* Producto comercializado

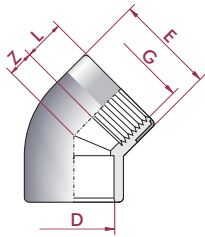
<sup>1</sup> AFNOR  
<sup>2</sup> KIWA  
<sup>3</sup> AENOR

**UP. 02. SFTR - 45° REINFORCED ELBOW**
**45° adaptor reinforced elbow**

- Female solvent socket & BSP female thread
- Reinforcement in stainless steel
- Metric series

**Codo 45° mixto reforzado**

- Encolar hembra y roscar hembra BSP
- Refuerzo en acero inoxidable
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	16	05 02 820	<b>01774</b>
25 x 3/4"	20	16	05 02 825	<b>01775</b>
32 x 1"	25	16	05 02 832	<b>01776</b>
40 x 1 1/4"	32	16	05 02 840	<b>01777</b>
50 x 1 1/2"	40	16	05 02 850	<b>01778</b>
63 x 2"	50	16	05 02 863	<b>01779</b>

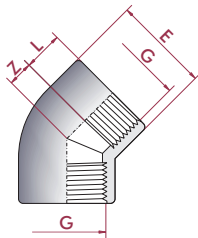
L	Z	E
14	5	28
16	6	34
19	8	43
20	10	54
20	12	63
24	14	78

**UP. 02. FT - 45° ELBOW**
**45° elbow**

- BSP female thread

**Codo 45°**

- Roscar hembra BSP



G	DN	PN	REF.	CODE
1/2"	15	10	05 02 620	<b>01768</b>
3/4"	20	10	05 02 625	<b>01769</b>
1"	25	10	05 02 632	<b>01770</b>
1 1/4"	32	10	05 02 640	<b>01771</b>
1 1/2"	40	10	05 02 650	<b>01772</b>
2"	50	10	05 02 663	<b>01773</b>
2 1/2"	65	10	05 02 675 *	<b>22590</b>
3"	80	10	05 02 690 *	<b>22591</b>
4"	100	10	05 02 710 *	<b>22592</b>

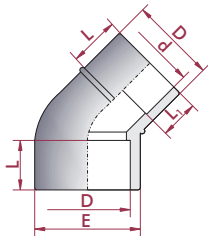
L	Z	E
14	5	28
16	6	34
19	8	43
20	10	54
20	12	63
24	14	78
30	32	89
34	39	106
40	47	129

**UP. 30. SFG - 45° REDUCING ELBOW**
**45° reducing elbow**

- Female and male solvent socket
- Metric series

**Codo 45° reducido**

- Encolar hembra y macho
- Serie métrica



D x D - d	DN	PN	REF.	CODE
50 x 50 - 40	32	16	05 30 050	<b>02241</b>
63 x 63 - 50	40	16	05 30 063	<b>02242</b>

L	L <sub>1</sub>	E
31	26	61
38	31	76

\* Distributed product

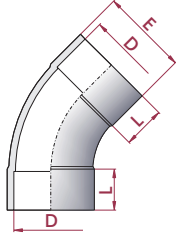
\* Producto comercializado

**PVC-U BEND**  
*CURVAS PVC-U*

**UP. 35. SF** - 45° BEND

- 45° bend**
- Female solvent socket
  - Metric series

- Curva 45°**
- Encolar hembra
  - Serie métrica



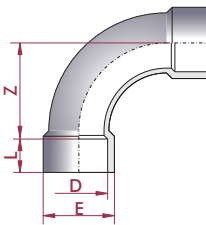
D	DN	PN	REF.	CODE
315	300	4	05 35 315 *	<b>05348</b>
400	353	4	05 35 400 *	<b>05349</b>

L	E
165	348
206	432

**UP. 08. SF** - 90° BEND

- 90° bend**
- Female solvent socket
  - Metric series

- Curva 90°**
- Encolar hembra
  - Serie métrica



D	DN	PN	REF.	CODE
20	15	16	05 08 020 <sup>3</sup>	<b>01967</b>
25	20	16	05 08 025 <sup>3</sup>	<b>01968</b>
32	25	16	05 08 032 <sup>3</sup>	<b>01969</b>
40	32	16	05 08 040 <sup>3</sup>	<b>01970</b>
50	40	16	05 08 050 <sup>3</sup>	<b>01971</b>
63	50	16	05 08 063 <sup>3</sup>	<b>01972</b>
75	65	16	05 08 075 <sup>3</sup>	<b>01973</b>
90	80	16	05 08 090 <sup>3</sup>	<b>05331</b>
110	100	16	05 08 110 *	<b>05332</b>
125	110	10	05 08 125 *	<b>05333</b>
140	125	10	05 08 140 *	<b>05334</b>
160	150	10	05 08 160 *	<b>05335</b>
200	175	4	05 08 200 *	<b>05336</b>
225	200	4	05 08 225 *	<b>05337</b>
250	225	4	05 08 250 *	<b>05338</b>
315	300	4	05 08 315 *	<b>05339</b>
400	353	4	05 08 400 *	<b>05340</b>

L	Z	E
16	40	27
19	50	33
22	64	41
26	80	50
31	100	61
38	126	76
44	150	90
51	180	113
61	220	132
69	186	150
76	166	164
86	194	186
106	284	223
119	296	251
131	334	275
165	520	348
206	614	432

\* Distributed product  
\* Producto comercializado

<sup>3</sup> AENOR

## PVC-U TEES

### TÉS PVC-U

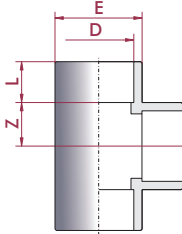
#### UP. 03. SF - 90° TEE

##### 90° tee

- Female solvent socket
- Metric series

##### Té 90°

- Encolar hembra
- Serie métrica



D	DN	PN	REF.	CODE
16	10	16	05 03 016 <sup>3</sup>	<b>16308</b>
20	15	16	05 03 020 <sup>123</sup>	<b>01780</b>
25	20	16	05 03 025 <sup>123</sup>	<b>01781</b>
32	25	16	05 03 032 <sup>123</sup>	<b>01782</b>
40	32	16	05 03 040 <sup>23</sup>	<b>01783</b>
50	40	16	05 03 050 <sup>123</sup>	<b>01784</b>
63	50	16	05 03 063 <sup>23</sup>	<b>01785</b>
75	65	16	05 03 075 <sup>23</sup>	<b>01786</b>
90	80	16	05 03 090 <sup>23</sup>	<b>01787</b>
110	100	16	05 03 110 <sup>3</sup>	<b>01788</b>
125	110	16	05 03 125 <sup>3</sup>	<b>01789</b>
140	125	16	05 03 140 <sup>3</sup>	<b>01790</b>
160	150	10	05 03 160 <sup>3</sup>	<b>01791</b>
200	175	10	05 03 200 <sup>3</sup>	<b>01792</b>
225	200	10	05 03 225 <sup>3</sup>	<b>01793</b>
250	225	10	05 03 250 <sup>3</sup>	<b>01794</b>
315	300	10	05 03 315 <sup>*</sup>	<b>01795</b>
400	325	4	05 03 400 <sup>*</sup>	<b>05328</b>

L	Z	E
14	9	22
16	11	27
19	14	33
22	17	41
26	21	50
31	26	63
38	33	78
44	39	90
51	46	108
61	56	131
69	64	148
76	71	164
86	81	186
106	101	228
119	114	255
131	126	284
164	159	356
206	280	432

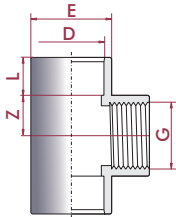
#### UP. 03. SFT - 90° TEE

##### 90° adaptor tee

- Female solvent socket & BSP female thread
- Metric series

##### Té 90° mixta

- Encolar hembra y roscar hembra BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	10	05 03 420	<b>01796</b>
25 x 3/4"	20	10	05 03 425	<b>01797</b>
32 x 1"	25	10	05 03 432	<b>01798</b>
40 x 1 1/4"	32	10	05 03 440	<b>01799</b>
50 x 1 1/2"	40	10	05 03 450	<b>01800</b>
63 x 2"	50	10	05 03 463	<b>01801</b>
75 x 2 1/2"	65	10	05 03 475 <sup>*</sup>	<b>22602</b>
90 x 3"	80	10	05 03 490 <sup>*</sup>	<b>22603</b>
110 x 4"	100	10	05 03 510 <sup>*</sup>	<b>22604</b>

L	Z	E
14	11	28
16	14	34
19	17	43
20	21	54
20	26	63
24	33	78
44	39	89
51	47	106
61	57	129

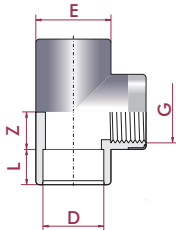
#### UP. 03. SFTR - 90° REINFORCED TEE

##### 90° adaptor reinforced tee

- Female solvent socket & BSP female thread
- Reinforcement in stainless steel
- Metric series

##### Té 90° mixta reforzada

- Encolar hembra y roscar hembra BSP
- Refuerzo en acero inoxidable
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	16	05 03 820	<b>01808</b>
25 x 3/4"	20	16	05 03 825	<b>01809</b>
32 x 1"	25	16	05 03 832	<b>01810</b>
40 x 1 1/4"	32	16	05 03 840	<b>01811</b>
50 x 1 1/2"	40	16	05 03 850	<b>01812</b>
63 x 2"	50	16	05 03 863	<b>01813</b>

L	Z	E
14	11	28
16	14	34
19	17	43
20	21	54
20	26	63
24	33	78

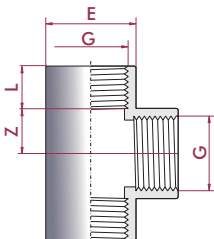
#### UP. 03. FT - 90° TEE

##### 90° tee

- BSP female thread

##### Té 90°

- Roscar hembra BSP



G	DN	PN	REF.	CODE
1/2"	15	10	05 03 620	<b>01802</b>
3/4"	20	10	05 03 625	<b>01803</b>
1"	25	10	05 03 632	<b>01804</b>
1 1/4"	32	10	05 03 640	<b>01805</b>
1 1/2"	40	10	05 03 650	<b>01806</b>
2"	50	10	05 03 663	<b>01807</b>
2 1/2"	65	10	05 03 675 <sup>*</sup>	<b>22593</b>
3"	80	10	05 03 690 <sup>*</sup>	<b>22594</b>
4"	100	10	05 03 710 <sup>*</sup>	<b>22595</b>

L	Z	E
14	11	28
16	14	34
19	17	43
20	21	54
20	26	63
24	33	78
30	53	89
34	65	106
40	79	129

\* Distributed product  
\* Producto comercializado

<sup>1</sup> AFNOR  
<sup>2</sup> KIWA  
<sup>3</sup> AENOR



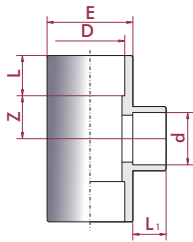
### UP. 04. SFG - 90° REDUCING TEE

**90° reducing tee**

- Female solvent socket
- Metric series

**Té 90° reducida**

- Encolar hembra
- Serie métrica



D x d	DN	PN	REF.	CODE
25 x 20	20 - 15	16	05 04 025	<b>01814</b>
32 x 25	25 - 20	16	05 04 032	<b>01815</b>
32 x 20	25 - 15	16	05 04 033	<b>01816</b>
40 x 32	32 - 25	16	05 04 040	<b>01817</b>
40 x 25	32 - 20	16	05 04 041	<b>01818</b>
40 x 20	32 - 15	16	05 04 042	<b>01819</b>
50 x 40	40 - 32	16	05 04 050	<b>01820</b>
50 x 32	40 - 25	16	05 04 051	<b>01821</b>
50 x 25	40 - 20	16	05 04 052	<b>01822</b>
50 x 20	40 - 15	16	05 04 053	<b>01823</b>
63 x 50	50 - 40	16	05 04 063	<b>01824</b>
63 x 40	50 - 32	16	05 04 064	<b>01825</b>
63 x 32	50 - 25	16	05 04 065	<b>01826</b>
63 x 25	50 - 20	16	05 04 066	<b>01827</b>
63 x 20	50 - 15	16	05 04 067	<b>01828</b>
75 x 63	65 - 50	16	05 04 075	<b>01829</b>
75 x 50	65 - 40	16	05 04 076	<b>01830</b>
75 x 40	65 - 32	16	05 04 077	<b>01831</b>
75 x 32	65 - 25	16	05 04 078	<b>01832</b>
90 x 75	80 - 65	16	05 04 090	<b>01833</b>
90 x 63	80 - 50	16	05 04 091	<b>01834</b>
90 x 50	80 - 40	16	05 04 092	<b>01835</b>
90 x 40	80 - 32	16	05 04 093	<b>01836</b>
110 x 90	100 - 80	16	05 04 110	<b>01837</b>
110 x 75	100 - 65	16	05 04 111	<b>01838</b>
110 x 63	100 - 50	16	05 04 112	<b>01839</b>
110 x 50	100 - 40	16	05 04 113	<b>01840</b>
125 x 110	110 - 100	16	05 04 125	<b>01841</b>
125 x 90	110 - 80	16	05 04 126	<b>01842</b>
125 x 75	110 - 65	16	05 04 127	<b>01843</b>
125 x 63	110 - 50	16	05 04 128	<b>01844</b>
140 x 125	125 - 110	16	05 04 140	<b>01845</b>
140 x 110	125 - 100	16	05 04 141	<b>01846</b>
140 x 90	125 - 80	16	05 04 142	<b>01847</b>
140 x 75	125 - 65	16	05 04 143	<b>01848</b>
160 x 140	150 - 125	10	05 04 160	<b>07688</b>
160 x 125	150 - 110	10	05 04 161	<b>07689</b>
160 x 110	150 - 100	10	05 04 162	<b>07690</b>
160 x 90	150 - 80	10	05 04 163	<b>07691</b>

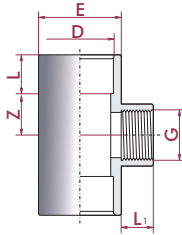
L	L <sub>1</sub>	Z	E
19	16	14	33
22	19	17	41
22	16	17	41
26	22	21	50
26	19	21	50
26	16	21	50
31	26	26	61
31	22	26	61
31	19	26	61
31	16	26	61
38	31	33	76
38	26	33	76
38	22	33	76
38	19	33	76
38	16	33	76
44	38	39	90
44	31	39	90
44	26	39	90
44	22	39	90
51	44	46	108
51	38	46	108
51	31	46	108
51	26	46	108
61	51	56	131
61	44	56	131
61	38	56	131
61	31	56	131
69	61	64	149
69	51	64	149
69	44	64	149
69	38	64	149
76	69	71	162
76	61	71	162
76	51	71	162
76	44	71	162
86	76	81	186
86	69	81	186
86	61	81	186
86	41	81	187

**UP. 04. SFTG - 90° REDUCING TEE**
**90° reducing tee**

- Female solvent socket & BSP female thread
- Metric series

**Té 90° reducida**

- Encolar hembra y roscar hembra BSP
- Serie métrica



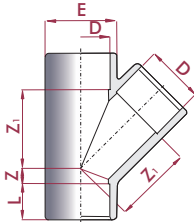
D x G	DN	PN	REF.	CODE	L	L <sub>1</sub>	Z	E
25 x 1/2"	20 - 15	10	05 04 425	<b>01849</b>	19	14	14	33
32 x 3/4"	25 - 20	10	05 04 432	<b>01850</b>	22	16	17	41
32 x 1/2"	25 - 15	10	05 04 433	<b>01851</b>	22	14	17	41
40 x 1"	32 - 25	10	05 04 440	<b>01852</b>	26	19	21	50
40 x 3/4"	32 - 20	10	05 04 441	<b>01853</b>	26	16	21	50
40 x 1/2"	32 - 15	10	05 04 442	<b>01854</b>	26	14	21	50
50 x 1 1/4"	40 - 32	10	05 04 450	<b>01855</b>	31	20	26	61
50 x 1"	40 - 25	10	05 04 451	<b>01856</b>	31	19	26	61
50 x 3/4"	40 - 20	10	05 04 452	<b>01857</b>	31	16	26	61
50 x 1/2"	40 - 15	10	05 04 453	<b>01858</b>	31	14	26	61
63 x 1 1/2"	50 - 40	10	05 04 463	<b>01859</b>	38	20	33	76
63 x 1 1/4"	50 - 32	10	05 04 464	<b>01860</b>	38	20	33	76
63 x 1"	50 - 25	10	05 04 465	<b>01861</b>	38	19	33	76
63 x 3/4"	50 - 20	10	05 04 466	<b>01862</b>	38	16	33	76
63 x 1/2"	50 - 15	10	05 04 467	<b>01863</b>	38	14	33	76
75 x 2"	65 - 50	10	05 04 475	<b>01864</b>	44	24	39	90
75 x 1 1/2"	65 - 40	10	05 04 476	<b>01865</b>	44	20	39	90
75 x 1 1/4"	65 - 32	10	05 04 477	<b>01866</b>	44	20	39	90
75 x 1"	65 - 25	10	05 04 478	<b>01867</b>	44	19	39	90
90 x 2 1/2"	80 - 65	10	05 04 490	<b>01868</b>	51	44	46	108
90 x 2"	80 - 50	10	05 04 491	<b>01869</b>	51	24	46	108
90 x 1 1/2"	80 - 40	10	05 04 492	<b>01870</b>	51	20	46	108
90 x 1 1/4"	80 - 32	10	05 04 493	<b>01871</b>	51	20	46	108

**UP. 36. SF - 45° TEE**
**45° tee**

- Female solvent socket
- Metric series

**Té 45°**

- Encolar hembra
- Serie métrica



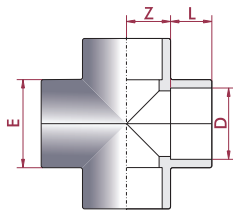
D	DN	PN	REF.	CODE	L	Z	Z <sub>1</sub>	E
20	15	16	05 36 020 *	<b>22583</b>	16	7	29	28
25	20	16	05 36 025 *	<b>22584</b>	19	7	36	34
32	25	16	05 36 032 *	<b>22585</b>	22	8	44	42
40	32	16	05 36 040	<b>22586</b>	26	10	54	51
50	40	10	05 36 050 <sup>3</sup>	<b>20155</b>	31	13	67	61
63	50	10	05 36 063 <sup>3</sup>	<b>20156</b>	38	15	83	76
75	65	10	05 36 075 *	<b>32804</b>	44	18	101	91
90	80	10	05 36 090 *	<b>32805</b>	51	20	122	106
110	100	10	05 36 110 *	<b>32806</b>	61	27	149	133

**PVC-U CROSSES  
CRUCES PVC-U**
**UP. 28. SF - CROSS**
**Cross**

- Female solvent socket
- Metric series

**Cruz**

- Encolar hembra
- Serie métrica



D	DN	PN	REF.	CODE	L	Z	E
20	15	16	05 28 020	<b>20143</b>	16	11	29
25	20	16	05 28 025	<b>20144</b>	19	14	35
32	25	16	05 28 032	<b>20145</b>	22	17	43
40	32	16	05 28 040	<b>20146</b>	26	21	52
50	40	16	05 28 050	<b>02235</b>	31	26	63
63	50	16	05 28 063	<b>02236</b>	38	33	79
75	65	16	05 28 075 *	<b>27958</b>	42	39	92
90	80	16	05 28 090 *	<b>22581</b>	51	46	106
110	100	16	05 28 110 *	<b>22582</b>	61	56	130

\* Distributed product  
\* Producto comercializado

<sup>3</sup> AENOR

## PVC-U SOCKETS MANGUITOS UNIÓN PVC-U

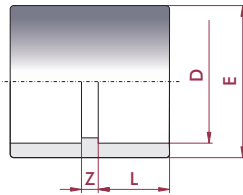
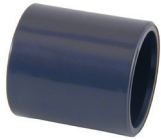
### UP. 05. SF - SOCKET

**Socket**

- Female solvent socket
- Metric series

**Manguito unión**

- Encolar hembra
- Serie métrica



D	DN	PN	REF.	CODE
16	10	16	05 05 016 <sup>3</sup>	<b>16309</b>
20	15	16	05 05 020 <sup>123</sup>	<b>01872</b>
25	20	16	05 05 025 <sup>123</sup>	<b>01873</b>
32	25	16	05 05 032 <sup>123</sup>	<b>01874</b>
40	32	16	05 05 040 <sup>123</sup>	<b>01875</b>
50	40	16	05 05 050 <sup>123</sup>	<b>01876</b>
63	50	16	05 05 063 <sup>123</sup>	<b>01877</b>
75	65	16	05 05 075 <sup>123</sup>	<b>01878</b>
90	80	16	05 05 090 <sup>123</sup>	<b>01879</b>
110	100	16	05 05 110 <sup>13</sup>	<b>01880</b>
125	110	16	05 05 125 <sup>13</sup>	<b>01881</b>
140	125	16	05 05 140 <sup>13</sup>	<b>01882</b>
160	150	10	05 05 160 <sup>13</sup>	<b>01883</b>
200	175	10	05 05 200 <sup>3</sup>	<b>01884</b>
225	200	10	05 05 225 <sup>3</sup>	<b>01885</b>
250	225	10	05 05 250 <sup>3</sup>	<b>01886</b>
315	300	10	05 05 315 <sup>3</sup>	<b>01887</b>
400	375	6	05 05 400*	<b>05329</b>

L	Z	E
14	3	22
16	3	27
19	3	33
22	3	41
26	3	50
31	3	61
38	3	75
44	4	90
51	5	108
61	6	129
69	7	148
76	9	164
86	9	180
106	10	225
119	10	252
131	12	280
164	12	352
206	12	432

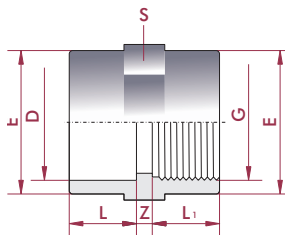
### UP. 05. SFT - SOCKET

**Adaptor socket**

- Female solvent socket & BSP female thread
- Metric series

**Manguito unión mixto**

- Encolar hembra y roscar hembra BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
16 x 3/8"	12	10	05 05 416	<b>01888</b>
20 x 1/2"	15	10	05 05 420	<b>01889</b>
25 x 3/4"	20	10	05 05 425	<b>01890</b>
32 x 1"	25	10	05 05 432	<b>01891</b>
40 x 1 1/4"	32	10	05 05 440	<b>01892</b>
50 x 1 1/2"	40	10	05 05 450	<b>01893</b>
63 x 2"	50	10	05 05 463	<b>01894</b>
75 x 2 1/2"	65	10	05 05 475	<b>01895</b>
90 x 3"	80	10	05 05 490	<b>01896</b>
110 x 4"	90	10	05 05 510	<b>01897</b>

L	L <sub>1</sub>	Z	E	S
14	14	3	22	22
16	14	3	28	27
19	16	3	34	33
22	19	3	43	41
26	20	3	54	50
31	20	3	63	61
38	24	3	78	75
44	44	4	90	90
51	51	6	108	108
61	61	6	135	135

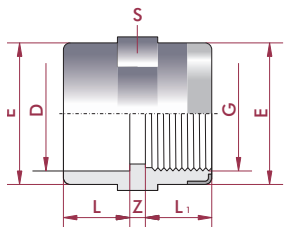
### UP. 05. SFTR - SOCKET REINFORCED

**Adaptor socket reinforced**

- Female solvent socket & BSP female thread
- Reinforcement in stainless steel
- Metric series

**Manguito unión mixto reforzado**

- Encolar hembra y roscar hembra BSP
- Refuerzo en acero inoxidable
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	16	05 05 820	<b>01908</b>
25 x 3/4"	20	16	05 05 825	<b>01909</b>
32 x 1"	25	16	05 05 832	<b>01910</b>
40 x 1 1/4"	32	16	05 05 840	<b>01911</b>
50 x 1 1/2"	40	16	05 05 850	<b>01912</b>
63 x 2"	50	16	05 05 863	<b>01913</b>

L	L <sub>1</sub>	Z	E	S
16	14	3	28	27
19	16	3	34	33
22	19	3	43	41
26	20	3	54	50
31	20	3	63	61
38	24	3	78	75

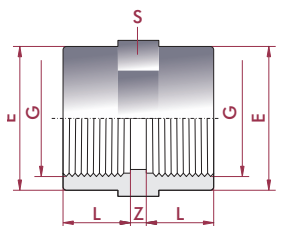
### UP. 05. FT - SOCKET

**Threaded adaptor socket**

- BSP female thread

**Manguito unión doble rosca**

- Roscar hembra BSP



G	DN	PN	REF.	CODE
3/8"	10	10	05 05 616	<b>01898</b>
1/2"	15	10	05 05 620	<b>01899</b>
3/4"	20	10	05 05 625	<b>01900</b>
1"	25	10	05 05 632	<b>01901</b>
1 1/4"	32	10	05 05 640	<b>01902</b>
1 1/2"	40	10	05 05 650	<b>01903</b>
2"	50	10	05 05 663	<b>01904</b>
2 1/2"	65	10	05 05 675	<b>01905</b>
3"	80	10	05 05 690	<b>01906</b>
4"	100	10	05 05 710	<b>01907</b>

L	Z	E	S
14	3	22	22
14	3	27	28
16	3	33	34
19	3	41	43
20	3	50	54
20	3	61	63
24	3	75	78
44	4	90	90
51	6	108	108
61	6	135	135

\* Distributed product  
\* Producto comercializado

<sup>1</sup> AFNOR  
<sup>2</sup> KIWA  
<sup>3</sup> AENOR

## PVC-U REDUCERS REDUCCIONES PVC-U

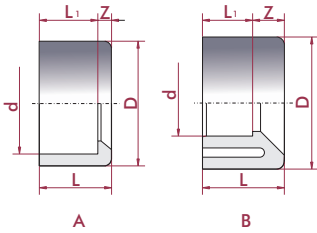
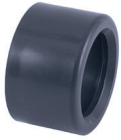
### UP. 06. SMF - REDUCING BUSH

#### Reducing bush

- Male x female solvent socket
- Metric series

#### Casquillo reducción

- Encolar macho x hembra
- Serie métrica



D x d	DN	PN	REF.	CODE	L	L <sub>1</sub>	Z	Mod.
20 x 16	10	16	05 06 020 <sup>3</sup>	<b>01914</b>	16	14	2	A
25 x 20	15	16	05 06 025 <sup>23</sup>	<b>01915</b>	19	16	3	A
32 x 25	20	16	05 06 032 <sup>23</sup>	<b>01916</b>	22	19	3	A
32 x 20	15	16	05 06 033 <sup>3</sup>	<b>01917</b>	22	16	6	A
40 x 32	25	16	05 06 040 <sup>23</sup>	<b>01918</b>	26	22	4	A
40 x 25	20	16	05 06 041 <sup>3</sup>	<b>01919</b>	26	19	7	A
40 x 20	15	16	05 06 042 <sup>3</sup>	<b>01920</b>	26	16	10	B
50 x 40	32	16	05 06 050 <sup>23</sup>	<b>01921</b>	31	26	5	A
50 x 32	25	16	05 06 051 <sup>3</sup>	<b>01922</b>	31	22	9	B
50 x 25	20	16	05 06 052 <sup>3</sup>	<b>01923</b>	31	19	12	B
50 x 20	15	16	05 06 053 <sup>3</sup>	<b>01924</b>	31	16	15	B
63 x 50	40	16	05 06 063 <sup>23</sup>	<b>01925</b>	38	31	7	A
63 x 40	32	16	05 06 064 <sup>3</sup>	<b>01926</b>	38	26	12	B
63 x 32	25	16	05 06 065 <sup>3</sup>	<b>01927</b>	38	22	16	B
75 x 63	50	16	05 06 075 <sup>23</sup>	<b>01928</b>	44	38	6	A
75 x 50	40	16	05 06 076 <sup>3</sup>	<b>18685</b>	44	31	13	B
75 x 40	32	16	05 06 077 <sup>3</sup>	<b>18686</b>	44	26	18	B
90 x 75	65	16	05 06 090 <sup>23</sup>	<b>01929</b>	51	44	7	A
90 x 63	50	16	05 06 091 <sup>3</sup>	<b>18687</b>	51	38	13	B
90 x 50	40	16	05 06 092 <sup>3</sup>	<b>18688</b>	51	31	20	B
110 x 90	80	16	05 06 110 <sup>3</sup>	<b>01930</b>	61	51	10	A
110 x 75	65	16	05 06 111 <sup>3</sup>	<b>18689</b>	61	44	17	B
110 x 63	50	16	05 06 112 <sup>3</sup>	<b>18690</b>	61	38	23	B
125 x 110	100	16	05 06 125 <sup>3</sup>	<b>01931</b>	69	61	8	A
125 x 90	80	16	05 06 126 <sup>3</sup>	<b>18691</b>	69	51	18	B
125 x 75	65	16	05 06 127 <sup>3</sup>	<b>20142</b>	69	44	25	B
140 x 125	110	16	05 06 140 <sup>3</sup>	<b>01932</b>	76	69	8	A
140 x 110	100	16	05 06 141 <sup>3</sup>	<b>18692</b>	76	61	15	B
160 x 140	125	10	05 06 160 <sup>3</sup>	<b>01933</b>	86	76	10	A
160 x 110	100	10	05 06 162 <sup>3</sup>	<b>18693</b>	86	61	25	B
200 x 180	160	10	05 06 199 <sup>3</sup>	<b>01934</b>	106	96	10	A
200 x 160	150	10	05 06 200 <sup>3</sup>	<b>01935</b>	106	86	20	B
225 x 200	175	10	05 06 225 <sup>3</sup>	<b>01936</b>	119	106	13	A
225 x 160	150	10	05 06 226 <sup>3</sup>	<b>01937</b>	119	86	33	B
250 x 225	200	10	05 06 250 <sup>3</sup>	<b>01938</b>	131	119	12	A
250 x 200	175	10	05 06 251 <sup>3</sup>	<b>01939</b>	131	106	25	B
315 x 280	250	6	05 06 315	<b>10093</b>				
315 x 250	225	6	05 06 316 <sup>*</sup>	<b>01940</b>	164	131	33	B
315 x 225	200	6	05 06 317 <sup>*</sup>	<b>01941</b>	164	119	45	B
400 x 315	300	6	05 06 400 <sup>*</sup>	<b>05330</b>	206	163	42	B

\* Distributed product

\* Producto comercializado

<sup>1</sup> AFNOR

<sup>2</sup> KIWA

<sup>3</sup> AENOR

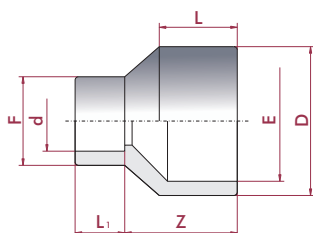
## UP. 09. SMF - CONICAL REDUCER

### Conical reducer

- Male x female solvent socket
- Metric series

### Reducción cónica

- Encolar macho x hembra
- Serie métrica



D-E x d	DN	PN	DN	CODE	L	L <sub>1</sub>	Z	F
32-25 x 25	20	16	05 09 032 <sup>3</sup>	<b>01974</b>	22	19	30	33
32-25 x 20	15	16	05 09 033 <sup>3</sup>	<b>01975</b>	22	16	30	27
40-32 x 32	25	16	05 09 040 <sup>3</sup>	<b>01976</b>	26	22	36	38
40-32 x 25	20	16	05 09 041 <sup>3</sup>	<b>01977</b>	26	19	36	33
40-32 x 20	15	16	05 09 042 <sup>3</sup>	<b>01978</b>	26	16	36	27
50-40 x 40	32	16	05 09 050 <sup>3</sup>	<b>01979</b>	31	26	44	48
50-40 x 32	25	16	05 09 051 <sup>3</sup>	<b>01980</b>	31	22	44	41
50-40 x 25	20	16	05 09 052 <sup>3</sup>	<b>01981</b>	31	19	44	33
50-40 x 20	15	16	05 09 053 <sup>3</sup>	<b>01982</b>	31	16	44	27
63-50 x 50	40	16	05 09 063 <sup>3</sup>	<b>01983</b>	38	31	54	61
63-50 x 40	32	16	05 09 064 <sup>3</sup>	<b>01984</b>	38	26	54	50
63-50 x 32	25	16	05 09 065 <sup>3</sup>	<b>01985</b>	38	22	54	41
63-50 x 25	20	16	05 09 066 <sup>3</sup>	<b>01986</b>	38	19	54	33
63-50 x 20	15	16	05 09 067 <sup>3</sup>	<b>01987</b>	38	16	54	27
75-63 x 63	50	16	05 09 075 <sup>3</sup>	<b>01988</b>	44	38	62	73
75-63 x 50	40	16	05 09 076 <sup>3</sup>	<b>01989</b>	44	31	62	61
75-63 x 40	32	16	05 09 077 <sup>3</sup>	<b>01990</b>	44	26	62	50
75-63 x 32	25	16	05 09 078 <sup>3</sup>	<b>01991</b>	44	22	62	41
90-75 x 75	65	16	05 09 090 <sup>3</sup>	<b>01992</b>	51	44	74	87
90-75 x 63	50	16	05 09 091 <sup>3</sup>	<b>01993</b>	51	38	74	75
90-75 x 50	40	16	05 09 092 <sup>3</sup>	<b>01994</b>	51	31	74	61
90-75 x 40	32	16	05 09 093 <sup>3</sup>	<b>01995</b>	51	26	74	50
110-90 x 90	80	16	05 09 110 <sup>3</sup>	<b>01996</b>	61	51	88	105
110-90 x 75	65	16	05 09 111 <sup>3</sup>	<b>01997</b>	61	44	88	90
110-90 x 63	50	16	05 09 112 <sup>3</sup>	<b>01998</b>	61	38	88	75
110-90 x 50	40	16	05 09 113 <sup>3</sup>	<b>01999</b>	61	31	88	61
125-110 x 90	80	16	05 09 126 <sup>3</sup>	<b>02000</b>	69	51	100	105
125-110 x 75	65	16	05 09 127 <sup>3</sup>	<b>02001</b>	69	44	100	90
125-110 x 63	50	16	05 09 128 <sup>3</sup>	<b>02002</b>	69	38	100	75
140-125 x 110	100	16	05 09 141 <sup>3</sup>	<b>02003</b>	76	61	111	130
140-125 x 90	80	16	05 09 142 <sup>3</sup>	<b>02004</b>	76	51	111	105
140-125 x 75	65	16	05 09 143 <sup>3</sup>	<b>02005</b>	76	44	111	90
160-140 x 125	110	10	05 09 161 <sup>13</sup>	<b>02006</b>	86	69	126	148
160-140 x 110	100	10	05 09 162 <sup>13</sup>	<b>02007</b>	86	61	126	130
160-140 x 90	80	10	05 09 163 <sup>3</sup>	<b>02008</b>	86	51	126	105
200-180 x 140	125	10	05 09 202	<b>02009</b>	106	76	154	157
200-180 x 125	110	10	05 09 203	<b>02010</b>	106	69	154	140
200-180 x 110	100	10	05 09 204	<b>02011</b>	106	61	154	130
225-200 x 160	150	10	05 09 227	<b>02012</b>	119	86	171	180
225-200 x 140	125	10	05 09 228	<b>02013</b>	119	76	171	160
225-200 x 125	110	10	05 09 229	<b>02014</b>	119	69	171	140
250-225 x 200	175	10	05 09 251	<b>02015</b>	131	106	194	225
250-225 x 160	150	10	05 09 253	<b>02016</b>	131	86	194	180
250-225 x 140	125	10	05 09 254	<b>02017</b>	131	76	194	157
315-280 x 200	175	6	05 09 318 <sup>*</sup>	<b>02018</b>	164	106	233	225
315-280 x 160	150	6	05 09 320 <sup>*</sup>	<b>02019</b>	164	86	233	180

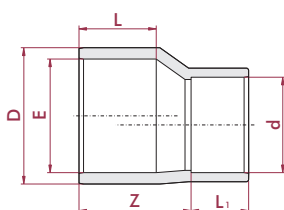
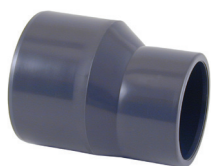
## UP. 09. SF - EXCENTRIC CONICAL REDUCER

### Excentric conical reducer

- Female solvent socket
- Metric series

### Reducción cónica excéntrica

- Encolar hembra
- Serie métrica



D-E x d	DN	PN	REF.	CODE	L	L <sub>1</sub>	Z
90-75 x 63	50	16	05 09 691	<b>09030</b>	51	38	74

\* Distributed product  
\* Producto comercializado

<sup>1</sup> AFNOR  
<sup>2</sup> KIWA  
<sup>3</sup> AENOR

## PVC-U CAPS TAPONES PVC-U

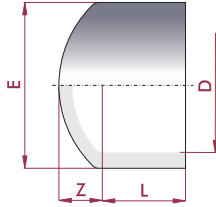
### UP. 07. SF - CAP

**Cap**

- Female solvent socket
- Metric series

**Tapón**

- Encolar hembra
- Serie métrica



D	DN	PN	REF.	CODE
16	10	16	05 07 016	<b>01942</b>
20	15	16	05 07 020 <sup>2</sup>	<b>01943</b>
25	20	16	05 07 025 <sup>2</sup>	<b>01944</b>
32	25	16	05 07 032 <sup>2</sup>	<b>01945</b>
40	32	16	05 07 040 <sup>2</sup>	<b>01946</b>
50	40	16	05 07 050 <sup>2</sup>	<b>01947</b>
63	50	16	05 07 063 <sup>2</sup>	<b>01948</b>
75	65	16	05 07 075 <sup>2</sup>	<b>01949</b>
90	80	16	05 07 090 <sup>2</sup>	<b>01950</b>
110	100	16	05 07 110	<b>01951</b>
125	110	16	05 07 125	<b>01952</b>
140	125	16	05 07 140	<b>01953</b>
160	150	10	05 07 160	<b>01954</b>
200	175	10	05 07 200	<b>01955</b>
225	200	10	05 07 225	<b>01956</b>
250	225	10	05 07 250	<b>15776</b>
315	300	10	05 07 315	<b>15777</b>
400	355	5	05 07 400*	<b>TBD</b>

L	Z	E
14	7	22
16	8	25
19	9	32
22	10	40
26	12	50
31	15	63
38	17	75
44	19	90
51	23	110
61	28	131
69	32	148
76	36	163
86	40	185
106	46	224
119	50	252
131	60	282
164	70	357
206	126	434

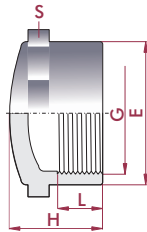
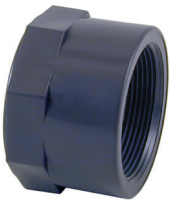
### UP. 07. FT - CAP

**Cap**

- BSP female thread

**Tapón**

- Roscar hembra BSP



G	DN	PN	REF.	CODE
3/8"	10	10	05 07 616	<b>01957</b>
1/2"	15	10	05 07 620	<b>01958</b>
3/4"	20	10	05 07 625	<b>01959</b>
1"	25	10	05 07 632	<b>01960</b>
1 1/4"	32	10	05 07 640	<b>01961</b>
1 1/2"	40	10	05 07 650	<b>01962</b>
2"	50	10	05 07 663	<b>01963</b>
2 1/2"	65	10	05 07 675	<b>01964</b>
3"	80	10	05 07 690	<b>01965</b>
4"	100	10	05 07 710	<b>01966</b>

L	E	H	S
14	24	20	24
14	27	23	27
16	33	28	33
19	41	33	41
20	50	36	50
20	61	43	61
24	75	50	75
44	90	64	90
51	108	76	108
61	135	91	135

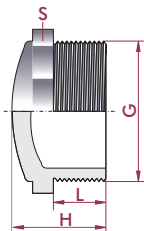
### UP. 19. MT - PLUG

**Plug**

- BSP male thread

**Tapón**

- Roscar macho BSP



G	DN	PN	REF.	CODE
1/4"	8	10	05 19 612	<b>02121</b>
3/8"	10	10	05 19 616	<b>02122</b>
1/2"	15	10	05 19 620	<b>02123</b>
3/4"	20	10	05 19 625	<b>02124</b>
1"	25	10	05 19 632	<b>02125</b>
1 1/4"	32	10	05 19 640	<b>02126</b>
1 1/2"	40	10	05 19 650	<b>02127</b>
2"	50	10	05 19 663	<b>02128</b>
2 1/2"	65	10	05 19 675	<b>02129</b>
3"	80	10	05 19 690	<b>02130</b>
4"	100	10	05 19 710	<b>02131</b>

L	H	S
10	18	12
10	22	20
14	27	27
16	30	32
19	34	36
21	36	46
21	37	55
26	42	65
30	50	80
33	59	93
38	68	115

<sup>1</sup> AFNOR  
<sup>2</sup> KIWA  
<sup>3</sup> AENOR

## PVC-U NIPPLES MACHONES PVC-U

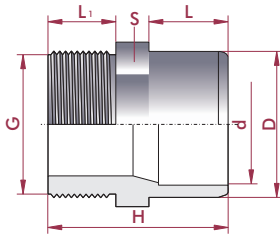
### UP. 15. SFMT - ADAPTOR NIPPLE

**Adaptor nipple**

- Female solvent socket & BSP male thread
- Metric series

**Machón mixto**

- Encolar hembra y roscar macho BSP
- Serie métrica



D - d x G	DN	PN	REF.	CODE
16 - 12 x 3/8"	12	10	05 15 416	<b>02073</b>
20 - 16 x 1/2"	15	10	05 15 420	<b>02074</b>
20 - 16 x 3/4"	12	10	05 15 421	<b>02075</b>
25 - 20 x 3/4"	20	10	05 15 425	<b>02076</b>
25 - 20 x 1/2"	15	10	05 15 426	<b>02077</b>
25 - 20 x 3/8"	12	10	05 15 427	<b>02078</b>
32 - 25 x 1"	25	10	05 15 432	<b>02079</b>
32 - 25 x 3/4"	20	10	05 15 433	<b>02080</b>
32 - 25 x 1/2"	15	10	05 15 434	<b>02081</b>
40 - 32 x 1 1/4"	32	10	05 15 440	<b>02082</b>
40 - 32 x 1"	25	10	05 15 441	<b>02083</b>
40 - 32 x 3/4"	20	10	05 15 442	<b>02084</b>
50 - 40 x 1 1/2"	40	10	05 15 450	<b>02085</b>
50 - 40 x 1 1/4"	32	10	05 15 451	<b>02086</b>
50 - 40 x 1"	25	10	05 15 452	<b>02087</b>
63 - 50 x 2"	50	10	05 15 463	<b>02088</b>
63 - 50 x 1 1/2"	40	10	05 15 464	<b>02089</b>
63 - 50 x 1 1/4"	32	10	05 15 465	<b>02090</b>
75 - 63 x 2 1/2"	65	10	05 15 475	<b>02091</b>
75 - 63 x 2"	50	10	05 15 476	<b>02092</b>
75 - 63 x 1 1/2"	40	10	05 15 477	<b>02093</b>
90 - 75 x 3"	80	10	05 15 490	<b>02094</b>
90 - 75 x 2 1/2"	65	10	05 15 491	<b>02095</b>
90 - 75 x 2"	50	10	05 15 492	<b>02096</b>
110 - 90 x 4"	100	10	05 15 510	<b>02097</b>
110 - 90 x 3"	80	10	05 15 511	<b>02098</b>
110 - 90 x 2 1/2"	65	10	05 15 512	<b>02099</b>

L	L <sub>1</sub>	H	S
14	11	35	24
16	14	42	27
16	11	39	27
19	16	47	32
19	14	45	32
19	11	42	32
22	19	54	36
22	16	51	36
22	14	49	36
26	21	60	46
26	19	58	46
26	16	55	46
31	25	70	55
31	21	66	55
31	19	64	55
38	25	78	65
38	21	73	65
38	21	73	65
44	30	89	78
44	25	84	78
44	21	80	78
51	33	99	93
51	30	96	93
51	25	91	93
61	40	116	120
61	33	109	120
61	30	106	120

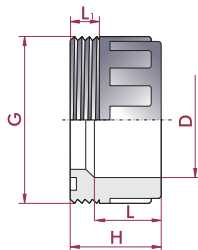
### UP. 16. SFMT - ADAPTOR NIPPLE

**Adaptor nipple**

- Female solvent socket x BSP male thread
- Metric series

**Manguito adaptación**

- Encolar hembra x roscar macho BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
50 x 2"	40	10	05 16 450	<b>02100</b>
63 x 2 1/2"	50	10	05 16 463	<b>02101</b>

L	L <sub>1</sub>	H
31	16	52
38	17	62

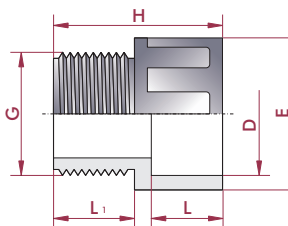
### UP. 17. SFMT - ADAPTOR BUSH

**Adaptor bush**

- Female solvent socket x BSP male threaded
- Metric series

**Terminal rosca macho**

- Encolar hembra x roscar macho BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1/2"	15	10	05 17 420	<b>02102</b>
25 x 3/4"	20	10	05 17 425	<b>02103</b>
32 x 1"	25	10	05 17 432	<b>02104</b>
40 x 1 1/4"	32	10	05 17 440	<b>02105</b>
50 x 1 1/2"	40	10	05 17 450	<b>02106</b>
63 x 2"	50	10	05 17 463	<b>02107</b>
75 x 2 1/2"	65	10	05 17 475	<b>02108</b>
90 x 3"	80	10	05 17 490	<b>02109</b>
110 x 4"	100	10	05 17 510	<b>02110</b>

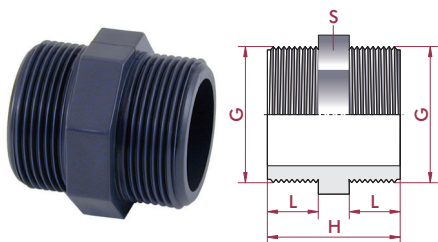
L	L <sub>1</sub>	E	H
16	14	28	38
19	16	34	42
22	19	41	50
26	21	51	55
31	22	62	65
38	27	77	75
44	30	90	85
51	33	108	98
61	40	131	115

**UP. 18. MT - THREADED NIPPLE**
**Hexagon nipple**

• BSP male thread

**Machón doble rosca**

• Roscar macho BSP



G	DN	PN	REF.	CODE
3/8"	10	10	05 18 616	<b>02111</b>
1/2"	15	10	05 18 620	<b>02112</b>
3/4"	20	10	05 18 625	<b>02113</b>
1"	25	10	05 18 632	<b>02114</b>
1 1/4"	32	10	05 18 640	<b>02115</b>
1 1/2"	40	10	05 18 650	<b>02116</b>
2"	50	10	05 18 663	<b>02117</b>
2 1/2"	65	10	05 18 675	<b>02118</b>
3"	80	10	05 18 690	<b>02119</b>
4"	100	10	05 18 710	<b>02120</b>

L	H	S
11	32	20
14	40	27
16	44	32
19	51	36
21	55	46
21	56	55
26	66	65
30	75	90
33	81	108
38	91	135

**UP. 31. SFT - ADAPTOR NIPPLE**
**Adaptor nipple**

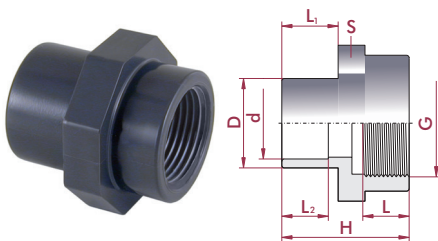
• Female solvent socket &amp; BSP female thread

• Metric series

**Adaptador mixto**

• Encolar hembra y roscar hembra BSP

• Serie métrica



D - d x G	DN	PN	REF.	CODE
20 - 16 x 3/4"	16	10	05 31 420	<b>02243</b>
20 - 16 x 1/2"	16	10	05 31 421	<b>02244</b>
20 - 16 x 3/8"	12	10	05 31 422	<b>02245</b>
20 - 16 x 1/4"	12	10	05 31 423	<b>02246</b>
25 - 20 x 1"	20	10	05 31 425	<b>02247</b>
25 - 20 x 3/4"	20	10	05 31 426	<b>02248</b>
25 - 20 x 1/2"	16	10	05 31 427	<b>02249</b>
32 - 25 x 1 1/4"	25	10	05 31 432	<b>02250</b>
32 - 25 x 1"	25	10	05 31 433	<b>02251</b>
32 - 25 x 3/4"	20	10	05 31 434	<b>02252</b>
32 - 25 x 1/2"	16	10	05 31 435	<b>24822</b>
40 - 32 x 1 1/2"	32	10	05 31 440	<b>02253</b>
40 - 32 x 1 1/4"	32	10	05 31 441	<b>02254</b>
40 - 32 x 1"	25	10	05 31 442	<b>02255</b>
50 - 40 x 2"	40	10	05 31 450	<b>02256</b>
50 - 40 x 1 1/2"	40	10	05 31 451	<b>02257</b>
50 - 40 x 1 1/4"	32	10	05 31 452	<b>02258</b>
63 - 50 x 2 1/2"	50	10	05 31 463	<b>02259</b>
63 - 50 x 2"	50	10	05 31 464	<b>02260</b>
63 - 50 x 1 1/2"	40	10	05 31 465	<b>02261</b>
75 - 63 x 3"	50	10	05 31 475	<b>02262</b>
75 - 63 x 2 1/2"	65	10	05 31 476	<b>02263</b>
75 - 63 x 2"	50	10	05 31 477	<b>02264</b>
90 - 75 x 4"	65	10	05 31 490	<b>02265</b>
90 - 75 x 3"	65	10	05 31 491	<b>02266</b>
90 - 75 x 2 1/2"	65	10	05 31 492	<b>02267</b>
110 - 90 x 4"	80	10	05 31 511	<b>02268</b>
110 - 90 x 3"	80	10	05 31 512	<b>02269</b>

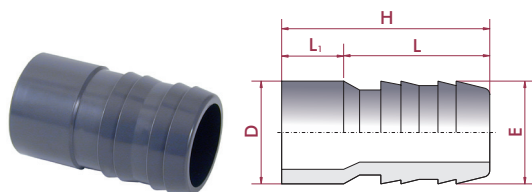
L	L <sub>1</sub>	L <sub>2</sub>	H	S
19	16	14	44	32
18	16	14	43	32
14	16	14	39	32
12	16	14	37	32
22	19	16	50	36
19	19	16	47	32
18	19	16	46	32
25	22	19	56	46
22	22	19	53	36
19	22	19	50	36
18	22	19	49	36
25	26	22	60	55
25	26	22	60	46
22	26	22	57	46
29	31	26	69	65
25	31	26	65	55
25	31	26	65	55
34	38	31	81	78
29	38	31	76	65
25	38	31	72	65
37	44	38	96	108
34	44	38	87	78
29	44	38	82	78
42	51	44	124	135
36	51	44	98	108
33	51	44	92	90
42	61	51	116	135
36	61	51	105	110

**UP. 24. SF - SPIGOT CONNECTION**
**Spigot connection**

• Solvent socket

**Espiga conexión a PE lisa**

• Encolar



D x E	DN	PN	REF.	CODE
16 x 16	10	10	05 24 016	<b>02200</b>
20 x 18	15	10	05 24 018	<b>02201</b>
20 x 20	15	10	05 24 020	<b>02202</b>
25 x 25	20	10	05 24 025	<b>02203</b>
32 x 30	25	10	05 24 032	<b>02204</b>
40 x 40	32	10	05 24 040	<b>02205</b>
50 x 50	40	10	05 24 050	<b>02206</b>
50 x 38	40	10	05 24 051	<b>02207</b>
63 x 60	50	10	05 24 063	<b>02208</b>

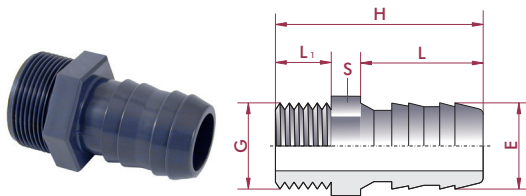
H	L <sub>1</sub>	L	E
49	14	35	16
51	16	35	18
54	16	38	20
61	19	42	25
69	22	47	30
78	26	52	40
88	31	57	50
88	31	57	38
98	38	60	61



## UP. 24. MT - SPIGOT CONNECTION

**Spigot connection**  
• BSP male thread

**Espiga conexión PE roscada**  
• Roscar macho BSP



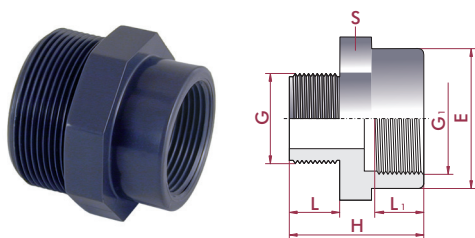
G x E	DN	PN	REF.	CODE
3/8" x 16	10	10	05 24 616	<b>02217</b>
1/2" x 18	15	10	05 24 618	<b>02218</b>
1/2" x 20	15	10	05 24 620	<b>02219</b>
3/4" x 25	20	10	05 24 625	<b>02220</b>
3/4" x 20	20	10	05 24 626	<b>15763</b>
1" x 30	25	10	05 24 632	<b>02221</b>
1" x 25	25	10	05 24 633	<b>09031</b>
1 1/4" x 40	32	10	05 24 640	<b>02222</b>
1 1/2" x 50	40	10	05 24 650	<b>02223</b>
1 1/2" x 38	40	10	05 24 651	<b>02224</b>
1 1/2" x 40	40	10	05 24 652	<b>09032</b>
2" x 60	50	10	05 24 663	<b>02225</b>

H	L <sub>1</sub>	S	L	E
54	11	35	18	16
58	15	35	22	18
60	15	38	22	20
67	17	42	27	25
62	17	36	27	20
78	21	47	36	30
78	21	47	36	25
84	22	52	46	40
89	22	57	50	50
89	22	57	50	38
89	22	57	50	40
100	26	60	65	61

## UP. 32. MFT - THREADED REDUCER

**Threaded reducer**  
• BSP male x female thread

**Reducción roscada**  
• Roscar macho x hembra BSP



G x G <sub>1</sub>	DN	PN	REF.	CODE
3/8" x 1/2"	10	10	05 32 616	<b>02270</b>
1/2" x 3/4"	15	10	05 32 620	<b>02271</b>
1/2" x 3/8"	10	10	05 32 621	<b>02272</b>
3/4" x 1"	20	10	05 32 625	<b>02273</b>
3/4" x 1/2"	15	10	05 32 626	<b>02274</b>
3/4" x 3/8"	10	10	05 32 627	<b>02275</b>
1" x 1 1/4"	25	10	05 32 632	<b>02276</b>
1" x 3/4"	20	10	05 32 633	<b>02277</b>
1" x 1/2"	15	10	05 32 634	<b>02278</b>
1" x 3/8"	10	10	05 32 635	<b>02279</b>
1 1/4" x 1 1/2"	32	10	05 32 640	<b>02280</b>
1 1/4" x 1"	25	10	05 32 641	<b>02281</b>
1 1/4" x 3/4"	20	10	05 32 642	<b>02282</b>
1 1/4" x 1/2"	15	10	05 32 643	<b>02283</b>
1 1/2" x 2"	40	10	05 32 650	<b>02284</b>
1 1/2" x 1 1/4"	32	10	05 32 651	<b>02285</b>
1 1/2" x 1"	25	10	05 32 652	<b>02286</b>
1 1/2" x 3/4"	20	10	05 32 653	<b>02287</b>
2" x 2 1/2"	50	10	05 32 663	<b>02288</b>
2" x 1 1/2"	40	10	05 32 664	<b>02289</b>
2" x 1 1/4"	32	10	05 32 665	<b>02290</b>
2" x 1"	25	10	05 32 666	<b>02291</b>
2 1/2" x 3"	65	10	05 32 675	<b>02292</b>
2 1/2" x 2"	50	10	05 32 676	<b>02293</b>
2 1/2" x 1 1/2"	40	10	05 32 677	<b>02294</b>
2 1/2" x 1 1/4"	32	10	05 32 678	<b>02295</b>
3" x 4"	80	10	05 32 690	<b>02296</b>
3" x 2 1/2"	63	10	05 32 691	<b>02297</b>
3" x 2"	50	10	05 32 692	<b>02298</b>
3" x 1 1/2"	40	10	05 32 693	<b>02299</b>
4" x 3"	80	10	05 32 711	<b>02300</b>
4" x 2 1/2"	65	10	05 32 712	<b>23001</b>
4" x 2"	50	10	05 32 713	<b>23002</b>

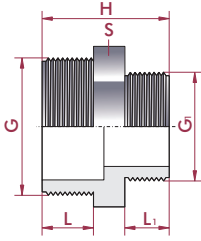
L	L <sub>1</sub>	H	E	S
11	18	42	28	27
15	19	49	35	33
15	14	38	22	22
16	22	46	41	41
16	18	43	28	32
16	14	39	22	33
19	25	53	50	50
19	19	48	33	36
19	18	47	28	36
19	14	43	22	36
21	25	54	61	61
21	25	52	41	46
21	22	50	33	46
21	18	49	28	46
21	29	60	75	75
21	25	55	50	55
21	22	53	41	55
21	19	51	33	55
25	34	68	90	90
25	25	59	61	65
25	25	59	50	65
25	22	57	41	65
30	37	99	108	108
30	29	68	75	80
30	25	64	61	80
30	25	64	50	80
33	43	115	135	135
33	34	75	90	93
33	29	70	75	93
33	25	66	61	93
39	37	91	108	115
39	34	93	90	115
39	29	100	75	115

**UP. 33. MT - THREADED REDUCER**
**Threaded reducer**

• BSP male x male thread

**Reducción roscada**

• Roscar macho x macho BSP



G x G <sub>1</sub>	DN	PN	REF.	CODE
1/2" x 3/8"	10	10	05 33 620	<b>02303</b>
3/4" x 1/2"	15	10	05 33 625	<b>02304</b>
3/4" x 3/8"	10	10	05 33 626	<b>02305</b>
1" x 3/4"	20	10	05 33 632	<b>02306</b>
1" x 1/2"	15	10	05 33 633	<b>02307</b>
1" x 3/8"	10	10	05 33 634	<b>02308</b>
1 1/4" x 1"	25	10	05 33 640	<b>02309</b>
1 1/4" x 3/4"	20	10	05 33 641	<b>02310</b>
1 1/4" x 1/2"	15	10	05 33 642	<b>02311</b>
1 1/2" x 1 1/4"	32	10	05 33 650	<b>02312</b>
1 1/2" x 1"	25	10	05 33 651	<b>02313</b>
1 1/2" x 3/4"	20	10	05 33 652	<b>02314</b>
2" x 1 1/2"	40	10	05 33 663	<b>02315</b>
2" x 1 1/4"	32	10	05 33 664	<b>02316</b>
2" x 1"	25	10	05 33 665	<b>02317</b>
2 1/2" x 2"	50	10	05 33 675	<b>02318</b>
2 1/2" x 1 1/2"	40	10	05 33 676	<b>02319</b>
2 1/2" x 1 1/4"	32	10	05 33 677	<b>02320</b>
3" x 2 1/2"	65	10	05 33 690	<b>02321</b>
3" x 2"	50	10	05 33 691	<b>02322</b>
3" x 1 1/2"	40	10	05 33 692	<b>02323</b>
4" x 3"	80	10	05 33 710	<b>02324</b>
4" x 2 1/2"	65	10	05 33 711	<b>02325</b>
4" x 2"	50	10	05 33 712	<b>02326</b>

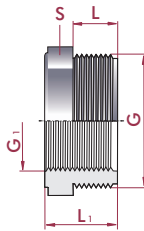
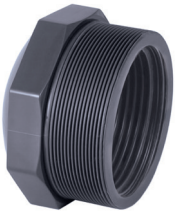
L	L <sub>1</sub>	H	S
15	11	36	24
16	15	43	32
16	11	39	32
19	16	48	40
19	15	47	40
19	11	43	40
21	19	53	50
21	16	50	50
21	15	49	50
21	21	56	55
21	19	54	55
21	16	51	55
25	21	61	65
25	21	61	65
25	19	58	65
30	25	70	80
30	21	66	80
30	21	66	80
33	30	78	93
33	25	73	93
33	21	69	93
38	33	86	115
38	30	83	115
38	25	78	115

**UP. 34. MFT - SHORT THREADED REDUCER**
**Short threaded reducer**

• BSP male x female thread

**Reducción roscada corta**

• Roscar macho x hembra BSP



G x G <sub>1</sub>	DN	PN	REF.	CODE
1/2" x 1/4"	7	10	05 34 621	<b>23087</b>
3/4" x 1/2"	15	10	05 34 625	<b>20147</b>
3/4" x 1/4"	7	10	05 34 627	<b>23088</b>
3/4" x 1/8"	3	10	05 34 628	<b>28081</b>
1" x 3/4"	20	10	05 34 632	<b>20148</b>
1" x 1/4"	7	10	05 34 635	<b>23089</b>
1 1/4" x 1"	25	10	05 34 640	<b>20149</b>
1 1/2" x 1 1/4"	32	10	05 34 650	<b>20150</b>
2" x 1 1/2"	40	10	05 34 663	<b>20151</b>
2 1/2" x 2"	50	10	05 34 675	<b>20152</b>
3" x 2 1/2"	63	10	05 34 690	<b>20153</b>
4" x 3"	75	10	05 34 710	<b>20154</b>

L	L <sub>1</sub>	S
14	12	27
16	30	32
16	12	32
16	34	32
19	34	36
12	19	36
21	36	46
21	36	55
26	42	65
30	47	80
33	51	93
39	64	120

## PVC-U RUBBER-RING JOINT FITTINGS

### ACCESORIOS EN PVC-U CON JUNTA ELÁSTICA

#### FEATURES

Easy installation fittings, without effort or tools, thanks to its gaskets.

It is compulsory the use of an inner gasket to install it.

Designed to support earth movements or misalignments, ideally suited for underground installations.

It can absorb vibrations or pipe expansions due to its elasticity and flexibility.

To make the installation easier, it is very important to lubricate the gasket correctly.

- Material: PVC-U.
- Density: 1,4 g/cm<sup>3</sup>.
- Color: grey RAL 7011.
- Dimensions: from D63 to D315.
- Standards: dimensions and characteristics according to EN 1452.

#### CARACTERÍSTICAS

Accesorios fáciles de instalar, sin esfuerzo y sin herramientas gracias a las juntas.

Para su correcta instalación es necesaria la junta interior.

Está realizado para poder soportar movimientos de tierra y desalineaciones, ideal para instalaciones enterradas.

Gracias a su elasticidad y flexibilidad, absorbe mejor las vibraciones y la expansión del tubo.

Es muy importante una buena lubricación de la junta para instalar el tubo cómodamente.

- Material: PVC-U.
- Densidad: 1,4 g/cm<sup>3</sup>.
- Color: gris RAL 7011.
- Dimensiones: de D63 hasta D315.
- Normas: dimensiones y características según la norma EN 1452.

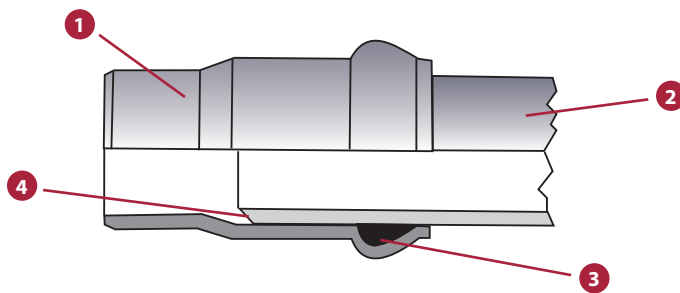


FIG.	Parts	Despiece	Material
1	Union socket	Manguito unión	PVC-U
2	Pipe	Tubería	-
3	Gasket	Junta	NBR
4	Chamfer to make an easier installation	Chaflán para una inserción más fácil	-

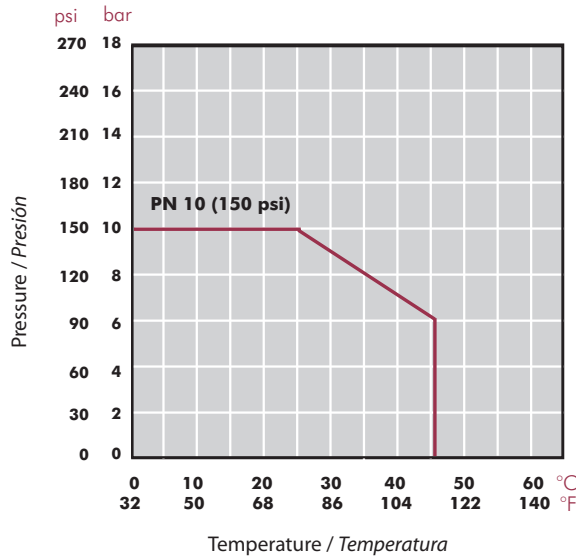
**TECHNICAL CHARACTERISTICS**

Working pressure at 20°C (73°F) water temperature:  
 • D63 - D315: PN 10 (150 psi)

**CARACTERÍSTICAS TÉCNICAS**

Presión de servicio a 20°C (73°F) temperatura de agua:  
 • D63 - D315: PN 10 (150 psi)

**PRESSURE / TEMPERATURE GRAPH  
 DIAGRAMA PRESIÓN / TEMPERATURA**



Life: 20 years  
 Hydrostatic maximum pressure a component may withstand in continuous service (without overpressure)

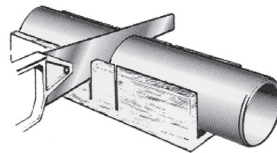
*Vida útil: 20 años*  
*Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)*

**ASSEMBLY**

**A.** Before assembling rubber ring fittings proceed as follows. In case of pipe end damaged: cut the pipe with a proper tool to obtain a square end.

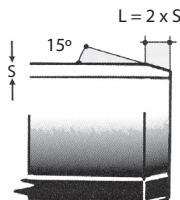
**MONTAJE**

**A.** Antes de instalar los accesorios de junta elástica, proceda de la siguiente manera. En caso que el extremo del tubo está dañado: corte el tubo con una herramienta especial para obtener un corte recto perpendicular al eje.



**B.** Chamfer the pipe with a special tool as shown in the following picture and table.

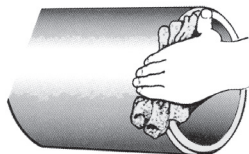
**B.** Chafane el tubo con una herramienta especial según lo mostrado en la imagen y el cuadro siguiente.



D (mm)	63	75	90	110	125	140	160	200
L (mm)	6,0	7,0	9,0	10,5	12,0	13,5	15,5	19,0

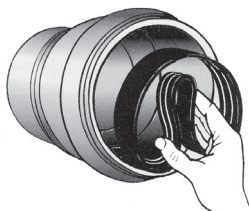
**C.** Clean carefully the external surface of the pipe and lubricate only with soapy water (do not use oil or grease).

**C.** Limpie cuidadosamente la superficie externa del tubo. Lubrique solamente con agua jabonosa (no utilice aceite o grasa).



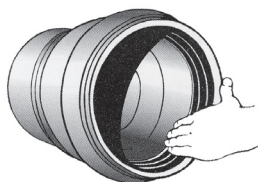
**D.** Clean carefully the socket seat in the fitting. Check gasket conditions. Introduce the sealing ring into its specific seat.

**D.** Limpie cuidadosamente el asiento de la junta del accesorio. Compruebe las condiciones de la junta. Introduzca la junta en su asiento específico.



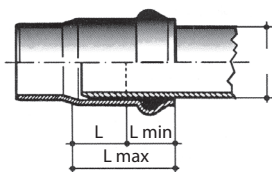
**E.** Lubricate the internal surface of the rubber ring in the same way as the pipe.

**E.** Lubrique la superficie interna de la junta con un lubricante adecuado de la misma manera que el tubo.



**F.** Mark on the outside of the pipe the depth to be inserted into the socket of the fitting according to the lengths in the following table.

**F.** Marque en el exterior del tubo la profundidad a ser insertada en el accesorio según los longitudes del cuadro.



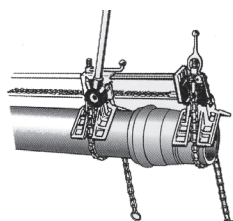
D (mm)	63	75	90	110	125	140	160	200
L max	94	104	109	115	124	133	139	169
L min	42	45	50	55	60	69	75	85
L	52	59	59	60	64	64	64	64

**G.** To introduce the tube into the fitting we recommend to use the appliance device shown in picture.

- Fix the special assembling device onto the pipe.
- Fix the fitting upon the device.
- With the lever, slide the fitting onto the pipe till you reach the reference mark.

**G.** Para introducir el tubo en el accesorio se aconseja utilizar un equipo como el mostrado en la imagen.

- Fije un dispositivo de ensamblaje especial sobre el tubo.
- Fije el accesorio sobre el dispositivo.
- Con la palanca, deslice el accesorio sobre el tubo hasta que se alcance la marca de referencia.

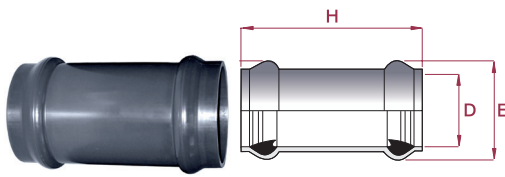


**UP. 05. RJ - UNION SOCKET**
**Union socket**

- Rubber ring joint
- Metric series

**Manguito unión**

- Con junta elástica
- Serie métrica



D	DN	PN	REF.	CODE
63	50	10	70 05 063 *	<b>22917</b>
75	65	10	70 05 075 *	<b>22918</b>
90	80	10	70 05 090 *	<b>22919</b>
110	100	10	70 05 110 *	<b>22920</b>
125	110	10	70 05 125 *	<b>22921</b>
140	125	10	70 05 140 *	<b>22922</b>
160	150	10	70 05 160 *	<b>22923</b>
200	175	10	70 05 200 *	<b>22924</b>
225	200	10	70 05 225 *	<b>22925</b>
250	225	10	70 05 250 *	<b>22926</b>
315	300	10	70 05 315 *	<b>22927</b>

E	H
86	380
102	380
120	380
144	380
161	380
178	380
202	380
248	400
277	500
304	500
382	500

\* Distributed product  
\* Producto comercializado

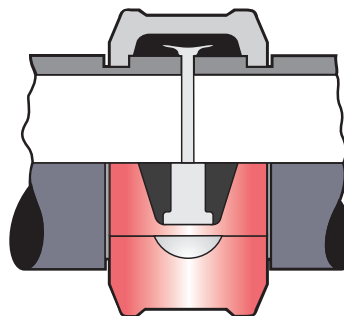
## GROOVED COUPLING ENLACE BRIDA RANURADA

Designed with a heavy housing for high pressure service. The housing key is wider than standard and the coupling housing is designed to clamp the bottom of the groove, thus providing an essentially rigid joint. It also eliminates movement at the joint.

Reduces linear or angular movement and is useful for valve connections and other points where rigidity is required.

Diseñado con una resistente cubierta para soportar altas presiones. La llave es más ancha que las estándares y el enlace está diseñado para agarrar el fondo de la ranura, proporcionando una unión rígida. También está pensado para eliminar los movimientos en la unión.

Reduce el movimiento lineal o angular y se puede usar para conexiones con válvulas o en otros sitios donde se requiera rigidez.



- Fast assembly.
- Allows misalignments up to 1°30'.
- EPDM joint.
- Coupling made of coated ductile iron.
- Bolts made of zinc plated carbon steel.

- Montaje rápido.
- Permite desalineaciones de hasta 1°30'.
- Junta en EPDM.
- Brida en hierro fundido pintado.
- Tornillos en acero zincado.

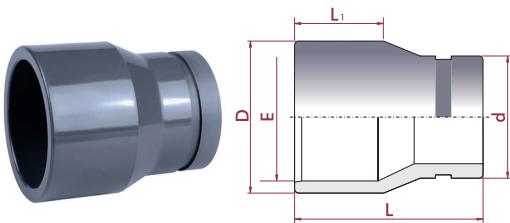
### UP. 58. SFVT - VICTAULIC SOCKET

**Grooved flexible socket**

- Female solvent socket
- Metric series

**Enlace brida ranurada**

- Encolar hembra
- Serie métrica



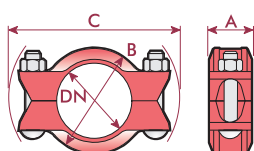
D - E x d	DN	PN	REF.	CODE
75 - 63 x 2"	2"	16	05 58 463	<b>20162</b>
110 - 90 x 3"	3"	16	05 58 490	<b>20163</b>
125 - 110 x 4"	4"	16	05 58 510	<b>20164</b>
180 - 160 x 6"	6"	10	05 58 560	<b>21444</b>

L	L <sub>1</sub>
93	44
132	63
151	71
183	90

### UP. 58. VT - VICTAULIC COUPLING

**Grooved flexible coupling**

**Brida ranurada**



DN	REF.	CODE
2"	05 58 063*	<b>20165</b>
3"	05 58 090*	<b>20166</b>
4"	05 58 110*	<b>20167</b>
6"	05 58 160*	<b>21445</b>

A	B	C
51	89	168
51	121	197
54	152	245
64	219	321

\* Distributed product  
\* Producto comercializado

## PVC-U LOOSE FLANGES BRIDAS LOCAS PVC-U

- EN 1452 / ISO 15493 / ISO EN 558 / BS EN 1092-1 Flange System.
- We recommend to follow flange installation instructions carefully to avoid any unnecessary tensions.

- Sistema de bridas EN 1452 / ISO 15493 / ISO EN 558 / BS EN 1092-1.
- Recomendamos seguir exactamente las normas de montaje de bridas con objeto de evitar tensiones innecesarias.

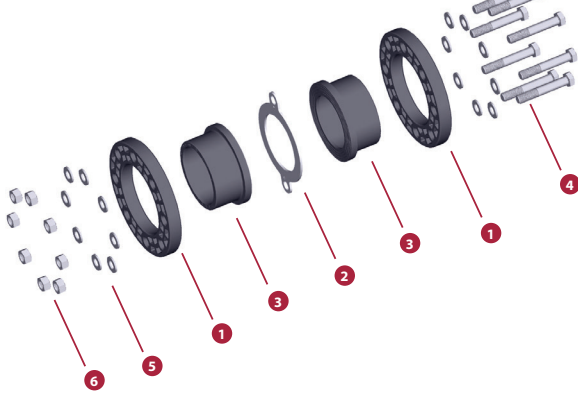
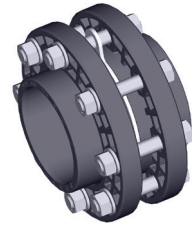


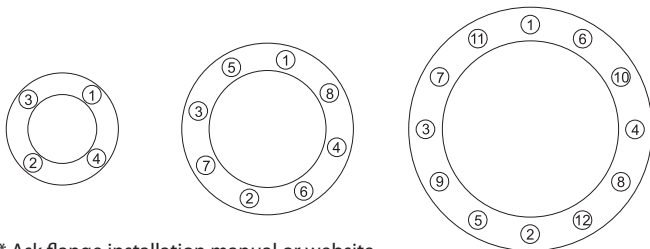
FIG.	Parts	Despiece	Material
1	Flange	Brida	PVC-U / PP
2	Flat gasket	Junta plana	EVA / EPDM
3	Flange adaptor **	Manguito portabridas **	PVC-U
4	Screw DIN 931	Tornillo DIN 931	5.6 Zinc plated steel / A2 Stainless steel *
5	Washer DIN 125-A	Arandela DIN 125-A	
6	Nut DIN 934	Tuerca DIN 934	

D	2		1		3
	EVA	EPDM	PVC-U	PP	PVC-U
20	✓	✓	✓		✓
25	✓	✓	✓		✓
32	✓	✓	✓		✓
40	✓	✓	✓		✓
50	✓	✓	✓	✓	✓
63	✓	✓	✓	✓	✓
75	✓	✓	✓	✓	✓
90	✓	✓	✓	✓	✓
110	✓	✓	✓	✓	✓
125	✓	✓	✓	✓	✓
140	✓	✓	✓	✓	✓
160	✓	✓	✓	✓	✓
200	✓	✓	✓	✓	✓
225	✓	✓	✓	✓	✓
250	✓	✓	✓	✓	✓
315	✓	✓	✓	✓	✓
400		✓	✓	✓	✓
500		✓	✓	✓	✓

\* On order A4 Stainless steel  
Bajo pedido acero inoxidable A4

\*\* Flange adaptor available in BS and ASTM solvent socket standards  
Manguito portabridas disponible en standards BS y ASTM

### TIGHTENING SEQUENCE ORDEN DE APRIETE



\* Ask flange installation manual or website  
Consultar manual instalación bridas o website

### TIGHTENING MAXIMUM TORQUE MÁXIMO PAR DE APRIETE

D	DN	inch	N · m	Kgf · cm	inch · lbs
<b>63-75</b>	65	2 ½"	25	255	221
<b>90</b>	80	3"	25	255	221
<b>110</b>	100	4"	30	306	265
<b>125-140</b>	125	5"	35	257	310
<b>160</b>	150	6"	40	408	354
<b>200-225</b>	200	8"	50	510	442
<b>250-280</b>	250	10"	80	816	708
<b>315</b>	300	12"	80	816	708

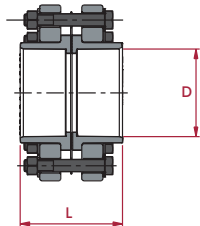
## UP. 52. RA - FLANGE KIT

#### Flange set (kit)

- Loose flange
- Female solvent socket
- Metric series

#### Enlace con bridas (kit)

- Brida loca
- Encolar hembra
- Serie métrica



D	DN	PN	REF. (EVA)	CODE (EVA)	REF. (EPDM)	CODE (EPDM)	L
20	15	16	05 52 020 RA	<b>66996</b>	05 52 020 RA EPDM	<b>67071</b>	
25	20	16	05 52 025 RA	<b>66997</b>	05 52 025 RA EPDM	<b>67072</b>	
32	25	16	05 52 032 RA	<b>66998</b>	05 52 032 RA EPDM	<b>67073</b>	
40	32	16	05 52 040 RA	<b>66999</b>	05 52 040 RA EPDM	<b>67074</b>	
50	40	16	05 52 050 RA	<b>67000</b>	05 52 050 RA EPDM	<b>67075</b>	74
63	50	16	05 52 063 RA	<b>67037</b>	05 52 063 RA EPDM	<b>67076</b>	87
75	65	16	05 52 075 RA	<b>67059</b>	05 52 075 RA EPDM	<b>67077</b>	100
90	80	16	05 52 090 RA	<b>67064</b>	05 52 090 RA EPDM	<b>67078</b>	115
110	100	16	05 52 110 RA	<b>67065</b>	05 52 110 RA EPDM	<b>67079</b>	136
125	16	16	05 52 125 RA	<b>67070</b>	05 52 125 RA EPDM	<b>67080</b>	152
140	125	16	05 52 140 RA	<b>67066</b>	05 52 140 RA EPDM	<b>67081</b>	170
160	150	10	05 52 160 RA	<b>67067</b>	05 52 160 RA EPDM	<b>67082</b>	186
200	10	10	05 52 200 RA	<b>67068</b>	05 52 200 RA EPDM	<b>67083</b>	227
225	200	10	05 52 225 RA	<b>67069</b>	05 52 225 RA EPDM	<b>67084</b>	255
250	10	10	05 52 250 RA	<b>66955</b>	05 52 250 RA EPDM	<b>66973</b>	
315	300	10	05 52 315 RA	<b>66956</b>	05 52 315 RA EPDM	<b>66974</b>	
400	400	6	-	-	05 52 400 RA EPDM	<b>66957</b>	
500	500	4	-	-	05 52 500 RA EPDM	<b>66958</b>	



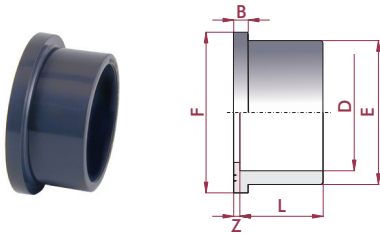
## UP. 10. SF - FLANGE ADAPTOR

### PVC-U flange adaptor (sub flange)

- Female solvent socket
- Metric series

### Manguito portabridas PVC-U

- Encolar hembra
- Serie métrica



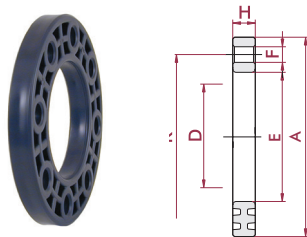
D	DN	PN	REF.	CODE
20	15	16	05 10 020 <sup>3</sup>	<b>07692</b>
25	20	16	05 10 025 <sup>3</sup>	<b>07693</b>
32	25	16	05 10 032 <sup>3</sup>	<b>07694</b>
40	32	16	05 10 040 <sup>3</sup>	<b>07695</b>
50	40	16	05 10 050 <sup>3</sup>	<b>02020</b>
63	50	16	05 10 063 <sup>3</sup>	<b>02021</b>
75	65	16	05 10 075 <sup>3</sup>	<b>02022</b>
90	80	16	05 10 090 <sup>3</sup>	<b>02023</b>
110	100	16	05 10 110 <sup>3</sup>	<b>02024</b>
125	110	16	05 10 125 <sup>3</sup>	<b>02025</b>
140	125	16	05 10 140 <sup>3</sup>	<b>02026</b>
160	150	10	05 10 160 <sup>3</sup>	<b>02027</b>
200	175	10	05 10 200	<b>02028</b>
225	200	10	05 10 225	<b>02029</b>
250	225	10	05 10 250	<b>02030</b>
315	300	10	05 10 315	<b>02031</b>
400	375	6	05 10 400*	<b>05341</b>
500	480	4	05 10 402*	<b>05342</b>

L	Z	B	E	F
16	3	6	27	34
19	3	7	33	41
22	3	7	41	50
26	3	8	50	61
31	3	8	61	73
38	3	9	76	90
44	3	10	90	106
51	5	11	108	125
61	5	12	131	150
69	5	13	148	168
76	5	14	165	188
86	5	16	188	213
106	6	20	225	247
119	6	25	248	274
131	8	27	282	328
164	8	30	342	378
206	12	30	432	483
153	8	24	532	574

## UP. 11. FLG - FLANGE

### PVC-U loose flange

### Brida loca PVC-U



D	DN	PN	REF.	CODE
20	15	16	05 11 020	<b>07696</b>
25	20	16	05 11 025	<b>07697</b>
32	25	16	05 11 032	<b>07698</b>
40	32	16	05 11 040	<b>07699</b>
50	40	16	05 11 050	<b>02032</b>
63	50	16	05 11 063	<b>02033</b>
75	65	16	05 11 075	<b>02034</b>
90	80	16	05 11 090	<b>02035</b>
110	100	16	05 11 110	<b>02036</b>
125	125	16	05 11 125	<b>02037</b>
140	125	16	05 11 140	<b>02038</b>
125 <sup>4</sup>		16	05 11 141 <sup>3</sup>	<b>02039</b>
160	150	10	05 11 160	<b>02040</b>
200		10	05 11 200	<b>02041</b>
225	200	10	05 11 225	<b>02042</b>
200 <sup>5</sup>		10	05 11 226 <sup>3</sup>	<b>09039</b>
250		10	05 11 250	<b>02043</b>
315	300	10	05 11 315	<b>02044</b>
400	400	6	05 11 400*	<b>05343</b>
500	500	4	05 11 402*	<b>05344</b>

E	A	H	K	F
28	95	12	65	14 x 4
34	105	13	75	14 x 4
42	115	15	85	14 x 4
51	140	16	100	18 x 4
62	150	17	110	18 x 4
78	165	18	125	18 x 4
92	185	22	145	18 x 4
110	200	23	160	18 x 8
133	220	24	180	18 x 8
150	230	26	190	18 x 8
167	250	28	210	18 x 8
150	250	28	210	18 x 8
190	285	31	240	22 x 8
226	315	32	270	22 x 8
250	340	32	295	22 x 8
226	340	32	295	22 x 8
284	400	34	350	22 x 12
348	445	36	400	22 x 12
442	565	34	515	26 x 16
533	657	30	600	26 x 20

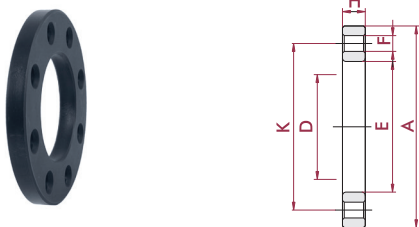
- <sup>4</sup> Hole distance corresponding to DN125 flange
- <sup>5</sup> Hole distance corresponding to DN200 flange

- <sup>4</sup> Brida con distancia entre agujeros correspondiente a la brida DN125
- <sup>5</sup> Brida con distancia entre agujeros correspondiente a la brida DN200

## PP. 12. FLG - PP FLANGE

### PP flange (backing ring)

### Brida PP



D	DN	PN	REF.	CODE
50	40	16	05 12 050	<b>02045</b>
63	50	16	05 12 063	<b>02046</b>
75	65	16	05 12 075	<b>02047</b>
90	80	16	05 12 090	<b>02048</b>
110	100	16	05 12 110	<b>02049</b>
125		16	05 12 125	<b>02050</b>
140	125	16	05 12 140	<b>02051</b>
125 <sup>4</sup>		16	05 12 141 <sup>3</sup>	<b>02052</b>
160	150	10	05 12 160	<b>02053</b>
200		10	05 12 200	<b>02054</b>
225	200	10	05 12 225	<b>02055</b>
200 <sup>5</sup>		10	05 12 226 <sup>3</sup>	<b>02056</b>

E	H	A	K	F
62	18	150	110	18 x 4
78	19	165	125	18 x 4
92	20	185	145	18 x 4
110	22	200	160	18 x 8
133	24	220	180	18 x 8
149	26	230	190	18 x 8
167	28	250	210	18 x 8
149	28	250	210	18 x 8
190	30	285	240	22 x 8
227	32	315	270	22 x 8
250	34	340	295	22 x 8
227	34	340	295	22 x 8

- <sup>4</sup> Hole distance corresponding to DN125 flange
- <sup>5</sup> Hole distance corresponding to DN200 flange

- <sup>4</sup> Brida con distancia entre agujeros correspondiente a la brida DN125
- <sup>5</sup> Brida con distancia entre agujeros correspondiente a la brida DN200

At the time to make the relationship between adaptor and flange, for the compatibility it prevails the D size of the corresponding pipe.  
Siempre que se deba relacionar manguito y brida, prevalece en su compatibilidad la medida D del tubo correspondiente.

\* Distributed product  
\* Producto comercializado

## PVC-U FIX FLANGES BRIDAS FIJAS PVC-U

• EN 1452 / ISO 15493 Flange System.  
• We recommend to follow flange installation instructions carefully to avoid any unnecessary tensions.

• Sistema de bridas EN 1452 / ISO 15493 .  
• Recomendamos seguir exactamente las normas de montaje de bridas con objeto de evitar tensiones innecesarias.

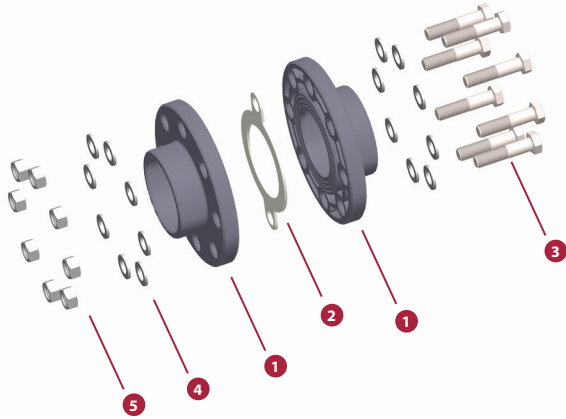
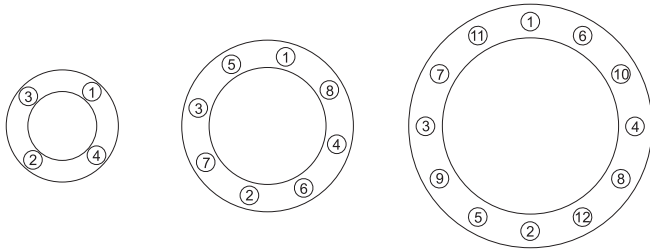


FIG.	Parts	Despiece	Material
1	Flange	Brida	PVC-U / PP
2	Flat gasket	Junta plana	EVA / EPDM
3	Screw DIN 931	Tornillo DIN 931	5,6 Zinc plated steel / A2 Stainless steel *
4	Washer DIN 125-A	Arandela DIN 125-A	
5	Nut DIN 934	Tuerca DIN 934	

\* On order A4 Stainless steel  
Bajo pedido acero inoxidable A4

### TIGHTENING SEQUENCE ORDEN DE APRIETE



\* Ask flange installation manual or website  
Consultar manual instalación bridas o website

D	2		1
	EVA	EPDM	PVC-U
20	✓	✓	✓
25	✓	✓	✓
32	✓	✓	✓
40	✓	✓	✓
50	✓	✓	✓
63	✓	✓	✓
75	✓	✓	✓
90	✓	✓	✓
110	✓	✓	✓
125	✓	✓	✓
140	✓	✓	✓
160	✓	✓	✓
200	✓	✓	✓
225	✓	✓	✓

### TIGHTENING MAXIMUM TORQUE MÁXIMO PAR DE APRIETE

D	DN	inch	N · m	Kgf · cm	inch · lbs
<b>63-75</b>	65	2 ½"	25	255	221
<b>90</b>	80	3"	25	255	221
<b>110</b>	100	4"	30	306	265
<b>125-140</b>	125	5"	35	257	310
<b>160</b>	150	6"	40	408	354
<b>200-225</b>	200	8"	50	510	442
<b>250-280</b>	250	10"	80	816	708
<b>315</b>	300	12"	80	816	708

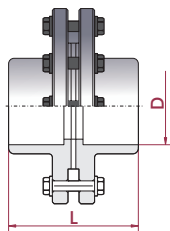
## UP. 52. SF - FLANGE KIT

### Flange set (kit)

- Fix flange
- Female solvent socket
- Metric series

### Enlace con bridas (kit)

- Brida fija
- Encolar hembra
- Serie métrica



D	DN	PN	REF. (EVA)	CODE (EVA)	REF. (EPDM)	CODE (EPDM)	L
20	15	16	05 52 020	<b>66949</b>	05 52 020 EPDM	<b>66959</b>	
25	20	16	05 52 025	<b>66950</b>	05 52 025 EPDM	<b>66960</b>	
32	25	16	05 52 032	<b>66951</b>	05 52 032 EPDM	<b>66961</b>	
40	32	16	05 52 040	<b>66952</b>	05 52 040 EPDM	<b>66962</b>	
50	40	16	05 52 050	<b>66953</b>	05 52 050 EPDM	<b>66963</b>	
63	50	16	05 52 063	<b>66954</b>	05 52 063 EPDM	<b>66964</b>	
75	65	16	05 52 075	<b>02371</b>	05 52 075 EPDM	<b>66965</b>	97
90	80	16	05 52 090	<b>02372</b>	05 52 090 EPDM	<b>66966</b>	115
110	100	16	05 52 110	<b>02373</b>	05 52 110 EPDM	<b>66967</b>	136
125	110	16	05 52 125	<b>02374</b>	05 52 125 EPDM	<b>66968</b>	152
140	125	16	05 52 140	<b>02375</b>	05 52 140 EPDM	<b>66969</b>	166
160	150	10	05 52 160	<b>02376</b>	05 52 160 EPDM	<b>66970</b>	186
200	175	10	05 52 200	<b>02377</b>	05 52 200 EPDM	<b>66971</b>	227
225	200	10	05 52 225	<b>02378</b>	05 52 225 EPDM	<b>66972</b>	255

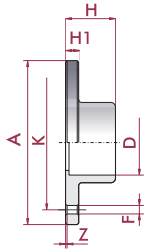
## UP. 25. FLG - STUB AND BACKING RING

**PVC-U fix flange (stub & backing ring)**

- Female solvent socket
- Metric series

**Brida fija PVC-U**

- Encolar hembra
- Serie métrica



<sup>4</sup> Hole distance corresponding to DN125 flange

<sup>4</sup> Brida con distancia entre agujeros correspondiente a la brida DN125

D	DN	PN	REF.	CODE
20	15	16	05 25 020 *	<b>22575</b>
25	20	16	05 25 025 *	<b>22576</b>
32	25	16	05 25 032 *	<b>22577</b>
40	32	16	05 25 040 *	<b>22578</b>
50	40	16	05 25 050 *	<b>22579</b>
63	50	16	05 25 063 *	<b>22580</b>
75	65	16	05 25 075	<b>02226</b>
90	80	16	05 25 090	<b>02227</b>
110	100	16	05 25 110	<b>02228</b>
125		16	05 25 125	<b>02229</b>
125 <sup>4</sup>		16	05 25 126 <sup>3</sup>	<b>02234</b>
140	125	16	05 25 140	<b>02230</b>
160	150	10	05 25 160	<b>02231</b>
200		10	05 25 200	<b>02232</b>
225	200	10	05 25 225	<b>02233</b>

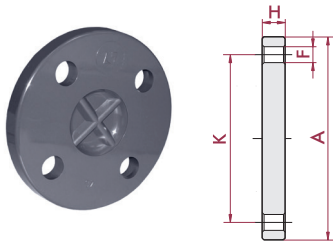
H	H1	Z	A	K	F
20	13	4	95	65	14 x 4
23	14	4	105	75	14 x 4
26	16	4	115	85	14 x 4
30	17	4	142	100	18 x 4
35	18	4	152	110	18 x 4
42	20	4	165	125	18 x 4
47	19	3	185	145	18 x 4
56	22	5	200	160	18 x 8
66	23	5	220	180	18 x 8
74	26	5	230	190	18 x 8
74	26	5	250	210	18 x 8
81	28	5	250	210	18 x 8
91	30	5	285	240	22 x 8
112	30	6	315	270	22 x 8
125	33	6	340	295	22 x 8

\* Distributed product  
\* Producto comercializado

UP. 37. FLG - BLIND FLANGE

PVC-U blind flange

Brida ciega PVC-U



<sup>5</sup> Hole distance corresponding to DN200 flange

<sup>5</sup> Brida con distancia entre agujeros correspondiente a la brida DN200

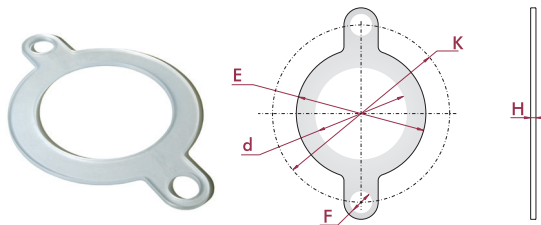
D	DN	PN	REF.	CODE
20	15	16	05 37 020 *	22561
25	20	16	05 37 025 *	22562
32	25	16	05 37 032 *	22563
40	32	16	05 37 040 *	22564
50	40	16	05 37 050 *	22565
63	50	16	05 37 063 *	22566
75	65	16	05 37 075 *	22567
90	80	16	05 37 090 *	22568
110	100	16	05 37 110 *	22569
125	16		05 37 125 *	22570
140	125	16	05 37 140 *	22571
160	150	10	05 37 160 *	22572
200 <sup>5</sup>		10	05 37 200 <sup>5</sup> *	22573
225	200	10	05 37 225 *	22574

H	A	K	F
11	95	65	14 x 4
12	105	75	14 x 4
14	115	85	14 x 4
15	142	100	18 x 4
16	152	110	18 x 4
18	165	125	18 x 4
19	185	145	18 x 4
20	200	160	18 x 8
22	220	180	18 x 8
24	230	190	18 x 8
26	250	210	18 x 8
28	285	240	22 x 8
30	340	295	22 x 8
30	340	295	22 x 8

EVA. 14 - FLAT GASKET

EVA flat gasket  
• Metric series

Junta plana EVA  
• Serie métrica



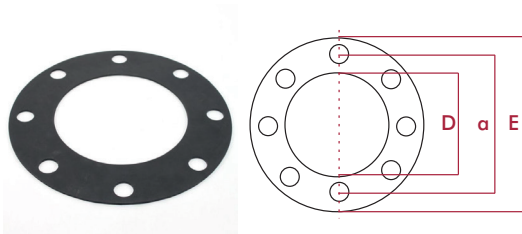
D	DN	REF.	CODE
20	15	05 14 020	07700
25	20	05 14 025	07701
32	25	05 14 032	07702
40	32	05 14 040	07703
50	40	05 14 050	02061
63	50	05 14 063	02062
75	65	05 14 075	02063
90	80	05 14 090	02064
110	100	05 14 110	02065
125		05 14 125	02066
140	125	05 14 140	02067
160	150	05 14 160	02068
200		05 14 200	02069
225	200	05 14 225	02070
250		05 14 250	02071
315	300	05 14 315	02072

d	E	H	K	F
20	32	2	65	14
25	39	2	75	14
32	48	2	85	14
40	59	2	100	18
50	71	3	110	18
63	88	3	125	18
75	104	3	145	18
90	123	3	160	18
110	148	4	180	18
125	166	4	190	18
140	186	4	210	18
160	211	4	240	22
200	245	5	270	22
225	275	5	295	22
250	328	3	350	22
315	378	3	400	22

PDM. 14 - FLAT GASKET

EPDM flat gasket  
• Metric series

Junta plana EPDM  
• Serie métrica



D	DN	REF.	CODE
20	15	05 14 020 EPDM *	66933
25	20	05 14 025 EPDM *	66934
32	25	05 14 032 EPDM *	66935
40	32	05 14 040 EPDM *	66936
50	40	05 14 050 EPDM *	66937
63	50	05 14 063 EPDM *	66938
75	65	05 14 075 EPDM *	66939
90	80	05 14 090 EPDM *	66940
110	100	05 14 110 EPDM *	66941
125		05 14 125 EPDM *	66942
140	125	05 14 140 EPDM *	66943
160	150	05 14 160 EPDM *	66944
200		05 14 200 EPDM *	66945
225	200	05 14 225 EPDM *	66946
250		05 14 250 EPDM *	66947
315	300	05 14 315 EPDM *	66948
400	353	05 14 400 EPDM *	05345
500	475	05 14 402 EPDM *	05346


H	E	a	F
2,5	93	34	16 x 4
2,5	103	41	19 x 4
2,5	115	50	22 x 4
2,5	140	100	20 x 4
2,5	150	110	20 x 4
2,5	165	125	20 x 4
2,5	185	145	20 x 4
2,5	200	160	20 x 8
2,5	220	180	20 x 8
2,5	245	210	20 x 8
2,5	250	210	20 x 8
2,5	285	240	22 x 8
2,5	335	295	22 x 8
2,5	340	295	22 x 8
2,5	395	350	22 x 12
2,5	440	400	22 x 12
2,5	565	515	22 x 16
2,5	660	620	25 x 20

\* Distributed product  
\* Producto comercializado

## BOLTS TORNILLERÍA

Required bolt size depending on each application of the flange:  
butterfly valve, coupling or swing check valve.

Modelo y tamaño necesario de tornillería para cada una de las aplicaciones  
de la brida: válvula de mariposa, enlace o válvula de clapeta.



Flange set (loose flange)  
*Enlace bridas (brida loca)*


Industrial ball valve with loose flanges  
*Válvula de bola Industrial con bridas locas*

FLANGE SIZE	SCREW SIZE	UNITS	CODE	CODE
			5,6 zinc plated steel	A2 stainless steel
D20, D25	M12 x 60	4	16061	60515
D32	M12 x 60	4	16061	60515
D40	M16 x 70	4	02437	60516
D50	M16 x 80	4	02437	60516
D63	M16 x 80	4	02438	60517
D75	M16 x 90	4	02439	60518
D90	M16 x 90	8	02439	60518
D110	M16 x 100	8	66775	66783
D125	M16 x 110	8	66776	66784
D140	M16 x 120	8	02440	60519
D160	M20 x 130	8	66778	66786
D200	M20 x 140	8	66779	66787
D225	M20 x 140	8	66779	66787
D250	M20 x 140	12	66779	66787
D280	M20 x 150	12	66780	66788
D315	M20 x 160	12	02448	60535
D400	M24 x 160	12	66782	66790
D500	M24 x 140	12	66781	66789




Flange set (fix flange)  
*Enlace bridas (brida fija)*

FLANGE SIZE	SCREW SIZE	UNITS	CODE	CODE
			5,6 zinc plated steel	A2 stainless steel
D20, D25	M 12 x 60	4	16061	60515
D32	M 12 x 60	4	16061	60515
D40	M 16 x 70	4	02437	60516
D50	M 16 x 70	4	02437	60516
D63	M 16 x 70	4	02437	60516
D75	M 16 x 70	4	02437	60516
D90	M 16 x 70	8	02437	60516
D110	M 16 x 80	8	02438	60517
D125	M 16 x 80	8	02438	60517
D140	M 16 x 90	8	02439	60518
D160	M 20 x 90	8	02446	60533
D200	M 20 x 110	8	02447	60534
D225	M 20 x 110	8	02447	60534




Butterfly valve (loose flange)  
*Válvula mariposa (brida loca)*

FLANGE SIZE	SCREW SIZE	UNITS	CODE	CODE
			5,6 zinc plated steel	A2 stainless steel
D63	M 16 x 120	4	02440	60519
D75	M 16 x 140	4	02442	60526
D90	M 16 x 150	8	02443	60527
D110	M 16 x 160	8	02444	60528
D125	M 16 x 170	8	02445	60529
D140	M 16 x 170	8	02445	60529
D160	M 20 x 200	8	20263	60538
D200	M 20 x 210	8	02451	60539
D225	M 20 x 230	8	02452	60547
D250	M 20 x 270	12	07721	60548
D280	M 20 x 270	12	07721	60548
D315	M 20 x 310	12	07722	60549



Butterfly valve (fix flange)  
*Válvula mariposa (brida fija)*

FLANGE SIZE	SCREW SIZE	UNITS	CODE	CODE
			5,6 zinc plated steel	A2 stainless steel
D63	M 16 x 120	4	02440	60519
D75	M 16 x 120	4	02440	60519
D90	M 16 x 130	8	02441	60525
D110	M 16 x 130	8	02441	60625
D125	M 16 x 140	8	02442	60526
D140	M 16 x 150	8	02443	60527
D160	M 20 x 160	8	02448	60535
D200	M 20 x 180	8	02449	60536
D225	M 20 x 190	8	02450	60537



Swing check valve (loose flange)  
*Válvula de clapeta (brida loca)*

FLANGE SIZE	SCREW SIZE	UNITS	CODE	CODE
			5,6 zinc plated steel	A2 stainless steel
D75	M 16 x 120	4	02440	60519
D90	M 16 x 120	8	02440	60519
D110	M 16 x 120	8	02440	60519
D125	M 16 x 130	8	02441	60525
D140	M 16 x 130	8	02441	60525
D160	M 20 x 160	8	02448	60535
D200	M 20 x 180	8	02448	60535
D225	M 20 x 180	8	02449	60536
D250	M 20 x 210	12	02451	60539
D315	M 20 x 230	12	02452	60547

\* Valid for Industrial, Standard and Classic Series

\* Válido para Serie Industrial, Standard y Classic

## PVC-U UNIONS ENLACES 3 PIEZAS PVC-U

Unions are the preferred choice over flange adaptors for the connection of plastic pipes. With no metal parts, there is no corrosion and the weight is also reduced.

They are only available in small sizes (up until D110).

The union ends are manufactured in plain ends for solvent socket or thread always according the sizing standards, doing this system appropriate to adapt to other elements or systems. Cepex unions feature an o-ring in order to ensure better unions, so it is not needed the use of PTFE tape between nut and union end (it is only needed in the threaded ends).

They are not recommended when connected to pipe under bending stress.

The union nut should be tightened by hand. Must use a strap wrench for big sizes (D75, D90, D110).

With this type of unions, it is possible to mix several plastic materials.

Cuando hay que unir plásticos, éstos son preferidos a las bridas, ya que no contienen ninguna parte de metal y el diámetro exterior es más reducido.

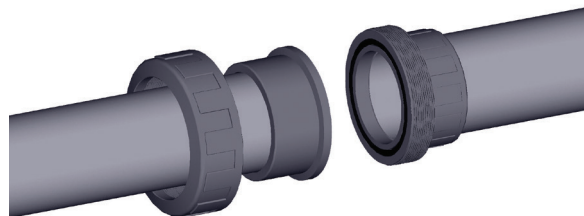
En contrapartida sólo están disponibles para diámetros pequeños (hasta D110).

Los manguitos de conexión están fabricados en terminaciones lisas de encolado o roscadas, siempre bajo normativas standards, haciendo posible la adaptación a otros componentes (incluso de materiales distintos).

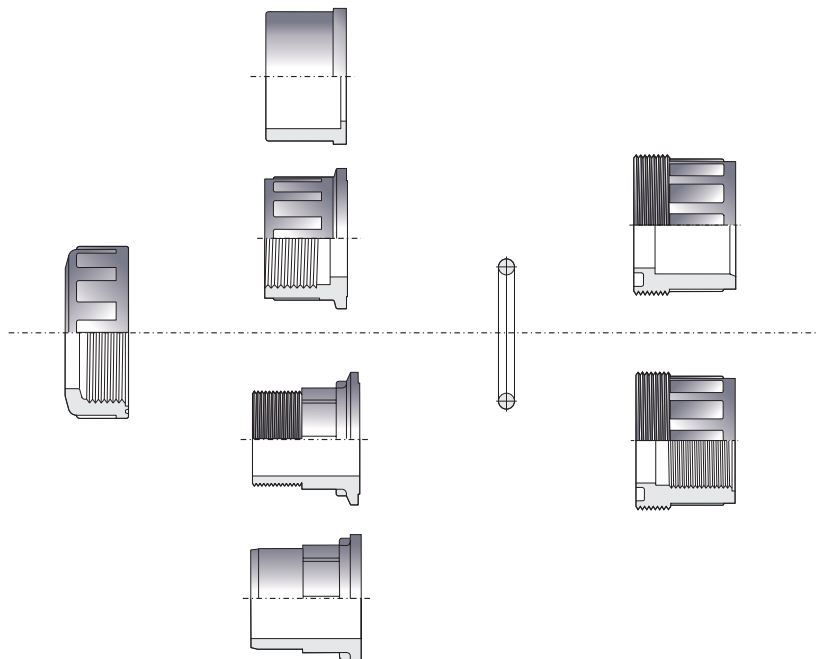
Los enlaces 3 piezas Cepex incorporan junta para asegurar estanqueidad entre los dos manguitos de la unión, por lo que no debe usarse cinta de PTFE entre tuerca y manguito (usar cinta de PTFE solamente en las terminaciones de manguito roscadas). No son recomendables cuando el tubo tenga que estar sometido a fuerza de flexión (debido a posibles desalineaciones).

No es necesario el uso de ninguna herramienta, se rosca con las manos. Usar llave de cinta en diámetros grandes (D75, D90, D110).

Mediante estos enlaces, se pueden combinar diferentes tipos de plásticos.



## CONNECTION POSSIBILITIES POSIBILIDADES DE CONEXIÓN



### Available standards

Solvent socket: metric, BS, ASTM  
Threaded: BSP, NPT

### Standards disponibles

Encolar: métrico, BS, ASTM  
Roscar: BSP, NPT

Ask for other types of unions or other materials (PP, PE100...)  
Consultar otros tipos de conexión o materiales (PP, PE100...)

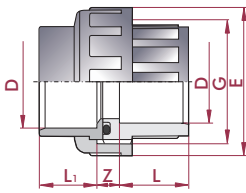
## UP. 50. SF - UNION

### Union

- Female solvent socket
- Metric series
- EPDM o-ring

### Enlace 3 piezas

- Encolar hembra
- Serie métrica
- Anillo tórico en EPDM



D	DN	PN	REF.	CODE
16	12	16	05 50 016	<b>20157</b>
20	15	16	05 50 020	<b>02327</b>
25	20	16	05 50 025	<b>02328</b>
32	25	16	05 50 032	<b>02329</b>
40	32	16	05 50 040	<b>02330</b>
50	40	16	05 50 050	<b>02331</b>
63	50	16	05 50 063	<b>02332</b>
75	65	10	05 50 075	<b>02333</b>
90	80	10	05 50 090	<b>02334</b>
110	100	10	05 50 110	<b>02335</b>

L	L <sub>1</sub>	Z	G	E	o-ring
14	14	13	¾"	34	15,5 x 2,6
16	16	13	1"	41	20,2 x 3,5
19	19	13	1¼"	52	28,2 x 3,5
22	22	13	1½"	60	32,9 x 3,5
26	26	15	2"	74	40,6 x 5,3
31	31	17	2¼"	80	47,0 x 5,3
38	38	21	2¾"	99	59,7 x 5,3
44	44	21	3½"	120	75,6 x 5,3
51	51	24	4"	138	91,4 x 5,3
61	61	26	5½"	179	110,5x5,3

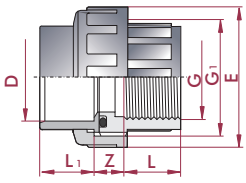
## UP. 50. SFT - UNION ADAPTOR

### Union adaptor

- Female solvent socket x BSP female thread
- Metric series
- EPDM o-ring

### Enlace 3 piezas mixto

- Encolar hembra x rosca hembra BSP
- Serie métrica
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
16 x ¾"	12	10	05 50 416	<b>20158</b>
20 x ½"	15	10	05 50 420	<b>02336</b>
25 x ¾"	20	10	05 50 425	<b>02337</b>
32 x 1"	25	10	05 50 432	<b>02338</b>
40 x 1¼"	32	10	05 50 440	<b>02339</b>
50 x 1½"	40	10	05 50 450	<b>02340</b>
63 x 2"	50	10	05 50 463	<b>02341</b>
75 x 2½"	65	10	05 50 475	<b>02342</b>
90 x 3"	80	10	05 50 490	<b>02343</b>
110 x 4"	100	10	05 50 510	<b>02344</b>

L	L <sub>1</sub>	Z	G <sub>1</sub>	E	o-ring
14	14	13	¾"	34	15,5 x 2,6
16	16	13	1"	41	20,2 x 3,5
19	19	13	1¼"	52	28,2 x 3,5
22	22	13	1½"	60	32,9 x 3,5
26	26	15	2"	74	40,6 x 5,3
31	31	17	2¼"	80	47,0 x 5,3
38	38	21	2¾"	99	59,7 x 5,3
44	44	21	3½"	120	75,6 x 5,3
51	51	24	4"	138	91,4 x 5,3
61	61	26	5½"	179	110,5x5,3

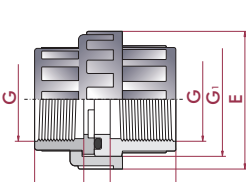
## UP. 50. FT - UNION

### Union

- BSP female thread
- EPDM o-ring

### Enlace 3 piezas

- Rosca hembra BSP
- Anillo tórico en EPDM



G	DN	PN	REF.	CODE
¾"	12	10	05 50 616	<b>20159</b>
½"	15	10	05 50 620	<b>02345</b>
¾"	20	10	05 50 625	<b>02346</b>
1"	25	10	05 50 632	<b>02347</b>
1¼"	32	10	05 50 640	<b>02348</b>
1½"	40	10	05 50 650	<b>02349</b>
2"	50	10	05 50 663	<b>02350</b>
2½"	65	10	05 50 675	<b>07713</b>
3"	80	10	05 50 690	<b>07714</b>
4"	100	10	05 50 710	<b>07715</b>

L	L <sub>1</sub>	Z	G <sub>1</sub>	E	o-ring
14	12	13	¾"	34	15,5 x 2,6
16	15	12	1"	41	20,2 x 3,5
19	17	12	1¼"	52	28,2 x 3,5
22	20	14	1½"	60	32,9 x 3,5
26	24	16	2"	74	40,6 x 5,3
31	25	18	2¼"	80	47,0 x 5,3
38	29	20	2¾"	99	59,7 x 5,3
44	34	21	3½"	120	75,6 x 5,3
51	37	24	4"	138	91,4 x 5,3
61	42	26	5½"	179	110,5x5,3

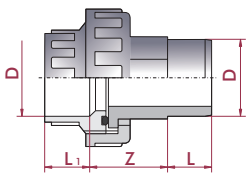
## UP. 51. SMF - UNION

### Union

- Male x female solvent socket
- Metric series
- EPDM o-ring

### Enlace 3 piezas

- Encolar macho x hembra
- Serie métrica
- Anillo tórico en EPDM



D	DN	PN	REF.	CODE
50	40	10	05 51 050	<b>02351</b>
63	50	10	05 51 063	<b>02352</b>

L	L <sub>1</sub>	Z
31	31	48
38	38	62

FPM o-rings available upon request.  
Juntas en FPM disponibles bajo pedido.



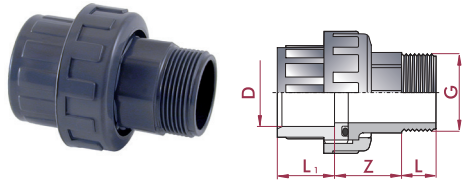
## UP. 51. SMT - UNION ADAPTOR

### Union adaptor

- Female solvent socket x BSP male thread
- Metric series
- EPDM o-ring

### Enlace 3 piezas mixto

- Encolar hembra x roscar macho BSP
- Serie métrica
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
16 x 3/8"	12	10	05 51 416	<b>20160</b>
20 x 1/2"	15	10	05 51 420	<b>02353</b>
25 x 3/4"	20	10	05 51 425	<b>02354</b>
32 x 1"	25	10	05 51 432	<b>02355</b>
40 x 1 1/4"	32	10	05 51 440	<b>02356</b>
50 x 1 1/2"	40	10	05 51 450	<b>02357</b>
63 x 2"	50	10	05 51 463	<b>02358</b>
75 x 2 1/2"	65	10	05 51 475	<b>02359</b>
90 x 3"	80	10	05 51 490	<b>02360</b>
110 x 4"	100	10	05 51 510	<b>02361</b>

L <sub>1</sub>	L	Z
14	12	29
16	15	33
19	16	35
22	19	40
26	21	40
31	21	48
38	28	62
44	30	70
51	33	62
61	40	70

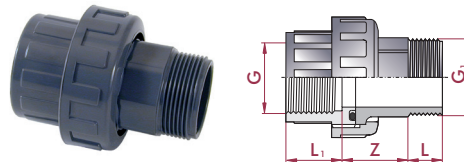
## UP. 51. MFT - UNION

### Union

- BSP female x male thread
- EPDM o-ring

### Enlace 3 piezas

- Roscar hembra x macho BSP
- Anillo tórico en EPDM



G x G <sub>1</sub>	DN	PN	REF.	CODE
3/8" x 3/8"	12	10	05 51 616	<b>20161</b>
1/2" x 1/2"	15	10	05 51 620	<b>02362</b>
3/4" x 3/4"	20	10	05 51 625	<b>02363</b>
1" x 1"	25	10	05 51 632	<b>02364</b>
1 1/4" x 1 1/4"	32	10	05 51 640	<b>02365</b>
1 1/2" x 1 1/2"	40	10	05 51 650	<b>02366</b>
2" x 2"	50	10	05 51 663	<b>02367</b>
2 1/2" x 2 1/2"	65	10	05 51 675	<b>02368</b>
3" x 3"	80	10	05 51 690	<b>02369</b>
4" x 4"	100	10	05 51 710	<b>02370</b>

L <sub>1</sub>	L	Z
14	12	30
16	15	33
19	16	35
22	19	40
26	21	40
31	21	48
38	28	62
44	30	70
51	33	62
61	40	70

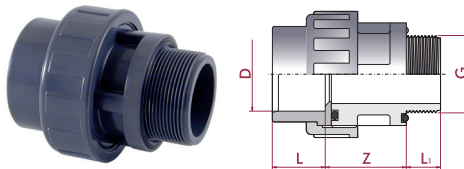
## UP. 51. SMT2 - UNION ADAPTOR

### Union adaptor

- Female solvent socket x BSP male thread
- Metric series
- EPDM o-ring

### Enlace 3 piezas mixto

- Encolar hembra x roscar macho BSP
- Serie métrica
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
50 x 1 1/2"	40	10	05 51 250	<b>07716</b>
50 x 2"	40	10	05 51 251	<b>26638</b>
63 x 2"	50	10	05 51 263	<b>07717</b>

L	L <sub>1</sub>	Z
31	21	49
31	26	46
38	26	51

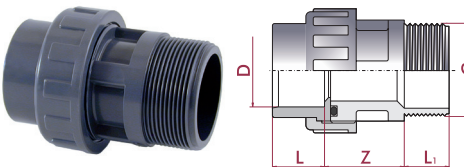
## UP. 51. SFMT - UNION

### Union adaptor

- Female solvent socket x BSP male thread
- Metric series
- EPDM o-ring

### Enlace 3 piezas mixto

- Encolar hembra x roscar macho BSP
- Serie métrica
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
50 x 2"	40	10	05 51 451	<b>09033</b>

L	L <sub>1</sub>	Z
31	28	49

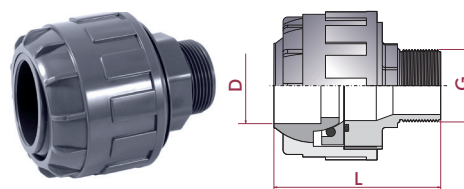
## UP. 57. SFMT - SELF-ALIGN UNION

### Self-align union

- Max. misalignment ±4°
- Female solvent socket x BSP male thread
- Metric series

### Manguito orientable

- Desalineación max. ±4°
- Encolar hembra x roscar macho BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
50 x 1 1/2"	40	10	05 57 550	<b>18874</b>

L
110



## FITTINGS FOR UNIONS ACCESORIOS ENLACES 3 PIEZAS

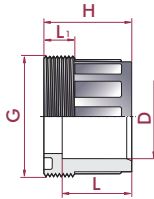
### UP. 21. SFMT - ADAPTOR BUSH UNION

**Adaptor union bush**

- Female solvent socket x BSP male thread
- Metric series

**Manguito enlace mixto**

- Encolar hembra x roscar macho BSP
- Serie métrica



D x G	DN	PN	REF.	CODE
20 x 1"	15	10	05 21 420	<b>02148</b>
25 x 1¼"	20	10	05 21 425	<b>02150</b>
32 x 1½"	25	10	05 21 432	<b>02151</b>
40 x 2"	32	10	05 21 440	<b>02153</b>
50 x 2½"	40	10	05 21 450	<b>02154</b>
63 x 2¾"	50	10	05 21 463	<b>02156</b>
75 x 3½"	65	10	05 21 475	<b>02157</b>
90 x 4"	80	10	05 21 490	<b>02158</b>
110 x 5½"	100	10	05 21 510	<b>02159</b>

L	L <sub>1</sub>	H
16	10	26
19	11	29
22	12	32
28	15	39
31	16	46
38	18	56
44	18	62
51	18	69
61	31	79

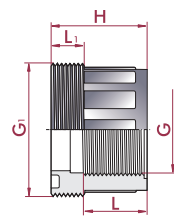
### UP. 21. MFT - UNION BUSH

**Union bush**

- BSP male x female thread

**Manguito enlace**

- Roscar macho x hembra BSP



G <sub>1</sub> x G	DN	PN	REF.	CODE
1" x ½"	15	10	05 21 620	<b>02160</b>
1¼" x ¾"	20	10	05 21 625	<b>02162</b>
1½" x 1"	25	10	05 21 632	<b>02163</b>
2" x 1¼"	32	10	05 21 640	<b>02165</b>
2¼" x 1½"	40	10	05 21 650	<b>02166</b>
2¾" x 2"	50	10	05 21 663	<b>02168</b>
3½" x 2½"	65	10	05 21 675	<b>02169</b>
4" x 3"	80	10	05 21 690	<b>02170</b>
5½" x 4"	100	10	05 21 710	<b>02171</b>

L	L <sub>1</sub>	H
16	10	26
19	11	29
22	12	32
30	15	39
31	16	46
38	18	56
44	18	62
51	18	69
61	31	79

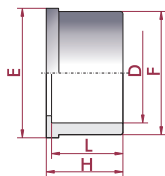
### UP. 22. SF - UNION END

**Union end**

- Female solvent socket
- Metric series

**Manguito enlace**

- Encolar hembra
- Serie métrica



D	DN	PN	REF.	CODE
16	10	16	05 22 016	<b>20229</b>
20	15	16	05 22 020	<b>02172</b>
25	20	16	05 22 025	<b>02173</b>
32	25	16	05 22 032	<b>02174</b>
40	32	16	05 22 040	<b>02175</b>
50	40	16	05 22 050	<b>02176</b>
63	50	16	05 22 063	<b>02177</b>
75	65	16	05 22 075	<b>02178</b>
90	80	16	05 22 090	<b>02179</b>
110	100	16	05 22 110	<b>02180</b>

L	E	H	F
14	24	17	22
16	30	19	27
19	39	22	36
22	45	25	41
26	56	29	53
31	63	34	59
38	78	41	74
44	97	47	92
51	110	56	105
61	147	66	131

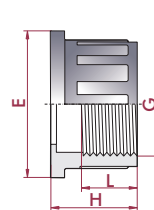
### UP. 22. FT - UNION END

**Union end**

- BSP female thread
- Metric series

**Manguito enlace**

- Roscar hembra
- Serie métrica



G	DN	PN	REF.	CODE
¾"	10	10	05 22 616	<b>20230</b>
½"	15	10	05 22 620	<b>16310</b>
¾"	20	10	05 22 625	<b>16311</b>
1"	25	10	05 22 632	<b>16312</b>
1¼"	32	10	05 22 640	<b>16313</b>
1½"	40	10	05 22 650	<b>16314</b>
2"	50	10	05 22 663	<b>16315</b>
2½"	65	10	05 22 675	<b>16316</b>
3"	80	10	05 22 690	<b>16317</b>
4"	100	10	05 22 710	<b>16318</b>

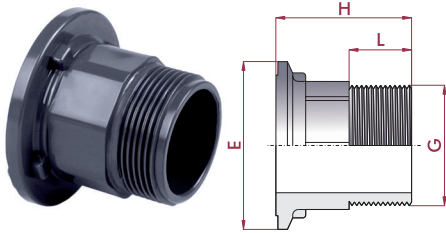
L	H	E
12	17	24
15	21	30
17	23	39
20	26	45
24	30	56
25	35	63
29	42	78
34	48	97
37	57	110
42	69	146

**UP. 22. MT - UNION END**
**Union end**

- BSP male thread

**Manguito**

- Roscar macho BSP



G	PN	REF.	CODE
3/8"	10	05 22 416	<b>25959</b>
1/2"	10	05 22 420	<b>25960</b>
3/4"	10	05 22 425	<b>25961</b>
1"	10	05 22 432	<b>25962</b>
1 1/4"	10	05 22 440	<b>25963</b>
1 1/2"	10	05 22 450	<b>25964</b>
2"	10	05 22 463	<b>25965</b>
2 1/2"	10	05 22 475	<b>25966</b>
3"	10	05 22 490	<b>25967</b>
4"	10	05 22 510	<b>25968</b>

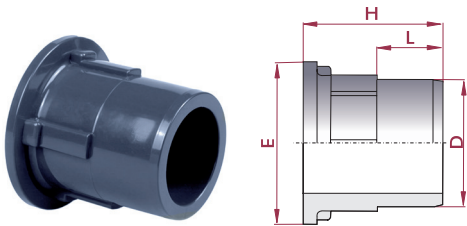
L	H	E
12	33	24
15	38	30
16	41	39
19	48	45
21	50	57
21	57	63
28	70	78
30	72	97
33	77	110
40	98	147

**UP. 22. SM - UNION END**
**Union end**

- Male solvent socket
- Metric series

**Manguito**

- Encolar macho
- Serie métrica



D	PN	REF.	CODE
50	16	05 22 250	<b>25957</b>
63	16	05 22 263	<b>25958</b>

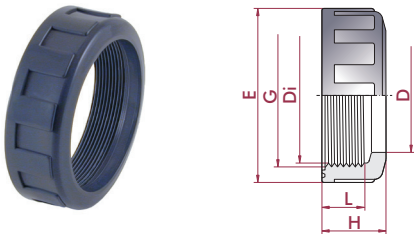
L	H	E
31	66	63
38	80	78

**UP. 23. FT - UNION NUT**
**Union nut**

- BSP female thread

**Tuerca**

- Roscar hembra BSP



G	PN	REF.	CODE
3/4" (3/4")	10	05 23 625	<b>02187</b>
1" (1/2")	10	05 23 632	<b>02188</b>
1 1/4" (3/4")	10	05 23 640	<b>02189</b>
41,5	10	05 23 641	<b>02190</b>
1 1/2" (1")	10	05 23 650	<b>02191</b>
2" (1 1/4")	10	05 23 663	<b>02192</b>
2 1/4" (1 1/2")	10	05 23 664	<b>02193</b>
2"	10	05 23 665	<b>02194</b>
2 1/2"	10	05 23 675	<b>02195</b>
2 3/4" (2")	10	05 23 676	<b>02196</b>
3 1/2" (2 1/2")	10	05 23 692	<b>02197</b>
4" (3")	10	05 23 710	<b>02198</b>
5 1/2" (4")	10	05 23 741	<b>02199</b>

L	H	E	D	Di
15	20	36	22	24
15	20	41	27	30
16	22	52	36	39
12	18	53	33	39
20	26	60	41	45
21	26	74	53	57
22	30	80	59	63
19	28	70	46	54
18	27	90	64	72
28	36	99	74	78
28	36	120	92	97
28	38	133	105	110
41	56	177	131	148

The size of the corresponding union is indicated in brackets.

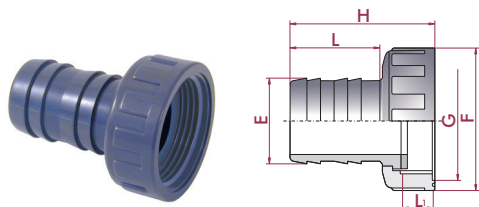
Entre paréntesis se indica la medida del enlace 3 piezas correspondiente.

## PVC-U SPIGOTS ENLACES ESPIGA PVC-U

### UP. 55. SPI - SPIGOT UNION

Spigot and nut union

Conjunto espiga y tuerca



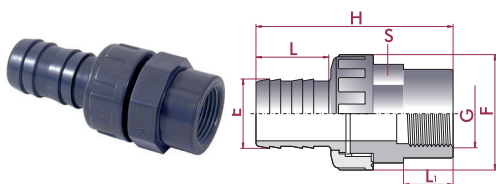
E x G	REF.	CODE
16 x 3/4"	05 55 016	<b>02399</b>
18 x 3/4"	05 55 018	<b>02400</b>
20 x 3/4"	05 55 020	<b>02401</b>
25 x 1"	05 55 025	<b>02402</b>
20 x 1"	05 55 026	<b>15764</b>
30 x 1 1/4"	05 55 032	<b>02403</b>
40 x 1 1/2"	05 55 040	<b>02404</b>
50 x 2"	05 55 050	<b>02405</b>
38 x 2"	05 55 051	<b>02406</b>
60 x 2 1/2"	05 55 063	<b>02407</b>

H	F	L	L <sub>1</sub>
46	36	35	10
46	36	35	10
49	36	38	10
56	41	42	10
51	41	36	10
66	52	47	10
73	60	52	14
82	74	57	14
82	74	57	14
88	90	60	18

### UP. 55. SPIFT - SPIGOT UNION

Spigot union female threaded

Enlace espiga rosca hembra



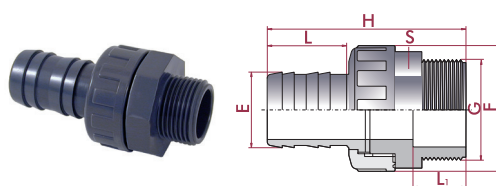
E x G	REF.	CODE
16 x 3/4"	05 55 416	<b>02408</b>
18 x 1/2"	05 55 418	<b>02409</b>
20 x 1/2"	05 55 420	<b>02410</b>
25 x 3/4"	05 55 425	<b>02411</b>
30 x 1"	05 55 432	<b>02412</b>
40 x 1 1/4"	05 55 440	<b>02413</b>
50 x 1 1/2"	05 55 450	<b>02414</b>
38 x 1 1/2"	05 55 451	<b>02415</b>
60 x 2"	05 55 463	<b>02416</b>

H	F	S	L	L <sub>1</sub>
66	36	32	35	14
70	36	32	35	18
73	36	32	38	18
81	41	36	42	19
98	52	46	47	25
106	61	55	52	25
116	74	65	57	25
116	74	65	57	25
127	90	80	60	29

### UP. 55. SPIMT - SPIGOT UNION

Spigot union male threaded

Enlace espiga rosca macho



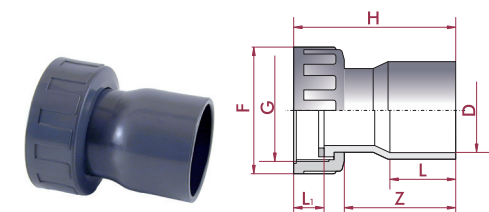
E x G	REF.	CODE
16 x 3/4"	05 55 616	<b>02417</b>
18 x 1/2"	05 55 618	<b>02418</b>
20 x 1/2"	05 55 620	<b>02419</b>
25 x 3/4"	05 55 625	<b>02420</b>
30 x 1"	05 55 632	<b>02421</b>
40 x 1 1/4"	05 55 640	<b>02422</b>
50 x 1 1/2"	05 55 650	<b>02423</b>
38 x 1 1/2"	05 55 651	<b>02424</b>
60 x 2"	05 55 663	<b>02425</b>

H	F	S	L	L <sub>1</sub>
66	36	32	35	14
70	36	32	35	18
73	36	32	38	18
81	41	36	42	19
98	52	46	47	25
106	61	55	52	25
116	74	65	57	25
116	74	65	57	25
127	90	80	60	29

### UP. 56. SF - FITTING CONNECTION

Fitting connection  
• Female solvent socket  
• Metric series

Conjunto raccord conexión  
• Encolar hembra  
• Serie métrica



D x G	PN	REF.	CODE
40 x 2"	16	05 56 440	<b>05350</b>
50 x 1 1/2"	16	05 56 451	<b>75937</b>
50 x 2"	16	05 56 450	<b>75938</b>

L	Z	H	F	L <sub>1</sub>
26	16	46	75	17
32	64	91	60	13
32	64	103	75	17

## PVC-U MANIFOLD FITTINGS

### COLECTORES PVC-U

- Manifold fittings specially designed for the fast connection of 1" threaded elements, like electric valves assemblies, water supply, etc.
- Allowing fast and trouble-free installations.
- Available sizes: 1"
- Material: PVC-U
- PN 10 (150 psi)

Most irrigation systems need multiple watering stations, either for small residential areas, large landscapes or agriculture areas. At home one might have separate stations for the lawn and flower beds or there may not be enough water to irrigate the whole garden at the same time. This is when a series of valves is required.

These valves need to be connected together to the same source of water. The older ways were to create a manifold with costly galvanised metal or permanent assemblies.

Now with Cepex manifold fittings the job can be done:

- easier: no tools are required
- quicker: all parts are made to fit into each other
- more flexible: easy to change once assembled

- Accesorios colectores especialmente diseñados para la conexión rápida de elementos roscados de 1", tales como instalaciones con electroválvulas, suministro de agua, etc.
- Permiten realizar instalaciones con total facilidad y rapidez.
- Medidas disponibles: 1"
- Material: PVC-U
- PN 10 (150 psi)

La mayoría de sistemas de riego, ya sean pequeños para riego residencial o de mayores dimensiones para riego de zonas verdes o agrícola, requieren del uso de múltiples estaciones de riego.

En casa, es probable disponer de estaciones separadas para el césped y para las plantas, o puede no estar disponible la suficiente agua para regar todo el jardín a la vez. Es en estos casos que se requiere de series de válvulas.

Estas válvulas necesitan ser conectadas al mismo punto de suministro de agua. Antiguamente se instalaban colectores de metal galvanizado de alto coste o con montajes permanentes.

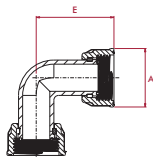
Ahora con los accesorios para colectores Cepex, este trabajo puede hacerse de una forma más:

- fácil: no se requieren herramientas
- rápida: todos los componentes están fabricados para encajar entre ellos
- flexible: es fácil hacer cambios una vez montados

### UP. 01. MFD. FF - MANIFOLD ELBOW

- 90° elbow**  
• Female/female

- Codo 90°**  
• Hembra/hembra



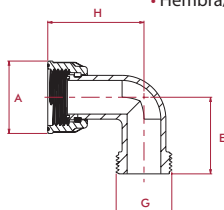
G	PN	REF.	CODE
1"	10	72 01 632	41850

A	E
43	57

### UP. 01. MFD. FM - MANIFOLD ELBOW

- 90° elbow**  
• Female/male

- Codo 90°**  
• Hembra/macho



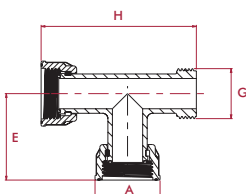
G	PN	REF.	CODE
1"	10	72 01 432	41851

A	E	H
43	46	57

### UP. 03. MFD. FFM - MANIFOLD TEE

- 90° tee**  
• Female/female/male

- Té 90°**  
• Hembra/hembra/macho



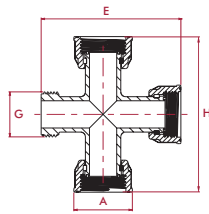
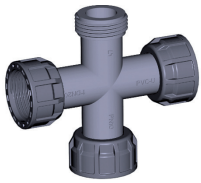
G	PN	REF.	CODE
1"	10	72 03 432	41852

A	E	H
43	57	102

### UP. 28. MFD. FFFM - MANIFOLD CROSS

**Cross**  
• Female/female//female/male

**Cruz**  
• Hembra/hembra/hembra/macho



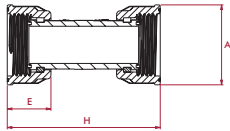
G	PN	REF.	CODE
1"	10	72 28 432	<b>41853</b>

A	E	H
43	103	114

### UP. 05. MFD. FF - MANIFOLD SOCKET

**Socket**  
• Female/female

**Manguito**  
• Hembra/hembra



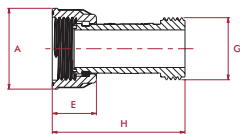
G	PN	REF.	CODE
1"	10	72 05 632	<b>41854</b>

A	E	H
43	24	82

### UP. 05. MFD. FM - MANIFOLD SOCKET

**Socket**  
• Female/male

**Manguito**  
• Hembra/macho



G	PN	REF.	CODE
1"	10	72 05 432	<b>41855</b>

A	E	H
43	24	71

### UP. 18. MFD. MT - MANIFOLD NIPPLE

**Nipple**  
• Male threaded

**Machón doble rosca**  
• Roscar macho



G	PN	REF.	CODE
1"	10	72 18 032	<b>41856</b>

### UP. 33. MFD. MTR - MANIFOLD REDUCING NIPPLE

**Reducing nipple**  
• Male threaded

**Machón reducido**  
• Roscar macho

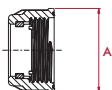


G	PN	REF.	CODE
1"	10	72 33 432	<b>41857</b>

### UP. 07. MFD. FT - MANIFOLD CAP

**Cap**  
• Female thread

**Tapón**  
• Roscar hembra



G	PN	REF.	CODE
1"	10	72 07 032	<b>41861</b>

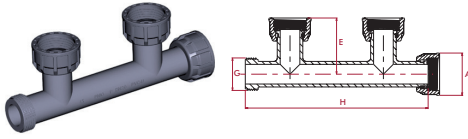
A
43

**UP. 26. MFD. 2OUT - MANIFOLD**
**2-outlet manifold**

- 3 Female thread x 1 male thread

**Colector PVC-U 2 salidas**

- 3 Rosca hembra x 1 rosca macho



G	PN	REF.	CODE
1"	10	72 26 232	<b>41858</b>

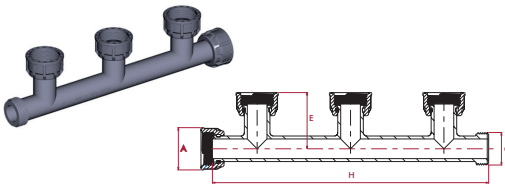
A	E	H
43	57	186

**UP. 26. MFD. 3OUT - MANIFOLD**
**3-outlet manifold**

- 4 Female thread x 1 male thread

**Colector PVC-U 3 salidas**

- 4 Rosca hembra x 1 rosca macho



G	PN	REF.	CODE
1"	10	72 26 332	<b>41859</b>

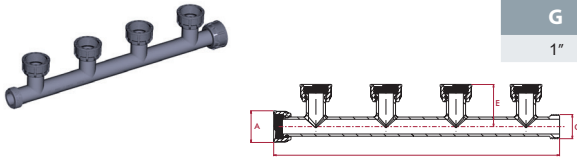
A	E	H
43	57	281

**UP. 26. MFD. 4OUT - MANIFOLD**
**4-outlet manifold**

- 5 Female thread x 1 male thread

**Colector PVC-U 4 salidas**

- 5 Rosca hembra x 1 rosca macho



G	DN	PN	REF.	CODE
1"	20	10	72 26 432	<b>41860</b>

A	E	H
43	57	388

## SIGHT GLASSES VISORES DE LÍQUIDOS

- Element necessary to show the passage of liquid through an installation, as well as the visualization of the state of the liquid (degree of turbidity).
- Two models available, with the viewer in different materials (PMMA or SAN).

- Elemento necesario para mostrar el paso de líquido por una instalación, así como la visualización del estado del líquido (grado de turbidez).
- Dos modelos disponibles, con el visor en distintos materiales (PMMA o SAN).

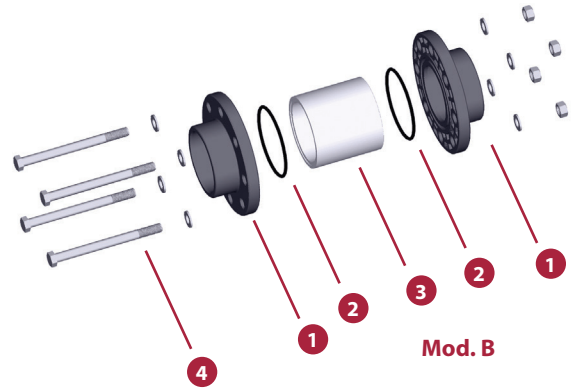
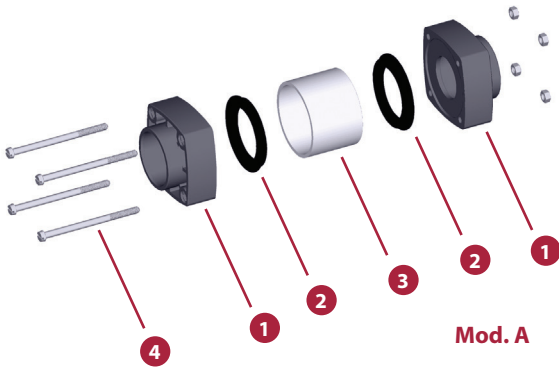
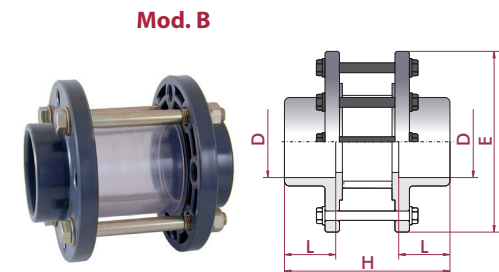
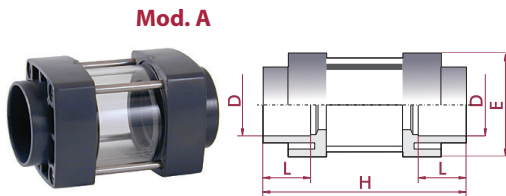


FIG.	Parts	Despiece	Material
1	Union / flange	Manguito / brida	PVC-U
2	O-ring	Junta	EPDM
3	Viewer	Visor	PMMA / SAN
4	Bolts	Tornillos	Zinc plated steel

### UP. 54. SF

- Material:  
D50 - D63: PMMA (Mod. A)  
D75 - D225: SAN (Mod. B)
- 4 bolts
- Female solvent socket
- Metric series

- Material:  
D50 - D63: PMMA (Mod. A)  
D75 - D225: SAN (Mod. B)
- 4 tornillos
- Encolar hembra
- Serie métrica



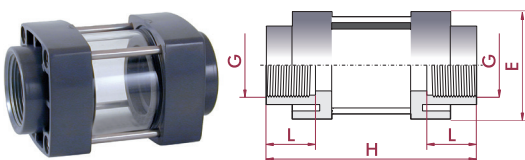
D	DN	PN	REF.	CODE
50	40	6	05 54 050	<b>02387</b>
63	50	6	05 54 063	<b>02388</b>
75	65	10	05 54 075	<b>02389</b>
90	80	10	05 54 090	<b>02390</b>
110	100	10	05 54 110	<b>02391</b>
125	110	10	05 54 125	<b>02392</b>
140	125	10	05 54 140	<b>02393</b>
160	150	10	05 54 160	<b>02394</b>
200	175	10	05 54 200	<b>02395</b>
225	200	10	05 54 225	<b>02396</b>

L	H	E	Mod.
31	125	80	A
38	154	92	A
44	165	185	B
51	180	200	B
61	250	220	B
69	280	230	B
76	310	250	B
86	360	285	B
106	420	315	B
119	500	340	B

### UP. 54. FT

- Material: PMMA
- 4 bolts
- BSP female thread

- Material: PMMA
- 4 tornillos
- Roscar hembra BSP



D	DN	PN	REF.	CODE
1½"	40	6	05 54 650	<b>02397</b>
2"	50	6	05 54 663	<b>02398</b>

L	H	E
31	130	80
38	159	92

## FLOWMETERS - ROTAMETER CAUDALÍMETROS - ROTÁMETROS

### FEATURES

Flowmeters are transparent tubes with conical shape (narrow in its lower part and wider in the upper); they are installed in a perfectly vertical position along with the pipe of which we want to know the flow.

Within the tube there is a stainless steel floater, that will move upwards reaching a specific height depending on the weight of the floater and water pressure.

Thus, the greater is the flow, the higher will the floater move, marking a flow (l/h or GPM) in the scale which is stamped on the transparent tube.

- Available models from 10 to 1000 l/h (0,04 - 4,4 GPM).
- Assembly in vertical position.
- Union bushes in PVC-U.
- Tube in Styrene Methyl Methacrylate Copolymer.
- Measuring tube available in Polysulfon, Trogamid T<sup>®</sup>, etc. upon request.
- Float stops in PVDF and floats in AISI 316.
- Maximum working temperature: 55°C (131°F) according to standards VDE / VDI 3513, class 6.
- Maximum pressure 15 bar.
- Two visible scales on each meter: l/h and GPM.
- Available upon request: limit switches and transmitters.
- Applications: process control in water treatment, osmosis, heating and refrigeration systems, chemical industries, pharmaceuticals, etc.

### CARACTERÍSTICAS

Los caudalímetros son tubos transparentes con forma cónica (estrecho en su zona inferior y más ancho en su zona superior); se instalan en posición perfectamente vertical en serie con la tubería de la que se quiere conocer el caudal.

Dentro del tubo se encuentra un flotador de acero inoxidable, que se desplazará hacia arriba alcanzando una altura concreta que dependerá del peso del flotador y del empuje del agua.

Así, cuanto mayor es el caudal, más arriba se posicionará el flotador, marcando un caudal (l/h o GPM) en la escala que se encuentra marcada en el tubo transparente.

- Modelos disponibles desde 10 hasta 1000 l/h (0,04 - 4,4 GPM).
- Montaje en posición vertical.
- Racordaje en PVC-U.
- Tubo en metacrilato de metilo.
- Bajo pedido tubo de medida disponible en Polisulfon, Trogamid T<sup>®</sup>, etc.
- Topes de flotador en PVDF.
- Flotador en AISI 316.
- Temperatura máxima de trabajo: 55°C (131°F) según normas VDE / VDI 3513, classe 6.
- Presiones hasta 15 bar.
- Doble escala visible en cada caudalímetro: l/h y GPM.
- Disponibles bajo pedido: automatismos y transmisores eléctricos.
- Aplicaciones: control de procesos en tratamiento de agua, osmosis, calefacción y refrigeración, industrias químicas, farmacéuticas, etc.

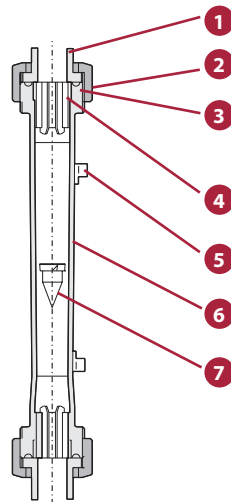
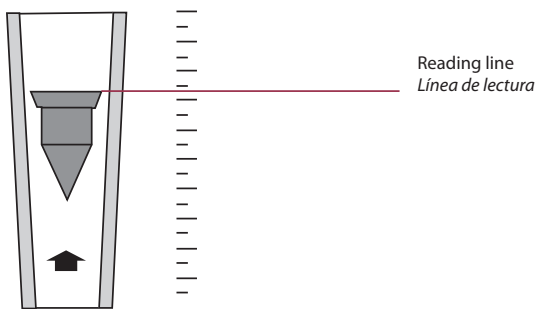


FIG.	Parts	Despiece	Material
1	Union end	Manguito enlace	PVC-U
2	Union nut	Tuerca	PVC-U
3	O-ring seal	Junta tórica	EPDM
4	Stops	Topes	PVDF
5	Indicator	Indicador	PE
6	Measuring tube	Tubo de medida	Methacrylate
7	Float	Flotador	AISI 316



**OPERATION**



**FUNCIONAMIENTO**

**Chemical resistance chart**  
*Tabla de resistencias químicas*

Polymer type	Copolymer of styrene and methacrylate
Nomenclature	SMMA
CHEMICAL RESISTANCE	
Acetone	x
Unsaturated Oil	x
Saturated Oil	C
Mineral Oil	✓
Olive Oil	✓
Alcohol low molecular weight	C
Alcohol high molecular weight	✓
Diluted inorganic acid	✓
Concentrated inorganic acid	✓
Halogenated compound	x
Gasoline	x
Benzene	x
Toluene	x
Bleach	✓
Detergent	✓
Inorganic salts	✓

**C:** Conditioned resistance. In some cases the material may turn yellow, loose transparency or micro fissures could appear.

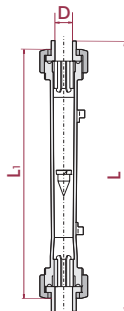
**C:** Resistencia condicional. En algunos casos puede darse amarillamiento, pérdida de la transparencia o formación de micro fisuras.

**UP. 92. SF. M - FLOWMETER**
**Flowmeter**

- Tube in Styrene Methyl Methacrylate Copolymer
- Female solvent socket

**Caudalímetro**

- Tubo en metacrilato de metilo
- Encolar hembra



D	DN	REF.	CODE
20	15	05 92 020A	<b>20205</b>
20	15	05 92 020B	<b>20206</b>
20	15	05 92 020C	<b>20207</b>
25	20	05 92 025A	<b>20208</b>
25	20	05 92 025B	<b>20209</b>
25	20	05 92 025C	<b>20210</b>

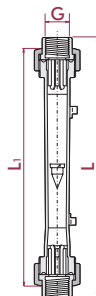
GPM	l/h	L	L <sub>1</sub>
0,04 - 0,44	10 - 100	232	198
0,06 - 0,66	16 - 160	232	198
0,1 - 1,1	25 - 250	232	198
0,2 - 1,8	40 - 400	232	198
0,3 - 2,7	60 - 630	232	198
0,4 - 4,4	100 - 1000	232	198

**UP. 92. FT. M - FLOWMETER**
**Flowmeter**

- Tube in Styrene Methyl Methacrylate Copolymer
- BSP female thread

**Caudalímetro**

- Tubo en metacrilato de metilo
- Roscar hembra BSP



G	DN	REF.	CODE
½"	15	05 92 620A	<b>20211</b>
½"	15	05 92 620B	<b>20212</b>
½"	15	05 92 620C	<b>20213</b>
¾"	20	05 92 625A	<b>20214</b>
¾"	20	05 92 625B	<b>20215</b>
¾"	20	05 92 625C	<b>20216</b>

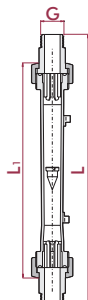
GPM	l/h	L	L <sub>1</sub>
0,04 - 0,44	10 - 100	232	198
0,06 - 0,66	16 - 160	232	198
0,1 - 1,1	25 - 250	232	198
0,2 - 1,8	40 - 400	232	198
0,3 - 2,7	60 - 630	232	198
0,4 - 4,4	100 - 1000	232	198

**UP. 92. MT. M - FLOWMETER**
**Flowmeter**

- Tube in Styrene Methyl Methacrylate Copolymer
- BSP male thread

**Caudalímetro**

- Tubo en metacrilato de metilo
- Roscar macho BSP



G	DN	REF.	CODE
½"	15	05 92 420A	<b>20217</b>
½"	15	05 92 420B	<b>20218</b>
½"	15	05 92 420C	<b>20219</b>
¾"	20	05 92 425A	<b>20220</b>
¾"	20	05 92 425B	<b>20221</b>
¾"	20	05 92 425C	<b>20222</b>

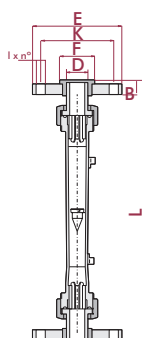
GPM	l/h	L	L <sub>1</sub>
0,04 - 0,44	10 - 100	249	198
0,06 - 0,66	16 - 160	249	198
0,1 - 1,1	25 - 250	249	198
0,2 - 1,8	40 - 400	252	198
0,3 - 2,7	60 - 630	252	198
0,4 - 4,4	100 - 1000	252	198

**UP. 92. FLG. M - FLOWMETER**
**Flowmeter**

- Tube in Styrene Methyl Methacrylate Copolymer
- With flanges

**Caudalímetro**

- Tubo en metacrilato de metilo
- Con bridas



D	DN	REF.	CODE
20	15	05 92 220A	<b>20223</b>
20	15	05 92 220B	<b>20224</b>
20	15	05 92 220C	<b>20225</b>
25	20	05 92 225A	<b>20226</b>
25	20	05 92 225B	<b>20227</b>
25	20	05 92 225C	<b>20228</b>

GPM	l/h	E	K	F	l x n°	B	L
0,04 - 0,44	10 - 100	95	65	45	14x4	12	257
0,06 - 0,66	16 - 160	95	65	45	14x4	12	257
0,1 - 1,1	25 - 250	95	65	45	14x4	12	257
0,2 - 1,8	40 - 400	105	75	58	14x4	13	260
0,3 - 2,7	60 - 630	105	75	58	14x4	13	260
0,4 - 4,4	100 - 1000	105	75	58	14x4	13	260

## SOLVENT CEMENT / CLEANER / PTFE TAPE

### ADHESIVOS / DISOLVENTES / CINTA DE PTFE

#### NOTES ABOUT THE SOLVENT

- Carry out an accurate turnover of the stock as the solvent cement can lose the original characteristics after 12 months of its manufacture.
- Stock in a dry and fresh place.
- Please, read the instructions of use.
- Different solvent cements for PVC-U and PVC-C (read the description).
- If you want to read the solvent socket recommendations, please refer to Pipe installation Section

#### NOTAS SOBRE EL ADHESIVO

- Realizar una correcta rotación del stock ya que el adhesivo puede perder sus características originales a partir de los 12 meses de su fabricación.
- Almacenar en un lugar seco y fresco.
- Ver las normas de utilización del envase.
- Adhesivos diferenciados para PVC-U y PVC-C (ver descripción).
- Para ver las recomendaciones de instalación con adhesivo, consulte la Sección de Instalación de tubería.

**Average joints for 1.000 cm<sup>3</sup> of solvent cement**  
**Nº aproximado de encoladuras efectuadas con 1.000 cm<sup>3</sup> de adhesivo**

Ø of pipe Ø de tubo	16	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250	315	400
Nº of joints Nº de encoladuras	390	375	300	250	200	110	80	55	40	25	22	18	11	7	5	4	3	2

## UP. 90. SC

CEPEX PVC-U solvent cement

Adhesivo PVC-U CEPEX



Size   Medida	Vol.	REF.	CODE
Tub   Tubo	125 cm <sup>3</sup>	05 90 012	<b>02429</b>
Can with paint brush   Bote con pincel	250 cm <sup>3</sup>	05 90 026	<b>02430</b>
Can   Bote	500 cm <sup>3</sup>	05 90 050	<b>02427</b>
Can with paint brush   Bote con pincel	500 cm <sup>3</sup>	05 90 051	<b>09043</b>
Can   Bote	1.000 cm <sup>3</sup>	05 90 100	<b>02426</b>
Can with paint brush   Bote con pincel	1.000 cm <sup>3</sup>	05 90 101	<b>09044</b>

## UP. 90. TSC

TANGIT solvent cement PVC-U

Adhesivo TANGIT PVC-U



Size   Medida	Vol.	REF.	CODE
Can with paint brush   Bote con pincel	500 cm <sup>3</sup>	05 90 350	<b>02434</b>
Can   Bote	1.000 cm <sup>3</sup>	05 90 400	<b>02433</b>

## UP. 90. SCU

UNI-100 solvent cement PVC-U

Adhesivo UNI-100 PVC-U



Size   Medida	Vol.	REF.	CODE
Can with paint brush   Bote con pincel	500 cm <sup>3</sup>	05 90 051 UNI	<b>52706</b>
Can with paint brush   Bote con pincel	1.000 cm <sup>3</sup>	05 90 101 UNI	<b>52707</b>

## UP. 90. SCH

HCR-36 solvent cement PVC-U / PVC-C

Adhesivo HCR-36 PVC-U / PVC-C

• High chemical resistance

• Alta resistencia química



Size   Medida	Vol.	REF.	CODE
Can with paint brush   Bote con pincel	1.000 cm <sup>3</sup>	05 90 100 HCR	<b>52711</b>

Sulphuric acid: concentrations > 70%  
 Hydrochloric acid: concentrations > 25%  
 Nitric acid: concentrations > 20%  
 Lyes (caustic soda): concentrations > 35%  
 Fluoric acid: any concentration  
 Sodium hypochlorite: active chlorine content > 7.5%

## CP. 90. SCH - PVC-C SOLVENT CEMENT

HT-120 solvent cement PVC-C

Adhesivo HT-120 PVC-C



Size   Medida	REF.	CODE
Can with paint brush   Bote con pincel	500 cc	36 90 051

## UP. 90. CL

Cleaner

Disolvente



Size   Medida	Vol.	REF.	CODE
Can   Bote	500 cm <sup>3</sup>	05 90 250	<b>02432</b>
Can   Bote	1.000 cm <sup>3</sup>	05 90 300	<b>02431</b>

## UP. 90. TF

PTFE thread-wrap tape

Cinta de PTFE



Thickness Grueso	Width Anchura	Length Largo	REF.	CODE
0,075 mm	12 mm	12 m	05 90 500	<b>02435</b>
0,10 mm	19 mm	50 m	05 90 550	<b>02436</b>



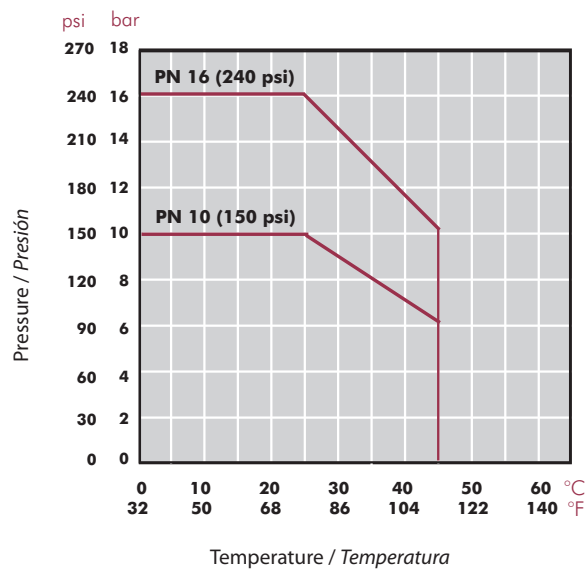
## BRITISH STANDARD SERIES

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<b>TEES</b> <i>TÉS</i>	<b>02</b>	PAG. 114
<b>SOCKETS AND REDUCERS</b> <i>MANGUITOS Y REDUCCIONES</i>	<b>03</b>	PAG. 114
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<b>SIGHT GLASSES</b> <i>VISORES DE LÍQUIDOS</i>	<b>08</b>	PAG. 120

**TECHNICAL CHARACTERISTICS**  
**CARACTERÍSTICAS TÉCNICAS**

Unions <i>Uniones</i>	Sizes <i>Medidas</i>	Working pressure at 20°C <i>Presión de servicio a 20°C</i>
Solvent socket / <i>Encolar</i>	½" - 4"	PN 16 (240 psi)
Threaded / <i>Roscar</i>	½" - 2"	PN 10 (150 ps)

**PRESSURE / TEMPERATURE GRAPH**  
**DIAGRAMA PRESIÓN / TEMPERATURA**



Life: 50 years  
Hydrostatic maximum pressure a component may withstand in continuous service (without overpressure)

*Vida útil: 50 años*  
*Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)*

**TOLERANCE CHART**  
**TABLA TOLERANCIAS**

DN	Minimum diameter <i>Diámetro mínimo</i>	Maximum diameter <i>Diámetro máximo</i>
3/8"	17.1	17.3
1/2"	21.3	21.5
3/4"	26.7	26.9
1"	33.5	33.7
1¼"	42.2	42.4
1½"	48.2	48.4
2"	60.3	60.5
2½"	75.1	75.3
3"	88.8	89.1
4"	114.2	114.5
5"	140.1	140.4
6"	168.2	168.5
7"	193.7	194.0
8"	219.0	219.4



## ELBOWS

### CODOS

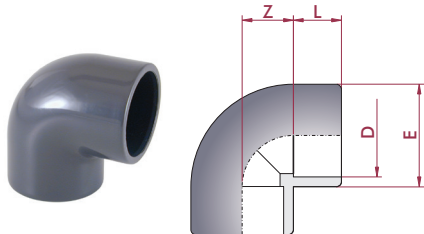
#### UP. 01. SF. BS - 90° ELBOW BS

##### 90° elbow

- Female solvent socket
- British Standard Series

##### Codo 90°

- Encolar hembra
- Serie British Standard



D	DN	PN	REF.	CODE
½"	15	16	05 01 901	<b>07137</b>
¾"	20	16	05 01 902	<b>07138</b>
1"	25	16	05 01 903	<b>07139</b>
1¼"	32	16	05 01 904	<b>07140</b>
1½"	40	16	05 01 905	<b>07141</b>
2"	50	16	05 01 906	<b>07142</b>
2½"	65	16	05 01 075 <sup>M</sup>	<b>07178</b>
3"	80	16	05 01 908	<b>07144</b>
4"	100	16	05 01 910	<b>07145</b>

L	Z	E
16	11	27
19	14	33
22	17	41
26	21	50
31	26	61
38	33	76
44	39	90
51	46	108
61	56	131

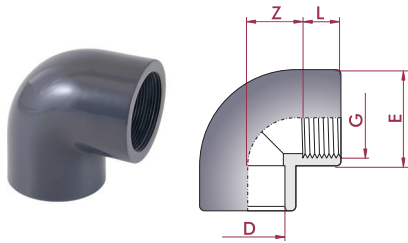
#### UP. 01. SFT. BS - 90° ELBOW BS

##### 90° adaptor elbow

- Female solvent socket & BSP female thread
- British Standard series

##### Codo 90° mixto

- Encolar hembra y roscar hembra BSP
- Serie British Standard



D x G	DN	PN	REF.	CODE
½" x ½"	15	10	05 01 931	<b>07146</b>
¾" x ¾"	20	10	05 01 932	<b>07147</b>
1" x 1"	25	10	05 01 933	<b>07148</b>
1¼" x 1¼"	32	10	05 01 934	<b>07149</b>
1½" x 1½"	40	10	05 01 935	<b>07150</b>
2" x 2"	50	10	05 01 936	<b>07151</b>

L	Z	E
14	11	27
16	14	33
19	17	41
20	21	50
20	26	61
24	33	76

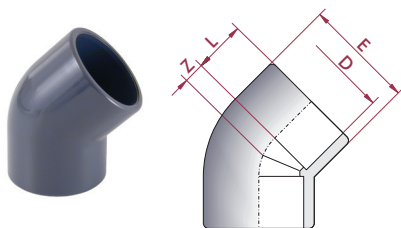
#### UP. 02. SF. BS - 45° ELBOW BS

##### 45° elbow

- Female solvent socket
- British Standard series

##### Codo 45°

- Encolar hembra
- Serie British Standard



D	DN	PN	REF.	CODE
½"	15	16	05 02 901	<b>07152</b>
¾"	20	16	05 02 902	<b>07153</b>
1"	25	16	05 02 903	<b>07154</b>
1¼"	32	16	05 02 904	<b>07155</b>
1½"	40	16	05 02 905	<b>07156</b>
2"	50	16	05 02 906	<b>07157</b>
2½"	65	16	05 02 075 <sup>M</sup>	<b>07152</b>
3"	80	16	05 02 908	<b>07159</b>
4"	100	16	05 02 910	<b>07160</b>

L	Z	E
16	5	28
19	6	35
22	8	43
26	10	52
31	12	61
38	14	76
44	17	93
51	20	109
61	24	133

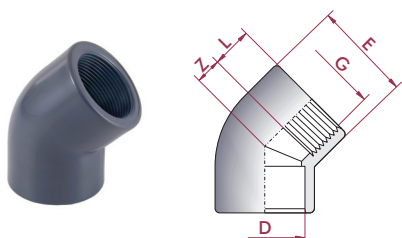
#### UP. 02. SFT. BS - 45° ELBOW BS

##### 45° adaptor elbow

- Female solvent socket & BSP female thread
- British Standard series

##### Codo 45° mixto

- Encolar hembra y roscar hembra BSP
- Serie British Standard



D x G	DN	PN	REF.	CODE
½" x ½"	15	10	05 02 931	<b>07161</b>
¾" x ¾"	20	10	05 02 932	<b>07162</b>
1" x 1"	25	10	05 02 933	<b>07163</b>
1¼" x 1¼"	32	10	05 02 934	<b>07164</b>
1½" x 1½"	40	10	05 02 935	<b>07165</b>
2" x 2"	50	10	05 02 936	<b>07166</b>

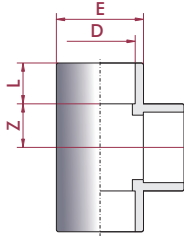
L	Z	E
14	5	28
16	6	34
19	8	43
20	10	54
20	12	63
24	14	78

**TEES**
**TÉS**
**UP. 03. SF. BS - 90° TEE BS**
**90° tee**

- Female solvent socket
- British Standard series

**Té 90°**

- Encolar hembra
- Serie British Standard



D	DN	PN	REF.	CODE
½"	15	16	05 03 901	<b>07167</b>
¾"	20	16	05 03 902	<b>07168</b>
1"	25	16	05 03 903	<b>07169</b>
1¼"	32	16	05 03 904	<b>07170</b>
1½"	40	16	05 03 905	<b>07171</b>
2"	50	16	05 03 906	<b>07172</b>
2½"	65	16	05 03 075 <sup>M</sup>	<b>01786</b>
3"	75	16	05 03 908	<b>07174</b>
4"	80	16	05 03 910	<b>07175</b>

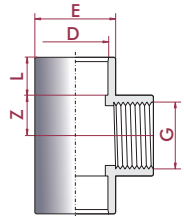
L	Z	E
16	11	27
19	14	33
22	17	41
26	21	50
31	26	61
38	33	71
44	39	90
51	46	108
61	56	131

**UP. 03. SFT. BS - 90° TEE BS**
**90° adaptor tee**

- Female solvent socket & BSP female thread
- British Standard series

**Té 90° mixta**

- Encolar hembra y roscar hembra BSP
- Serie British Standard



D x G	DN	PN	REF.	CODE
½" x ½"	15	10	05 03 931	<b>07176</b>
¾" x ¾"	20	10	05 03 932	<b>07177</b>
1" x 1"	25	10	05 03 933	<b>07178</b>
1¼" x 1¼"	32	10	05 03 934	<b>07179</b>
1½" x 1½"	40	10	05 03 935	<b>07180</b>
2" x 2"	50	10	05 03 936	<b>07181</b>

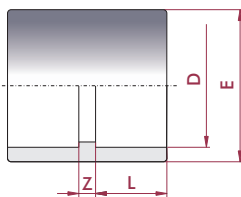
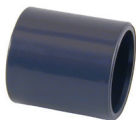
L	Z	E
14	11	27
16	14	33
19	17	41
20	21	50
20	26	61
24	33	76

**SOCKETS**
**MANGUITOS UNIÓN**
**UP. 05. SF. BS - SOCKET BS**
**Socket**

- Female solvent socket
- British Standard series

**Manguito unión**

- Encolar hembra
- Serie British Standard



D	DN	PN	REF.	CODE
½"	15	16	05 05 901	<b>07182</b>
¾"	20	16	05 05 902	<b>07183</b>
1"	25	16	05 05 903	<b>07184</b>
1¼"	32	16	05 05 904	<b>07185</b>
1½"	40	16	05 05 905	<b>07186</b>
2"	50	16	05 05 906	<b>07187</b>
2½"	65	16	05 05 075 <sup>M</sup>	<b>01878</b>
3"	80	16	05 05 908	<b>07189</b>
4"	100	16	05 05 910	<b>07190</b>

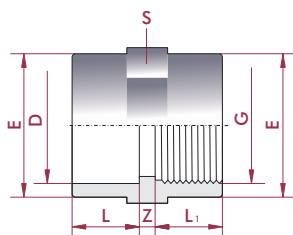
L	Z	E
16	3	27
19	3	33
22	3	41
26	3	50
31	3	61
38	3	75
44	4	90
51	5	108
61	6	131

**UP. 05. SFT. BS - SOCKET BS**
**Adaptor socket**

- Female solvent socket & BSP female thread
- British Standard series

**Manguito unión mixto**

- Encolar hembra y roscar hembra BSP
- Serie British Standard



D x G	DN	PN	REF.	CODE
½" x ½"	15	10	05 05 931	<b>07191</b>
¾" x ¾"	20	10	05 05 932	<b>07192</b>
1" x 1"	25	10	05 05 933	<b>07193</b>
1¼" x 1¼"	32	10	05 05 934	<b>07194</b>
1½" x 1½"	40	10	05 05 935	<b>07195</b>
2" x 2"	50	10	05 05 936	<b>07196</b>
2½" x 2½"	65	10	05 05 475 <sup>M</sup>	<b>01895</b>

L	L <sub>1</sub>	Z	E	S
16	14	3	27	27
19	16	3	33	33
22	19	3	41	41
26	20	3	50	50
31	20	3	61	61
38	24	3	75	75
44	44	4	90	90

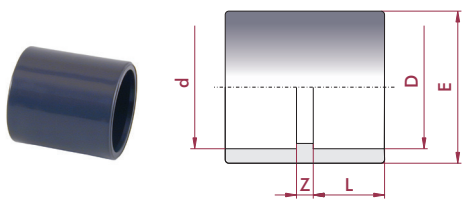
## UP. 27. SF. MBS - ADAPTOR SOCKET METRIC - BS

### Metric/BS adaptor socket

- Female solvent socket
- British Standard - Metric series

### Manguito adaptador métrico/BS

- Encolar hembra
- Serie British Standard - Métrica



D x d	DN	PN	REF.	CODE
20 x 1/2"	15	16	05 27 901	<b>07229</b>
25 x 3/4"	20	16	05 27 902	<b>07230</b>
32 x 1"	25	16	05 27 903	<b>07231</b>
40 x 1 1/4"	32	16	05 27 904	<b>07232</b>
50 x 1 1/2"	40	16	05 27 905	<b>07233</b>
63 x 2"	50	16	05 27 906	<b>07234</b>
90 x 3"	80	16	05 27 908	<b>07236</b>
110 x 4"	100	16	05 27 910	<b>07237</b>

L	Z	E
16	3	27
19	3	33
22	3	41
26	3	50
31	3	61
38	3	75
51	5	108
61	6	135

## REDUCERS

### REDUCCIONES

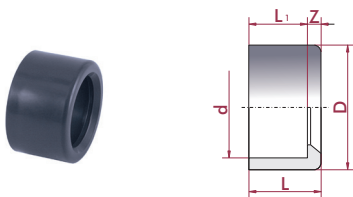
## UP. 06. SMF. BS - REDUCING BUSH BS

### Reducing bush

- Male x female solvent socket
- British Standard series

### Casquillo reducción

- Encolar macho x hembra
- Serie British Standard



D x d	DN	PN	REF.	CODE
3/4" x 1/2"	15	16	05 06 920	<b>07198</b>
1" x 3/4"	20	16	05 06 930	<b>07199</b>
1" x 1/2"	15	16	05 06 931	<b>07200</b>
1 1/4" x 1"	25	16	05 06 940	<b>07201</b>
1 1/4" x 3/4"	20	16	05 06 941	<b>07202</b>
1 1/2" x 1 1/4"	32	16	05 06 950	<b>07203</b>
1 1/2" x 1"	25	16	05 06 951	<b>07204</b>
2" x 1 1/2"	40	16	05 06 960	<b>07205</b>
2 1/2" x 2"	50	16	05 06 970	<b>07206</b>
3" x 2 1/2"	65	16	05 06 980	<b>07207</b>
4" x 3"	80	16	05 06 990	<b>07208</b>

L	L <sub>1</sub>	Z
19	16	3
22	19	3
22	16	6
26	22	4
26	19	7
31	26	5
31	22	9
38	31	7
44	38	6
51	44	7
61	51	10

## FLANGES

### BRIDAS

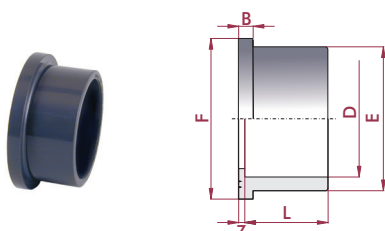
## UP. 10. SF. BS - FLANGE ADAPTOR BS

### PVC-U flange adaptor (sub flange)

- Female solvent socket
- British Standard series
- To check the dimensions of flanges, see UP. 11. FLG in the Metric series chapter.

### Manguito portabridas PVC-U

- Encolar hembra
- Serie British Standard
- Dimensiones de las bridas: ver UP. 11. FLG en el apartado de medida métrica



D	DN	PN	REF.	CODE
2"	50	16	05 10 906	<b>07804</b>
2 1/2"	65	16	05 10 075 <sup>M</sup>	<b>02022</b>
3"	80	16	05 10 908	<b>07218</b>
4"	100	16	05 10 910	<b>07219</b>
5"	125	16	05 10 140 <sup>M</sup>	<b>02026</b>
6"	150	10	05 10 914	<b>07221</b>
8"	200	10	05 10 917	<b>07222</b>

L	Z	B	E	F
38	3	9	76	90
44	3	10	90	106
51	5	11	108	125
61	5	12	131	150
76	5	14	165	188
86	5	16	188	213
119	6	25	248	274

## CAPS

### TAPONES

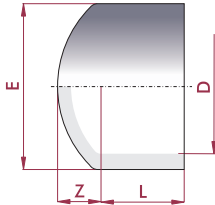
#### UP. 07. SF. BS - CAP BS

##### Cap

- Female solvent socket
- British Standard series

##### Tapón

- Encolar hembra
- Serie British Standard



D	DN	PN	REF.	CODE
½"	15	16	05 07 901	<b>07209</b>
¾"	20	16	05 07 902	<b>07210</b>
1"	25	16	05 07 903	<b>07211</b>
1¼"	32	16	05 07 904	<b>07212</b>
1½"	40	16	05 07 905	<b>07213</b>
2"	50	16	05 07 906	<b>07214</b>
2½"	65	16	05 07 075 <sup>M</sup>	<b>01949</b>
3"	80	16	05 07 908	<b>07216</b>
4"	100	16	05 07 910	<b>07803</b>

L	Z	E
16	8	26
19	9	33
22	10	40
26	12	50
31	15	63
38	17	75
44	19	90
51	23	110
61	28	131

## NIPPLES

### MACHONES

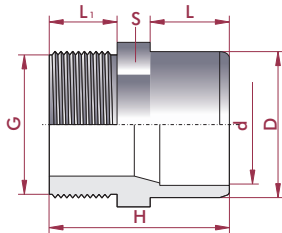
#### UP. 15. SFMT. BS - ADAPTOR NIPPLE BS

##### Adaptor nipple

- Female/male solvent socket & BSP male thread
- British Standard series

##### Machón mixto

- Encolar hembra/macho y rosca macho BSP
- Serie British Standard



D - d x G	DN	PN	REF.	CODE
½" - ¾" x ½"	15	10	05 15 931	<b>07238</b>
¾" - 1½" x ¾"	20	10	05 15 932	<b>07239</b>
1" - ¾" x 1"	25	10	05 15 933	<b>07240</b>
1¼" - 1" x 1¼"	32	10	05 15 934	<b>07241</b>
1½" - 1¼" x 1½"	40	10	05 15 935	<b>07242</b>
2" - 1½" x 2"	50	10	05 15 936	<b>07243</b>
2½" - 2" x 2½"	65	10	05 15 475 <sup>M</sup>	<b>02091</b>
3" - 2½" x 3"	80	10	05 15 938	<b>07245</b>

L	L <sub>1</sub>	H	S
16	14	42	27
19	16	47	32
22	19	54	36
26	21	60	46
31	25	70	55
38	25	78	65
44	30	89	78
51	33	99	93

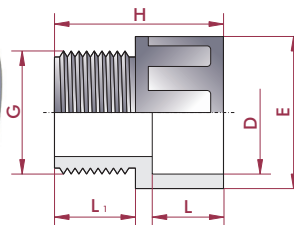
#### UP. 17. SFMT. BS - ADAPTOR BUSH BS

##### Adaptor bush

- Female solvent socket x BSP male threaded
- British Standard series

##### Terminal rosca macho

- Encolar hembra x rosca macho BSP
- Serie British Standard



D x G	DN	PN	REF.	CODE
½" x ½"	15	10	05 17 931	<b>07246</b>
¾" x ¾"	20	10	05 17 932	<b>07247</b>
1" x 1"	25	10	05 17 933	<b>07248</b>
1¼" x 1¼"	32	10	05 17 934	<b>07249</b>
1½" x 1½"	40	10	05 17 935	<b>07250</b>
2" x 2"	50	10	05 17 936	<b>07251</b>
2½" x 2½"	65	10	05 17 475 <sup>M</sup>	<b>02108</b>
3" x 3"	80	10	05 17 938	<b>07253</b>
4" x 4"	100	10	05 17 940	<b>07254</b>

L	L <sub>1</sub>	E	H
16	14	28	38
19	16	34	42
22	19	41	50
26	21	51	55
31	30	62	65
38	30	77	75
44	30	90	85
51	33	108	98
61	40	131	115

## PVC-U UNIONS

### ENLACES 3 PIEZAS PVC-U

Unions are the preferred choice over flange adaptors for the connection of plastic pipes. With no metal parts, there is no corrosion and the weight is also reduced.

They are only available in small sizes (up until D110).

The union ends are manufactured in plain ends for solvent socket or thread always according the sizing standards, doing this system appropriate to adapt to other elements or systems. Cepex unions feature an o-ring in order to ensure better unions, so it is not needed the use of PTFE tape between nut and union end (it is only needed in the threaded ends).

They are not recommended when connected to pipe under bending stress.

The union nut should be tightened by hand. Must use a strap wrench for big sizes (D75, D90, D110).

With this type of unions, it is possible to mix several plastic materials.

Cuando hay que unir plásticos, éstos son preferidos a las bridas, ya que no contienen ninguna parte de metal y el diámetro exterior es más reducido.

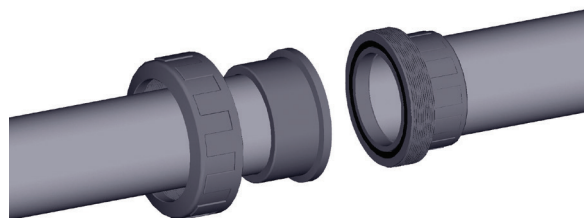
En contrapartida sólo están disponibles para diámetros pequeños (hasta D110).

Los manguitos de conexión están fabricados en terminaciones lisas de encolado o roscadas, siempre bajo normativas standards, haciendo posible la adaptación a otros componentes (incluso de materiales distintos).

Los enlaces 3 piezas Cepex incorporan junta para asegurar estanqueidad entre los dos manguitos de la unión, por lo que no debe usarse cinta de PTFE entre tuerca y manguito (usar cinta de PTFE solamente en las terminaciones de manguito roscadas). No son recomendables cuando el tubo tenga que estar sometido a fuerza de flexión (debido a posibles desalineaciones).

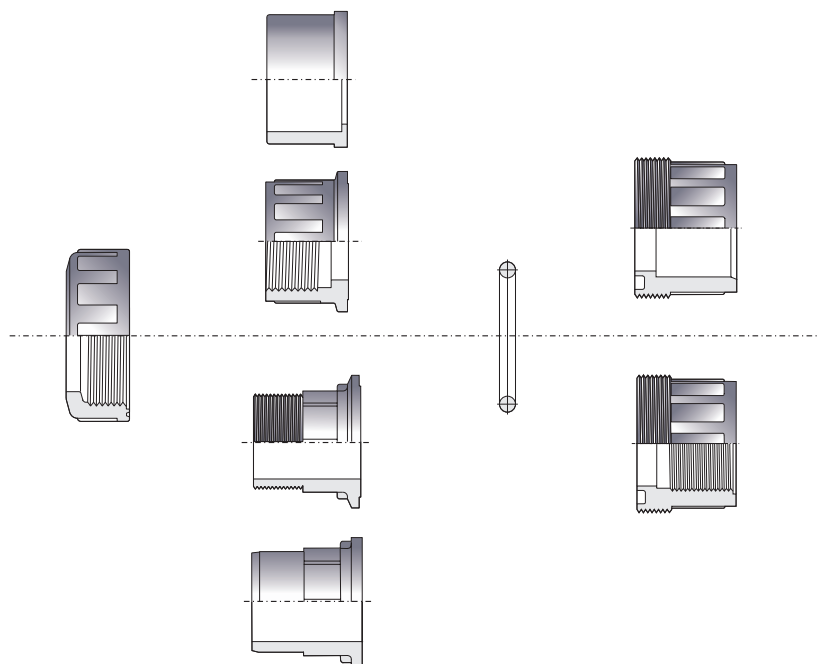
No es necesario el uso de ninguna herramienta, se rosca con las manos. Usar llave de cinta en diámetros grandes (D75, D90, D110).

Mediante estos enlaces, se pueden combinar diferentes tipos de plásticos.



### CONNECTION POSSIBILITIES

#### POSIBILIDADES DE CONEXIÓN



#### Available standards

Solvent socket: metric, BS, ASTM

Threaded: BSP, NPT

#### Standards disponibles

Encolar: métrico, BS, ASTM

Roscar: BSP, NPT

Ask for other types of unions or other materials (PP, PE100...)

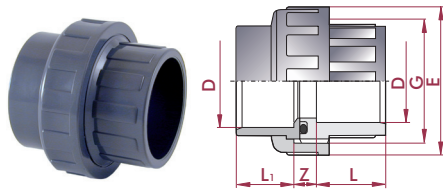
Consultar otros tipos de conexión o materiales (PP, PE100...)

**UP. 50. SF. BS - UNION BS**
**Union**

- Female solvent socket
- British Standard series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra
- Serie British Standard
- Anillo tórico en EPDM



D	DN	PN	REF.	CODE
½"	15	16	05 50 901	<b>07332</b>
¾"	20	16	05 50 902	<b>07333</b>
1"	25	16	05 50 903	<b>07334</b>
1¼"	32	16	05 50 904	<b>07335</b>
1½"	40	16	05 50 905	<b>07336</b>
2"	50	16	05 50 906	<b>07337</b>
2½"	65	10	05 50 075 <sup>M</sup>	<b>02333</b>
3"	80	10	05 50 908	<b>07806</b>
4"	100	10	05 50 910	<b>07807</b>

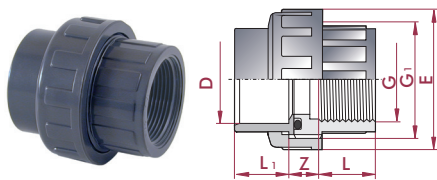
L	Z	G	E	o-ring
16	13	1"	41	20 x 3
19	13	1¼"	52	38 x 3
22	13	1½"	60	33 x 3
26	15	2"	74	41 x 5
31	17	2¼"	80	47 x 5
38	21	2¾"	99	60 x 5
44	21	3½"	120	76 x 5
51	24	4"	138	91 x 5
61	26	5½"	179	110 x 5

**UP. 50. SFT. BS - UNION BS**
**Union adaptor**

- Female solvent socket x BSP female thread
- British Standard series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra x rosca hembra BSP
- Serie British Standard
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
½" x ½"	15	16	05 50 931	<b>07255</b>
¾" x ¾"	20	16	05 50 932	<b>07256</b>
1" x 1"	25	16	05 50 933	<b>07257</b>
1¼" x 1¼"	32	16	05 50 934	<b>07258</b>
1½" x 1½"	40	16	05 50 935	<b>07259</b>
2" x 2"	50	16	05 50 936	<b>07260</b>
2½" x 2½"	65	10	05 50 475 <sup>M</sup>	<b>02342</b>
3" x 3"	80	10	05 50 938	<b>07808</b>
4" x 4"	100	10	05 50 940	<b>07809</b>

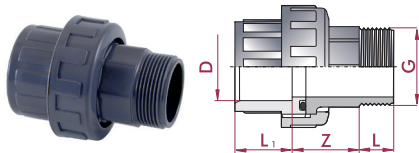
L	Z	G <sub>1</sub>	E	o-ring
16	13	1"	41	20 x 3
19	13	1¼"	52	28 x 3
22	13	1½"	60	33 x 3
26	15	2"	74	41 x 5
31	17	2¼"	90	47 x 5
38	21	2¾"	108	60 x 5
44	21	3½"	120	76 x 5
51	24	4"	138	91 x 5
61	26	5½"	179	110 x 5

**UP. 51. SMT. BS - UNION BS**
**Union adaptor**

- Female solvent socket x BSP male thread
- British Standard series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra x rosca macho BSP
- Serie British Standard
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
½" x ½"	15	16	05 51 931	<b>07810</b>
¾" x ¾"	20	16	05 51 932	<b>07811</b>
1" x 1"	25	16	05 51 933	<b>07812</b>
1¼" x 1¼"	32	16	05 51 934	<b>07813</b>
1½" x 1½"	40	16	05 51 935	<b>07262</b>
2" x 2"	50	16	05 51 936	<b>07263</b>
2½" x 2½"	65	10	05 51 475 <sup>M</sup>	<b>02359</b>
3" x 3"	80	10	05 51 938	<b>07814</b>
4" x 4"	100	10	05 51 940	<b>07815</b>

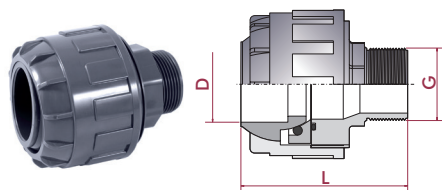
L <sub>1</sub>	L	Z
16	15	33
19	16	35
22	19	40
26	21	40
31	21	48
38	25	62
44	30	70
51	33	62
61	39	70

**UP. 57. SFMT. BS - UNION BS**
**Self-align union**

- Max. misalignment ±4°
- Female solvent socket x BSP male thread
- British Standard series

**Manguito orientable**

- Dealineación max. ±4°
- Encolar hembra x rosca macho BSP
- Serie British Standard



D x G	DN	PN	REF.	CODE
1½" x 1½"	40	10	05 57 955	<b>21081</b>

L
110

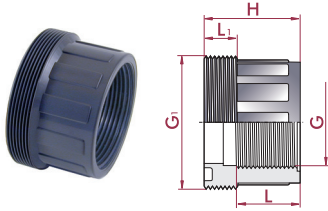
## FITTINGS FOR UNIONS

### ACCESORIOS ENLACES 3 PIEZAS

#### UP. 21. MFT - UNION BUSH BS

**Union bush**  
• BSP male x female thread

**Manguito enlace**  
• Roscar macho x hembra BSP



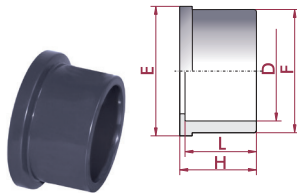
G <sub>1</sub> x G	DN	PN	REF.	CODE
1" x 1/2"	15	10	05 21 620	<b>02160</b>
1 1/4" x 3/4"	20	10	05 21 625	<b>02162</b>
1 1/2" x 1"	25	10	05 21 632	<b>02163</b>
2" x 1 1/4"	32	10	05 21 640	<b>02165</b>
2 1/4" x 1 1/2"	40	10	05 21 650	<b>02166</b>
2 3/4" x 2"	50	10	05 21 663	<b>02168</b>
3 1/2" x 2 1/2"	65	10	05 21 675	<b>02169</b>
4" x 3"	80	10	05 21 690	<b>02170</b>
5 1/2" x 4"	100	10	05 21 710	<b>02171</b>

L	L <sub>1</sub>	H
16	10	26
19	11	29
22	12	32
30	15	39
34	16	46
38	18	56
44	18	62
51	18	69
61	31	79

#### UP. 22. SF. BS - UNION END BS

**Union end**  
• Female solvent socket  
• British Standard series

**Manguito enlace**  
• Encolar hembra  
• Serie British Standard



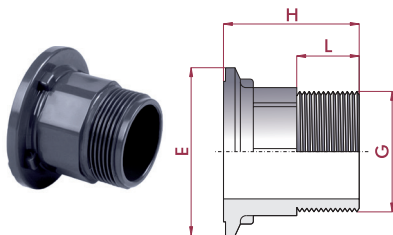
D	DN	PN	REF.	CODE
1/2"	15	16	05 22 901	<b>27254</b>
3/4"	20	16	05 22 902	<b>27255</b>
1"	25	16	05 22 903	<b>27256</b>
1 1/4"	32	16	05 22 904	<b>27257</b>
1 1/2"	40	16	05 22 905	<b>27258</b>
2"	50	16	05 22 906	<b>27259</b>
2 1/2"	65	16	05 22 075*	<b>02178</b>
3"	80	16	05 22 908	<b>27260</b>
4"	100	16	05 22 910	<b>27261</b>

L	E	H	F
16	30	19	27
19	39	22	36
22	45	25	41
26	56	29	53
31	63	34	59
38	78	41	74
44	97	47	92
51	110	56	105
61	147	66	131

#### UP. 22. MT- UNION END BS

**Union end**  
• BSP male thread

**Manguito enlace**  
• Roscar macho BSP



G	DN	PN	REF.	CODE
1/2"	15	10	05 22 420	<b>25960</b>
3/4"	20	10	05 22 425	<b>25961</b>
1"	25	10	05 22 432	<b>25962</b>
1 1/4"	32	10	05 22 440	<b>25963</b>
1 1/2"	40	10	05 22 450	<b>25964</b>
2"	50	10	05 22 463	<b>25965</b>
2 1/2"	65	10	05 22 475	<b>25966</b>
3"	80	10	05 22 490	<b>25967</b>
4"	100	10	05 22 510	<b>25968</b>

L	H	E
15	38	30
16	41	39
19	48	45
21	50	57
21	57	63
28	70	78
30	72	97
33	77	110
40	98	147

#### UP. 23. FT- UNION NUT BS

**Union nut**  
• BSP female thread

**Tuerca**  
• Roscar hembra BSP



G	PN	REF.	CODE
1" (1/2")	10	05 23 632	<b>02188</b>
1 1/4" (3/4")	10	05 23 640	<b>02189</b>
1 1/2" (1")	10	05 23 650	<b>02191</b>
2" (1 1/4")	10	05 23 663	<b>02192</b>
2 1/4" (1 1/2")	10	05 23 664	<b>02193</b>
2 3/4" (2")	10	05 23 676	<b>02196</b>
3 1/2" (2 1/2")	10	05 23 692	<b>02197</b>
4" (3")	10	05 23 710	<b>02198</b>
5 1/2" (4")	10	05 23 741	<b>02199</b>

L	H	E	D	Di
15	20	41	27	30
16	22	52	36	39
20	26	60	41	45
21	26	74	53	57
22	30	80	59	63
28	36	99	74	78
28	36	120	92	97
28	38	133	105	110
41	56	177	131	148

The size of the corresponding union is indicated in brackets.

Entre paréntesis se indica la medida del enlace 3 piezas correspondiente.

## SIGHT GLASSES

### VISORES DE LÍQUIDOS

#### UP. 54. SF. BS- SIGHT GLASSES BS

- Material:
  - 1½" - 2": PMMA (Fig. A)
  - 2½" - 4": SAN (Fig. B)
- 4 bolts
- Female solvent socket
- British Standard series

- Material:
  - 1½" - 2": PMMA (Fig. A)
  - 2½" - 4": SAN (Fig. B)
- 4 tornillos
- Encolar hembra
- Serie British Standard

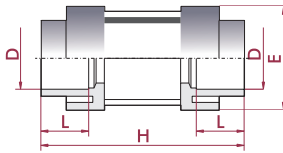
Working pressure at 20°C (73°F) water temperature:

- 1½" - 2": PN 6
- 2½" - 4": PN 10

Presión de servicio a 20°C (73°F) temperatura de agua:

- 1½" - 2": PN 6
- 2½" - 4": PN 10

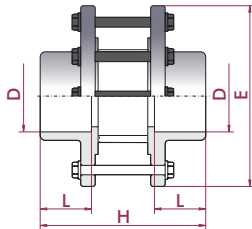
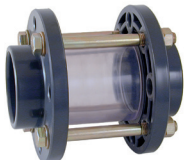
**Mod. A**



D	DN	PN	REF.	CODE
1½"	40	6	05 54 905	<b>21082</b>
2"	50	6	05 54 906	<b>21083</b>
2½"	65	10	05 54 075 <sup>M</sup>	<b>02389</b>
3"	80	10	05 54 908	<b>21084</b>
4"	100	10	05 54 910	<b>21085</b>
6"	150	10	05 54 914	<b>69340</b>

L	H	E	Mod.
31	130	80	A
38	159	92	A
44	165	185	B
51	180	200	B
61	250	220	B

**Mod. B**





## AMERICAN SIZES SERIES

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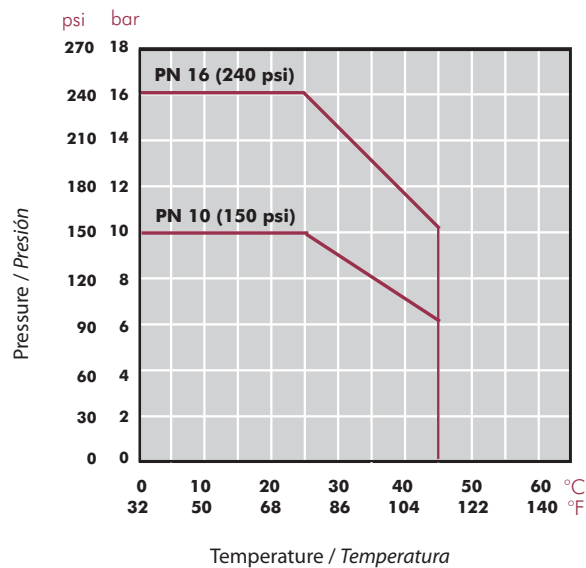
<b>SOCKETS</b> <i>MANGUITOS</i>	<b>01</b>	PAG. 123
<b>FLANGES</b> <i>BRIDAS</i>	<b>02</b>	PAG. 124
<b>UNIONS</b> <i>ENLACES 3 PIEZAS</i>	<b>03</b>	PAG. 126

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**TECHNICAL CHARACTERISTICS**  
**CARACTERÍSTICAS TÉCNICAS**

Unions <i>Uniones</i>	Sizes <i>Medidas</i>	Working pressure at 20°C <i>Presión de servicio a 20°C</i>
Solvent socket / <i>Encolar</i>	½" - 4"	PN 16 (240 psi)
Threaded / <i>Roscar</i>	½" - 4"	PN 10 (150 psi)

**PRESSURE / TEMPERATURE GRAPH**  
**DIAGRAMA PRESIÓN / TEMPERATURA**



Life: 50 years  
Hydrostatic maximum pressure a component may withstand in continuous service (without overpressure)

*Vida útil: 50 años*  
*Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)*

**TOLERANCE CHART**  
**TABLA TOLERANCIAS**

DN	Inlet diameter <i>Diámetro en entrada</i>		Bottom diameter <i>Diámetro en fondo</i>	
	MIN.	MAX.	MIN.	MAX.
3/8"	17.35	17.55	16.94	17.14
1/2"	21.44	21.64	21.13	21.33
3/4"	26.77	26.97	26.47	26.67
1"	33.53	33.78	33.14	33.40
1¼"	42.29	42.55	41.91	42.17
1½"	48.41	48.71	47.96	48.26
2"	60.48	60.78	60.02	60.32
2½"	73.20	73.56	72.67	73.03
3"	89.11	89.51	88.50	88.90
4"	114.53	114.99	113.84	114.30
5"	141.56	142.06	140.80	141.30
6"	168.55	169.11	167.72	168.28
8"	219.46	220.22	218.32	219.08

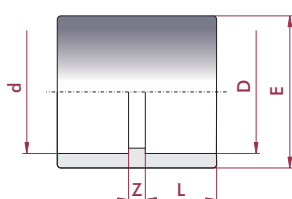
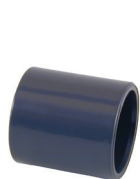
## UP. 27. SF. MMA - ADAPTOR SOCKET METRIC - MA

### Metric/ASTM adaptor socket

- Female solvent socket
- ASTM - Metric series

### Manguito adaptador métrico/ASTM

- Encolar hembra
- Serie ASTM - Métrica



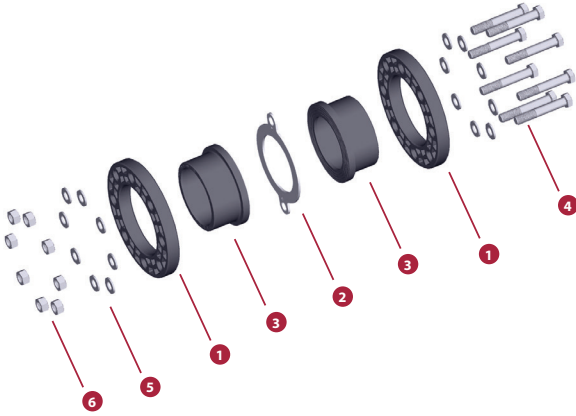
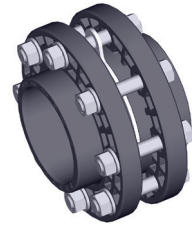
D x d	DN	PN	REF.	CODE
20 x 1/2"	15	16	05 27 901 MA	<b>60257</b>
25 x 3/4"	20	16	05 27 902 MA	<b>64467</b>
32 x 1"	25	16	05 27 903 MA	<b>64468</b>
40 x 1 1/4"	32	16	05 27 904 MA	<b>64496</b>
50 x 1 1/2"	40	16	05 27 905 MA	<b>64497</b>
63 x 2"	50	16	05 27 906 MA	<b>64498</b>
75 x 2 1/2"	65	16	05 27 907 MA	<b>64499</b>
90 x 3"	80	16	05 27 908 MA	<b>64500</b>
110 x 4"	100	16	05 27 910 MA	<b>64501</b>

L	Z	E
16	3	27
19	3	33
22	3	41
26	3	50
31	3	61
38	3	75
44	4	90
51	5	108
61	6	135

## PVC-U LOOSE FLANGES BRIDAS LOCAS PVC-U

• ANSI ASME 16B.5 | ANSI ASME 16.5/16.34 Flange System.  
• We recommend to follow flange installation instructions carefully to avoid any unnecessary tensions.

• Sistema de bridas ANSI ASME 16B.5 | ANSI ASME 16.5/16.34.  
• Recomendamos seguir exactamente las normas de montaje de bridas con objeto de evitar tensiones innecesarias.



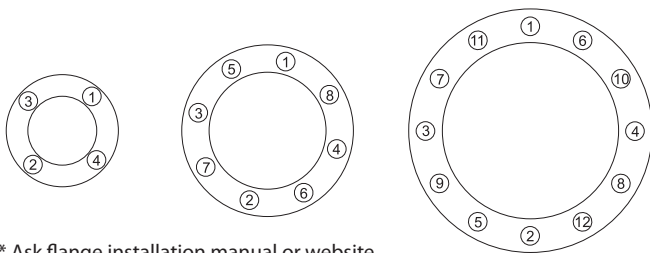
D	1 PVC-U	3 PVC-U
2"		✓
2½"		✓
3"	✓	✓
4"	✓	✓
5"		✓
6"	✓	✓
8"	✓	✓

FIG.	Parts	Despiece	Material
1	Flange	Brida	PVC-U / PP
2	Flat gasket	Junta plana	EVA / EPDM
3	Flange adaptor **	Manguito portabridas **	PVC-U
4	Screw DIN 931	Tornillo DIN 931	5,6 Zinc plated steel / A2 Stainless steel *
5	Washer DIN 125-A	Arandela DIN 125-A	
6	Nut DIN 934	Tuerca DIN 934	

\* On order A4 Stainless steel  
Bajo pedido acero inoxidable A4

\*\* Flange adaptor available in BS and ASTM solvent socket standards  
Manguito portabridas disponible en standards BS y ASTM

### TIGHTENING SEQUENCE ORDEN DE APRIETE



\* Ask flange installation manual or website  
Consultar manual instalación bridas o website

### TIGHTENING MAXIMUM TORQUE MÁXIMO PAR DE APRIETE

D	DN	inch	N · m	Kgf · cm	inch · lbs
<b>63-75</b>	65	2 ½"	25	255	221
<b>90</b>	80	3"	25	255	221
<b>110</b>	100	4"	30	306	265
<b>125-140</b>	125	5"	35	257	310
<b>160</b>	150	6"	40	408	354
<b>200-225</b>	200	8"	50	510	442
<b>250-280</b>	250	10"	80	816	708
<b>315</b>	300	12"	80	816	708

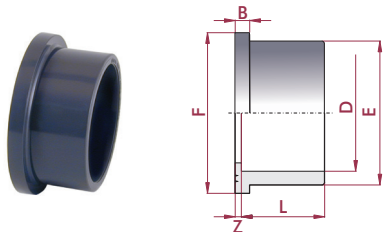
## UP. 10. SF. MA - FLANGE ADAPTOR MA

### PVC-U flange adaptor (sub flange)

- Female solvent socket
- ASTM series

### Manguito portabridas PVC-U

- Encolar hembra
- Serie ASTM



D	PN	REF.	CODE
2"	16	05 10 906 MA	<b>66836</b>
2½"	16	05 10 907 MA	<b>07097</b>
3"	16	05 10 908 MA	<b>07098</b>
4"	16	05 10 910 MA	<b>07099</b>
5"	16	05 10 913 MA	<b>07100</b>
6"	10	05 10 914 MA	<b>07101</b>
8"	10	05 10 917 MA	<b>07102</b>

L	Z	B	E	F
38	3	9	76	90
44	3	10	90	106
51	5	11	108	125
61	5	12	131	150
76	5	14	165	188
86	5	16	188	213
106	6	20	248	274

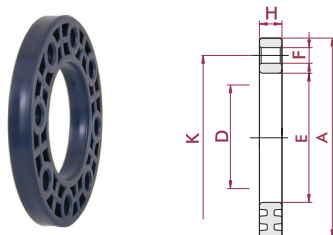
## UP. 11. FLG - FLANGE

### PVC-U loose flange

- ANSI-150

### Brida loca PVC-U

- ANSI-150



D	DN	PN	REF.	CODE
3"	80	16	05 99 104	<b>0599104</b>
4"	100	16	05 99 105	<b>0599105</b>
6"	150	16	05 99 106	<b>0599106</b>
8"	200	16	05 99 107	<b>0599107</b>

E	A	H	K	F
110	190,5	23	150-159	8 x 19
133	230	28	175-190,5	8 x 19,5
190	285	32	240,2	8 x 23
250	343	38	290-298	8 x 23

\* These flanges have slotted holes to allow the installation according to ASTM 16B.5 - ANSI 150 and ISO 15493.

\* Estas bridas tienen los agujeros dimensionados para permitir la instalación acorde a las normativas ASTM 16B.5 - ANSI 150 y ISO 15493.

## PVC-U UNIONS

### ENLACES 3 PIEZAS PVC-U

Unions are the preferred choice over flange adaptors for the connection of plastic pipes. With no metal parts, there is no corrosion and the weight is also reduced.

They are only available in small sizes (up until D110).

The union ends are manufactured in plain ends for solvent socket or thread always according the sizing standards, doing this system appropriate to adapt to other elements or systems. Cepex unions feature an o-ring in order to ensure better unions, so it is not needed the use of PTFE tape between nut and union end (it is only needed in the threaded ends).

They are not recommended when connected to pipe under bending stress.

The union nut should be tightened by hand. Must use a strap wrench for big sizes (D75, D90, D110).

With this type of unions, it is possible to mix several plastic materials.

Cuando hay que unir plásticos, éstos son preferidos a las bridas, ya que no contienen ninguna parte de metal y el diámetro exterior es más reducido.

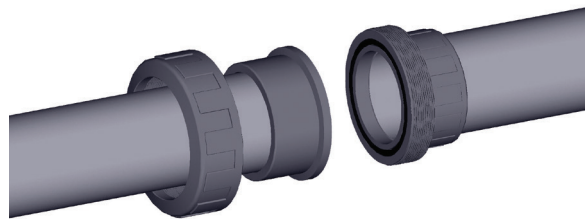
En contrapartida sólo están disponibles para diámetros pequeños (hasta D110).

Los manguitos de conexión están fabricados en terminaciones lisas de encolado o roscadas, siempre bajo normativas standards, haciendo posible la adaptación a otros componentes (incluso de materiales distintos).

Los enlaces 3 piezas Cepex incorporan junta para asegurar estanqueidad entre los dos manguitos de la unión, por lo que no debe usarse cinta de PTFE entre tuerca y manguito (usar cinta de PTFE solamente en las terminaciones de manguito roscadas). No son recomendables cuando el tubo tenga que estar sometido a fuerza de flexión (debido a posibles desalineaciones).

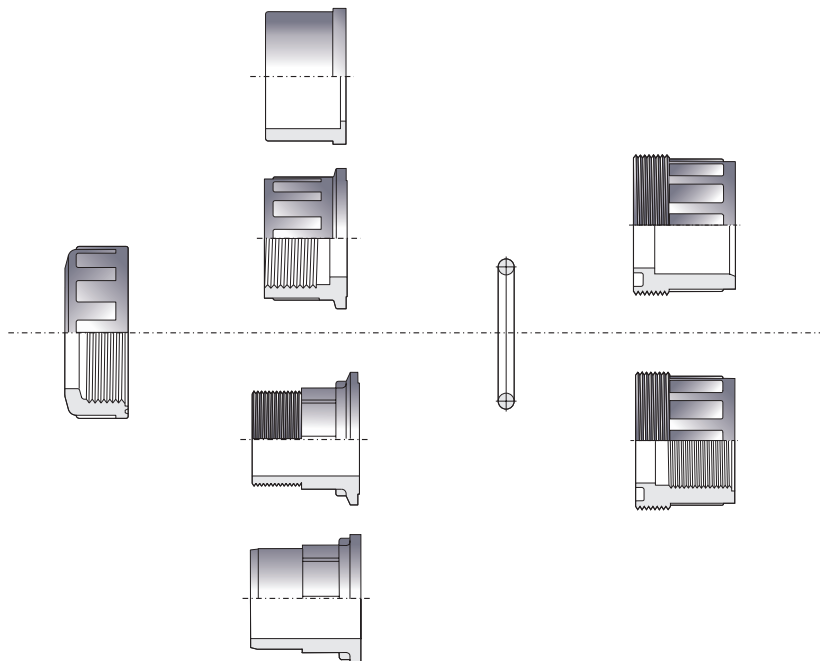
No es necesario el uso de ninguna herramienta, se rosca con las manos. Usar llave de cinta en diámetros grandes (D75, D90, D110).

Mediante estos enlaces, se pueden combinar diferentes tipos de plásticos.



## CONNECTION POSSIBILITIES

### POSIBILIDADES DE CONEXIÓN



#### Available standards

Solvent socket: metric, BS, ASTM  
Threaded: BSP, NPT

#### Standards disponibles

Encolar: métrico, BS, ASTM  
Roscar: BSP, NPT

Ask for other types of unions or other materials (PP, PE100...)  
Consultar otros tipos de conexión o materiales (PP, PE100...)

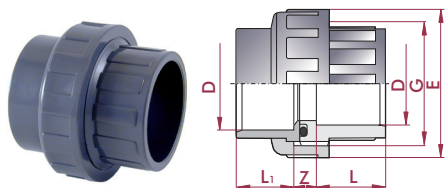
### UP. 50. SF. MA - UNION MA

**Union**

- Female solvent socket
- ASTM series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra
- Serie ASTM
- Anillo tórico en EPDM



D	DN	PN	REF.	CODE
½"	15	16	05 50 901 MA	<b>25472</b>
¾"	20	16	05 50 902 MA	<b>25473</b>
1"	25	16	05 50 903 MA	<b>25474</b>
1¼"	32	16	05 50 904 MA	<b>25475</b>
1½"	40	16	05 50 905 MA	<b>11937</b>
2"	50	16	05 50 906 MA	<b>15690</b>
2½"	65	10	05 50 907 MA	<b>41528</b>
3"	80	10	05 50 908 MA	<b>41529</b>
4"	100	10	05 50 910 MA	<b>41530</b>

L	Z	G	E	o-ring
16	13	1"	41	20 x 3
19	13	1¼"	52	38 x 3
22	13	1½"	60	33 x 3
26	15	2"	74	41 x 5
31	17	2¼"	80	47 x 5
38	21	2¾"	99	60 x 5
44	21	3½"	120	76 x 5
51	24	4"	138	91 x 5
61	26	5½"	179	110 x 5

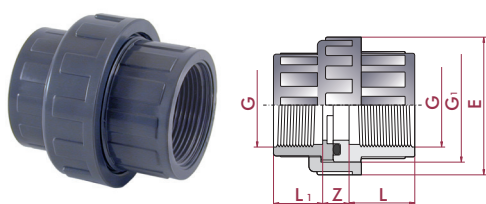
### UP. 50. FT. MA - UNION MA

**Union**

- NPT female thread
- ASTM series
- EPDM O-Ring

**Enlace 3 piezas**

- Roscar hembra NPT
- Serie ASTM
- Anillo tórico en EPDM



G	DN	PN	REF.	CODE
½"	15	10	05 50 801	<b>25476</b>
¾"	20	10	05 50 802	<b>25477</b>
1"	25	10	05 50 803	<b>25478</b>
1¼"	32	10	05 50 804	<b>25479</b>
1½"	40	10	05 50 805	<b>11811</b>
2"	50	10	05 50 806	<b>15692</b>
2½"	65	10	05 50 807	<b>53120</b>

L	L <sub>1</sub>	Z	G <sub>1</sub>	E	o-ring
16	15	12	1"	41	20,2 x 3,5
19	17	12	1¼"	52	28,2 x 3,5
22	20	14	1½"	60	32,9 x 3,5
26	24	16	2"	74	40,6 x 5,3
31	25	18	2¼"	80	47,0 x 5,3
38	29	20	2¾"	99	59,7 x 5,3
44	34	21	3½"	120	75,6 x 5,3

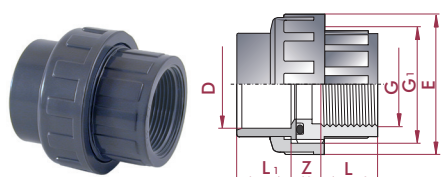
### UP. 50. SFT. MA - UNION MA

**Union adaptor**

- Female solvent socket x NPT female thread
- ASTM series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra x rosca hembra NPT
- Serie ASTM
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
1½" x 1½"	40	16	05 50 935 MA	<b>11810</b>
2" x 2"	50	16	05 50 936 MA	<b>15691</b>

L	Z	G <sub>1</sub>	E	o-ring
31	17	2¼"	90	47 x 5
38	21	2¾"	108	60 x 5

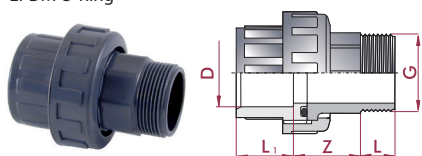
### UP. 51. SMT. MA - UNION MA

**Union adaptor**

- Female solvent socket x NPT male thread
- ASTM series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra x rosca macho NPT
- Serie ASTM
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
1½" x 1½"	40	16	05 51 935 MA	<b>11813</b>
2" x 2"	50	16	05 51 936 MA	<b>15694</b>

L <sub>1</sub>	L	Z
31	21	48
38	25	62

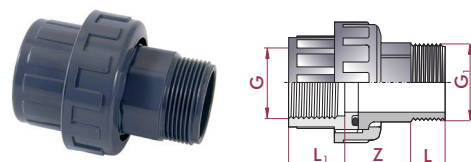
### UP. 51. MFT. MA - UNION MA

**Union**

- NPT female x male thread
- ASTM series
- EPDM O-Ring

**Enlace 3 piezas**

- Roscar hembra x macho NPT
- Serie ASTM
- Anillo tórico en EPDM



G x G <sub>1</sub>	DN	PN	REF.	CODE
1" x 1"	25	10	05 51 803	<b>71275</b>
1¼" x 1¼"	32	10	05 51 804	<b>71276</b>
1½" x 1½"	40	10	05 51 805	<b>11812</b>
2" x 2"	50	10	05 51 806	<b>15693</b>

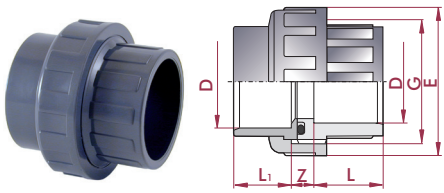
L <sub>1</sub>	L	Z
22	19	40
26	21	40
31	21	48
38	28	62

**UP. 50. SF. MA ME - UNION MA ME**
**Union**

- Female solvent socket
- ASTM - Metric Series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra
- Serie ASTM - métrica
- Anillo tórico en EPDM



D	DN	PN	REF.	CODE
1" - 32	25	16	05 50 903 MAME	<b>60557</b>
1¼" - 40	32	16	05 50 904 MAME	<b>60558</b>
1½" - 50	40	16	05 50 905 MAME	<b>66441</b>
2" - 63	50	16	05 50 906 MAME	<b>60561</b>
3" - 90	80	10	05 50 908 MAME	<b>60562</b>
4" - 110	100	10	05 50 910 MAME	<b>60563</b>

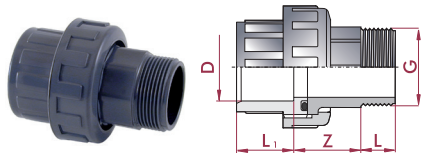
L	Z	G	E	o-ring
22	13	1½"	60	33 x 3
26	15	2"	74	41 x 5
31	17	2¼"	80	47 x 5
38	21	2¾"	99	60 x 5
51	24	4"	138	91 x 5
61	26	5½"	179	110 x 5

**UP. 51. SMT. MA ME - UNION MA ME**
**Union adaptor**

- Female solvent socket x BSP male thread
- ASTM series - Metric Series
- EPDM O-Ring

**Enlace 3 piezas**

- Encolar hembra x roscar macho BSP
- Serie ASTM - métrica
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
1½" x 1½"	40	16	05 99 281	<b>0599281</b>
2" x 2"	50	16	05 99 282	<b>0599282</b>
2½" x 2½"	65	16	05 99 283	<b>0599283</b>
3" x 3"	80	16	05 99 284	<b>0599284</b>

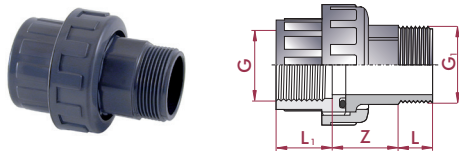
L <sub>1</sub>	L	Z
31	21	48
38	25	62
44	30	70
51	33	62

**UP. 51. MFT. MA ME - UNION MA ME**
**Union**

- BSP female x male thread NPT
- ASTM series
- ASTM series - Metric Series
- EPDM O-Ring

**Enlace 3 piezas**

- Roscar hembra BSP x macho NPT
- Serie ASTM
- Serie ASTM - métrica
- Anillo tórico en EPDM



D x G	DN	PN	REF.	CODE
1" x 1"	25	10	05 51 823	<b>71300</b>
1¼" x 1¼"	32	10	05 51 824	<b>71301</b>
1½" x 1½"	40	16	05 51 825	<b>71302</b>
2" x 2"	50	16	05 51 826	<b>71303</b>

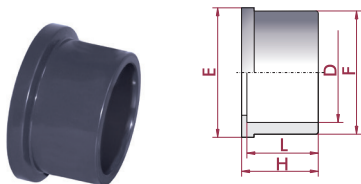
L <sub>1</sub>	L	Z
22	19	40
26	21	40
31	21	48
38	25	62

**UP. 22. SF. MA - UNION END MA**
**Union end**

- Female solvent socket
- ASTM series

**Manguito enlace**

- Encolar hembra
- Serie ASTM



D	DN	PN	REF.	CODE
½"	15	16	05 22 901 MA	<b>22033</b>
¾"	20	16	05 22 902 MA	<b>22034</b>
1"	25	16	05 22 903 MA	<b>22035</b>
1¼"	32	16	05 22 904 MA	<b>22036</b>
1½"	40	16	05 22 905 MA	<b>22037</b>
2"	50	16	05 22 906 MA	<b>22038</b>

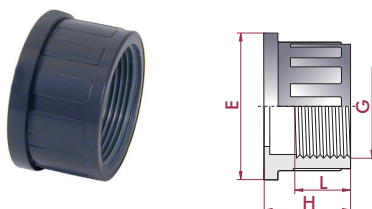
L	E	H	F
16	30	19	27
19	39	22	36
22	45	25	41
26	56	29	53
31	63	34	59
38	78	41	74

**UP. 22. FT. MA - UNION END MA**
**Union end**

- NPT female thread
- ASTM series

**Manguito enlace**

- Roscar hembra NPT
- Serie ASTM



G	DN	PN	REF.	CODE
½"	15	10	05 22 801	<b>22051</b>
¾"	20	10	05 22 802	<b>22052</b>
1"	25	10	05 22 803	<b>22053</b>
1¼"	32	10	05 22 804	<b>22054</b>
1½"	40	10	05 22 805	<b>22055</b>
2"	50	10	05 22 806	<b>22056</b>

L	H	E
15	21	30
17	23	39
20	26	45
24	30	56
25	35	63
29	42	78



## SIGHT GLASSES VISORES DE LÍQUIDOS

- Necessary element to show the fluid pass through an installation, as well as displaying the liquid state (degree of turbidity).
- Two available models, with the sight glass in several materials (PMMA or SAN).

- Elemento necesario para mostrar el paso de líquido por una instalación, así como la visualización del estado del líquido (grado de turbidez).
- Dos modelos disponibles, con el visor en distintos materiales (PMMA o SAN).

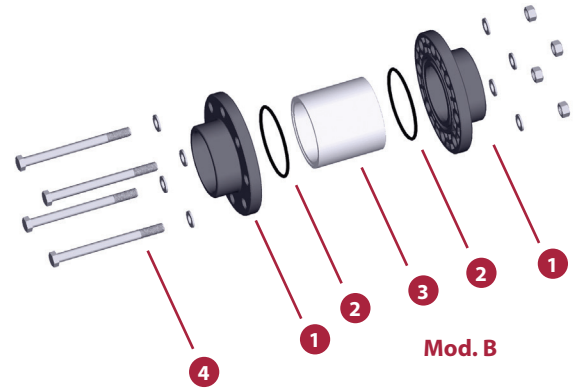
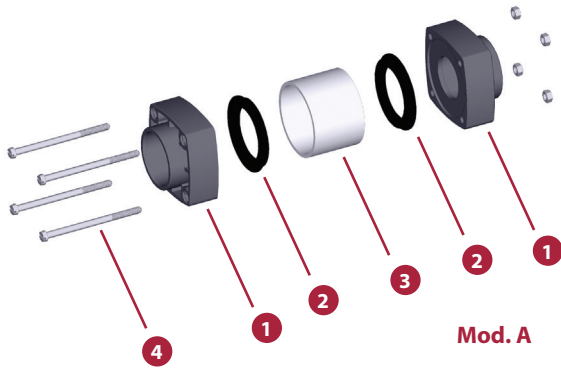
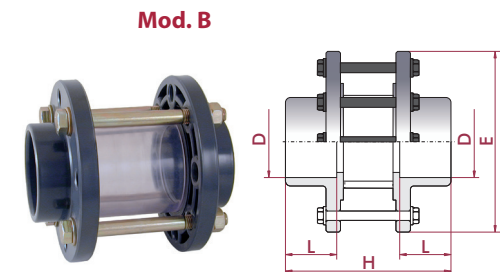
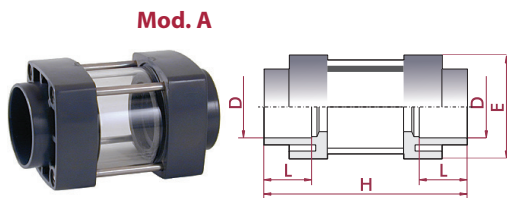


FIG.	Parts	Despiece	Material
1	Union / flange	Manguito / brida	PVC-U
2	O-ring	Junta	EPDM
3	Viewer	Visor	PMMA / SAN
4	Bolts	Tornillos	Zinc plated steel

### UP. 54. SF

- Material:  
D50 - D63: PMMA (Mod. A)  
D75 - D225: SAN (Mod. B)
- 4 bolts
- Female solvent socket
- ASTM series

- Material:  
D50 - D63: PMMA (Mod. A)  
D75 - D225: SAN (Mod. B)
- 4 tornillos
- Encolar hembra
- Serie ASTM



D	DN	PN	REF.	CODE
1½"	40	6	05 54 905 MA	<b>67817</b>
2"	50	6	05 54 906 MA	<b>67818</b>
2½"	65	10	05 54 907 MA	<b>67819</b>
3"	80	10	05 54 908 MA	<b>67820</b>
4"	100	10	05 54 910 MA	<b>67821</b>
5"	110	10	05 54 913 MA	<b>67822</b>
6"	125	10	05 54 914 MA	<b>67823</b>
8"	150	10	05 54 917 MA	<b>67824</b>

L	H	E	Mod.
31	130	80	A
38	159	92	A
44	165	185	B
51	180	200	B
61	250	220	B
69	280	230	B
76	310	250	B
86	360	285	B