

# LESSO



## Tubería PE y Accesorios de Agua





## LESSO GROUP HOLDINGS LIMITED

Fundada en 1986, LESSO (código bursátil: 02128. HK) es un líder global en muebles para el hogar y materiales de construcción. El portafolio de negocios del Grupo abarca tuberías plásticas, materiales de construcción y muebles para el hogar, protección ambiental, nuevas energías, plataformas de servicio de cadena de suministro y otros. Ofrece una amplia gama de productos como tuberías, energía fotovoltaica, grifería y sanitarios, materiales integrales de cocina, puertas y ventanas integrales, encofrados de aluminio y andamios inteligentes, purificadores de agua, materiales impermeabilizantes y selladores, equipos de extinción de incendios, válvulas, cables, iluminación, materiales de higiene, artículos para protección ambiental, instalaciones agrícolas y jaulas de acuicultura oceánica. En 2023, los ingresos por ventas de LESSO alcanzaron más de USD 4.38 mil millones.

Desde la implementación de una estrategia de globalización y la expansión de su presencia global, LESSO ha evolucionado en una multinacional sofisticada. Cuenta con más de 30 bases de producción avanzadas en todo el mundo, ampliando sus redes industriales y de ventas para cubrir Asia, América del Norte, América del Sur, Europa, África y Oceanía. Esto permite a LESSO proporcionar productos y servicios de calidad a los clientes globales de acuerdo con su distribución estratégica, mejorada continuamente de manera oportuna y eficiente.

LESSO ha fundado su centro de I+D con más de 1,000 investigadores científicos, un centro tecnológico empresarial acreditado a nivel nacional y dos estaciones de trabajo postdoctorales para apoyar su innovación y desarrollo técnico. El Grupo ha asumido un papel de liderazgo en la revisión de más de 120 estándares industriales internacionales y chinos. LESSO posee más de 3000 patentes (algunas de ellas en trámite), y ofrece más de 10,000 variedades de productos, lo que lo convierte en uno de los fabricantes más completos en la industria de tuberías. Sus productos se utilizan globalmente en diferentes áreas, incluyendo decoración del hogar, construcción civil, suministro municipal de agua, drenaje, gestión de energía, suministro de electricidad y telecomunicaciones, suministro de gas, extinción de incendios, protección ambiental, agricultura, acuicultura oceánica, etc.

Fiel a su idea de "Visualizando lo Mejor, Construyendo el Futuro". LESSO sigue comprometida con la creación de un mejor entorno de vida, y con la promoción de ciudades ideales que se caractericen por su ecología, habitabilidad y eficiencia. Con esfuerzos concertados de varios sectores, LESSO desempeñará plenamente su papel en el mantenimiento de un espacio saludable y hermoso para que los residentes globales puedan disfrutar de una vida cómoda.



Instituto de Investigación y Centro de Pruebas LESSO



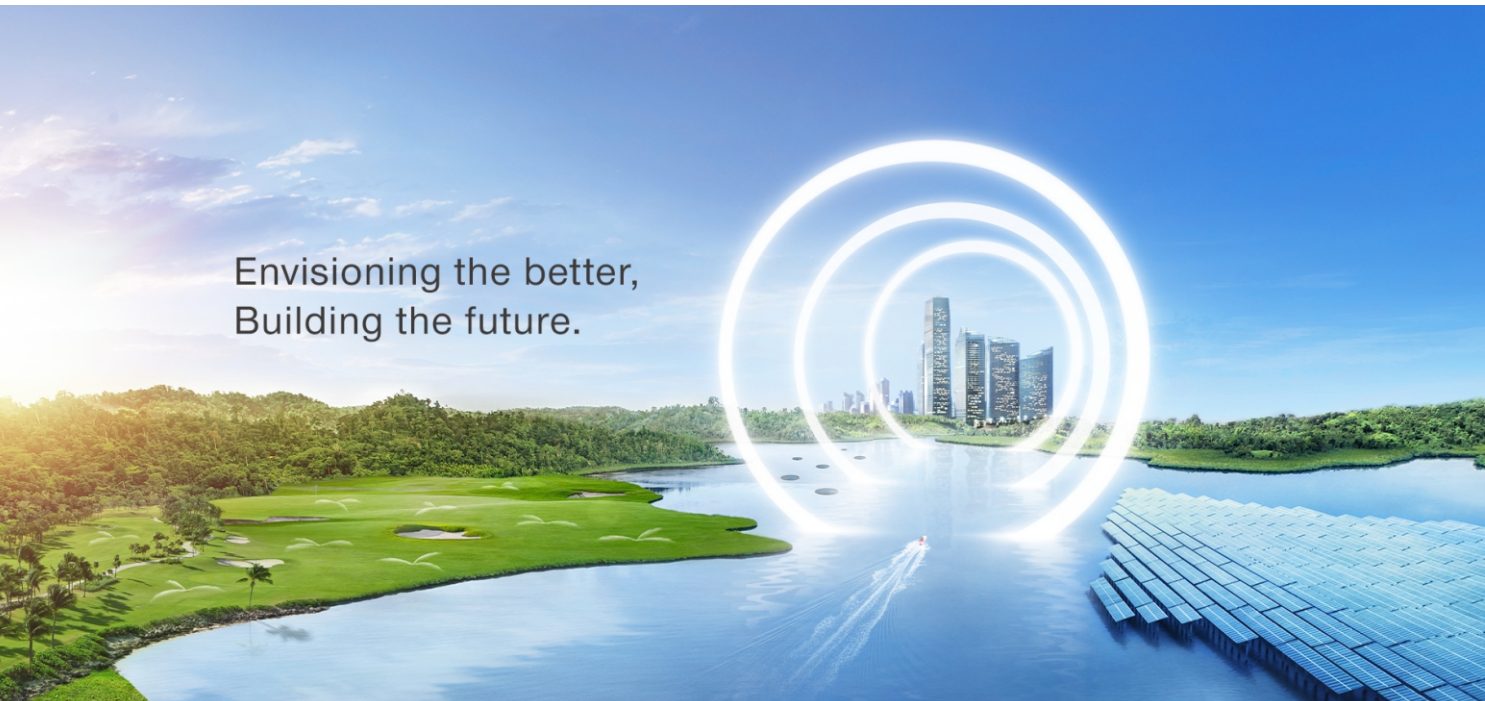
Institución Educativa de LESSO



Apartamento de Formación



Sede de LESSO



Envisioning the better,  
Building the future.

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## ■ Descripción del Producto

- ⊙ **Material:** PE 80 o PE 100
- ⊙ **Clasificación de Presión:** 0.4MPa, 0.6MPa, 0.8MPa, 1.0MPa, 1.25MPa, 1.6MPa, 2.0MPa
- ⊙ **Tamaño:** disponibilidad completa de 20 mm a 1600 mm
- ⊙ **Norma:** ISO 4427-2, EN 12201-2, GB/T 13663-2, Bs6920, AS/NZS 4130, BS EN12201-2
- ⊙ **Colores:**
  - Azul
  - Negro con rayas azules
  - Otros colores también están disponibles bajo pedido
- ⊙ **Forma de Suministro:**
  - Longitud recta de 5.8 metros (todos los tamaños)
  - Longitud de bobina de 50 o 100 metros (dn20~dn63)
  - Otras formas también están disponibles bajo pedido



## ■ Ventajas

- ⊙ **No tóxico:** in aditivos de metales pesados, no se cubriría con suciedad ni se contaminaría por bacterias. Sanitario.Sin contaminación secundaria.
- ⊙ **Resistencia a la corrosión:** no afectado por sustancias químicas y sustancias electroquímicas que causan corrosión en los metales.
- ⊙ **Alta capacidad de flujo:** paredes interiores lisas y baja resistencia a la abrasión resultan en baja resistencia al flujo y alta capacidad de flujo.
- ⊙ **Excelente Flexibilidad:** puede suministrarse en forma de bobina, se requieren menos accesorios y menor costo en la instalación.
- ⊙ **Alta resistencia al impacto y a la rotura.**
- ⊙ **Excelente resistencia a los rayos UV.**
- ⊙ **Resistencia al asentamiento diferencial:** bajos requisitos para el tratamiento de la base.
- ⊙ **Fácil Instalación:** ligero, fácil de transportar y manejar.
- ⊙ **Larga vida útil:** La tubería PE de agua puede funcionar durante más de 50 años con un uso adecuado.
- ⊙ **Usar tecnología sin zanja.**
- ⊙ **Variedad de Uniones Disponibles:** unión por fusión de conector de encaje, unión de fusión a tope, unión de electro fusión y unión de transición.

## ■ Aplicaciones

- ⊙ **Suministro de agua municipal**
- ⊙ **Suministro de agua comercial y residencial**
- ⊙ **Transporte de líquidos industriales**
- ⊙ **Tratamiento de aguas residuales**



Los porcentajes de daño en las líneas de suministro de agua en el terremoto de Kobe/Japón en 1995.

| Tipo de tubería              | Porcentaje de daño Pieza/km |
|------------------------------|-----------------------------|
| Tubería de Hierro Dúctil     | 0.488                       |
| Tubería de Hierro Fundido    | 1.508                       |
| Tubería de PVC               | 1.430                       |
| Tubería de Acero             | 0.437                       |
| Tubería de Acero con Asbesto | 1.782                       |
| Tubería PE de                | 0                           |

**■ Propiedades Físicas**

| Propiedades                                  |               | Valor Típico |
|--|---------------|--------------|
| Tasa de Extensión al Romperse, %             |               | ≥350         |
| Reversión Longitudinal, %(110°C)             |               | ≤3           |
| Tiempo de Inducción de Oxidación, min(210°C) |               | ≥20          |
| Prueba de Presión Hidráulica                 | 20°C, 100h    | Sin Fallos   |
|  | PE80 10.0MPa  |              |
|  | PE100 12.0MPa |              |
|  | 80°C, 165h    | Sin Fallos   |
|  | PE80 4.5MPa   |              |
|  | PE100 5.4MPa  |              |
|  | 80°C, 1000h   | Sin Fallos   |
|  | PE80 4.0MPa   |              |
| PE100 5.0MPa                                 |               |              |

| Característica  | Requisitos   | Método de prueba                  |  | Test method             |
|---|--|-----------------------------------|--|-------------------------|
|   |  | Parámetro                         | Value                                    |                         |
| Densidad del compuesto                                  | ≥930kg/m <sup>3</sup>  | Temperatura de prueba             | 23°C                                     | ISO 1183-1 o ISO 1183-2 |
|   |  | Número de piezas de prueba        | Debe cumplir con ISO 1183-1 o ISO 1183-2 |                         |
| Contenido de negro de carbón                            | (2.0 a 2.5) % (por masa)                                     | Debe cumplir con ISO 6964         |  | ISO 6964                |
| Dispersión de negro de carbón                           | Grado ≤ 3 Calificación de dispersión A1, A2, A3, o B         | Preparación de la pieza de prueba | Libre                                    | ISO 18553               |
|   |  | Número de piezas de prueba        | Debe cumplir con ISO 18553               |                         |
| Contenido volátil                                       | ≤350 mg/kg   | Número de piezas de prueba        | 1  | EN 12099                |
| Contenido de agua                                       | ≤300 mg/kg (Equivalente a < 0.03% por masa)                  | Número de piezas de prueba        | 1  | ISO 15512               |
| Tiempo de inducción de oxidación (Estabilidad térmica)  | ≥20 min  | Temperatura de prueba             | 210°C                                    | ISO 11357-6             |
|   |  | Número de piezas de prueba        | 3  |                         |
|   |  | Atmósfera de prueba               | Oxígeno                                  |                         |
| Índice de Flujo de Masa Fundida (MFR) para PE80 y PE100 | 0.20≤MFR ≤ 1.40 g/10 min Desviación máxima del valor nominal | Masa de carga                     | 5kg                                      | ISO 1133-1              |
|   |  | Temperatura de prueba             | 190°C                                    |                         |
|   |  | Tiempo                            | 10 min                                   |                         |
|   |  | Número de piezas de prueba        | Debe cumplir con ISO 1133-1              |                         |

| SDR 33 (PN 0.4)       |                     |                     |
|-----------------------|---------------------|---------------------|
| No. de SAP (negro/6M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010030001            | 160                 | 4.9                 |
|                       | 180                 | 5.5                 |
| 8010030002            | 200                 | 6.2                 |
| 8010033261            | 225                 | 6.9                 |
| 8010030954            | 250                 | 7.7                 |
|                       | 280                 | 8.6                 |
| 8010030005            | 315                 | 9.7                 |
| 8010030007            | 355                 | 10.9                |
| 8010030008            | 400                 | 12.3                |
| 8010030959            | 450                 | 13.8                |
| 8010030961            | 500                 | 15.3                |
| 8010030962            | 560                 | 17.2                |
| 8010030011            | 630                 | 19.3                |
|                       | 710                 | 21.8                |
|                       | 800                 | 24.5                |

| SDR 21 (PN 0.6)       |                     |                     |
|-----------------------|---------------------|---------------------|
| No. de SAP (negro/6M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010032965            | 90                  | 4.3                 |
| 8010030967            | 110                 | 5.3                 |
|                       | 125                 | 6.0                 |
| 8010030731            | 160                 | 7.7                 |
|                       | 180                 | 8.6                 |
|                       | 200                 | 9.6                 |
|                       | 225                 | 10.8                |
|                       | 250                 | 11.9                |
|                       | 280                 | 13.4                |
| 8010030736            | 315                 | 15.0                |
|                       | 355                 | 16.9                |
| 8010030730            | 400                 | 19.1                |
|                       | 450                 | 21.5                |
| 8010030983            | 500                 | 23.9                |
|                       | 560                 | 26.7                |
|                       | 630                 | 30.0                |
|                       | 710                 | 33.9                |
|                       | 800                 | 38.1                |

| SDR 17 (PN 0.8)       |                     |                     |
|-----------------------|---------------------|---------------------|
| No. de SAP (negro/6M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010030019            | 75                  | 4.5                 |
| 8010030020            | 90                  | 5.4                 |
| 8010030014            | 110                 | 6.6                 |
| 8010030016            | 125                 | 7.4                 |
| 8010030993            | 160                 | 9.5                 |
| 8010031683            | 180                 | 10.7                |
| 8010031527            | 200                 | 11.9                |
| 8010031545            | 225                 | 13.4                |
| 8010031682            | 250                 | 14.8                |
| 8010031681            | 280                 | 16.6                |
|                       | 315                 | 18.7                |
| 8010031776            | 355                 | 21.1                |
| 8010031546            | 400                 | 23.7                |
| 8010031006            | 450                 | 26.7                |
|                       | 500                 | 29.7                |
|                       | 560                 | 33.2                |
|                       | 630                 | 37.4                |
|                       | 710                 | 42.1                |
|                       | 800                 | 47.4                |

| SDR 13.6 (PN 1.0)     |                     |                     |
|-----------------------|---------------------|---------------------|
| No. de SAP (negro/6M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010030798            | 63                  | 4.7                 |
| 8010030792            | 75                  | 5.6                 |
| 8010031041            | 90                  | 6.7                 |
| 8010031015            | 110                 | 8.1                 |
| 8010030025            | 125                 | 9.2                 |
| 8010031018            | 160                 | 11.8                |
|                       | 180                 | 13.3                |
| 8010031020            | 200                 | 14.7                |
| 8010031022            | 225                 | 16.6                |
| 8010031024            | 250                 | 18.4                |
|                       | 280                 | 20.6                |
| 8010031027            | 315                 | 23.2                |
| 8010031029            | 355                 | 26.1                |
|                       | 400                 | 29.4                |
|                       | 450                 | 33.1                |
|                       | 500                 | 36.8                |
|                       | 560                 | 41.2                |
|                       | 630                 | 46.3                |
|                       | 710                 | 52.2                |
|                       | 800                 | 58.8                |

| SDR 11 (PN 1.25)      |                     |                     |
|-----------------------|---------------------|---------------------|
| No. de SAP (negro/6M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010032970            | 25                  | 2.3                 |
| 8010030799            | 32                  | 3.0                 |
| 8010030800            | 40                  | 3.7                 |
| 8010030039            | 50                  | 4.6                 |
| 8010032975            | 63                  | 5.8                 |
| 8010032977            | 75                  | 6.8                 |
| 8010032979            | 90                  | 8.2                 |
| 8010030813            | 110                 | 10.0                |
| 8010031688            | 125                 | 11.4                |
|                       | 140                 | 12.7                |
| 8010030756            | 160                 | 14.6                |
|                       | 180                 | 16.4                |
| 8010031467            | 200                 | 18.2                |
|                       | 225                 | 20.5                |
|                       | 250                 | 22.7                |
|                       | 280                 | 25.4                |
|                       | 315                 | 28.6                |
| 8010032129            | 355                 | 32.2                |
| 8010031460            | 400                 | 36.3                |
|                       | 450                 | 40.9                |
|                       | 500                 | 45.4                |
|                       | 560                 | 50.8                |
|                       | 630                 | 57.2                |

| Coil Pipe             |                     |                     |                    |
|-----------------------|---------------------|---------------------|--------------------|
| SDR 13.6 (PN 1.0)     |                     |                     |                    |
| No. de SAP (Azul/50M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) | Longitud (m/rollo) |
| 8010030584            | 63                  | 4.7                 | 50                 |

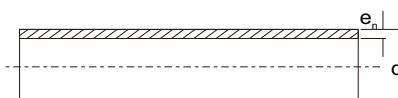
| SDR 11 (PN 1.25)      |                     |                     |                    |
|-----------------------|---------------------|---------------------|--------------------|
| No. de SAP (Azul/50M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) | Longitud (m/rollo) |
| 8010033078            | 25                  | 2.3                 | 50/100             |
| 8010030597            | 32                  | 3.0                 | 50/100             |
| 8010030599            | 40                  | 3.7                 | 50/100             |
| 8010030601            | 50                  | 4.6                 | 50                 |
| 8010030603            | 63                  | 5.8                 | 50                 |

SDR: Tamaño Estándar

PN: Tasa

d<sub>n</sub>: Diámetro Exterior Nominal Presión Nominal (unidad: MPa)

e<sub>n</sub>: Espesor de Pared Nominal



| SDR 26 (PN 0.6)         |                     |                     |
|-------------------------|---------------------|---------------------|
| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010030738              | 110                 | 4.2                 |
| 8010031423              | 125                 | 4.8                 |
| 8010030794              | 160                 | 6.2                 |
|                         | 180                 | 6.9                 |
| 8010030783              | 200                 | 7.7                 |
| 8010030087              | 225                 | 8.6                 |
| 8010030091              | 250                 | 9.6                 |
|                         | 280                 | 10.7                |
| 8010030101              | 315                 | 12.1                |
|                         | 355                 | 13.6                |
| 8010031970              | 400                 | 15.3                |
| 8010030114              | 450                 | 17.2                |
|                         | 500                 | 19.1                |
|                         | 560                 | 21.4                |
| 8010032009              | 630                 | 24.1                |
|                         | 710                 | 27.2                |
|                         | 800                 | 30.6                |
|                         | 900                 | 34.4                |
|                         | 1000                | 38.2                |
|                         | 1200                | 46.3                |
|                         | 1400                | 53.9                |
|                         | 1600                | 61.6                |

| SDR 17 (PN1.0)          |                     |                     |
|-------------------------|---------------------|---------------------|
| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010034798              | 32                  | 2.3                 |
| 8010034799              | 40                  | 2.4                 |
| 8010033201              | 50                  | 3.0                 |
| 8010031990              | 63                  | 3.6                 |
| 8010031422              | 75                  | 4.5                 |
| 8010030324              | 90                  | 5.4                 |
| 8010030225              | 110                 | 6.6                 |
| 8010031146              | 125                 | 7.4                 |
| 8010031952              | 140                 | 8.3                 |
| 8010030241              | 160                 | 9.5                 |
| 8010030825              | 180                 | 10.7                |
| 8010030249              | 200                 | 11.9                |
| 8010031148              | 225                 | 13.4                |
| 8010030261              | 250                 | 14.8                |
| 8010031149              | 280                 | 16.6                |
| 8010031151              | 315                 | 18.7                |
| 8010031153              | 355                 | 21.1                |
| 8010030279              | 400                 | 23.7                |
| 8010031156              | 450                 | 26.7                |
| 8010030294              | 500                 | 29.7                |
| 8010031158              | 560                 | 33.2                |
| 8010030308              | 630                 | 37.4                |
|                         | 710                 | 42.1                |
| 8010030320              | 800                 | 47.4                |
|                         | 900                 | 53.3                |
| 8010035214              | 1000                | 59.3                |
|                         | 1200                | 67.9                |

| SDR 21 (PN 0.8)         |                     |                     |
|-------------------------|---------------------|---------------------|
| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
|                         | 40                  | 2.3                 |
|                         | 50                  | 2.4                 |
|                         | 63                  | 3.0                 |
|                         | 75                  | 3.6                 |
| 8010031920              | 90                  | 4.3                 |
| 8010031919              | 110                 | 5.3                 |
| 8010033031              | 125                 | 6.0                 |
| 8010033030              | 140                 | 6.7                 |
| 8010033029              | 160                 | 7.7                 |
|                         | 180                 | 8.6                 |
| 8010031111              | 200                 | 9.6                 |
|                         | 225                 | 10.8                |
|                         | 250                 | 11.9                |
| 8010031113              | 280                 | 13.4                |
| 8010033448              | 315                 | 15.0                |
|                         | 355                 | 16.9                |
|                         | 400                 | 19.1                |
|                         | 450                 | 21.5                |
| 8010031118              | 500                 | 23.9                |
|                         | 560                 | 26.7                |
|                         | 630                 | 30.0                |
|                         | 710                 | 33.9                |
|                         | 800                 | 38.1                |
|                         | 900                 | 42.9                |
|                         | 1000                | 47.7                |
|                         | 1200                | 57.2                |
|                         | 1400                | 66.8                |
|                         | 1600                | 76.2                |

| SDR 13.6 (PN 1.25)      |                     |                     |
|-------------------------|---------------------|---------------------|
| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
|                         | 25                  | 2.3                 |
|                         | 32                  | 2.5                 |
|                         | 40                  | 3.0                 |
| 8010031718              | 50                  | 3.7                 |
| 8010031597              | 63                  | 4.7                 |
| 8010031673              | 75                  | 5.6                 |
| 8010011478              | 90                  | 6.7                 |
| 8010011479              | 110                 | 8.1                 |
| 8010032001              | 125                 | 9.2                 |
| 8010032035              | 140                 | 10.3                |
| 8010031455              | 160                 | 11.8                |
| 8010032002              | 180                 | 13.3                |
| 8010031433              | 200                 | 14.7                |
| 8010031999              | 225                 | 16.6                |
| 8010032013              | 250                 | 18.4                |
|                         | 280                 | 20.6                |
| 8010032000              | 315                 | 23.2                |
| 8010033010              | 355                 | 26.1                |
| 8010032012              | 400                 | 29.4                |
| 8010032119              | 450                 | 33.1                |
| 8010032117              | 500                 | 36.8                |
| 8010032118              | 630                 | 46.3                |
| 8010033143              | 710                 | 52.2                |
|                         | 800                 | 58.8                |
|                         | 900                 | 66.2                |
|                         | 1000                | 72.5                |

**SDR 11 (PN 1.6)**

| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
|-------------------------|---------------------|---------------------|
| 8010011477              | 20                  | 2.3                 |
| 8010030746              | 25                  | 2.3                 |
| 8010030477              | 32                  | 3.0                 |
| 8010030484              | 40                  | 3.7                 |
| 8010030491              | 50                  | 4.6                 |
| 8010030500              | 63                  | 5.8                 |
| 8010030765              | 75                  | 6.8                 |
| 8010030506              | 90                  | 8.2                 |
| 8010030428              | 110                 | 10.0                |
| 8010030433              | 125                 | 11.4                |
| 8010032863              | 140                 | 12.7                |
| 8010030438              | 160                 | 14.6                |
| 8010030444              | 180                 | 16.4                |
| 8010031445              | 200                 | 18.2                |
| 8010030458              | 225                 | 20.5                |
| 8010031217              | 250                 | 22.7                |
| 8010031218              | 280                 | 25.4                |
| 8010030473              | 315                 | 28.6                |
| 8010031444              | 355                 | 32.2                |
| 8010031443              | 400                 | 36.3                |
| 8010030488              | 450                 | 40.9                |
| 8010030495              | 500                 | 45.4                |
| 8010031424              | 560                 | 50.8                |
| 8010032132              | 630                 | 57.2                |
|                         | 710                 | 64.5                |
|                         | 800                 | 72.6                |
|                         | 900                 | 81.7                |
|                         | 1000                | 90.2                |

**SDR 9(PN2.0)**

| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
|-------------------------|---------------------|---------------------|
|                         | 20                  | 2.3                 |
|                         | 25                  | 3.0                 |
|                         | 32                  | 3.6                 |
|                         | 40                  | 4.5                 |
|                         | 50                  | 5.6                 |
|                         | 63                  | 7.1                 |
|                         | 75                  | 8.4                 |
|                         | 90                  | 10.1                |
|                         | 110                 | 12.3                |
|                         | 125                 | 14.0                |
|                         | 140                 | 15.7                |
|                         | 160                 | 17.9                |
|                         | 180                 | 20.1                |
|                         | 200                 | 22.4                |
|                         | 225                 | 25.2                |
|                         | 250                 | 27.9                |
|                         | 280                 | 31.3                |
|                         | 315                 | 35.2                |

**Tubería en Bobina**

**SDR 21(PN0.8)**

| No. de SAP (Azul/50M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) | Longitud (m/rollo) |
|-----------------------|---------------------|---------------------|--------------------|
| 8010034299            | 40                  | 2.3                 | 50/100             |
| 8010034301            | 50                  | 2.4                 | 50                 |
| 8010034302            | 63                  | 3.0                 | 50                 |

**Tubería en Bobina**

**SDR 17(PN1.0)**

| No. de SAP (negro/50M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) | Longitud (m/rollo) |
|------------------------|---------------------|---------------------|--------------------|
| 8010033408             | 32                  | 2.3                 | 50/100             |
| 8010033373             | 40                  | 2.4                 | 50/100             |
| 8010033200             | 50                  | 3.0                 | 50                 |
| 8010032034             | 63                  | 3.8                 | 50                 |

**Tubería en Bobina**

**SDR 13.6 (PN 1.25)**

| No. de SAP (Azul/50M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) | Longitud (m/rollo) |
|-----------------------|---------------------|---------------------|--------------------|
| 8010034317            | 25                  | 2.3                 | 50/100             |
| 8010034318            | 32                  | 2.4                 | 50/100             |
| 8010034303            | 40                  | 3.0                 | 50/100             |
| 8010031542            | 63                  | 4.7                 | 50                 |

**Tubería en Bobina**

**SDR 11 (PN 1.6)**

| No. de SAP (negro/50M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) | Longitud (m/rollo) |
|------------------------|---------------------|---------------------|--------------------|
| 8010031806             | 20                  | 2.3                 | 50/100             |
| 8010030754             | 25                  | 2.3                 | 50/100             |
| 8010030615             | 32                  | 3.0                 | 50/100             |
| 8010031543             | 40                  | 3.7                 | 50/100             |
| 8010030619             | 50                  | 4.6                 | 50                 |
| 8010030620             | 63                  | 5.8                 | 50                 |

## ■ Descripción del Producto

**Material:** PE, esqueleto de malla de acero

**Clasificación de Presión:** 1.0 MPa, 1.6 MPa, 2.0 MPa, 2.5 MPa

**Norma:** CJ/T189

**Tamaño:** disponibilidad completa de 50 mm a 500 mm

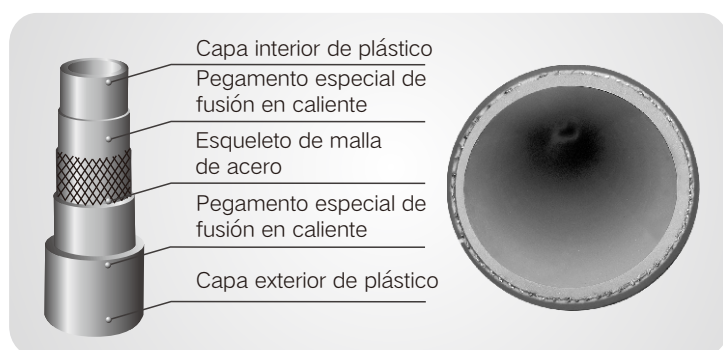
**Colores:** Negro (todos los tamaños)

Otros colores también están disponibles bajo pedido

**Forma de Suministro:**

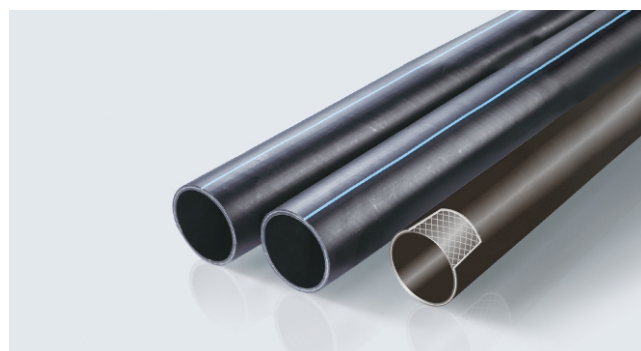
Longitud recta de 6 metros o 8 metros (todos los tamaños)

Otras formas también están disponibles bajo pedido



## ■ Ventajas

- ⊙ Mayor resistencia y resistencia al arrastre.
- ⊙ Excelente rigidez, resistencia al impacto. Bajo coeficiente de expansión lineal.
- ⊙ Pared interior lisa, no se cubrirá con suciedad. Baja resistencia al flujo, alta capacidad de flujo.
- ⊙ Tanto la pared interior como la exterior están hechas de plástico, lo que hace que la tubería y los accesorios tengan buena resistencia a la corrosión.
- ⊙ Ligero, fácil de transportar.
- ⊙ Usar unión por electrofusión, sin fugas en la unión, instalación rápida y fácil.
- ⊙ El producto está compuesto de alambre de acero y plástico, superando la rápida grieta por estrés de la tubería de plástico.
- ⊙ Buena resistencia a la abrasión. El producto puede funcionar durante más de 50 años con un uso normal.



## Tubería Compuesta de Plástico con Esqueleto de Malla de Acero-Plástico (PE) para Suministro de Agua

| PN1.0                   |                     |                     |
|-------------------------|---------------------|---------------------|
| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010120317              | 110                 | 6.0                 |
| 8010120316              | 160                 | 6.5                 |
| 8010120380              | 200                 | 7.0                 |
|                         | 225                 | 8.0                 |
| 8010120379              | 250                 | 10.5                |
| 8010120378              | 315                 | 12.0                |
| 8010120377              | 355                 | 12.5                |
|                         | 400                 | 13.0                |
| 8010120376              | 500                 | 16.0                |

| PN1.6                   |                     |                     |
|-------------------------|---------------------|---------------------|
| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010120226              | 50                  | 5.0                 |
| 8010120229              | 63                  | 5.5                 |
| 8010120230              | 75                  | 6.0                 |
| 8010120231              | 90                  | 6.5                 |
| 8010120033              | 110                 | 7.0                 |
| 8010120328              | 160                 | 9.0                 |
| 8010120042              | 200                 | 9.5                 |
| 8010120434              | 225                 | 8.0                 |
| 8010120407              | 250                 | 12.0                |
| 8010120415              | 315                 | 13.0                |
| 8010120435              | 355                 | 14.0                |
| 8010120424              | 400                 | 15.0                |
| 8010120389              | 500                 | 18.0                |

| PN2.0                   |                     |                     |
|-------------------------|---------------------|---------------------|
| No. de SAP (negro/5.8M) | d <sub>n</sub> (mm) | e <sub>n</sub> (mm) |
| 8010120081              | 110                 | 7.5                 |
| 8010120082              | 160                 | 9.5                 |
| 8010120080              | 200                 | 10.5                |
| 8010120282              | 225                 | 10.5                |
|                         | 250                 | 12.0                |
|                         | 315                 | 13.0                |



## ■ Features

**Material:** PE 100

**Tamaño:** disponibilidad completa de 20 mm a 110 mm

**Clasificación de Presión:** 1.6 MPa, u otras presiones nominales disponibles bajo pedido

**Norma:** ISO 4427-3, EN 12201-3, BS EN 12201-3 BS 6920

**Color:** azul (todos los tamaños)

negro (todos los tamaños)

otros colores también están disponibles bajo pedido

**Unión:** unión de tubería y accesorios de unión por fusión con conector de encaje

## ■ Ventajas

**No tóxico:** sin aditivos de metales pesados, no se cubriría con suciedad ni se contaminaría por bacterias

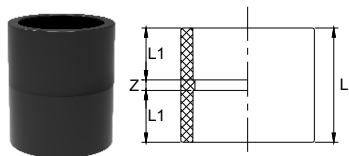
**Resistencia a la corrosión:** resistente a sustancias químicas y a la corrosión electroquímica

**Bajos Costos de Instalación:** ligero y fácil de instalar puede reducir los costos de instalación

**Alta Capacidad de Flujo:** paredes interiores lisas resultan en baja pérdida de presión y alto volumen

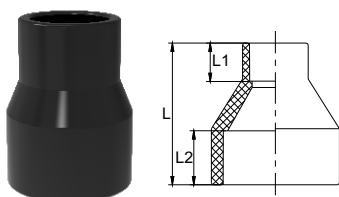
**Longevidad:** más de 50 años bajo uso adecuado

**Acoplamiento (Soc×Soc)**



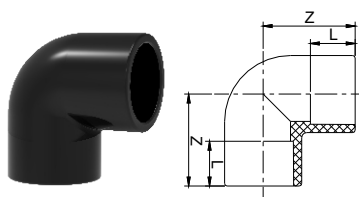
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L1   | L  | Z | PCS/CTN |
|-----------------------|----------------------|-------------|------|----|---|---------|
| 8010041336            | 8010041345           | 20          | 16.5 | 37 | 4 | 870     |
| 8010041337            | 8010041346           | 25          | 18   | 40 | 4 | 560     |
| 8010041338            | 8010041347           | 32          | 20.5 | 45 | 4 | 340     |
| 8010041339            | 8010041348           | 40          | 22.5 | 50 | 5 | 240     |
| 8010041340            | 8010041349           | 50          | 25.5 | 56 | 5 | 260     |
| 8010041341            | 8010041350           | 63          | 30   | 65 | 5 | 160     |
| 8010041342            | 8010041351           | 75          | 33   | 72 | 6 | 100     |
| 8010041343            | 8010041352           | 90          | 37   | 78 | 4 | 50      |
| 8010041335            | 8010041344           | 110         | 42   | 89 | 5 | 36      |

**Reductor (Soc×Soc)**



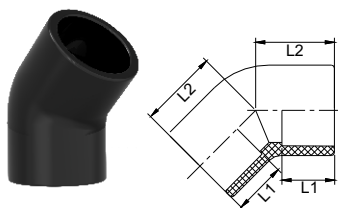
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L1   | L2   | L   | PCS/CTN |
|-----------------------|----------------------|-------------|------|------|-----|---------|
| 8010041975            | 8010040245           | 25x20       | 16.5 | 18   | 45  | 600     |
| 8010041560            | 8010040246           | 32x20       | 16.5 | 20.5 | 56  | 340     |
| 8010040230            | 8010040247           | 32x25       | 18   | 20.5 | 52  | 300     |
| 8010041976            | 8010040248           | 40x20       | 16.5 | 22.5 | 63  | 336     |
| 8010040231            | 8010040249           | 40x25       | 18   | 22.5 | 61  | 240     |
| 8010040232            | 8010040250           | 40x32       | 20.5 | 22.5 | 54  | 240     |
| 8010042108            | 8010040251           | 50x20       | 16.5 | 25.5 | 67  | 160     |
| 8010042109            | 8010040252           | 50x25       | 18   | 25.5 | 67  | 245     |
| 8010040233            | 8010040253           | 50x32       | 20.5 | 25.5 | 67  | 160     |
| 8010041563            | 8010040254           | 50x40       | 22.5 | 25.5 | 62  | 120     |
| 8010040234            | 8010040255           | 63x25       | 18   | 29.5 | 82  | 160     |
| 8010040235            | 8010040256           | 63x32       | 20.5 | 29.5 | 84  | 150     |
| 8010040236            | 8010040257           | 63x40       | 22.5 | 29.5 | 82  | 150     |
| 8010040237            | 8010040258           | 63x50       | 25.5 | 29.5 | 71  | 135     |
| 8010040238            | 8010040259           | 75x32       | 20.5 | 33   | 65  | 135     |
| 8010042743            | 8010040260           | 75x40       | 22.5 | 33   | 67  | 140     |
| 8010040239            | 8010040261           | 75x50       | 25.5 | 33   | 75  | 100     |
| 8010040240            | 8010040262           | 75x63       | 29.5 | 33   | 80  | 90      |
| 8010041378            | 8010040263           | 90x40       | 22.5 | 37   | 75  | 90      |
| 8010040241            | 8010040264           | 90x50       | 25.5 | 37   | 75  | 120     |
| 8010040242            | 8010040265           | 90x63       | 29.5 | 37   | 100 | 72      |
| 8010040243            | 8010040266           | 90x75       | 33   | 37   | 86  | 55      |
| 8010040229            | 8010040244           | 110x63      | 29.5 | 42   | 112 | 50      |

**Codo de 90° (Soc×Soc)**



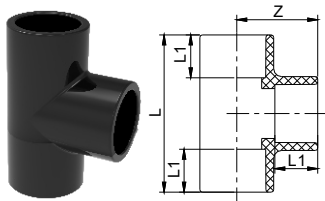
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | Z     | PCS/CTN |
|-----------------------|----------------------|-------------|------|-------|---------|
| 8010041979            | 8010040180           | 20          | 16.5 | 33    | 500     |
| 8010040173            | 8010040181           | 25          | 18   | 36.5  | 320     |
| 8010040174            | 8010040182           | 32          | 20.5 | 41.5  | 200     |
| 8010040175            | 8010040183           | 40          | 22.5 | 48    | 100     |
| 8010040176            | 8010040184           | 50          | 25.5 | 61    | 120     |
| 8010040177            | 8010040185           | 63          | 29.5 | 69    | 60      |
| 8010040178            | 8010040186           | 75          | 33   | 77.5  | 40      |
| 8010040179            | 8010040187           | 90          | 37   | 89    | 25      |
| 8010040172            | 8010041507           | 110         | 42   | 105.5 | 15      |

### Codo de 45° (Soc×Soc)



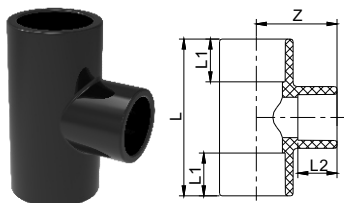
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L1   | L2   | PCS/CTN |
|-----------------------|----------------------|-------------|------|------|---------|
| 8010042095            | 8010040164           | 20          | 16.5 | 24   | 640     |
| 8010042096            | 8010040165           | 25          | 18   | 27   | 380     |
| 8010040160            | 8010040166           | 32          | 20.5 | 32   | 240     |
| 8010042097            | 8010040167           | 40          | 22.5 | 35   | 300     |
| 8010042098            | 8010040168           | 50          | 25.5 | 41   | 140     |
| 8010040161            | 8010040169           | 63          | 29.5 | 48   | 80      |
| 8010042099            | 8010040170           | 75          | 33   | 53.2 | 50      |
| 8010040162            | 8010040171           | 90          | 37   | 59.5 | 30      |
| 8010040159            | 8010040163           | 110         | 42   | 69   | 20      |

### Tee (Soc×Soc)



| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L1   | L   | Z    | PCS/CTN |
|-----------------------|----------------------|-------------|------|-----|------|---------|
| 8010041977            | 8010040105           | 20          | 16.5 | 64  | 32   | 640     |
| 8010041978            | 8010040106           | 25          | 18   | 72  | 36   | 380     |
| 8010040100            | 8010040107           | 32          | 20.5 | 85  | 42.5 | 240     |
| 8010041562            | 8010040108           | 40          | 22.5 | 94  | 47   | 300     |
| 8010040101            | 8010040109           | 50          | 25.5 | 112 | 56   | 140     |
| 8010040102            | 8010040110           | 63          | 29.5 | 140 | 70   | 80      |
| 8010040103            | 8010040111           | 75          | 33   | 154 | 77   | 50      |
| 8010040104            | 8010040112           | 90          | 37   | 178 | 89   | 30      |
| 8010040099            | 8010041506           | 110         | 42   | 214 | 107  | 20      |

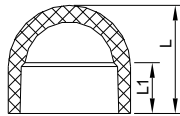
### Tee Reductora (Soc×Soc)



| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L1   | L2   | L     | Z     | PCS/CTN |
|-----------------------|----------------------|-------------|------|------|-------|-------|---------|
| 8010040192            | 8010040207           | 25x20       | 18   | 16.5 | 66    | 34    | 280     |
| 8010040193            | 8010040208           | 32x20       | 20.5 | 16.5 | 72    | 38    | 180     |
| 8010040194            | 8010040209           | 32x25       | 20.5 | 18   | 77    | 40    | 160     |
| 8010040195            | 8010040210           | 40x20       | 22.5 | 16.5 | 78    | 42    | 116     |
| 8010042101            | 8010040211           | 40x25       | 22.5 | 18   | 83    | 44    | 96      |
| 8010041516            | 8010040212           | 40x32       | 22.5 | 20.5 | 90    | 46    | 96      |
| 8010042102            | 8010040213           | 50x20       | 25.5 | 16.5 | 86    | 47    | 160     |
| 8010042103            | 8010040214           | 50x25       | 25.5 | 18   | 91    | 49    | 150     |
| 8010040196            | 8010040215           | 50x32       | 25.5 | 20.5 | 98    | 51    | 120     |
| 8010042104            | 8010040216           | 50x40       | 25.5 | 22.5 | 104   | 53    | 100     |
| 8010042105            | 8010040217           | 63x25       | 29.5 | 18   | 101   | 57    | 80      |
| 8010040197            | 8010040218           | 63x32       | 29.5 | 20.5 | 108   | 59    | 60      |
| 8010042106            | 8010040219           | 63x40       | 29.5 | 22.5 | 112   | 61    | 60      |
| 8010040198            | 8010040220           | 63x50       | 29.5 | 25.5 | 122   | 64    | 60      |
| 8010040199            | 8010040221           | 75x32       | 33   | 20.5 | 100   | 64    | 60      |
| 8010043045            | 8010040222           | 75x40       | 33   | 22.5 | 113   | 63.5  | 54      |
| 8010040200            | 8010040223           | 75x50       | 33   | 25.5 | 122.5 | 64.5  | 54      |
| 8010040201            | 8010040224           | 75x63       | 33   | 29.5 | 145   | 75    | 36      |
| 8010040202            | 8010040225           | 90x40       | 37   | 22.5 | 120   | 72.25 | 34      |
| 8010040203            | 8010040226           | ★ 90x50     | 37   | 25.5 | 132.3 | 80    | 28      |
| 8010040204            | 8010040227           | 90x63       | 37   | 29.5 | 148   | 84    | 28      |
| 8010040205            | 8010040228           | 90x75       | 37   | 33   | 164   | 88    | 25      |

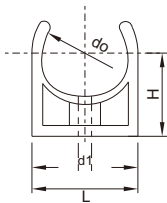
Tenga en cuenta que el molde del producto marcado con "★" en esta página no ha sido mejorado.

**Tapa(Soc)**



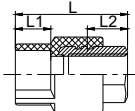
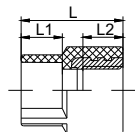
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L1   | L   | PCS/CTN |
|-----------------------|----------------------|-------------|------|-----|---------|
| 8010040027            | 8010040033           | 20          | 16.5 | 30  | 1200    |
| 8010040028            | 8010040034           | 25          | 18   | 34  | 900     |
| 8010040029            | 8010040035           | 32          | 20.5 | 43  | 450     |
| 8010040030            | 8010040036           | 40          | 22.5 | 54  | 240     |
| 8010040031            | 8010040037           | 50          | 25.5 | 58  | 140     |
| 8010040032            | 8010040038           | 63          | 29.5 | 68  | 150     |
| 8010043926            | 8010042069           | 75          | 33   | 80  | 60      |
| 8010043927            | 8010040039           | 90          | 37   | 95  | 80      |
| 8010043433            | 8010045588           | 110         | 42   | 112 | 36      |

**Abrazadera de Tubería**



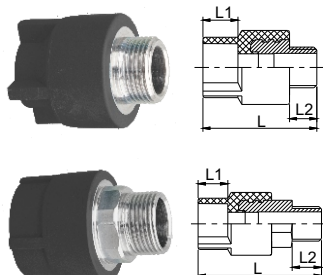
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | do   | d1 | H    | PCS/CTN |
|-----------------------|----------------------|-------------|------|------|----|------|---------|
| 8010043287            | 8010040013           | 20          | 27.4 | 19.6 | 5  | 22   | 1080    |
| 8010043128            | 8010040014           | 25          | 32   | 24.6 | 5  | 24.5 | 1050    |
| 8010040012            | 8010040015           | 32          | 39   | 31.5 | 5  | 28.5 | 960     |
| 8010043127            | 8010041376           | 40          | 47.5 | 38.5 | 5  | 32   | 600     |
| 8010043928            | 8010043102           | 50          | 57.5 | 48.5 | 5  | 37   | 450     |

**Adaptador de Rosca Hembra (Soc x THRH con Inserto Metálico)**



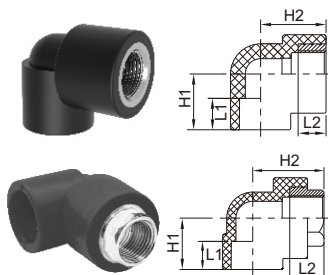
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mmxpulgada) | L1   | L2   | L    | PCS/CTN |
|-----------------------|----------------------|---------------------|------|------|------|---------|
| 8010040079            | 8010040086           | 20x1/2"             | 16.5 | 17.5 | 42   | 360     |
| 8010043046            | 8010040087           | 20x3/4"             | 16.5 | 17   | 42   | 240     |
| 8010040080            | 8010040088           | 25x1/2"             | 18   | 17.5 | 44.5 | 300     |
| 8010040081            | 8010040089           | 25x3/4"             | 18   | 17   | 45   | 180     |
| 8010042083            | 8010040091           | 32x1/2"             | 20.5 | 17.5 | 47   | 180     |
| 8010041533            | 8010040092           | 32x3/4"             | 20.5 | 17   | 47   | 210     |
| 8010040082            | 8010040090           | 32x1"               | 20.5 | 22   | 59   | 96      |
| 8010043047            | 8010040093           | 40x1"               | 22.5 | 22   | 60   | 72      |
| 8010040083            | 8010040094           | 40x1-1/4"           | 22.5 | 24   | 64   | 72      |
| 8010042731            | 8010040096           | 50x1-1/4"           | 25.5 | 24   | 66   | 48      |
| 8010040084            | 8010040095           | 50x1-1/2"           | 25.5 | 23   | 68.5 | 36      |
| 8010040085            | 8010040097           | 63x2"               | 29.5 | 25   | 77   | 36      |
| 8010041986            | 8010040098           | 75x2"               | 33   | 25   | 80.5 | 36      |
| 8010043753            | 8010046472           | 75x2-1/2"           | 33   | 30   | 84.5 |         |

**Adaptador de Rosca Macho (Soc x THRM con Inserto Metálico)**



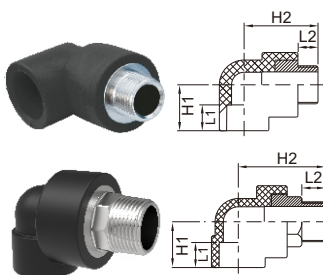
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | L1   | L2 | L     | PCS/CTN |
|-----------------------|----------------------|---------------------|------|----|-------|---------|
| 8010040138            | 8010040146           | 20x1/2"             | 16.5 | 14 | 56    | 240     |
| 8010043048            | 8010040147           | 20x3/4"             | 16.5 | 14 | 56    | 180     |
| 8010042094            | 8010040148           | 25x1/2"             | 18   | 14 | 58.5  | 210     |
| 8010040139            | 8010040149           | 25x3/4"             | 18   | 14 | 59    | 180     |
| 8010043049            | 8010040151           | 32x1/2"             | 20.5 | 14 | 61    | 180     |
| 8010042752            | 8010040152           | 32x3/4"             | 20.5 | 14 | 61    | 180     |
| 8010040140            | 8010040150           | 32x1"               | 20.5 | 19 | 78    | 96      |
| 8010043050            | 8010040153           | 40x1"               | 22.5 | 19 | 79    | 72      |
| 8010040141            | 8010040154           | 40x1-1/4"           | 22.5 | 21 | 85    | 48      |
| 8010043051            | 8010040156           | 50x1-1/4"           | 25.5 | 21 | 87    | 48      |
| 8010040142            | 8010040155           | 50x1-1/2"           | 25.5 | 21 | 89.5  | 48      |
| 8010040143            | 8010040157           | 63x2"               | 29.5 | 24 | 102   | 36      |
| 8010041565            | 8010040158           | 75x2"               | 33   | 24 | 105.5 | 36      |

**Codo de Rosca Hembra (Soc x THRH con Inserto Metálico)**



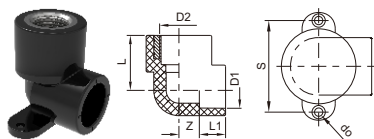
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | L1   | L2   | H1   | H2   | PCS/CTN |
|-----------------------|----------------------|---------------------|------|------|------|------|---------|
| 8010042077            | 8010040067           | 20x1/2"             | 16.5 | 17.5 | 30   | 36   | 240     |
| 8010043052            | 8010040068           | 20x3/4"             | 16.5 | 17   | 33   | 36   | 210     |
| 8010042078            | 8010040069           | 25x1/2"             | 18   | 17.5 | 33   | 38   | 210     |
| 8010041549            | 8010040070           | 25x3/4"             | 18   | 16   | 34.4 | 37.4 | 180     |
| 8010042079            | 8010040072           | 32x1/2"             | 20.5 | 17.5 | 35   | 42   | 180     |
| 8010043053            | 8010040073           | 32x3/4"             | 20.5 | 17.5 | 38   | 42   | 150     |
| 8010040066            | 8010040071           | 32x1"               | 20.5 | 22   | 40.5 | 53   | 72      |
| 8010042080            | 8010040074           | 40x1-1/4"           | 22.5 | 24   | 51   | 61.2 | 48      |
| 8010043929            | 8010042081           | 50x1-1/2"           | 25.5 | 24   | 57   | 66.5 | 36      |
| 8010043930            | 8010041401           | 63x2"               | 29.5 | 25   | 67.5 | 78.5 | 18      |
| 8010042730            | 8010042082           | 75x2-1/2"           | 33   | 30   | 79   | 89.5 | 16      |

**Codo de Rosca Macho (Soc x THRM con Inserto Metálico)**



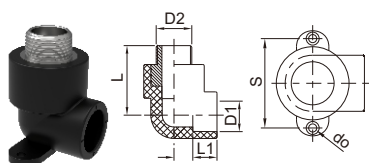
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | L1   | L2 | H1   | H2   | PCS/CTN |
|-----------------------|----------------------|---------------------|------|----|------|------|---------|
| 8010043267            | 8010040126           | 20x1/2"             | 16.5 | 14 | 30   | 50   | 240     |
| 8010043288            | 8010040127           | 20x3/4"             | 16.5 | 14 | 33   | 50   | 180     |
| 8010042089            | 8010040128           | 25x1/2"             | 18   | 14 | 33   | 52   | 210     |
| 8010043268            | 8010040129           | 25x3/4"             | 18   | 14 | 34.4 | 51.4 | 150     |
| 8010042090            | 8010040131           | 32x1/2"             | 20.5 | 14 | 35   | 56   | 180     |
| 8010042091            | 8010040132           | 32x3/4"             | 20.5 | 14 | 38   | 56   | 120     |
| 8010040125            | 8010040130           | 32x1"               | 20.5 | 19 | 40.5 | 72   | 72      |
| 8010042092            | 8010041402           | 40x1-1/4"           | 22.5 | 21 | 49.5 | 82.5 | 48      |
| 8010043931            | 8010042093           | 50x1-1/2"           | 25.5 | 21 | 55.5 | 87.5 | 36      |
| 8010043932            | 8010041629           | 63x2"               | 29.5 | 24 | 62.5 | 103  | 24      |
| 8010043933            | 8010041566           | 75x2-1/2"           | 33   | 28 | 74   | 118  | 12      |

**Codo de Rosca Hembra con Base (Soc × THRH con Inserto Metálico)**



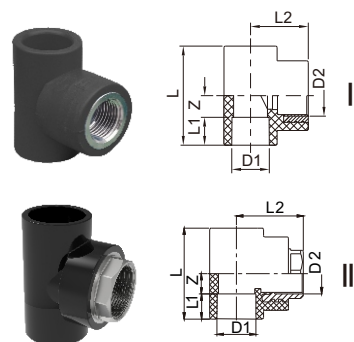
| Número de SAP (negro) | SAP Number (blue) | Tamaño (mm×pulgada) | D1 | D2   | L    | S    | L1   | do | PCS/CTN |
|-----------------------|-------------------|---------------------|----|------|------|------|------|----|---------|
| 8010043913            | 8010040075        | 20x1/2"             | 20 | 1/2" | 36   | 49.5 | 16.5 | 5  | 210     |
| 8010043914            | 8010040076        | 20x3/4"             | 20 | 3/4" | 36   | 53.5 | 16.5 | 5  | 180     |
| 8010043915            | 8010040077        | 25x1/2"             | 25 | 1/2" | 38   | 49.5 | 18   | 5  | 180     |
| 8010043916            | 8010040078        | 25x3/4"             | 25 | 3/4" | 37.4 | 53.5 | 18   | 5  | 120     |

**Codo de Rosca Macho con Base (Soc × THRM con Inserto Metálico)**



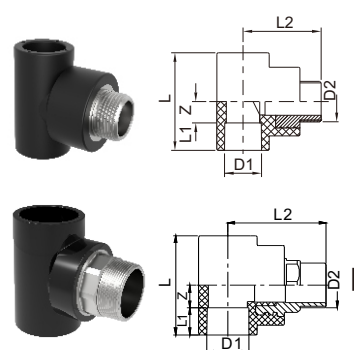
| Número de SAP (negro) | SAP Number (blue) | Tamaño (mm×pulgada) | D1 | D2   | L    | S    | L1   | do | PCS/CTN |
|-----------------------|-------------------|---------------------|----|------|------|------|------|----|---------|
| 8010043917            | 8010040133        | 20x1/2"             | 20 | 1/2" | 36   | 49.5 | 16.5 | 5  | 180     |
| 8010043918            | 8010040134        | 20x3/4"             | 20 | 3/4" | 36   | 53.5 | 16.5 | 5  | 150     |
| 8010043919            | 8010040135        | 25x1/2"             | 25 | 1/2" | 38   | 49.5 | 18   | 5  | 180     |
| 8010043920            | 8010040136        | 25x3/4"             | 25 | 3/4" | 37.4 | 53.5 | 18   | 5  | 150     |

**Tee de Rosca Hembra (Soc × Soc × THRH con Inserto Metálico)**



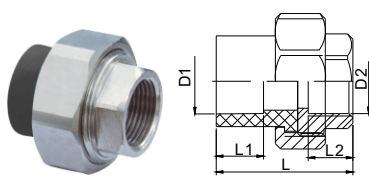
| Número de SAP (negro) | SAP Number (blue) | Tamaño (mm×pulgada) | D1 | D2     | Z    | L2   | L1   | L   | PCS/CTN |
|-----------------------|-------------------|---------------------|----|--------|------|------|------|-----|---------|
| 8010042072            | 8010040059        | 20x1/2"             | 20 | 1/2"   | 13.5 | 36   | 16.5 | 60  | 240     |
| 8010043054            | 8010040060        | 20x3/4"             | 20 | 3/4"   | 16.5 | 36   | 16.5 | 66  | 210     |
| 8010043055            | 8010040061        | 25x1/2"             | 25 | 1/2"   | 15   | 38   | 18   | 66  | 180     |
| 8010042073            | 8010040062        | 25x3/4"             | 25 | 3/4"   | 17   | 38   | 18   | 70  | 150     |
| 8010043056            | 8010040064        | 32x1/2"             | 32 | 1/2"   | 14.5 | 42   | 20.5 | 70  | 120     |
| 8010043057            | 8010040065        | 32x3/4"             | 32 | 3/4"   | 17.5 | 42   | 20.5 | 76  | 120     |
| 8010043058            | 8010040063        | 32x1"               | 32 | 1"     | 20   | 53   | 20.5 | 81  | 60      |
| 8010043935            | 8010042074        | 50x1-1/2"           | 50 | 1-1/2" | 31.5 | 66.5 | 25.5 | 114 | 30      |
| 8010043936            | 8010042075        | 63x2"               | 63 | 2"     | 38   | 78.5 | 29.5 | 135 | 12      |
| 8010043937            | 8010042076        | 75x2-1/2"           | 75 | 2-1/2" | 46   | 89.5 | 33   | 158 | 12      |

**Tee de Rosca Macho (SOC × SOC × THRM con Inserto Metálico)**



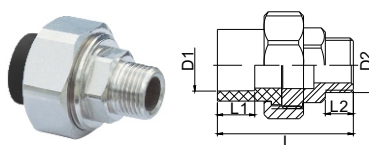
| Número de SAP (negro) | SAP Number (blue) | Tamaño (mm×pulgada) | D1 | D2     | Z     | L2   | L1   | L     | PCS/CTN |
|-----------------------|-------------------|---------------------|----|--------|-------|------|------|-------|---------|
| 8010042084            | 8010040118        | 20x1/2"             | 20 | 1/2"   | 13.5  | 50   | 16.5 | 60    | 180     |
| 8010043289            | 8010040119        | 20x3/4"             | 20 | 3/4"   | 16.5  | 50   | 16.5 | 66    | 150     |
| 8010043269            | 8010040120        | 25x1/2"             | 25 | 1/2"   | 15    | 52   | 18   | 66    | 150     |
| 8010042085            | 8010040121        | 25x3/4"             | 25 | 3/4"   | 17    | 52   | 18   | 70    | 120     |
| 8010043270            | 8010040123        | 32x1/2"             | 32 | 1/2"   | 14.5  | 56   | 20.5 | 70    | 120     |
| 8010043271            | 8010040124        | 32x3/4"             | 32 | 3/4"   | 17.5  | 56   | 20.5 | 76    | 90      |
| 8010040117            | 8010040122        | 32x1"               | 32 | 1"     | 20    | 72   | 20.5 | 81    | 60      |
| 8010043939            | 8010042087        | 50x1-1/2"           | 50 | 1-1/2" | 30    | 87.5 | 25.5 | 111   | 24      |
| 8010043940            | 8010041984        | 63x2"               | 63 | 2"     | 32.25 | 103  | 29.5 | 123.5 | 12      |
| 8010042086            | 8010042088        | 75x2-1/2"           | 75 | 2-1/2" | 41    | 118  | 33   | 148   | 12      |

**Unión de Rosca Hembra (Soc × THRH con Metal)**



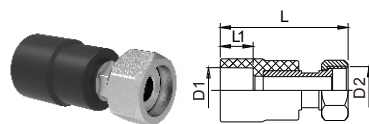
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | D1 | D2     | L1   | L2 | L    | PCS/CTN |
|-----------------------|----------------------|---------------------|----|--------|------|----|------|---------|
| 8010043907            | 8010040055           | 20x1/2"             | 20 | 1/2"   | 16   | 16 | 42   | 180     |
| 8010043908            | 8010040056           | 25x3/4"             | 25 | 3/4"   | 18   | 17 | 47   | 150     |
| 8010040054            | 8010040057           | 32x1"               | 32 | 1"     | 20.5 | 18 | 52   | 90      |
| 8010045608            | 8010045611           | 40x1-1/4"           | 40 | 1-1/4" | 22.5 | 21 | 53.5 |         |
| 8010045609            | 8010045612           | 50x1-1/2"           | 50 | 1-1/2" | 25.5 | 23 | 59   |         |
| 8010045610            | 8010045613           | 63x2"               | 63 | 2"     | 29.5 | 25 | 63.2 |         |

**Unión de Rosca Macho (Soc × THRM con Metal)**



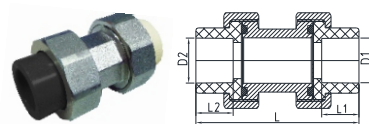
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | D1 | D2     | L1   | L2   | L    | PCS/CTN |
|-----------------------|----------------------|---------------------|----|--------|------|------|------|---------|
| 8010043905            | 8010040114           | 20x1/2"             | 20 | 1/2"   | 16   | 14   | 55   | 150     |
| 8010043904            | 8010040115           | 25x3/4"             | 25 | 3/4"   | 18   | 13.5 | 60   | 120     |
| 8010040113            | 8010040116           | 32x1"               | 32 | 1"     | 20.5 | 19   | 71   | 72      |
| 8010043630            | 8010045600           | 40x1-1/4"           | 40 | 1-1/4" | 22.5 | 20.5 | 70.4 |         |
| 8010045287            | 8010044813           | 50x1-1/2"           | 50 | 1-1/2" | 25.5 | 21   | 79   |         |
| 8010043425            | 8010045599           | 63x2"               | 63 | 2"     | 29.5 | 24   | 90.7 |         |

**Unión Flexible (Soc × THRH con Metal)**



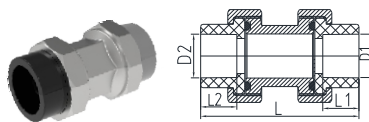
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | D1 | D2   | L    | L1   | PCS/CTN |
|-----------------------|----------------------|---------------------|----|------|------|------|---------|
| 8010043870            | 8010041493           | 20x1/2"             | 20 | 1/2" | 59   | 16.5 | 300     |
| 8010043941            | 8010041513           | 20x3/4"             | 20 | 3/4" | 59.5 | 16.5 | 240     |
| 8010043910            | 8010041494           | 25x1/2"             | 25 | 1/2" | 61   | 18   | 240     |
| 8010043909            | 8010041495           | 25x3/4"             | 25 | 3/4" | 62   | 18   | 240     |
| 8010043911            | 8010041496           | 32x1"               | 32 | 1"   | 68.5 | 20   | 150     |

**Unión de Cambio PE/ PE-RT (SOC × SOC)**



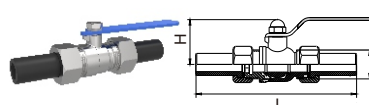
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | L  | L1   | L2   | D1 | D2 | PCS/CTN |
|-----------------------|----------------------|---------------------|----|------|------|----|----|---------|
| 8010044326            |                      | 20                  | 72 | 14.5 | 16.5 | 20 | 20 | 144     |
| 8010044327            |                      | 25                  | 77 | 17.8 | 18   | 25 | 25 | 120     |
| 8010044328            |                      | 32                  | 82 | 20   | 20   | 32 | 32 | 72      |

**Unión de Cambio PPR/ PE (SOC × SOC)**



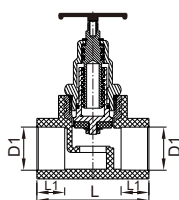
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm×pulgada) | L    | L1 | L2   | D1 | D2 | PCS/CTN |
|-----------------------|----------------------|---------------------|------|----|------|----|----|---------|
| 8010043946            | 8010041987           | 20                  | 71.5 | 16 | 16.5 | 20 | 20 | 180     |
| 8010043947            | 8010041988           | 25                  | 77   | 18 | 18   | 25 | 25 | 120     |
| 8010043513            | 8010041989           | 32                  | 83.8 | 20 | 20.5 | 32 | 32 | 72      |

**Válvula de Bola (Spig×Spig)**



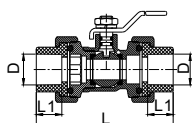
| Número de SAP (negro) | Número de SAP (azul) | Size (mm) | L     | G      | H    | PCS/CTN |
|-----------------------|----------------------|-----------|-------|--------|------|---------|
| 8010043328            | 8010040040           | 20        | 142   | 3/4"   | 33   | 96      |
| 8010043906            | 8010040041           | 25        | 156.5 | 1"     | 35   | 72      |
| 8010042070            | 8010040042           | 32        | 169   | 1-1/4" | 42.2 | 36      |

**Válvula de Cierre (SOC x SOC)**



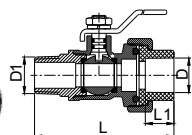
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | D1  | L1   | L    | PCS/CTN |
|-----------------------|----------------------|-------------|-----|------|------|---------|
| 8010040043            | 8010040048           | 20          | 20  | 16.5 | 65   | 72      |
| 8010040044            | 8010040049           | 25          | 25  | 18   | 74   | 60      |
| 8010040045            | 8010040050           | 32          | 32  | 20.5 | 83   | 36      |
| 8010042071            | 8010040051           | 40          | 40  | 22.5 | 89.5 | 36      |
| 8010040046            | 8010040052           | 50          | 50  | 25.5 | 117  | 30      |
| 8010040047            | 8010040053           | 63          | 63  | 29.5 | 124  | 20      |
| 8010046381            | 8010046382           | 75          | 75  | 33   | 129  | 9       |
| 8010043574            | 8010044820           | 90          | 90  | 37   | 160  | 5       |
| 8010043573            | 8010044890           | 110         | 110 | 42   | 194  |         |

**Válvula de Bola de Unión Verdadera (SOC x SOC)**



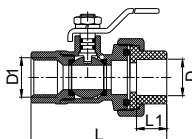
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | D  | L1 | L     | PCS/CTN |
|-----------------------|----------------------|-------------|----|----|-------|---------|
| 8010043058            | 8010041519           | 20          | 20 | 16 | 85.8  | 96      |
| 8010043059            | 8010041520           | 25          | 25 | 18 | 93.8  | 72      |
| 8010042643            | 8010042644           | 32          | 32 | 20 | 103.2 | 36      |

**Válvula de Bola de Unión de Rosca Macho (Soc x THRM con Metal)**



| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | D  | D1   | L1 | L    | PCS/CTN |
|-----------------------|----------------------|-------------|----|------|----|------|---------|
| 8010043942            | 8010042652           | 20x1/2"     | 20 | 1/2" | 16 | 77.9 | 96      |
| 8010043943            | 8010042653           | 25x3/4"     | 25 | 3/4" | 18 | 83.9 | 72      |
| 8010043944            | 8010042654           | 32x1"       | 32 | 1"   | 20 | 95.7 | 24      |

**Válvula de Bola de Unión de Rosca Hembra (Soc x THRH con Metal)**



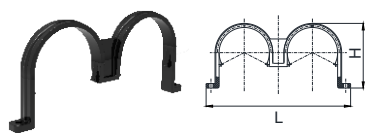
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | D  | D1   | L1 | L    | PCS/CTN |
|-----------------------|----------------------|-------------|----|------|----|------|---------|
| 8010043945            | 8010042648           | 20x1/2"     | 20 | 1/2" | 16 | 71.9 | 120     |
| 8010043607            | 8010070930           | 25x3/4"     | 25 | 3/4" | 18 | 75.4 | 72      |
| 8010043608            | 8010042649           | 32x1"       | 32 | 1"   | 20 | 85.7 | 36      |

**Colector Macho Simple PE**



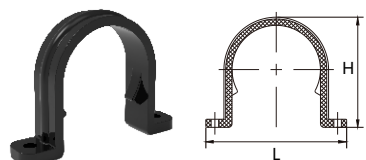
| Número de SAP (negro) | Número de SAP (negro) | Tamaño (mm) | SDR | Marca de Tubería | PCS/CTN |
|-----------------------|-----------------------|-------------|-----|------------------|---------|
| 8010043349            | 8010043349            | 50x1/ 2"    | 11  | 3                |         |
| 8010043350            | 8010043350            | 50x1/2"     | 11  | 4                |         |
| 8010043351            | 8010043351            | 50x1/2"     | 11  | 5                |         |
| 8010043437            | 8010043437            | 50x1/2"     | 11  | 6                |         |
| 8010043415            | 8010043415            | 50x1/2"     | 11  | 8                |         |

**Abrazadera Doble en U**



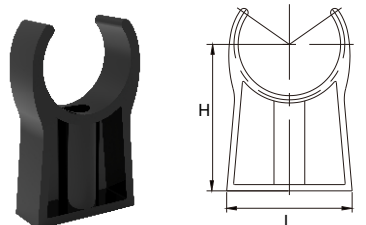
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L     | H    | PCS/CTN |
|-----------------------|----------------------|-------------|-------|------|---------|
| 8010043948            | 8010042974           | 20          | 72.5  | 27.5 |         |
| 8010043949            | 8010042975           | 25          | 85    | 33.8 |         |
| 8010043950            | 8010042976           | 32          | 100.5 | 41   |         |
| 8010043951            | 8010042977           | 40          | 122   | 50   |         |
| 8010043952            | 8010042978           | 50          | 147.5 | 61   |         |
| 8010043953            | 8010042979           | 63          | 178   | 76   |         |

**Abrazadera en U**



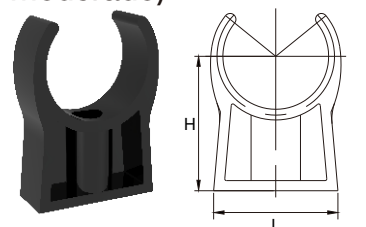
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | H    | PCS/CTN |
|-----------------------|----------------------|-------------|------|------|---------|
|                       | 8010043595           | 20          | 44   | 27.5 |         |
|                       | 8010043596           | 25          | 50.5 | 33.8 |         |
|                       | 8010043597           | 32          | 57   | 41   |         |
|                       | 8010043598           | 40          | 68   | 50   |         |
|                       | 8010043781           | 50          | 78   | 61   |         |

**Abrazadera (Estilo Alto)**



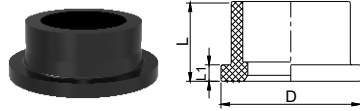
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | H  | PCS/CTN |
|-----------------------|----------------------|-------------|------|----|---------|
|                       | 8010043601           | 20          | 24.5 | 40 |         |
|                       | 8010043602           | 25          | 30.5 | 45 |         |
|                       | 8010043603           | 32          | 37   | 50 |         |
|                       | 8010043604           | 40          | 46   | 60 |         |
|                       | 8010043780           | 50          | 60   | 70 |         |

**Abrazadera (Estilo Moderado)**



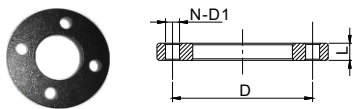
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | H  | PCS/CTN |
|-----------------------|----------------------|-------------|------|----|---------|
| 8010045475            | 8010043599           | 20          | 24.5 | 30 |         |
| 8010045476            | 8010043600           | 25          | 30.5 | 35 |         |
| 8010045477            | 8010043749           | 32          | 37   | 40 |         |
| 8010045478            | 8010043750           | 40          | 46   | 45 |         |
|                       | 8010043751           | 50          | 60   | 55 |         |

**Brida de Tope (SOC xBrida)**



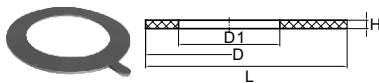
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L1 | L  | D   | PCS/CTN |
|-----------------------|----------------------|-------------|----|----|-----|---------|
| 8010040006            | 8010040009           | 50          | 10 | 30 | 84  | 90      |
| 8010040007            | 8010040010           | 63          | 11 | 34 | 104 | 60      |
| 8010040008            | 8010040011           | 75          | 14 | 38 | 124 | 50      |

**Brida (Bandeja de Acero)**



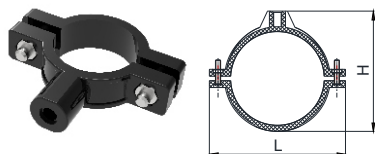
| Número de SAP (negro) | Número de SAP (negro) | Tamaño (mm) | D   | D1 | N | L  | PCS/CTN |
|-----------------------|-----------------------|-------------|-----|----|---|----|---------|
| 8010041616            | 8010041616            | 50 1.6MPa   | 110 | 18 | 4 | 10 |         |
| 8010041617            | 8010041617            | 63 1.6MPa   | 125 | 18 | 4 | 12 |         |
| 8010043144            | 8010043144            | 75 1.6MPa   | 145 | 18 | 4 | 15 |         |

**Junta de Goma**



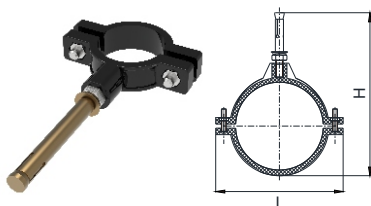
| Número de SAP (negro) | Número de SAP (negro) | Tamaño (mm) | D1 | D   | L     | H | PCS/CTN |
|-----------------------|-----------------------|-------------|----|-----|-------|---|---------|
| 8010040188            | 8010040188            | 50          | 45 | 86  | 113   | 4 |         |
| 8010040189            | 8010040189            | 63          | 58 | 105 | 132.5 | 4 |         |
| 8010040190            | 8010040190            | 75          | 68 | 127 | 153.5 | 4 |         |

**Abrazadera de Tubería**



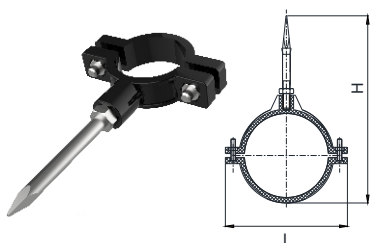
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L     | H    | PCS/CTN |
|-----------------------|----------------------|-------------|-------|------|---------|
| 8010043954            | 8010043001           | 20          | 49    | 42   | 720     |
| 8010043955            | 8010043004           | 25          | 54    | 47   | 720     |
| 8010043956            | 8010043007           | 32          | 64    | 54   | 270     |
| 8010043957            | 8010043010           | 40          | 72    | 62.5 | 240     |
| 8010043958            | 8010043013           | 50          | 87    | 73   | 280     |
| 8010043959            | 8010043016           | 63          | 106   | 87.5 | 180     |
| 8010043960            | 8010043019           | 75          | 118.5 | 101  | 130     |
|                       |                      |             |       |      |         |
|                       |                      |             |       |      |         |

**Abrazadera de Tubería I (Tornillo)**



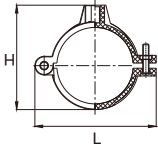
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L     | H     | PCS/CTN |
|-----------------------|----------------------|-------------|-------|-------|---------|
| 8010043872            | 8010043002           | 20          | 49    | 96    | 480     |
| 8010043961            | 8010043005           | 25          | 54    | 101   | 450     |
| 8010043871            | 8010043008           | 32          | 64    | 108   | 360     |
| 8010043962            | 8010043011           | 40          | 72    | 116.5 | 240     |
| 8010043963            | 8010043014           | 50          | 87    | 127   | 200     |
| 8010043964            | 8010043017           | 63          | 106   | 140.5 | 130     |
| 8010043965            | 8010043020           | 75          | 118.5 | 154   | 100     |
|                       |                      |             |       |       |         |
|                       |                      |             |       |       |         |

**Abrazadera de Tubería I (Tornillo de Colmillo)**



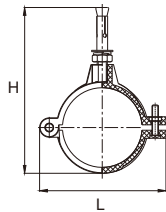
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L     | H     | PCS/CTN |
|-----------------------|----------------------|-------------|-------|-------|---------|
| 8010043966            | 8010043003           | 20          | 49    | 96    | 480     |
| 8010043967            | 8010043006           | 25          | 54    | 101   | 450     |
| 8010043968            | 8010043009           | 32          | 64    | 108   | 360     |
| 8010043969            | 8010043012           | 40          | 72    | 116.5 | 300     |
| 8010043970            | 8010043015           | 50          | 87    | 137   | 220     |
| 8010043971            | 8010043018           | 63          | 106   | 150.5 | 130     |
| 8010043972            | 8010043021           | 75          | 118.5 | 164   | 100     |
|                       |                      |             |       |       |         |
|                       |                      |             |       |       |         |

**Abrazadera de Tubería IV  
(Sin Tornillo)**



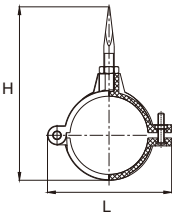
| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | H    | PCS/CTN |
|-----------------------|----------------------|-------------|------|------|---------|
|                       | 8010043038           | 40          | 72.5 | 62.5 | 420     |
|                       | 8010043041           | 50          | 88.5 | 73   | 210     |

**Abrazadera de Tubería IV  
(Tornillo)**



| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | H     | PCS/CTN |
|-----------------------|----------------------|-------------|------|-------|---------|
|                       | 8010043040           | 40          | 72.5 | 111.5 | 360     |
|                       | 8010043043           | 50          | 88.5 | 127   | 120     |

**Abrazadera de Tubería IV  
(Tornillo de Colmillo)**



| Número de SAP (negro) | Número de SAP (azul) | Tamaño (mm) | L    | H     | PCS/CTN |
|-----------------------|----------------------|-------------|------|-------|---------|
|                       | 8010043039           | 40          | 72.5 | 116.5 | 360     |
|                       | 8010043042           | 50          | 88.5 | 137   | 120     |

Las definiciones de la descripción abreviada de la configuración son las siguientes

- Soc: Conector de Encaje      THRH: Rosca Interna de Tubería de Hierro
- Spig: Machón                  THRM: Tubo de Hierro Roscado Macho



## ■ Características

**Material:** PE 100

**Tamaño:** disponibilidad completa de 75 mm a 800 mm

**Clasificación de Presión:** 1.0MPa, 1.25MPa, 1.6MPa u otras presiones nominales disponibles a solicitud

**Norma:** ISO 4427-3, EN 12201-3, BS EN 12201-3 AS/NZS 4129 BS 6920

**Color:** azul (todos los tamaños)

negro (todos los tamaños)

otros colores también están disponibles bajo pedido

**Unión:** unión de tuberías y accesorios de unión mediante fusión a tope

## ■ Ventajas

**No tóxico:** sin aditivos de metales pesados, no se cubriría con suciedad ni se contaminaría por bacterias

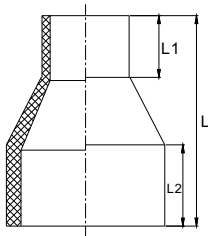
**Resistencia a la corrosión:** resistente a sustancias químicas y a la corrosión electroquímica

**Bajos Costos de Instalación:** ligero y fácil de instalar puede reducir los costos de instalación

**Alta Capacidad de Flujo:** paredes interiores lisas resultan en baja pérdida de presión y alto volumen

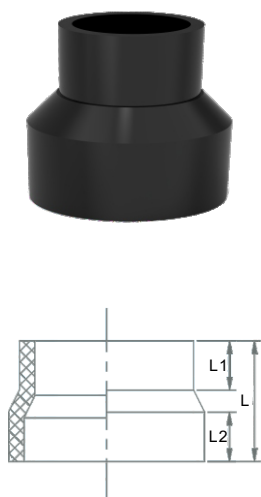
**Longevidad:** más de 50 años bajo uso adecuado

**Reductor**



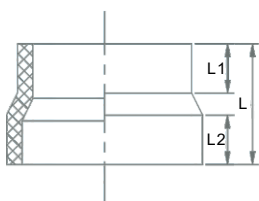
| Número de SAP (negro) | Número de SAP (azul) | SDR  | Tamaño (mm) | L1  | L2     | L   | PCS/CTN |
|-----------------------|----------------------|------|-------------|-----|--------|-----|---------|
| 8010040840            | 8010040847           | 11   | 75×63       | 70  | 72.5   | 156 | 60      |
| 8010040841            | 8010040848           | 11   | 90×63       | 65  | 82     | 170 | 40      |
| 8010040842            | 8010040849           | 11   | 90×75       | 70  | 82.6   | 167 | 40      |
| 8010040816            | 8010040843           | 11   | 110×50      | 65  | 79.6   | 200 | 36      |
| 8010040817            | 8010040844           | 11   | 110×63      | 65  | 89     | 195 | 36      |
| 8010040818            | 8010041414           | 11   | 110×75      | 70  | 84.7   | 185 | 32      |
| 8010040819            | 8010040845           | 11   | 110×90      | 76  | 83.6   | 172 | 30      |
| 8010040821            | 8010042277           | 11   | 125×63      | 65  | 88.6   | 202 | 24      |
| 8010040822            | 8010042278           | 11   | 125×90      | 76  | 83.3   | 193 | 24      |
| 8010040820            | 8010042276           | 11   | 125×110     | 84  | 91     | 195 | 20      |
| 8010040825            | 8010040846           | 11   | 160×90      | 80  | 102.2  | 238 | 12      |
| 8010040823            | 8010041391           | 11   | 160×110     | 84  | 102.8  | 230 | 12      |
| 8010040824            | 8010042279           | 11   | 160×125     | 88  | 103.6  | 222 | 12      |
| 8010040828            |                      | 11   | 180×63      | 67  | 85.3   | 205 | 14      |
| 8010040826            | 8010042280           | 11   | 180×110     | 76  | 84.1   | 213 | 12      |
| 8010040827            | 8010042281           | 11   | 180×160     | 75  | 84.1   | 182 | 10      |
| 8010040829            | 8010041390           | 11   | 200×110     | 84  | 116.1  | 270 | 6       |
| 8010040830            | 8010041389           | 11   | 200×160     | 100 | 100.3  | 237 | 6       |
| 8010040831            | 8010042282           | 11   | 200×180     | 87  | 100.8  | 205 | 6       |
| 8010040832            | 8010042283           | 11   | 225×160     | 86  | 97.4   | 231 | 6       |
| 8010040833            | 8010042284           | 11   | 225×200     | 89  | 96     | 205 | 4       |
| 8010040834            | 8010042285           | 11   | 250×110     | 82  | 91.3   | 217 | 5       |
| 8010040835            | 8010042286           | 11   | 250×160     | 100 | 105    | 290 | 3       |
| 8010040836            | 8010042287           | 11   | 250×200     | 101 | 104.5  | 254 | 3       |
| 8010040837            | 8010042288           | 11   | 250×225     | 91  | 96.5   | 208 | 3       |
| 8010043391            |                      | 11   | 315×160     | 98  | 155    | 300 | 2       |
| 8010044633            |                      | 11   | 315×180     | 105 | 155.5  | 297 | 2       |
| 8010040838            |                      | 11   | 315×200     | 112 | 156    | 304 | 2       |
| 8010044613            |                      | 11   | 315×225     | 120 | 157.6  | 310 | 2       |
| 8010044839            |                      | 11   | 315×250     | 130 | 161.3  | 322 | 2       |
| 8010044822            |                      | 11   | 400×225     | 120 | 159    | 344 | 1       |
| 8010040852            | 8010042290           | 13.6 | 280×110     | 77  | 90.4   | 295 | 3       |
| 8010040853            | 8010042291           | 13.6 | 280×160     | 79  | 90.3   | 257 | 4       |
| 8010040854            |                      | 13.6 | 280×200     | 94  | 90.1   | 253 | 4       |
| 8010040855            | 8010040861           | 13.6 | 315×110     | 81  | 87.8   | 231 | 3       |
| 8010040856            | 8010041415           | 13.6 | 315×160     | 86  | 91.4   | 250 | 2       |
| 8010040857            | 8010042292           | 13.6 | 315×200     | 106 | 103.23 | 296 | 2       |
| 8010040851            | 8010040862           | 13.6 | 315×225     | 90  | 94.3   | 223 | 2       |
| 8010040858            | 8010042293           | 13.6 | 315×250     | 81  | 98.9   | 234 | 2       |
| 8010040859            | 8010043633           | 13.6 | 315×280     | 83  | 92     | 200 | /       |

**Reductor**



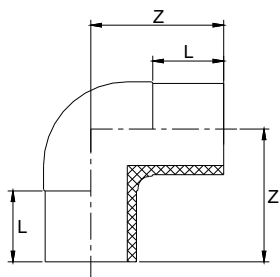
| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | L1  | L2     | L   | PCS/CTN |
|-----------------------|----------------------|-----|-------------|-----|--------|-----|---------|
| 8010042311            | 8010044819           | 17  | 75×63       | 70  | 72.5   | 156 | 60      |
| 8010042313            | 8010043309           | 17  | 90×63       | 70  | 82     | 170 | 40      |
| 8010042314            |                      | 17  | 90×75       | 70  | 82.6   | 167 | 40      |
| 8010042295            | 8010044306           | 17  | 110×50      | 65  | 79.6   | 200 | 36      |
| 8010042296            | 8010043310           | 17  | 110×63      | 65  | 89     | 195 | 36      |
| 8010040863            | 8010044612           | 17  | 110×75      | 70  | 84.7   | 185 | 32      |
| 8010040864            | 8010043311           | 17  | 110×90      | 76  | 83.6   | 172 | 30      |
| 8010044502            |                      | 17  | 125×63      | 65  | 88.6   | 202 | 24      |
| 8010040865            | 8010043496           | 17  | 125×90      | 76  | 83.3   | 193 | 24      |
| 8010042297            | 8010044873           | 17  | 125×110     | 84  | 91     | 195 | 20      |
| 8010040868            | 8010043497           | 17  | 160×90      | 80  | 102.2  | 238 | 12      |
| 8010040866            | 8010043481           | 17  | 160×110     | 84  | 102.8  | 230 | 12      |
| 8010040867            |                      | 17  | 160×125     | 88  | 103.6  | 222 | 12      |
| 8010042983            |                      | 17  | 180×63      | 67  | 85.3   | 205 | 14      |
| 8010042298            |                      | 17  | 180×110     | 76  | 84.1   | 213 | 12      |
| 8010040869            | 8010043202           | 17  | 180×160     | 75  | 84.1   | 182 | 10      |
| 8010040870            | 8010043860           | 17  | 200×110     | 84  | 116.1  | 270 | 6       |
| 8010040871            | 8010043862           | 17  | 200×160     | 100 | 100.3  | 237 | 6       |
| 8010042299            |                      | 17  | 200×180     | 87  | 100.8  | 205 | 6       |
| 8010040872            | 8010043742           | 17  | 225×160     | 86  | 97.4   | 231 | 6       |
| 8010042301            | 8010043792           | 17  | 225×200     | 89  | 96     | 205 | 4       |
| 8010040873            | 8010043794           | 17  | 250×110     | 82  | 91.3   | 217 | 5       |
| 8010040874            | 8010044378           | 17  | 250×160     | 100 | 105    | 290 | 3       |
| 8010040875            |                      | 17  | 250×200     | 100 | 104.5  | 254 | 3       |
| 8010040876            | 8010043728           | 17  | 250×225     | 91  | 96.5   | 208 | 3       |
| 8010042302            | 8010043793           | 17  | 280×110     | 77  | 90.4   | 295 | 3       |
| 8010040877            | 8010043729           | 17  | 280×160     | 79  | 90.3   | 257 | 4       |
| 8010042303            | 8010043791           | 17  | 280×200     | 94  | 90.1   | 253 | 4       |
| 8010040878            | 8010043081           | 17  | 315×110     | 81  | 87.8   | 231 | 3       |
| 8010040879            | 8010043077           | 17  | 315×160     | 86  | 91.4   | 250 | 2       |
| 8010044709            |                      | 17  | 315×180     | 105 | 155.5  | 197 |         |
| 8010040880            | 8010043078           | 17  | 315×200     | 106 | 103.23 | 296 | 2       |
| 8010040881            | 8010044367           | 17  | 315×225     | 90  | 94.3   | 223 | 2       |
| 8010040882            | 8010044368           | 17  | 315×250     | 81  | 98.9   | 234 | 2       |
| 8010040883            |                      | 17  | 315×280     | 83  | 92     | 200 | /       |
| 8010040884            | 8010044379           | 17  | 355×200     | 84  | 93.9   | 286 | /       |
| 8010040885            | 8010044373           | 17  | 355×250     | 77  | 92.5   | 243 | /       |
| 8010040886            | 8010042315           | 17  | 355×315     | 85  | 103.3  | 217 | /       |
| 8010040887            | 8010043861           | 17  | 400×200     | 76  | 97     | 267 | /       |
| 8010044812            |                      | 17  | 400×225     | 120 | 182.4  | 344 |         |
| 8010040888            | 8010043730           | 17  | 400×250     | 74  | 100.7  | 240 | /       |
| 8010043182            | 8010043731           | 17  | 400×280     | 75  | 97.3   | 231 |         |
| 8010040889            | 8010044380           | 17  | 400×315     | 85  | 78.3   | 220 | /       |
| 8010040891            |                      | 17  | 450×200     | 73  | 79.6   | 262 | /       |
| 8010040892            | 8010044381           | 17  | 450×250     | 77  | 84.5   | 246 | /       |
| 8010040893            | 8010042317           | 17  | 450×315     | 37  | 52     | 126 | /       |
| 8010040896            |                      | 17  | 500×315     | 110 | 108.2  | 275 | /       |
| 8010040897            |                      | 17  | 500×355     | 113 | 109.7  | 277 | /       |

**Reductor**



| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | L1   | L2    | L   | PCS/CTN |
|-----------------------|----------------------|-----|-------------|------|-------|-----|---------|
| 8010040898            | 8010042319           | 17  | 500×400     | 110  | 113   | 278 | /       |
| 8010042307            |                      | 17  | 500×450     | 118  | 118.6 | 279 | /       |
| 8010040899            |                      | 17  | 560×400     | 105  | 102.6 | 250 | /       |
| 8010041971            |                      | 17  | 560×450     | 105  | 104.9 | 250 | /       |
| 8010042308            |                      | 17  | 560×500     | 105  | 108.8 | 250 | /       |
| 8010042309            |                      | 17  | ★ 630×315   | 100  | 100   | 290 | /       |
| 8010040900            |                      | 17  | ★ 630×400   | 100  | 100   | 290 | /       |
| 8010040901            | 8010042320           | 17  | ★ 630×500   | 100  | 100   | 290 | /       |
| 8010042321            |                      | 26  | 500×315     | 110  | 108.2 | 275 | /       |
| 8010043925            |                      | 26  | 500×355     | 113  | 109.7 | 277 | /       |
| 8010040905            |                      | 26  | 500×400     | 110  | 115.4 | 273 | /       |
| 8010042322            |                      | 26  | 500×450     | 118  | 118.6 | 279 | /       |
| 8010042323            |                      | 26  | 560×315     | 97.5 | 101.3 | 250 | /       |
| 8010040906            |                      | 26  | 560×400     | 105  | 102.6 | 250 | /       |
| 8010042324            |                      | 26  | 560×450     | 105  | 104.9 | 250 | /       |
| 8010043145            |                      | 26  | 560×500     | 144  | 108.8 | 250 | /       |

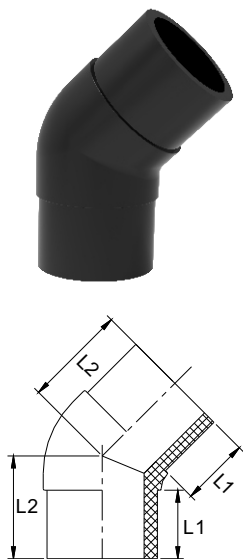
**Codo de 90°**



| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | Z     | L   | PCS/CTN |
|-----------------------|----------------------|-----|-------------|-------|-----|---------|
| 8010043577            |                      | 11  | 63          | 122   | 65  | 46      |
| 8010040751            | 8010040756           | 11  | 75          | 132   | 75  | 30      |
| 8010040752            | 8010040757           | 11  | 90          | 150   | 85  | 20      |
| 8010040743            | 8010040753           | 11  | 110         | 163   | 87  | 12      |
| 8010040744            | 8010042253           | 11  | 125         | 170.5 | 87  | 8       |
| 8010040745            | 8010040754           | 11  | 160         | 200   | 100 | 5       |
| 8010040746            |                      | 11  | 180         | 210   | 95  | 4       |
| 8010040747            | 8010040755           | 11  | 200         | 225   | 100 | 3       |
| 8010040748            |                      | 11  | 225         | 265   | 120 | /       |
| 8010040749            | 8010042254           | 11  | 250         | 292   | 130 | /       |
| 8010040750            | 8010043502           | 11  | 280         | 316   | 138 | /       |
| 8010041624            | 8010044556           | 11  | 315         | 355   | 150 | /       |
| 8010045528            |                      | 11  | 355         | 517.5 | 110 | /       |
| 8010042257            | 8010043193           | 17  | 75          | 132   | 75  | 30      |
| 8010040766            | 8010043192           | 17  | 90          | 150   | 85  | 20      |
| 8010040759            | 8010043229           | 17  | 110         | 163   | 87  | 12      |
| 8010042256            | 8010043486           | 17  | 125         | 170.5 | 87  | 8       |
| 8010040760            | 8010043249           | 17  | 160         | 200   | 100 | 5       |
| 8010040761            |                      | 17  | 180         | 210   | 95  | 4       |
| 8010040762            | 8010044311           | 17  | 200         | 225   | 100 | 3       |
| 8010040763            | 8010043441           | 17  | 225         | 265   | 120 | /       |
| 8010040764            | 8010042258           | 17  | 250         | 292   | 130 | /       |
| 8010040765            | 8010043297           | 17  | 280         | 316   | 138 | /       |
| 8010041623            | 8010044557           | 17  | 315         | 355   | 150 | /       |
| 8010043551            |                      | 17  | 355         | 330   | 110 | /       |

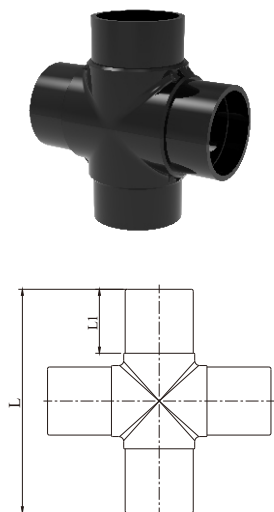
Tenga en cuenta que el molde del producto marcado con "★" en esta página no ha sido mejorado.

**Codo de 45°**



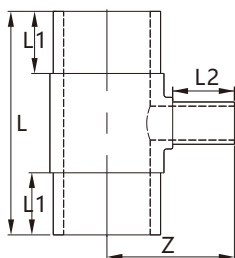
| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | L1  | L2  | PCS/CTN |
|-----------------------|----------------------|-----|-------------|-----|-----|---------|
| 8010040732            | 8010040734           | 11  | 75          | 80  | 124 | 30      |
| 8010040733            | 8010040735           | 11  | 90          | 85  | 136 | 18      |
| 8010040725            | 8010041385           | 11  | 110         | 87  | 145 | 10      |
| 8010040726            | 8010042245           | 11  | 125         | 87  | 150 | 4       |
| 8010040727            | 8010043300           | 11  | 160         | 100 | 175 | 3       |
| 8010040728            |                      | 11  | 180         | 105 | 183 | 3       |
| 8010040729            | 8010043168           | 11  | 200         | 110 | 193 | /       |
| 8010040730            | 8010042246           | 11  | 225         | 122 | 215 | /       |
| 8010040731            | 8010042247           | 11  | 250         | 130 | 232 | /       |
| 8010041412            | 8010043501           | 11  | 280         | 140 | 250 | /       |
| 8010044463            |                      | 11  | 315         | 150 | 270 | /       |
| 8010044464            |                      | 11  | 400         | 150 | 270 | /       |
| 8010042687            | 8010044818           | 17  | 75          | 80  | 124 | 30      |
| 8010041541            | 8010043230           | 17  | 90          | 85  | 136 | 18      |
| 8010040736            | 8010043231           | 17  | 110         | 87  | 145 | 12      |
| 8010042250            | 8010043485           | 17  | 125         | 87  | 150 | 10      |
| 8010040737            | 8010042985           | 17  | 160         | 100 | 175 | 4       |
| 8010040738            | 8010043196           | 17  | 180         | 105 | 183 | 3       |
| 8010040739            | 8010043785           | 17  | 200         | 110 | 193 | 3       |
| 8010040740            | 8010042251           | 17  | 225         | 122 | 215 | /       |
| 8010040741            | 8010042252           | 17  | 250         | 130 | 232 | /       |
| 8010040742            | 8010043298           | 17  | 280         | 140 | 250 | /       |
| 8010043594            | 8010045533           | 17  | 315         | 150 | 270 | /       |

**Cruceta**



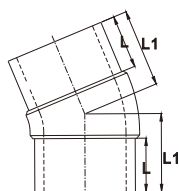
| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | L1  | L   | D   | PCS/CTN |
|-----------------------|----------------------|-----|-------------|-----|-----|-----|---------|
| 8010043326            | 8010043901           | 11  | 63          | 63  | 220 | 67  | 20      |
| 8010043327            | 8010044483           | 11  | 75          | 70  | 254 | 79  | 13      |
| 8010043438            |                      | 11  | 90          | 79  | 288 | 95  | 7       |
| 8010044510            |                      | 11  | 110         | 82  | 339 | 110 | 4       |
| 8010044511            |                      | 11  | 125         | 87  | 363 | 125 |         |
| 8010044006            |                      | 11  | 160         | 98  | 426 | 160 | 2       |
| 8010044605            |                      | 11  | 200         | 112 | 510 | 200 | 1       |
| 8010044790            |                      | 11  | 225         | 120 | 558 | 558 |         |
| 8010044498            |                      | 17  | 63          | 63  | 220 | 67  | 20      |
| 8010044499            |                      | 17  | 75          | 70  | 254 | 79  | 13      |
| 8010044500            |                      | 17  | 90          | 79  | 288 | 95  | 7       |
| 8010044501            |                      | 17  | 160         | 98  | 426 | 160 | 2       |
| 8010044711            |                      | 17  | 110         | 82  | 339 | 110 | 4       |
| 8010044712            |                      | 17  | 125         | 87  | 363 | 125 |         |
| 8010044713            |                      | 17  | 200         | 112 | 510 | 200 | 1       |
| 8010044791            |                      | 17  | 225         | 120 | 558 | 225 |         |
| 8010045856            |                      | 17  | 315         | 150 | 710 | 315 |         |

**Tee Reductora**



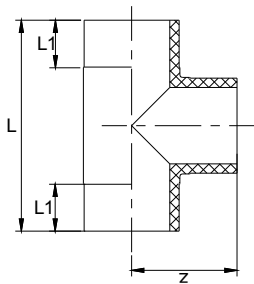
| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | L1   | L2   | L   | Z      | PCS/CTN |
|-----------------------|----------------------|-----|-------------|------|------|-----|--------|---------|
| 8010040789            | 8010040802           | 11  | 110×63      | 87   | 85   | 302 | 160.75 | 10      |
| 8010040790            | 8010040803           | 11  | 110×75      | 87   | 84.5 | 302 | 161.25 | 10      |
| 8010040791            | 8010040804           | 11  | 110×90      | 87   | 87   | 302 | 162.25 | 9       |
| 8010040794            | 8010040806           | 11  | 160×63      | 92.5 | 92   | 333 | 190    | 6       |
| 8010040795            | 8010042266           | 11  | 160×75      | 92.5 | 91.5 | 333 | 188.5  | 5       |
| 8010040796            | 8010040807           | 11  | 160×90      | 92.5 | 91.5 | 333 | 188.5  | 5       |
| 8010040793            | 8010040805           | 11  | 160×110     | 92.5 | 90.5 | 333 | 186    | 5       |
| 8010044569            |                      | 11  | 200×50      | 112  | 55   | 378 | 180    |         |
| 8010044568            | 8010046378           | 11  | 200×63      | 112  | 65   | 378 | 190    | 2       |
| 8010044446            | 8010046377           | 11  | 200×75      | 112  | 72   | 378 | 200    | 2       |
| 8010042265            | 8010042267           | 11  | 200×90      | 114  | 80   | 424 | 226    | 2       |
| 8010040797            | 8010041628           | 11  | 200×110     | 100  | 84   | 373 | 205    | 2       |
| 8010040798            | 8010041628           | 11  | 200×160     | 100  | 100  | 426 | 230    | 2       |
| 8010045590            |                      | 11  | 250×50      | 130  | 55   | 410 | 210    | 1       |
| 8010042984            | 8010043563           | 11  | 250×63      | 130  | 65   | 500 | 350    | /       |
| 8010045559            | 8010046376           | 11  | 250×75      | 130  | 75   | 410 | 226    | /       |
| 8010044441            | 8010046375           | 11  | 250×90      | 130  | 82   | 410 | 240    | /       |
| 8010040799            | 8010043562           | 11  | 250×110     | 130  | 84   | 460 | 248    | /       |
| 8010040800            | 8010043563           | 11  | 250×160     | 130  | 100  | 510 | 270    | /       |
| 8010042747            |                      | 11  | 250×200     | 130  | 112  | 528 | 271    | /       |
| 8010044442            |                      | 11  | 315×110     | 150  | 82   | 492 | 281.5  | /       |
| 8010044443            | 8010045503           | 11  | 315×160     | 150  | 98   | 545 | 298.5  | /       |
| 8010044907            |                      | 11  | 315×180     | 150  | 105  | 568 | 308.5  | /       |
| 8010044444            | 8010045534           | 11  | 315×200     | 150  | 112  | 592 | 315.5  | /       |
| 8010044487            |                      | 11  | 400×315     |      | 150  | 775 | 390    | /       |
| 8010040809            | 8010043250           | 17  | 110×63      | 87   | 85   | 302 | 160.75 | 10      |
| 8010040810            | 8010044611           | 17  | 110×75      | 87   | 84.5 | 302 | 161.25 | 10      |
| 8010042269            | 8010043251           | 17  | 110×90      | 87   | 87   | 302 | 162.25 | 9       |
| 8010042271            | 8010043252           | 17  | 160×63      | 92.5 | 92   | 333 | 190    | 6       |
| 8010040811            |                      | 17  | 160×75      | 92.5 | 91.5 | 333 | 188.5  | 5       |
| 8010042272            | 8010043253           | 17  | 160×90      | 92.5 | 91.5 | 333 | 188.5  | 5       |
| 8010042270            | 8010043254           | 17  | 160×110     | 92.5 | 90.5 | 333 | 186    | 5       |
| 8010043037            |                      | 17  | 200×90      | 112  | 80   | 424 | 226    | 2       |
| 8010040812            | 8010041387           | 17  | 200×110     | 114  | 84   | 373 | 205    | 2       |
| 8010040813            | 8010041973           | 17  | 200×160     | 100  | 100  | 426 | 230    | 2       |
| 8010040814            | 8010043787           | 17  | 250×110     | 130  | 84   | 460 | 248    | /       |
| 8010040815            | 8010043494           | 17  | 250×160     | 130  | 100  | 510 | 270    | /       |
| 8010044398            | 8010045502           | 17  | 315×110     | 150  | 82   | 492 | 281.5  | /       |
| 8010044397            | 8010045538           | 17  | 315×160     | 150  | 98   | 542 | 298.5  | /       |
| 8010044565            | 8010045548           | 17  | 315×200     | 150  | 112  | 590 | 315.5  | /       |

**Codo de 22.5°**



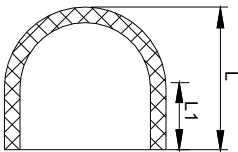
| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | Z   | L   | PCS/CTN |
|-----------------------|----------------------|-----|-------------|-----|-----|---------|
| 8010044637            |                      | 11  | 225         | 175 | 120 |         |
| 8010044710            |                      | 17  | 225         | 175 | 120 |         |

**Tee**



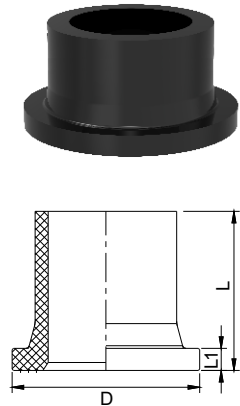
| Número de SAP (negro) | Número de SAP (azul) | SDR | Tamaño (mm) | L1    | L   | Z     | PCS/CTN |
|-----------------------|----------------------|-----|-------------|-------|-----|-------|---------|
| 8010042241            | 8010044340           | 11  | 63          | 65    | 224 | 112   | 22      |
| 8010040708            | 8010040714           | 11  | 75          | 75    | 264 | 132   | 18      |
| 8010040709            | 8010040715           | 11  | 90          | 85    | 300 | 150   | 14      |
| 8010040699            | 8010040710           | 11  | 110         | 90    | 325 | 163.5 | 8       |
| 8010040700            | 8010040711           | 11  | 125         | 87    | 341 | 170.5 | 6       |
| 8010040701            | 8010040712           | 11  | 160         | 100   | 400 | 210   | 3       |
| 8010040702            | 8010044347           | 11  | 180         | 105   | 430 | 215   | 3       |
| 8010040703            | 8010040713           | 11  | 200         | 103   | 456 | 228   | 2       |
| 8010040704            | 8010042242           | 11  | 225         | 120   | 530 | 265   | /       |
| 8010040705            | 8010044409           | 11  | 250         | 130   | 600 | 300   | /       |
| 8010040706            | 8010044310           | 11  | 280         | 138   | 632 | 316   | /       |
| 8010040707            |                      | 11  | 315         | 150   | 710 | 355   | /       |
| 8010044497            | 8010044431           | 17  | 63          | 65    | 224 | 112   | 22      |
| 8010043768            | 8010044705           | 17  | 75          | 75    | 264 | 132   | 18      |
| 8010041540            | 8010043305           | 17  | 90          | 85    | 300 | 150   | 14      |
| 8010040717            | 8010043255           | 17  | 110         | 90    | 325 | 163.5 | 8       |
| 8010042243            |                      | 17  | 125         | 87    | 341 | 170.5 | 6       |
| 8010040718            | 8010043256           | 17  | 160         | 100   | 400 | 210   | 3       |
| 8010041620            | 8010043201           | 17  | 180         | 105   | 430 | 215   | 3       |
| 8010040719            |                      | 17  | 200         | 103   | 456 | 228   | 2       |
| 8010040720            | 8010043439           | 17  | 225         | 120   | 530 | 265   | /       |
| 8010040721            | 8010042244           | 17  | 250         | 130   | 600 | 300   | /       |
| 8010040722            | 8010043440           | 17  | 280         | 138   | 632 | 316   | /       |
| 8010040723            | 8010043080           | 17  | 315         | 150   | 710 | 355   | /       |
| 8010040724            | 8010044372           | 17  | 355         | 103.5 | 660 | 330   | /       |
| 8010041383            | 8010043726           | 17  | 400         | 102   | 715 | 357.5 | /       |
| 8010043922            |                      | 26  | 355         | 103.5 | 660 | 330   | /       |

**Tapa**



| Número de SAP (negro) | Número de SAP (azul) | SDR  | Tamaño (mm) | L1    | L   | PCS/CTN |
|-----------------------|----------------------|------|-------------|-------|-----|---------|
| 8010042229            | 8010042237           | 11   | 63          | 50.5  | 82  | 150     |
| 8010040681            | 8010040683           | 11   | 75          | 81.2  | 111 | 100     |
| 8010040682            | 8010040684           | 11   | 90          | 79.7  | 117 | 60      |
| 8010040672            | 8010042230           | 11   | 110         | 83.43 | 127 | 40      |
| 8010040673            | 8010042231           | 11   | 125         | 92.93 | 145 | 24      |
| 8010040674            | 8010042232           | 11   | 160         | 111   | 175 | 15      |
| 8010040675            |                      | 11   | 180         | 105   | 177 | 12      |
| 8010040676            | 8010042233           | 11   | 200         | 113.1 | 195 | 8       |
| 8010040677            | 8010042234           | 11   | 225         | 11.4  | 207 | 5       |
| 8010040678            | 8010041583           | 11   | 250         | 118.2 | 224 | 4       |
| 8010040679            | 8010042235           | 11   | 315         | 88.6  | 140 | /       |
| 8010040680            | 8010042236           | 11   | 400         | 82    | 150 | /       |
| 8010040690            |                      | 13.6 | 280         | 115.8 | 223 | 4       |
| 8010044503            | 8010043302           | 17   | 63          | 50.5  | 82  | 150     |
| 8010042238            |                      | 17   | 75          | 81.2  | 111 | 100     |
| 8010041409            | 8010042239           | 17   | 90          | 79.7  | 117 | 60      |
| 8010041542            | 8010043257           | 17   | 110         | 83.43 | 127 | 40      |
| 8010044504            | 8010043817           | 17   | 125         | 92.93 | 145 | 24      |
| 8010040691            | 8010043258           | 17   | 160         | 111   | 175 | 15      |
| 8010042982            | 8010043198           | 17   | 180         | 105   | 177 | 12      |
| 8010040692            | 8010044305           | 17   | 200         | 113.1 | 195 | 8       |
| 8010040693            | 8010043782           | 17   | 225         | 111.4 | 207 | 5       |
| 8010041543            | 8010044382           | 17   | 250         | 118.2 | 224 | 4       |
| 8130070124            | 8010043303           | 17   | 280         | 115.8 | 223 | 4       |
| 8010040694            | 8010043197           | 17   | 315         | 88.6  | 140 | /       |
| 8010040695            | 8010044383           | 17   | 355         | 70.2  | 120 | /       |
| 8010040696            | 8010043461           | 17   | 400         | 82    | 150 | /       |
| 8010044698            |                      | 17   | 450         | 149.7 | 195 | /       |
| 8010044689            |                      | 17   | 500         | 149.7 | 200 | /       |
| 8010044690            |                      | 17   | 560         | 152.8 | 220 | /       |
| 8010044691            |                      | 17   | 630         | 160   | 220 | /       |
| 8010044972            |                      | 17   | 710         | 164.7 | 250 | /       |
| 8010045489            |                      | 17   | 800         | 164   | 250 | /       |

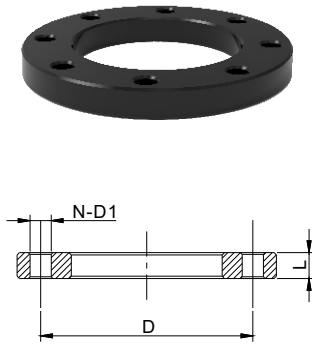
**Brida de Estanque**



| Número de SAP (negro) | Número de SAP (azul) | SDR  | Tamaño (mm) | L1 | L   | D   | PCS/CTN |
|-----------------------|----------------------|------|-------------|----|-----|-----|---------|
| 8010040580            | 8010043586           | 11   | 50          | 10 | 86  | 90  | 120     |
| 8010040581            | 8010043062           | 11   | 63          | 11 | 98  | 102 | 80      |
| 8010040582            | 8010040588           | 11   | 75          | 16 | 120 | 122 | 48      |
| 8010040583            | 8010040589           | 11   | 90          | 17 | 135 | 138 | 24      |
| 8010040571            | 8010040584           | 11   | 110         | 18 | 140 | 158 | 18      |
| 8010040572            | 8010040585           | 11   | 125         | 18 | 150 | 158 | 16      |
| 8010040573            | 8010040586           | 11   | 160         | 25 | 175 | 212 | 6       |
| 8010040574            | 8010042203           | 11   | 180         | 30 | 180 | 212 | 6       |
| 8010040575            | 8010040587           | 11   | 200         | 32 | 190 | 268 | 4       |
| 8010040576            | 8010042204           | 11   | 225         | 25 | 195 | 268 | 4       |
| 8010040577            | 8010042205           | 11   | 250         | 34 | 150 | 320 | 4       |
| 8010040578            | 8010042206           | 11   | 280         | 35 | 145 | 320 | 3       |
| 8010040664            | 8010040663           | 11   | 315         | 33 | 145 | 370 | 2       |
| 8010040665            |                      | 11   | 355         | 31 | 120 | 432 |         |
| 8010040666            | 8010042666           | 11   | 400         | 33 | 140 | 482 | 1       |
| 8010042967            |                      | 11   | 450         | 50 | 120 | 545 | /       |
| 8010040667            |                      | 11   | 500         | 46 | 170 | 585 |         |
| 8010041626            |                      | 11   | 560         | 50 | 195 | 685 |         |
| 8010040662            | 8010043706           | 13.6 | 355         | 31 | 120 | 432 | 2       |
| 8010044505            | 8010043259           | 17   | 50          | 10 | 86  | 90  | 120     |
| 8010042213            | 8010042775           | 17   | 63          | 11 | 98  | 102 | 80      |
| 8010040603            | 8010042748           | 17   | 75          | 16 | 120 | 122 | 48      |
| 8010041552            | 8010043238           | 17   | 90          | 17 | 135 | 138 | 24      |
| 8010040595            | 8010043500           | 17   | 110         | 18 | 140 | 158 | 18      |
| 8010042208            | 8010043204           | 17   | 125         | 18 | 150 | 158 | 16      |
| 8010040597            |                      | 17   | 160         | 25 | 175 | 212 | 6       |
| 8010042209            | 8010043194           | 17   | 180         | 30 | 180 | 212 | 6       |
| 8010040598            | 8010043499           | 17   | 200         | 32 | 190 | 268 | 4       |
| 8010040599            | 8010042214           | 17   | 225         | 25 | 195 | 268 | 4       |
| 8010040600            | 8010043304           | 17   | 250         | 34 | 150 | 320 | 4       |
| 8010040601            | 8010043079           | 17   | 280         | 35 | 145 | 320 | 3       |
| 8010040653            | 8010043526           | 17   | 315         | 33 | 145 | 370 | 2       |
| 8010040654            | 8010043239           | 17   | 355         | 31 | 120 | 432 | 2       |
| 8010040655            | 8010043240           | 17   | 400         | 33 | 140 | 482 | 1       |
| 8010040656            | 8010043241           | 17   | 450         | 50 | 120 | 545 | /       |
| 8010040657            | 8010043707           | 17   | 500         | 46 | 170 | 585 | /       |
| 8010040658            | 8010043525           | 17   | 560         | 50 | 195 | 685 | /       |
| 8010040659            |                      | 17   | ★ 630       | 50 | 160 | 685 | /       |
| 8010040660            |                      | 17   | ★ 710       |    |     |     | /       |
| 8010040661            |                      | 17   | 800         |    |     |     | /       |
| 8010040649            |                      | 26   | 500         | 46 | 170 | 585 | /       |
| 8010040605            | 8010043029           | 26   | 560         | 50 | 195 | 685 | /       |
| 8010040606            |                      | 26   | 630         | 50 | 160 | 685 | /       |

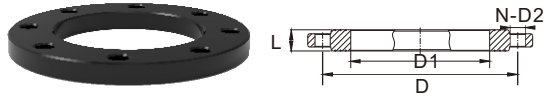
Tenga en cuenta que el molde del producto marcado con "★" en esta página no ha sido mejorado.

**Brida (Bandeja de Acero)**



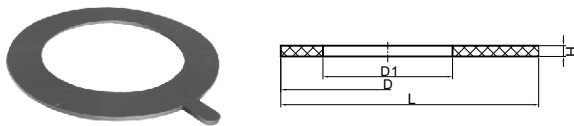
| Número de SAP (negro) | Número de SAP (azul) | Mpa | Tamaño (mm) | D    | D1 | N  | L  | Tamaño de la Rosca | PCS/CTN |
|-----------------------|----------------------|-----|-------------|------|----|----|----|--------------------|---------|
| 8010043365            | 8010042676           | 1.0 | 75          | 145  | 18 | 4  | 18 | M16                |         |
| 8010043364            | 8010042677           | 1.0 | 90          | 160  | 18 | 8  | 20 | M16                |         |
| 8010043107            | 8010043515           | 1.0 | 110         | 180  | 18 | 8  | 20 | M16                |         |
|                       |                      | 1.0 | 125         | 180  | 18 | 8  | 20 | M16                |         |
| 8010043022            | 8010043203           | 1.0 | 160         | 240  | 22 | 8  | 22 | M20                |         |
| 8080020300            |                      | 1.0 | 180         | 240  | 22 | 8  | 24 | M20                |         |
| 8010040521            | 8010040534           | 1.0 | 200         | 295  | 22 | 8  | 24 | M20                | 1       |
| 8010040522            | 8010042198           | 1.0 | 225         | 295  | 22 | 8  | 24 | M20                | 1       |
| 8010040523            | 8010040535           | 1.0 | 250         | 350  | 22 | 12 | 26 | M20                | 1       |
| 8010040524            |                      | 1.0 | 280         | 350  | 22 | 12 | 26 | M20                | 1       |
| 8010040525            | 8010040536           | 1.0 | 315         | 400  | 22 | 12 | 28 | M20                | 1       |
| 8010040526            | 8010040537           | 1.0 | 355         | 460  | 22 | 16 | 30 | M20                | 1       |
| 8010040527            | 8010041582           | 1.0 | 400         | 515  | 26 | 16 | 32 | M24                | 1       |
| 8010040528            | 8010040538           | 1.0 | 450         | 565  | 26 | 20 | 32 | M24                | 1       |
| 8010040529            | 8010044352           | 1.0 | 500         | 620  | 26 | 20 | 32 | M24                | 1       |
| 8010040530            | 8010044758           | 1.0 | 560         | 725  | 30 | 20 | 36 | M27                | 1       |
| 8010040531            |                      | 1.0 | 630         | 778  | 30 | 20 | 34 | M27                |         |
| 8010040532            |                      | 1.0 | 710         | 895  | 30 | 24 | 35 | M27                |         |
| 8010040533            | 8010040539           | 1.0 | 800         | 1015 | 33 | 24 | 36 | M30                |         |
| 8010040557            | 8010040566           | 1.6 | 75          | 145  | 18 | 4  | 18 | M16                | 5       |
| 8010040559            | 8010040567           | 1.6 | 90          | 160  | 18 | 8  | 20 | M16                | 3       |
| 8010040542            | 8010040560           | 1.6 | 110         | 180  | 18 | 8  | 22 | M16                | 3       |
| 8010040543            | 8010043518           | 1.6 | 125         | 180  | 18 | 8  | 22 | M16                | 3       |
| 8010040544            | 8010040561           | 1.6 | 160         | 240  | 22 | 8  | 24 | M20                | 1       |
| 8010040545            | 8010040562           | 1.6 | 180         | 240  | 22 | 8  | 24 | M20                | 1       |
| 8010040546            | 8010040563           | 1.6 | 200         | 295  | 22 | 12 | 26 | M20                | 1       |
| 8010040547            | 8010043517           | 1.6 | 225         | 295  | 22 | 12 | 26 | M20                | 1       |
| 8010040548            | 8010040564           | 1.6 | 250         | 355  | 26 | 12 | 29 | M24                | 1       |
| 8010040549            | 8010043503           | 1.6 | 280         | 355  | 26 | 12 | 29 | M24                | 1       |
| 8010040550            | 8010040565           | 1.6 | 315         | 410  | 26 | 12 | 32 | M24                | 1       |
| 8010040551            | 8010043516           | 1.6 | 355         | 470  | 26 | 16 | 35 | M24                | 1       |
| 8010040552            | 8010043260           | 1.6 | 400         | 525  | 30 | 16 | 32 | M27                | 1       |
| 8010040553            | 8010043261           | 1.6 | 450         | 585  | 30 | 20 | 37 | M27                | 1       |
| 8010040555            | 8010043262           | 1.6 | 500         | 650  | 33 | 20 | 44 | M30                | 1       |
| 8010041712            | 8010043704           | 1.6 | 560         | 770  | 36 | 20 | 55 | M33                | 1       |
| 8010040556            | 8010041534           | 1.6 | 630         | 770  | 36 | 20 | 55 | M33                | 1       |
| 8010044588            |                      | 1.6 | 710         | 840  | 36 | 24 | 63 | M33                | 1       |
| 8010040558            | 8010041535           | 1.6 | 800         | 950  | 39 | 24 | 42 | M36                | 1       |

**Brida de Separador**



| Número de SAP | SDR | Tamaño (mm) | D   | D1  | L  | N  | D2 | PCS/CTN |
|---------------|-----|-------------|-----|-----|----|----|----|---------|
| 8010041568    | 11  | 110         | 180 | 120 | 20 | 8  | 18 |         |
| 8010042681    | 11  | 160         | 240 | 170 | 24 | 8  | 23 |         |
| 8010042679    | 17  | 160         | 240 | 170 | 22 | 8  | 23 |         |
| 8010042685    | 11  | 200         | 295 | 210 | 32 | 12 | 23 |         |
| 8010042683    | 17  | 200         | 295 | 210 | 28 | 8  | 23 |         |

**Junta de Goma**



| Número de SAP | Tamaño (mm) | D1 | D | L | H   | PCS/CTN |
|---------------|-------------|----|---|---|-----|---------|
| 8010040783    | 75          |    |   |   | 3.5 |         |
| 8010040785    | 90          |    |   |   | 3.5 |         |
| 8010040767    | 110         |    |   |   | 3.5 |         |
| 8010040768    | 125         |    |   |   | 3.5 |         |
| 8010040769    | 160         |    |   |   | 3.5 |         |
| 8010040770    | 180         |    |   |   | 3.5 |         |
| 8010040771    | 200         |    |   |   | 3.5 |         |
| 8010040772    | 225         |    |   |   | 3.5 |         |
| 8010040773    | 250         |    |   |   | 3.5 |         |
| 8010040774    | 280         |    |   |   | 3.5 |         |
| 8010040775    | 315         |    |   |   | 4   |         |
| 8010040776    | 355         |    |   |   | 4.5 |         |
| 8010040777    | 400         |    |   |   | 5   |         |
| 8010040778    | 450         |    |   |   | 5   |         |
| 8010040779    | 500         |    |   |   | 5   |         |
| 8010040780    | 560         |    |   |   | 5   |         |
| 8010040781    | 630         |    |   |   | 5   |         |
| 8010040782    | 710         |    |   |   | 5   |         |
| 8010040784    | 800         |    |   |   | 5   |         |



## ■ Características

**Material:** PE 100

**Tamaño:** disponibilidad completa de 20 mm a 400 mm

**Clasificación de Presión:** 1.6 MPa u otras presiones nominales disponibles a solicitud

**Norma:** ISO 4427-3, EN 12201-3, BS EN 12201-3 AS/NZS 4129 BS 6920

**Color:** azul, negro u otros colores disponibles a solicitud

**Unión:** unión de tuberías y accesorios de electrofusión mediante unión de electro fusión

## ■ Ventajas

**No tóxico:** sin aditivos de metales pesados, no se cubriría con suciedad ni se contaminaría por bacterias

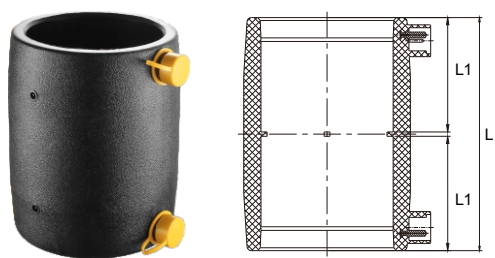
**Resistencia a la corrosión:** resistente a sustancias químicas y a la corrosión electroquímica

**Bajos Costos de Instalación:** ligero y fácil de instalar puede reducir los costos de instalación

**Alta Capacidad de Flujo:** paredes interiores lisas resultan en baja pérdida de presión y alto volumen

**Longevidad:** más de 50 años bajo uso adecuado

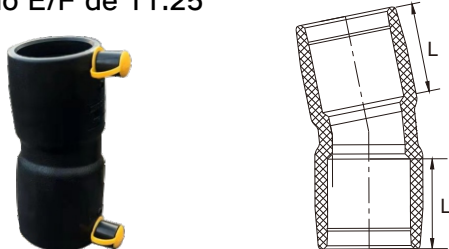
### Acoplamiento E/F



| Número de SAP (negro) | Tamaño (mm) | L   | L1    | PCS/CTN |
|-----------------------|-------------|-----|-------|---------|
| 8010040318            | 20          | 84  | 41    | 350     |
| 8010040321            | 25          | 84  | 41    | 320     |
| 8010040325            | 32          | 90  | 44    | 240     |
| 8010040327            | 40          | 100 | 49    | 180     |
| 8010046179            | ● 50        | 113 | 55    | 82      |
| 8010045492            | ● 63        | 129 | 63    | 54      |
| 8010045493            | ● 75        | 143 | 70    | 48      |
| 8010044891            | ● 90        | 161 | 79    | 32      |
| 8010044821            | ● 110       | 167 | 82    | 18      |
| 8010040315            | 125         | 177 | 87    | 12      |
| 8010044468            | ● 160       | 199 | 98    | 6       |
| 8010040317            | 180         | 213 | 105   | 4       |
| 8010044825            | ● 200       | 227 | 112   | 4       |
| 8010040320            | 225         | 243 | 120   | 2       |
| 8010045560            | ● 250       | 261 | 129   | 2       |
| 8010046415            | ● 280       | 273 | 135   | 2       |
| 8010045561            | ● 315       | 304 | 150   | 1       |
| 8010040326            | 355         | 332 | 164   | 1       |
| 8010040328            | 400         | 362 | 179   | 1       |
| 8010040329            | 450         | 394 | 194.5 | 1       |
| 8010040331            | 500         | 429 | 212   | 1       |
| 8010042122            | 560         | 476 | 234   | 1       |
| 8010042123            | 630         | 546 | 270   | 1       |

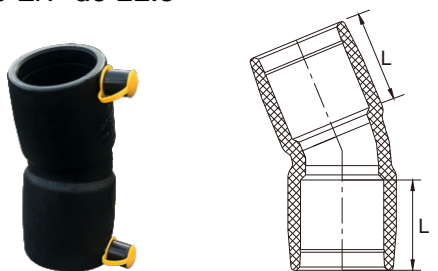
• El Nuevo Producto

### Codo E/F de 11.25°



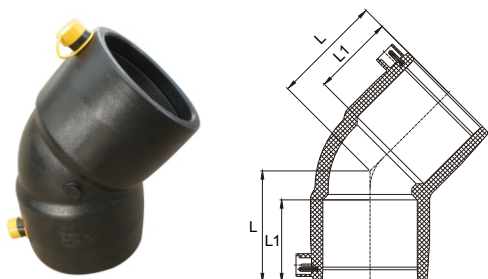
| Número de SAP (negro) | Tamaño (mm) | L  | PCS/CTN |
|-----------------------|-------------|----|---------|
| 8010044792            | 50          | 55 | 46      |
| 8010044726            | 63          | 63 | 24      |
| 8010044728            | 75          | 70 | 30      |
| 8010044694            | 90          | 79 | 23      |
| 8010046041            | 110         | 82 |         |
| 8010046045            | 125         | 87 |         |

### Codo E/F de 22.5°



| Número de SAP (negro) | Tamaño (mm) | L  | PCS/CTN |
|-----------------------|-------------|----|---------|
| 8010044793            | 50          | 55 | 42      |
| 8010044727            | 63          | 63 | 22      |
| 8010044729            | 75          | 70 | 30      |
| 8010044794            | 90          | 79 | 8       |
| 8010046043            | 110         | 82 | 11      |
| 8010046046            | 125         | 87 |         |

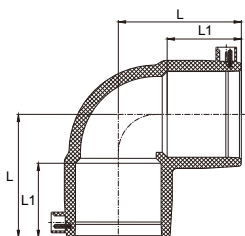
### Codo E/F de 45°



| Número de SAP (negro) | Tamaño (mm) | L   | L1  | PCS/CTN |
|-----------------------|-------------|-----|-----|---------|
| 8010040362            | 32          | 56  | 44  | 180     |
| 8010040363            | 40          | 64  | 49  | 120     |
| 8010040365            | 50          | 73  | 55  | 80      |
| 8010040366            | 63          | 85  | 63  | 45      |
| 8010040367            | 75          | 95  | 70  | 36      |
| 8010040368            | 90          | 107 | 79  | 20      |
| 8010040355            | 110         | 116 | 82  | 12      |
| 8010040356            | 125         | 127 | 87  | 8       |
| 8010045597            | ● 160       | 150 | 98  | 4       |
| 8010040358            | 180         | 157 | 105 | 3       |
| 8010046195            | ● 200       | 170 | 112 | 2       |
| 8010044959            | 225         | 182 | 120 |         |
| 8010040360            | 250         | 202 | 129 | 1       |
| 8010040361            | 315         | 238 | 150 |         |
| 8010040364            | 400         | 280 | 179 |         |

• El Nuevo Producto

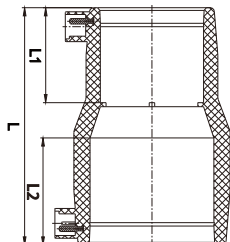
**Codo E/F de 90°**



| Número de SAP (negro) | Tamaño (mm) | L    | L1  | PCS/CTN |
|-----------------------|-------------|------|-----|---------|
| 8010040379            | 20          | 54   | 41  | 360     |
| 8010040381            | 25          | 56.2 | 41  | 240     |
| 8010040384            | 32          | 65   | 44  | 160     |
| 8010040385            | 40          | 74   | 49  | 100     |
| 8010046404            | ● 50        | 86   | 55  | 60      |
| 8010045967            | ● 63        | 100  | 63  | 40      |
| 8010045960            | ● 75        | 114  | 70  | 24      |
| 8010046416            | ● 90        | 131  | 79  | 16      |
| 8010045236            | ● 110       | 145  | 82  | 9       |
| 8010040376            | 125         | 159  | 87  | 6       |
| 8010044954            | ● 160       | 192  | 98  | 4       |
| 8010046054            | ● 180       | 206  | 105 | 2       |
| 8010045836            | ● 200       | 225  | 112 | 2       |
| 8010044643            | 225         | 245  | 120 |         |
| 8010045837            | ● 250       | 265  | 129 | 1       |
| 8010040383            | 315         | 320  | 150 |         |
| 8010040386            | 400         | 395  | 179 |         |

• El Nuevo Producto

**Codo E/F de 90°**

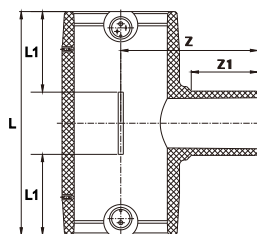


| Número de SAP (negro) | Tamaño (mm) | L   | L1  | L2  | PCS/CTN |
|-----------------------|-------------|-----|-----|-----|---------|
| 8010040493            | 32x25       | 89  | 41  | 44  | 250     |
| 8010040496            | 40x32       | 105 | 41  | 49  | 150     |
| 8010040497            | 50x32       | 115 | 44  | 55  | 126     |
| 8010040498            | 50x40       | 115 | 49  | 55  | 100     |
| 8010040499            | 63x32       | 130 | 44  | 63  | 72      |
| 8010040500            | 63x40       | 130 | 49  | 63  | 72      |
| 8010040501            | 63x50       | 130 | 55  | 63  | 70      |
| 8010040502            | 75x63       | 145 | 63  | 70  | 48      |
| 8010040503            | ● 90x63     | 175 | 63  | 79  | 28      |
| 8010040504            | ● 90x75     | 175 | 70  | 79  | 28      |
| 8010040474            | ● 110x50    | 160 | 55  | 82  | 24      |
| 8010040475            | ● 110x63    | 180 | 63  | 82  | 20      |
| 8010040476            | 110x75      | 180 | 70  | 82  | 24      |
| 8010040477            | ● 110x90    | 180 | 79  | 82  | 20      |
| 8010040478            | 125x90      | 195 | 79  | 87  | 14      |
| 8010040481            | 160x90      | 224 | 79  | 98  | 6       |
| 8010040479            | ● 160x110   | 224 | 82  | 98  | 6       |
| 8010040485            | ★ 200x63    | 250 | 63  | 112 | 5       |
| 8010040482            | 200x110     | 250 | 82  | 112 | 4       |
| 8010040483            | 200x160     | 250 | 98  | 112 | 4       |
|                       | ★ 225x110   | 255 | 82  | 120 |         |
|                       | ★ 225x160   | 260 | 98  | 120 |         |
| 8010040487            | 250x110     | 280 | 82  | 129 | 3       |
| 8010040488            | 250x160     | 280 | 98  | 129 | 2       |
| 8010040489            | 250x200     | 280 | 112 | 129 | 2       |
| 8010040490            | 315x160     | 320 | 98  | 150 |         |
| 8010040491            | 315x200     | 320 | 112 | 150 | 1       |
| 8010040492            | 315x250     | 320 | 129 | 150 | 1       |
| 8010040494            | 400x200     | 370 | 112 | 179 |         |
| 8010040495            | 400x315     | 370 | 150 | 179 |         |

• El Nuevo Producto

Tenga en cuenta que el molde del producto marcado con "★" en esta página no ha sido mejorado.

**Tee Reductora de E/F**

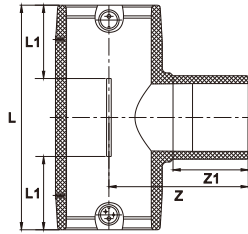


| Número de SAP (negro) | Tamaño (mm) | L     | L1 | Z1 | Z    | PCS/CTN |
|-----------------------|-------------|-------|----|----|------|---------|
| 8010040434            | 32×20       | 107   | 44 | 43 | 70   | 130     |
| 8010040435            | 32×25       | 111.5 | 44 | 43 | 70   | 130     |
| 8010040441            | 40×20       | 118.5 | 49 | 43 | 76   | 90      |
| 8010040442            | 40×25       | 123   | 49 | 43 | 76   | 90      |
| 8010040443            | 40×32       | 129   | 49 | 46 | 79   | 90      |
| 8010040444            | 50×20       | 130.5 | 55 | 42 | 79.5 | 70      |
| 8010040445            | 50×25       | 135.8 | 55 | 43 | 81   | 65      |
| 8010040446            | 50×32       | 142.2 | 55 | 46 | 84   | 60      |
| 8010040447            | 50×40       | 149   | 55 | 51 | 89   | 60      |
| 8010040448            | 63×20       | 153   | 63 | 43 | 90   | 40      |
| 8010040449            | 63×25       | 158   | 63 | 43 | 90   | 40      |
| 8010040450            | 63×32       | 165.5 | 63 | 46 | 96   | 40      |
| 8010040451            | 63×40       | 172.5 | 63 | 51 | 101  | 40      |
| 8010040452            | 63×50       | 180.5 | 63 | 57 | 107  | 36      |
| 8010040453            | 75×40       | 186.3 | 70 | 51 | 109  | 24      |
| 8010040454            | 75×50       | 194.2 | 70 | 57 | 115  | 24      |
| 8010040455            | 75×63       | 204   | 70 | 65 | 123  | 20      |
| 8010040456            | 90×40       | 197   | 79 | 51 | 120  | 16      |
| 8010040457            | 90×50       | 209.5 | 79 | 57 | 126  | 16      |
| 8010040458            | 90×63       | 219   | 79 | 65 | 134  | 15      |
| 8010040459            | 90×75       | 230   | 79 | 72 | 141  | 14      |
| 8010040403            | 110×50      | 218   | 82 | 57 | 140  | 10      |
| 8010040404            | 110×63      | 226   | 82 | 65 | 148  | 10      |

• Nuevo Tipo de Producto

| Número de SAP (negro) | Tamaño (mm) | L     | L1  | Z1  | Z   | PCS/CTN |
|-----------------------|-------------|-------|-----|-----|-----|---------|
| 8010040405            | 110×75      | 238   | 82  | 72  | 155 | 9       |
| 8010040406            | 110×90      | 250   | 82  | 81  | 164 | 9       |
| 8010040408            | 125×63      | 239   | 87  | 65  | 160 | 6       |
| 8010040409            | 125×75      | 249.6 | 87  | 72  | 167 | 6       |
| 8010040410            | 125×90      | 261.6 | 87  | 81  | 175 | 6       |
| 8010040407            | 125×110     | 278.6 | 87  | 84  | 178 | 6       |
| 8010046405            | ● 160×50    | 249   | 98  | 57  | 174 | 4       |
| 8010046180            | ● 160×63    | 259   | 98  | 65  | 182 | 4       |
| 8010046193            | ● 160×75    | 270   | 98  | 72  | 189 | 4       |
| 8010046192            | ● 160×90    | 282   | 98  | 81  | 198 | 4       |
| 8010045439            | ● 160×110   | 298   | 98  | 84  | 201 | 4       |
| 8010043150            | 180×160     | 352   | 105 | 100 | 230 | 2       |
| 8010046182            | ● 200×50    | 308   | 112 | 70  | 216 | 2       |
| 8010046194            | ● 200×63    | 308   | 112 | 70  | 216 | 2       |
| 8010040420            | 200×75      | 308   | 112 | 81  | 227 | 2       |
| 8010046181            | ● 200×90    | 308   | 112 | 81  | 227 | 2       |
| 8010045550            | ● 200×110   | 365   | 112 | 100 | 245 | 2       |
| 8010045551            | ● 200×160   | 365   | 112 | 100 | 245 | 2       |
| 8010044239            | 225X110     | 360   | 120 | 84  | 242 | 1       |
| 8010042154            | 225x160     | 400   | 120 | 100 | 260 | 1       |
| 8010040425            | 250X50      | 330   | 129 | 80  | 252 | 1       |
| 8010040426            | 250X63      | 330   | 129 | 80  | 252 | 1       |
| 8010040427            | 250X75      | 330   | 129 | 80  | 254 | 1       |
| 8010040428            | 250X90      | 358   | 129 | 90  | 265 | 1       |
| 8010040422            | 250X110     | 358   | 129 | 90  | 265 | 1       |
| 8010040423            | 250X160     | 430   | 129 | 110 | 291 | 1       |
| 8010040424            | 250X200     | 430   | 129 | 120 | 291 | 1       |
| 8010040433            | 315X90      | 440   | 150 | 100 | 325 | /       |
| 8010040429            | 315X110     | 440   | 150 | 100 | 325 | /       |
| 8010040430            | 315X160     | 440   | 150 | 105 | 325 | /       |
| 8010040431            | 315X200     | 514   | 150 | 120 | 346 | /       |
| 8010040432            | 315X250     | 514   | 150 | 134 | 346 | /       |
| 8010042157            | 400X90      | 453   | 179 | 82  | 355 | /       |
| 8010040436            | 400X110     | 453   | 179 | 82  | 355 | /       |
| 8010040437            | 400X160     | 526   | 179 | 110 | 390 | /       |
| 8010040438            | 400X200     | 526   | 179 | 112 | 390 | /       |
| 8010040439            | 400X250     | 619   | 179 | 134 | 415 | /       |
| 8010040440            | 400X315     | 619   | 179 | 163 | 425 | /       |

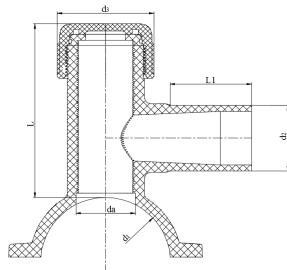
Tee E/F



| Número de SAP (negro) | Tamaño (mm) | L   | L1  | Z1  | Z    | PCS/CTN |
|-----------------------|-------------|-----|-----|-----|------|---------|
| 8010040289            | 20          | 98  | 41  | 42  | 60.5 | 300     |
| 8010040291            | 25          | 102 | 41  | 42  | 63   | 180     |
| 8010040294            | 32          | 118 | 44  | 46  | 73   | 120     |
| 8010040295            | 40          | 136 | 49  | 51  | 84   | 70      |
| 8010040297            | 50          | 157 | 55  | 57  | 95   | 48      |
| 8010040298            | 63          | 190 | 63  | 65  | 115  | 30      |
| 8010040299            | 75          | 215 | 70  | 72  | 130  | 20      |
| 8010040300            | 90          | 242 | 79  | 81  | 150  | 12      |
| 8010045587            | ● 110       | 266 | 82  | 86  | 167  | 7       |
| 8010040286            | 125         | 290 | 87  | 89  | 181  | 5       |
| 8010045437            | ● 160       | 338 | 98  | 105 | 222  | 3       |
| 8010040288            | 180         | 368 | 105 | 107 | 237  | 2       |
| 8010045586            | ● 200       | 398 | 112 | 115 | 255  | 1       |
| 8010044640            | 225         | 460 | 120 | 129 | 290  |         |
| 8010040292            | 250         | 472 | 129 | 135 | 301  | 1       |
| 8010040293            | 315         | 567 | 150 | 150 | 360  | /       |
| 8010040296            | 400         | 690 | 179 | 179 | 440  | /       |

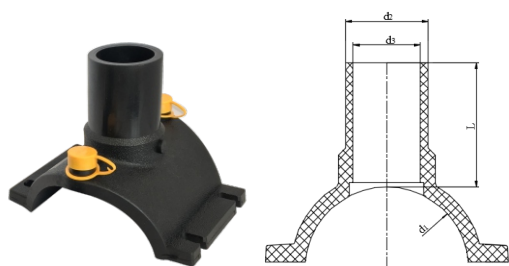
• Nuevo Tipo de Producto

Collarín de toma E/F



| Número de SAP (negro) | Tamaño (mm) | da | d1  | d2 | d3 | L1 | L   | PCS/CTN |
|-----------------------|-------------|----|-----|----|----|----|-----|---------|
| 8010042710            | 63×25       | 33 | 63  | 25 | 66 | 50 | 113 |         |
| 8010042711            | 63×32       | 33 | 63  | 32 | 66 | 50 | 113 |         |
| 8010042712            | 75×32       | 33 | 75  | 32 | 66 | 50 | 113 |         |
| 8010042713            | 90×32       | 33 | 90  | 32 | 66 | 50 | 113 |         |
| 8010042714            | 90×63       | 57 | 90  | 63 | 93 | 79 | 170 | 12      |
| 8010042715            | 110×32      | 33 | 110 | 32 | 66 | 50 | 113 |         |
| 8010042716            | 110×40      | 57 | 110 | 40 | 93 | 59 | 170 |         |
| 8010042717            | 110×63      | 57 | 110 | 63 | 93 | 79 | 170 | 10      |
| 8010042718            | 125×32      | 33 | 125 | 32 | 66 | 50 | 113 |         |
| 8010042719            | 125×63      | 57 | 125 | 63 | 93 | 79 | 170 |         |
| 8010042720            | 160×32      | 33 | 160 | 32 | 66 | 50 | 113 |         |
| 8010042721            | 160×63      | 57 | 160 | 36 | 93 | 79 | 170 | 5       |
| 8010042722            | 180×32      | 33 | 180 | 32 | 66 | 50 | 113 |         |
| 8010042723            | 180×63      | 57 | 180 | 63 | 93 | 79 | 170 |         |
| 8010042724            | 200×32      | 33 | 200 | 32 | 66 | 50 | 113 |         |
| 8010042725            | 200×63      | 57 | 200 | 63 | 93 | 79 | 170 |         |

**Collarín de toma simple E/F**



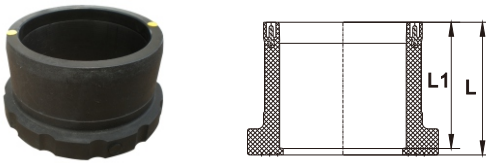
| Número de SAP (negro) | Tamaño (mm) | d1  | d2 | d3 | L  | PCS/CTN |
|-----------------------|-------------|-----|----|----|----|---------|
| 8010042696            | 75×63       | 75  | 51 | 63 | 95 |         |
| 8010042697            | 90×63       | 90  | 51 | 63 | 95 | 12      |
| 8010042698            | 110×63      | 110 | 51 | 63 | 95 | 10      |
| 8010042699            | 125×63      | 125 | 51 | 63 | 95 |         |
| 8010042700            | 160×63      | 160 | 51 | 63 | 95 |         |
| 8010042701            | 180×63      | 180 | 51 | 63 | 95 |         |
| 8010042702            | 200×63      | 200 | 51 | 63 | 95 | 12      |

**Silla de Parada E/F**



| Número de SAP (negro) | Tamaño (mm) | PCS/CTN |
|-----------------------|-------------|---------|
| 8010041359            | 90          | 36      |
| 8010041353            | 110         | 30      |
| 8010041354            | 125         | 30      |
| 8010041355            | 160         | 30      |
| 8010041356            | 200         | 20      |

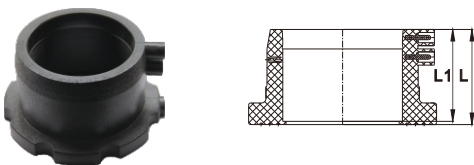
Brida de Estanque de E/F



| Número de SAP (negro) | Tamaño (mm) | L   | L1  | PCS/CTN |
|-----------------------|-------------|-----|-----|---------|
| 8010043684            | 50          | 62  | 55  | 120     |
| 8010043692            | 63          | 66  | 63  | 72      |
| 8010043685            | 75          | 73  | 70  | 48      |
| 8010042116            | 90          | 81  | 79  | 24      |
| 8010040278            | ● 160       | 128 | 125 | 9       |
| 8010040279            | ● 200       | 138 | 134 | 6       |
| 8010040280            | 250         | 142 | 138 | 3       |
| 8010040281            | 315         | 159 | 150 | 2       |
| 8010040282            | 400         | 185 | 175 | /       |
| 8010040283            | 500         | 220 | 210 | /       |
| 8010043074            | 630         | 283 | 255 | /       |

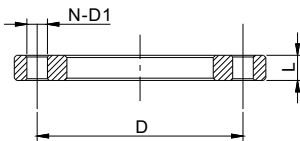
• Nuevo Tipo de Producto

Brida de Estanque de E/F (corta)

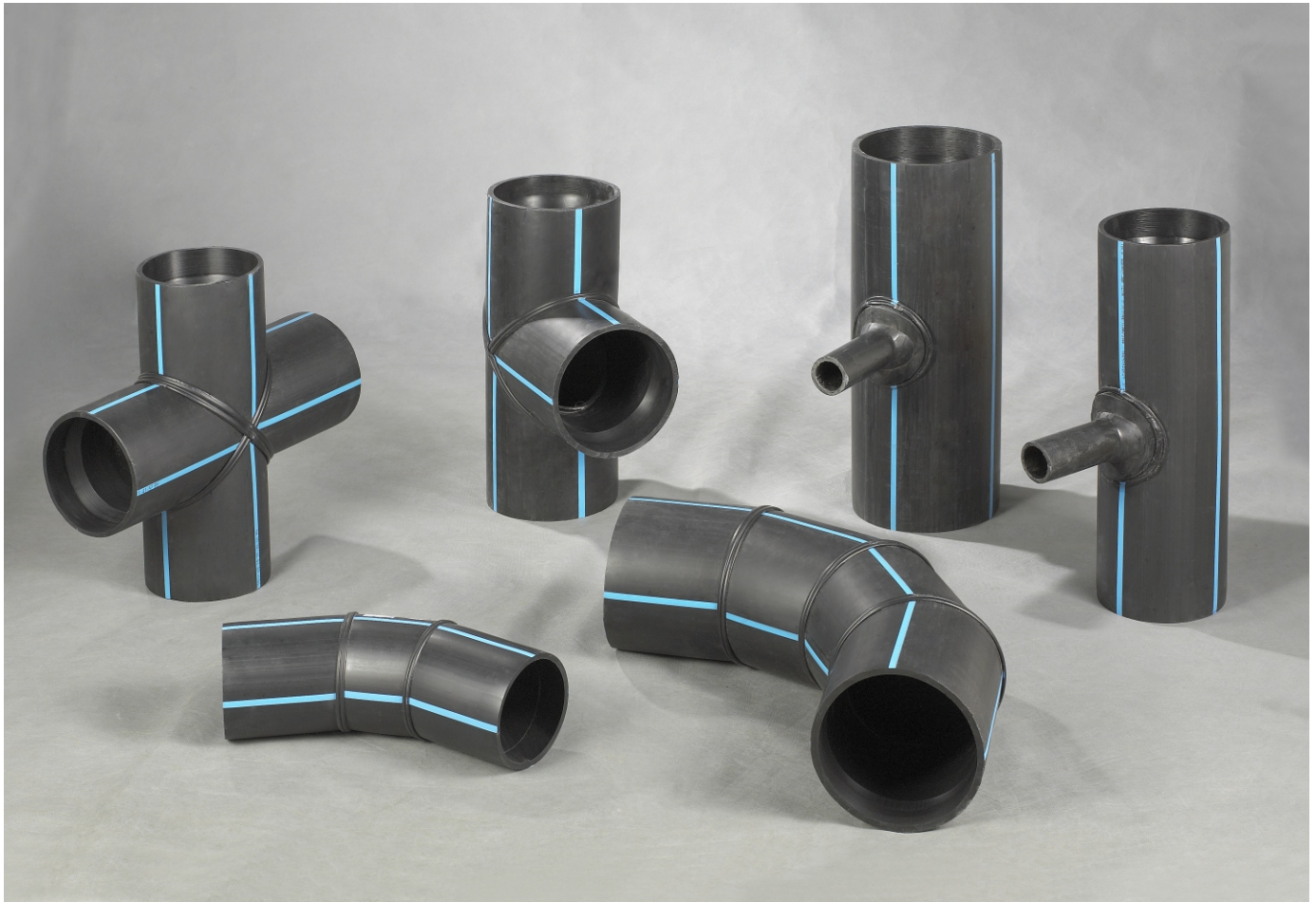


| Número de SAP (negro) | Tamaño (mm) | L         | L1 | PCS/CTN |
|-----------------------|-------------|-----------|----|---------|
| 8010043075            | 110         | <b>88</b> | 85 | 20      |
|                       |             |           |    |         |
|                       |             |           |    |         |

Brida de E/F (Bandeja de Acero)



| Número de SAP (negro) | Tamaño (mm) | N  | D1 | D    | L  | PCS/CTN |
|-----------------------|-------------|----|----|------|----|---------|
| 8010043104            | 50          | 4  | 18 | 75   | 10 |         |
| 8010043105            | 63          | 4  | 18 | 82.5 | 12 |         |
| 8010043106            | 75          | 4  | 18 | 92.5 | 15 |         |
| 8010042113            | 90          | 8  | 19 | 100  | 15 |         |
| 8010040267            | 110         | 8  | 18 | 180  | 22 | 3       |
| 8010040268            | 160         | 8  | 22 | 240  | 24 | 1       |
| 8010040269            | 200         | 12 | 22 | 295  | 26 | 1       |
| 8010040270            | 250         | 12 | 26 | 355  | 29 | 1       |
| 8010040271            | 315         | 12 | 26 | 410  | 32 | 1       |
| 8010040273            | 400         | 16 | 30 | 525  | 36 | 1       |
| 8010040274            | 500         | 20 | 33 | 650  | 44 |         |
| 8010043076            | 630         | 20 | 36 | 770  | 54 |         |



## ■ Características

**Material:** PE 100

**Tamaño:** disponibilidad completa de 110 mm a 800 mm

**Clasificación de Presión:** 0.6MPa, 1.0MPa, 1.6MPa u otras presiones nominales disponibles a solicitud

**Norma:** ISO 4427-3 EN 12201-3 BS EN 12201-3 BS 6920

**Color:** azul, negro con franjas azules u otros colores disponibles a solicitud

**Ángulos:** varios ángulos disponibles a solicitud

**Unión:** unión de tuberías y accesorios fabricados mediante unión de fusión a tope

## ■ Ventajas

**No tóxico:** sin aditivos de metales pesados, no se cubriría con suciedad ni se contaminaría por bacterias

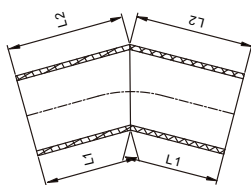
**Resistencia a la corrosión:** resistente a sustancias químicas y a la corrosión electroquímica

**Bajos Costos de Instalación:** ligero y fácil de instalar puede reducir los costos de instalación

**Alta Capacidad de Flujo:** paredes interiores lisas resultan en baja pérdida de presión y alto volumen

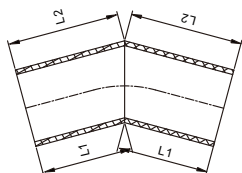
**Longevidad:** más de 50 años bajo uso adecuado

**Codo de 11.25°  
Fabricado**



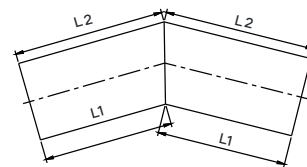
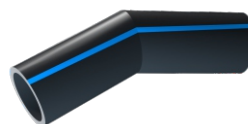
| Número SAP (negro) |            |            |            |            | Tamaño (mm) | L1  | L2    |
|--------------------|------------|------------|------------|------------|-------------|-----|-------|
| 0.6MPa             | 0.8MPa     | 1.0MPa     | 1.25MPa    | 1.6MPa     |             |     |       |
|                    | 8010045881 | 8010044968 | 8010045900 | 8010045622 | 90          | 165 | 173.9 |
| 8010045865         | 8010045882 | 8010043214 | 8010044804 | 8010044471 | 110         | 165 | 175.8 |
| 8010045866         | 8010045883 | 8010041614 | 8010045901 | 8010041432 | 125         | 180 | 192.3 |
| 8010045867         | 8010045884 | 8010043034 | 8010045902 | 8010043222 | 160         | 180 | 195.8 |
| 8010045868         | 8010045885 | 8010044902 | 8010045903 | 8010041427 | 180         | 190 | 207.7 |
| 8010045869         | 8010045886 | 8010042661 | 8010045904 | 8010044304 | 200         | 190 | 209.7 |
| 8010045870         | 8010045887 | 8010044901 | 8010044805 | 8010043346 | 225         | 190 | 212.2 |
| 8010045871         | 8010045888 | 8010042660 |            | 8010043221 | 250         | 287 | 311.6 |
| 8010045872         | 8010045889 | 8010043293 | 8010043292 | 8010043291 | 280         | 315 | 342.6 |
| 8010045873         | 8010045890 | 8010044299 | 8010044806 | 8010041429 | 315         | 370 | 401   |
| 8010045874         | 8010045891 | 8010044479 | 8010045905 | 8010044490 | 355         | 370 | 405   |
| 8010045875         | 8010045892 | 8010042801 | 8010045906 | 8010043179 | 400         | 400 | 439.4 |
| 8010045876         | 8010045893 | 8010044482 | 8010045907 | 8010044491 | 450         | 400 | 444.3 |
| 8010045877         | 8010045894 | 8010042802 | 8010045908 | 8010044492 | 500         | 425 | 474.2 |
| 8010045878         | 8010045895 | 8010045899 | 8010045909 | 8010045913 | 560         | 490 | 545.2 |
| 8010043420         | 8010045896 | 8010042803 | 8010045910 | 8010043153 | 630         | 570 | 632   |
| 8010045879         | 8010045897 | 8010044678 | 8010045911 | 8010045914 | 710         | 600 | 669.9 |
| 8010045880         | 8010045898 | 8010042804 | 8010045912 | 8010045915 | 800         | 630 | 708.9 |

**Codo de 22.5°  
Fabricado**



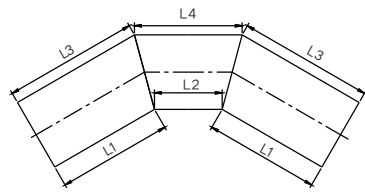
| Número SAP (negro) |            | Tamaño (mm) | L1  | L2    |
|--------------------|------------|-------------|-----|-------|
| 1.0MPa             | 1.25MPa    |             |     |       |
| 8010045318         | 8010045336 | 90          | 160 | 177.9 |
| 8010045319         | 8010045337 | 110         | 160 | 181.9 |
| 8010045320         | 8010045338 | 125         | 170 | 194.9 |
| 8010045321         | 8010045339 | 160         | 170 | 201.8 |
| 8010045322         | 8010045340 | 180         | 180 | 215.8 |
| 8010045323         | 8010045341 | 200         | 180 | 219.8 |
| 8010045324         | 8010045342 | 225         | 180 | 224.8 |
| 8010045325         | 8010045343 | 250         | 300 | 349.5 |
| 8010045326         | 8010045344 | 280         | 300 | 355.7 |
| 8010045327         | 8010045345 | 315         | 350 | 412.7 |
| 8010045328         | 8010045346 | 355         | 350 | 420.6 |
| 8010045329         | 8010045347 | 400         | 380 | 459.6 |
| 8010045330         | 8010045348 | 450         | 380 | 469.5 |
| 8010045331         | 8010045349 | 500         | 400 | 499.5 |
| 8010045332         | 8010045350 | 560         | 460 | 571.4 |
| 8010045333         | 8010045351 | 630         | 540 | 665.3 |
| 8010045334         | 8010045352 | 710         | 565 | 706.2 |
| 8010045335         | 8010045353 | 800         | 590 | 749.1 |

**Codo de 30°  
Fabricado**



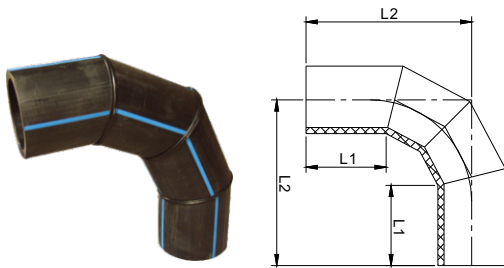
| Número SAP (negro) |            | Tamaño (mm) | L1    | L2    |
|--------------------|------------|-------------|-------|-------|
| 1.0MPa             | 1.25MPa    |             |       |       |
| 8010045354         | 8010045372 | 90          | 160   | 184.1 |
| 8010045355         | 8010045373 | 110         | 180   | 209.5 |
| 8010045356         | 8010045374 | 125         | 180   | 213.5 |
| 8010045357         | 8010045375 | 160         | 170   | 212.9 |
| 8010045358         | 8010045376 | 180         | 180   | 228.2 |
| 8010045359         | 8010045377 | 200         | 180   | 233.6 |
| 8010045360         | 8010045378 | 225         | 195   | 255.3 |
| 8010045361         | 8010045379 | 250         | 315   | 382   |
| 8010045362         | 8010045380 | 280         | 325   | 400.1 |
| 8010045363         | 8010045381 | 315         | 350   | 434.4 |
| 8010045364         | 8010045382 | 355         | 350   | 445.1 |
| 8010045365         | 8010045383 | 400         | 408   | 515.2 |
| 8010045366         | 8010045384 | 450         | 405   | 525.6 |
| 8010045367         | 8010045385 | 500         | 420   | 554   |
| 8010045368         | 8010045386 | 560         | 500   | 650.1 |
| 8010045369         | 8010045387 | 630         | 520   | 688.8 |
| 8010045370         | 8010045388 | 710         | 540.3 | 730.5 |
| 8010045371         | 8010045389 | 800         | 570   | 784.4 |

**Codo de 60°  
Fabricado**



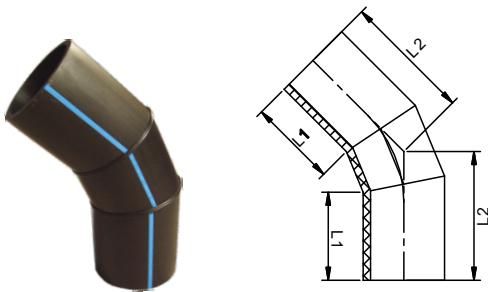
| Número SAP (negro) |            | Tamaño(mm) | L1    | L2    | L3    | L4    |
|--------------------|------------|------------|-------|-------|-------|-------|
| 1.0MPa             | 1.25MPa    |            |       |       |       |       |
| 8010045390         | 8010045408 | 90         | 200.0 | 100.0 | 224.1 | 148.2 |
| 8010045391         | 8010045409 | 110        | 200.0 | 100.0 | 229.5 | 158.9 |
| 8010045392         | 8010045410 | 125        | 200.0 | 100.0 | 233.5 | 167.0 |
| 8010045393         | 8010045411 | 160        | 200.0 | 100.0 | 242.9 | 185.7 |
| 8010045394         | 8010045412 | 180        | 200.0 | 100.0 | 248.2 | 196.5 |
| 8010045395         | 8010045413 | 200        | 200.0 | 100.0 | 253.2 | 207.2 |
| 8010045396         | 8010045414 | 225        | 200.0 | 100.0 | 260.3 | 220.6 |
| 8010045397         | 8010045415 | 250        | 305.0 | 115.0 | 372.0 | 249.0 |
| 8010045398         | 8010045416 | 280        | 307.5 | 115.0 | 382.5 | 265.1 |
| 8010045399         | 8010045417 | 315        | 390.0 | 170.0 | 474.4 | 338.8 |
| 8010045400         | 8010045418 | 355        | 390.0 | 180.0 | 485.1 | 367.7 |
| 8010045401         | 8010045419 | 400        | 400.0 | 200.0 | 507.2 | 414.4 |
| 8010045402         | 8010045420 | 450        | 400.0 | 200.0 | 520.6 | 441.2 |
| 8010045403         | 8010045421 | 500        | 460.0 | 220.0 | 597.0 | 487.9 |
| 8010045404         | 8010045422 | 560        | 475.0 | 250.0 | 625.1 | 550.1 |
| 8010045405         | 8010045423 | 630        | 490.0 | 280.0 | 658.8 | 617.6 |
| 8010045406         | 8010045424 | 710        | 500.0 | 300.0 | 690.2 | 680.5 |
| 8010045407         | 8010045425 | 800        | 510.0 | 320.0 | 724.4 | 748.7 |

**Codo de 90° Fabricado**



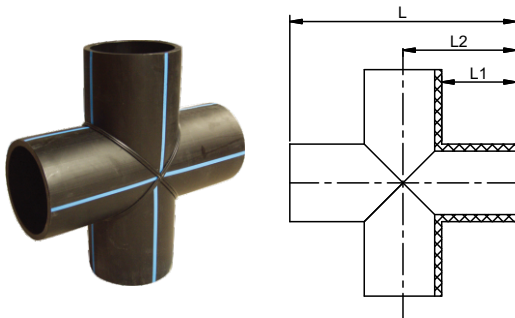
| Número SAP (negro) |            | Tamaño (mm) | L1  | L2     | PCS/CTN |
|--------------------|------------|-------------|-----|--------|---------|
| 1.0MPa             | 1.25MPa    |             |     |        |         |
| -----              | 8010045010 | 355         | 345 | 835.7  |         |
| 8010045003         | 8010045011 | 400         | 375 | 909.7  |         |
| 8010045004         | 8010045012 | 450         | 405 | 985.2  |         |
| 8010045005         | 8010045013 | 500         | 405 | 1086.2 |         |
| 8010045006         | 8010045014 | 560         | 480 | 1197.1 |         |
| 8010045007         | 8010045015 | 630         | 525 | 1304.5 |         |
| 8010045008         | 8010045016 | 710         | 540 | 1414.1 |         |
| 8010045009         | 8010045017 | 800         | 565 | 1552.4 |         |

**Codo de 45° Fabricado**



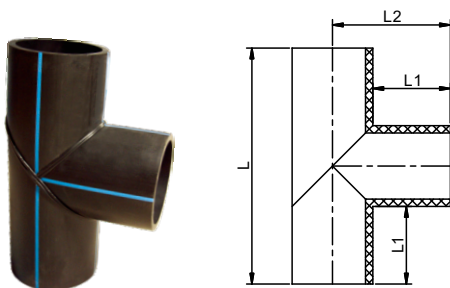
| Número SAP (negro) |            | Tamaño (mm) | L1  | L2    | PCS/CTN |
|--------------------|------------|-------------|-----|-------|---------|
| 1.0MPa             | 1.25MPa    |             |     |       |         |
| 8010044987         | 8010044995 | 355         | 525 | 525.9 |         |
| 8010044988         | 8010044996 | 400         | 550 | 550.7 |         |
| 8010044989         | 8010044997 | 450         | 581 | 581.4 |         |
| 8010044990         | 8010044998 | 500         | 622 | 622.2 |         |
| 8010044991         | 8010044999 | 560         | 697 | 697.8 |         |
| 8010044992         | 8010045000 | 630         | 170 | 740.8 |         |
| 8010044993         | 8010045001 | 710         | 791 | 791.3 |         |
| 8010044994         | 8010045002 | 800         | 848 | 848.9 |         |

**Cruceta Fabricada**



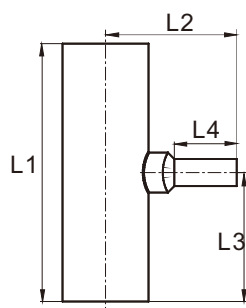
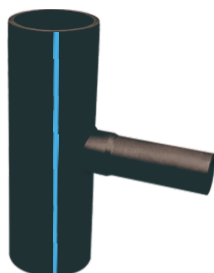
| Número SAP (negro) |            | Tamaño (mm) | L1  | L2    | L    | PCS/CTN |
|--------------------|------------|-------------|-----|-------|------|---------|
| 0.6MPa             | 0.8MPa     |             |     |       |      |         |
| 8010045026         | 8010045035 | 250         | 250 | 375   | 750  |         |
| 8010045027         | 8010045036 | 280         | 250 | 390   | 780  |         |
| 8010045028         | 8010045037 | 315         | 300 | 457.5 | 915  |         |
| 8010045029         | 8010045038 | 355         | 300 | 477.5 | 955  |         |
| 8010045030         | 8010045039 | 400         | 300 | 500   | 1000 |         |
| 8010045031         | 8010045040 | 450         | 300 | 525   | 1050 |         |
| 8010045032         | 8010045041 | 500         | 350 | 600   | 1200 |         |
| 8010045033         | 8010045042 | 560         | 350 | 630   | 1260 |         |
| 8010045034         | 8010045043 | 630         | 350 | 665   | 1330 |         |

**Tee Fabricada**



| Número SAP (negro) |            | Tamaño (mm) | L1  | L2  | L    | PCS/CTN |
|--------------------|------------|-------------|-----|-----|------|---------|
| 0.6MPa             | 0.8MPa     |             |     |     |      |         |
| 8010045018         | 8010045022 | 450         | 300 | 500 | 1000 |         |
| 8010045019         | 8010045023 | 500         | 300 | 525 | 1050 |         |
| 8010045020         | 8010045024 | 560         | 350 | 600 | 1200 |         |
| 8010045021         | 8010045025 | 630         | 350 | 665 | 1330 |         |
|                    |            |             |     |     |      |         |
|                    |            |             |     |     |      |         |

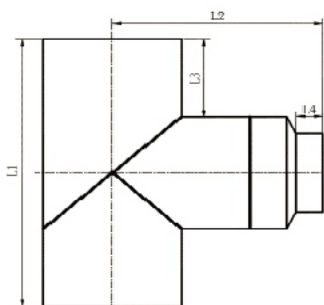
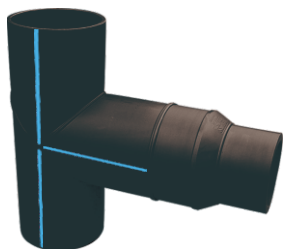
**Tee Reductora Fabricada**



Nota:  
 ≤ especificaciones dn630 con 0.6, 0.8 MPa;  
 Cuando los niveles de presión de la tubería principal y la tubería de derivación sean diferentes, indíquelo al hacer el pedido y personalice el producto.

| Número SAP (negro) |            | Tamaño (mm) | L1  | L2    | L3  | L4  | PCS/CTN |
|--------------------|------------|-------------|-----|-------|-----|-----|---------|
| 0.6MPa             | 0.8MPa     |             |     |       |     |     |         |
| 8010045044         | 8010045094 | 200×63      | 600 | 305   | 300 | 145 |         |
| 8010045045         | 8010045095 | 200×75      | 600 | 325   | 300 | 145 |         |
| 8010045046         | 8010045096 | 225×63      | 600 | 315   | 300 | 145 |         |
| 8010045047         | 8010045097 | 225×75      | 600 | 337.5 | 300 | 155 |         |
| 8010045048         | 8010045098 | 225×90      | 600 | 347.5 | 300 | 160 |         |
| 8010045049         | 8010045099 | 225×110     | 600 | 357.5 | 300 | 155 |         |
| 8010045050         | 8010045100 | 250×75      | 630 | 350   | 315 | 155 |         |
| 8010045051         | 8010045101 | 250×90      | 630 | 360   | 315 | 155 |         |
| 8010045052         | 8010045102 | 250×125     | 630 | 385   | 315 | 160 |         |
| 8010045053         | 8010045103 | 280×63      | 670 | 345   | 335 | 145 |         |
| 8010045054         | 8010045104 | 280×75      | 670 | 365   | 335 | 155 |         |
| 8010045055         | 8010045105 | 280×90      | 670 | 375   | 335 | 155 |         |
| 8010045056         | 8010045106 | 280×110     | 670 | 385   | 335 | 160 |         |
| 8010045057         | 8010045107 | 280×125     | 670 | 400   | 335 | 160 |         |
| 8010045058         | 8010045108 | 315×63      | 670 | 362.5 | 335 | 145 |         |
| 8010045059         | 8010045109 | 315×75      | 670 | 382.5 | 335 | 155 |         |
| 8010045060         | 8010045110 | 315×90      | 670 | 392.5 | 335 | 155 |         |
| 8010045061         | 8010045111 | 315×125     | 670 | 417.5 | 335 | 160 |         |
| 8010045062         | 8010045112 | 355×63      | 670 | 382.5 | 335 | 145 |         |
| 8010045063         | 8010045113 | 355×75      | 670 | 402.5 | 335 | 155 |         |
| 8010045064         | 8010045114 | 355×90      | 670 | 412.5 | 335 | 155 |         |
| 8010045065         | 8010045115 | 355×110     | 670 | 422.5 | 335 | 160 |         |
| 8010045066         | 8010045116 | 355×125     | 670 | 437.5 | 335 | 160 |         |
| 8010045067         | 8010045117 | 355×160     | 670 | 447.5 | 335 | 160 |         |
| 8010045068         | 8010045118 | 400×63      | 720 | 405   | 360 | 145 |         |
| 8010045069         | 8010045119 | 400×75      | 720 | 425   | 360 | 155 |         |
| 8010045070         | 8010045120 | 400×90      | 720 | 435   | 360 | 155 |         |
| 8010045071         | 8010045121 | 400×110     | 720 | 445   | 360 | 160 |         |
| 8010045072         | 8010045122 | 400×125     | 720 | 460   | 360 | 160 |         |
| 8010045073         | 8010045123 | 400×160     | 720 | 470   | 360 | 160 |         |
| 8010045074         | 8010045124 | 450×63      | 720 | 430   | 360 | 145 |         |
| 8010045075         | 8010045125 | 450×75      | 720 | 450   | 360 | 155 |         |
| 8010045076         | 8010045126 | 450×90      | 720 | 460   | 360 | 155 |         |
| 8010045077         | 8010045127 | 450×110     | 720 | 470   | 360 | 160 |         |
| 8010045078         | 8010045128 | 450×125     | 720 | 485   | 360 | 160 |         |
| 8010045079         | 8010045129 | 450×160     | 720 | 495   | 360 | 160 |         |
| 8010045080         | 8010045130 | 500×63      | 760 | 455   | 380 | 145 |         |
| 8010045081         | 8010045131 | 500×75      | 760 | 475   | 380 | 155 |         |
| 8010045082         | 8010045132 | 500×90      | 760 | 485   | 380 | 155 |         |
| 8010045083         | 8010045133 | 500×110     | 760 | 495   | 380 | 160 |         |
| 8010045084         | 8010045134 | 500×125     | 760 | 510   | 380 | 160 |         |
| 8010045085         | 8010045135 | 500×160     | 760 | 520   | 380 | 160 |         |
| 8010045086         | 8010045136 | 560×110     | 760 | 525   | 380 | 160 |         |
| 8010045087         | 8010045137 | 560×160     | 760 | 550   | 380 | 160 |         |
| 8010045088         | 8010045138 | 630×63      | 760 | 520   | 380 | 145 |         |
| 8010045089         | 8010045139 | 630×75      | 760 | 540   | 380 | 155 |         |
| 8010045090         | 8010045140 | 630×90      | 760 | 550   | 380 | 155 |         |
| 8010045091         | 8010045141 | 630×110     | 760 | 560   | 380 | 160 |         |
| 8010045092         | 8010045142 | 630×125     | 760 | 575   | 380 | 160 |         |
| 8010045093         | 8010045143 | 630×160     | 760 | 585   | 380 | 160 |         |

**Montaje de Tee Reductora Fabricada**



Nota:  
 ≤ especificaciones dn315 con 0.6, 0.8, 1.0, 1.6 MPa  
 (200 × 50, 250 × 50, 315 × 50 solo con 0.6, 0.8 MPa);  
 especificaciones dn355, 400 con 0.6, 0.8, 1.0 MPa  
 (355 × 50, 400 × 50 solo con 0.6, 0.8 MPa);

≥ especificaciones dn450 con 0.6, 0.8 MPa;

Cuando los niveles de presión de la tubería principal y la tubería de derivación sean diferentes, indíquelo al hacer el pedido y personalice el producto.  
 n placing order and customize the product.

| Número SAP (negro) |            |            |            | Tamaño (mm) | L1  | L2    | L3    | L4   | PCS/CTN |
|--------------------|------------|------------|------------|-------------|-----|-------|-------|------|---------|
| 0.6MPa             | 0.8MPa     | 1.0MPa     | 1.6MPa     |             |     |       |       |      |         |
| 8010045144         | 8010045201 | —          | —          | 200×50      | 600 | 346.5 | 300   | 25   |         |
| 8010045149         |            | 8010041138 | 8010041316 | 200×125     | 426 | 435   | 213   | 90   |         |
| 8010045150         |            | 8010041145 | 8010041317 | 225×125     | 530 | 675   | 265   | 75   |         |
| 8010045151         | 8010042488 | 8010041146 | 8010041318 | 225×160     | 530 | 485   | 265   | 80   |         |
| 8010045152         | 8010042489 | 8010041147 | 8010041319 | 225×200     | 530 | 460   | 265   | 85   |         |
| 8010045145         | 8010045202 | —          | —          | 250×50      | 630 | 359.6 | 315   | 25   |         |
| 8010045153         | 8010042494 | 8010041309 | 8010043352 | 250×200     | 600 | 526   | 300   | 84.8 |         |
| 8010045154         | 8010042495 | 8010041156 | 8010041258 | 250×225     | 600 | 495   | 300   | 90   |         |
| 8010045155         | 8010042498 | 8010041163 | 8010044860 | 280×160     | 632 | 800   | 316   | 80   |         |
| 8010045156         | 8010042499 | 8010041536 | 8010044857 | 280×200     | 632 | 791   | 316   | 84.8 |         |
| 8010045146         | 8010045203 | —          | —          | 315×50      | 670 | 385.3 | 335   | 25   |         |
| 8010045157         | 8010042504 | 8010042625 | 8010041990 | 315×225     | 710 | 570   | 355   | 90   |         |
| 8010045158         | 8010042505 | 8010041174 | 8010041274 | 315×250     | 710 | 585   | 355   | 88   |         |
| 8010045159         | 8010042506 | 8010041175 | 8010041275 | 315×280     | 710 | 585   | 355   | 88   |         |
| 8010045147         | 8010045204 | —          | —          | 355×50      | 670 | 405.3 | 355   | 25   |         |
| 8010045160         |            | 8010043403 | —          | 355×180     | 660 | 795   | 330   | 80   |         |
| 8010045161         | 8010042509 | 8010041183 | —          | 355×200     | 660 | 602   | 330   | 75   |         |
| 8010045162         |            | 8010043405 | —          | 355×225     | 660 | 750.2 | 330   | 90   |         |
| 8010045163         | 8010042510 | 8010041185 | —          | 355×250     | 660 | 560   | 330   | 77   |         |
| 8010045164         |            | 8010041601 | —          | 355×280     | 660 | 729.2 | 330   | 85   |         |
| 8010045165         | 8010042511 | 8010043426 | —          | 355×315     | 660 | 535.2 | 330   | 85   |         |
| 8010045148         | 8010045205 | —          | —          | 400×50      | 720 | 427.2 | 360   | 25   |         |
| 8010045166         | 8010042514 | 8010041395 | —          | 400×200     | 715 | 612.5 | 357.5 | 70   |         |
| 8010045167         | 8010042515 | 8010041438 | —          | 400×225     | 715 | 781.5 | 357.5 | 90   |         |
| 8010045168         | 8010042516 | 8010041436 | —          | 400×250     | 715 | 579.6 | 357.5 | 75   |         |
| 8010045169         |            | 8010041194 | —          | 400×280     | 715 | 562.3 | 357.5 | 77   |         |
| 8010045170         | 8010042518 | 8010041556 | —          | 400×355     | 715 | —     | 357.5 | —    |         |

## Fabricated Reducing Tee Assembly

| Número SAP (negro) |            |        |        | Tamaño (mm) | L1   | L2    | L3  | L4  | PCS/CTN |
|--------------------|------------|--------|--------|-------------|------|-------|-----|-----|---------|
| 0.6MPa             | 0.8MPa     | 1.0MPa | 1.6MPa |             |      |       |     |     |         |
| 8010045171         | 8010045206 |        |        | 450×180     | 1050 | 864   | 525 | 90  |         |
| 8010045172         | 8010045207 |        |        | 450×200     | 1050 | 669   | 525 | 65  |         |
| 8010045173         | 8010045208 |        |        | 450×225     | 1050 | 750.6 | 525 | 90  |         |
| 8010045174         | 8010045209 |        |        | 450×250     | 1050 | 631.5 | 525 | 77  |         |
| 8010045175         | 8010045210 |        |        | 450×280     | 1050 | —     | 525 | —   |         |
| 8010045176         | 8010045211 |        |        | 450×315     | 1050 | 544   | 525 | 37  |         |
| 8010045177         | 8010045212 |        |        | 450×355     | 1050 | 685   | 525 | 97  |         |
| 8010045178         | 8010045213 |        |        | 450×400     | 1050 | 685   | 525 | 97  |         |
| 8010045179         | 8010045214 |        |        | 500×180     | 1200 | 1236  | 600 | 90  |         |
| 8010045180         | 8010045215 |        |        | 500×200     | 1200 | 1041  | 600 | 95  |         |
| 8010045181         | 8010045216 |        |        | 500×225     | 1200 | 1044  | 600 | 100 |         |
| 8010045182         | 8010045217 |        |        | 500×250     | 1200 | 1004  | 600 | 88  |         |
| 8010045183         | 8010045218 |        |        | 500×280     | 1200 | 960   | 600 | 85  |         |
| 8010045184         | 8010045219 |        |        | 500×315     | 1200 | 765   | 600 | 95  |         |
| 8010045185         | 8010045220 |        |        | 500×355     | 1200 | 765   | 600 | 95  |         |
| 8010045186         | 8010045221 |        |        | 500×400     | 1200 | 765   | 600 | 95  |         |
| 8010045187         | 8010045222 |        |        | 500×450     | 1200 | 765   | 600 | 130 |         |
| 8010045188         | 8010045223 |        |        | 560×225     | 1260 | 1280  | 630 | 100 |         |
| 8010045189         | 8010045224 |        |        | 560×280     | 1260 | 1195  | 630 | 85  |         |
| 8010045190         | 8010045225 |        |        | 560×315     | 1260 | 1000  | 630 | 95  |         |
| 8010045191         | 8010045226 |        |        | 630×180     | 1330 | 1605  | 665 | 90  |         |
| 8010045192         | 8010045227 |        |        | 630×200     | 1330 | 1410  | 665 | 115 |         |
| 8010045193         | 8010045228 |        |        | 630×225     | 1330 | 1410  | 665 | 100 |         |
| 8010045194         | 8010045229 |        |        | 630×250     | 1330 | 1364  | 665 | 88  |         |
| 8010045195         | 8010045230 |        |        | 630×280     | 1330 | 1325  | 665 | 85  |         |
| 8010045196         | 8010045231 |        |        | 630×315     | 1330 | 1130  | 665 | 95  |         |
| 8010045197         | 8010045232 |        |        | 630×355     | 1330 | 1130  | 665 | 95  |         |
| 8010045198         | 8010045233 |        |        | 630×400     | 1330 | 1130  | 665 | 95  |         |
| 8010045199         | 8010045234 |        |        | 630×450     | 1330 | 1130  | 665 | 130 |         |
| 8010045200         | 8010045235 |        |        | 630×500     | 1330 | 865   | 665 | 100 |         |

**Cortador de Tubería**



| Número de SAP | Modelo | Rango de Aplicación |
|---------------|--------|---------------------|
| 8010041504    | TU 140 | 50~140              |
| 8010041505    | T3     | 100~160             |
|               | T4     | 180~315             |

**Raspador de Cuchilla**



| Número de SAP | Modelo        | Rango de Aplicación |
|---------------|---------------|---------------------|
| 8010041502    | Small Scraper | 1.5"                |
| 8010041503    | Big Scraper   | 2.0"                |

**Raspador Giratorio**



| Número de SAP | Modelo | Rango de Aplicación |
|---------------|--------|---------------------|
| 8010042738    | RTC160 | 50~160              |
|               | RTC315 | 75~315              |

**Soldadora por Fusión  
Conector de Encaje**



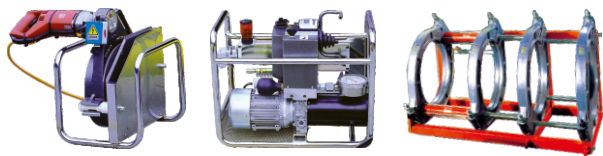
| Número de SAP | Modelo | Rango de Aplicación |
|---------------|--------|---------------------|
| 8010041418    | 1000w  | 20~63               |
| 8010041419    | 1600w  | 75~110              |
| 8010041420    | 2500w  | 160                 |

**Conector de Encaje  
de Fusión**



| Número de SAP | Modelo | Rango de Aplicación |
|---------------|--------|---------------------|
| 8010040972    |        | 20                  |
| 8010040973    |        | 25                  |
| 8010040974    |        | 32                  |
| 8010040975    |        | 40                  |
| 8010040976    |        | 50                  |
| 8010040977    |        | 63                  |
| 8010040978    |        | 75                  |
| 8010040979    |        | 90                  |
| 8010040970    |        | 110                 |
| 8010040971    |        | 160                 |

**Soldadora por Fusión a Tope**



| Número de SAP | Model | Rango de Aplicación |
|---------------|-------|---------------------|
| 8130070492    | 160   | 63~160              |
| 8010041411    | 250   | 90~250              |
| 8010041382    | 250   | 110~250             |
| 8130052485    | 315   | 160~315             |
| 8130052486    | 450   | 280~450             |
| 8130044757    | 630   | 400~630             |
|               | 800   | 630~800             |
|               | 1200  | 900~1200            |

**Soldadora por Electro Fusión**



| Número de SAP | Model      | Rango de Aplicación |
|---------------|------------|---------------------|
| 8010041972    | DRJ-CA-9C  |                     |
| 8010042745    | DRJ-CA-15C |                     |

Puede guardar los datos y los datos se pueden imprimir cuando se conecta a la computadora.

**3.1** Resistencia a la corrosión.

**3.2** No hay fugas en la junta de fusión. Las tuberías de PE utilizan principalmente la junta de fusión para garantizar la uniformidad del material y la estructura de los accesorios y la tubería.

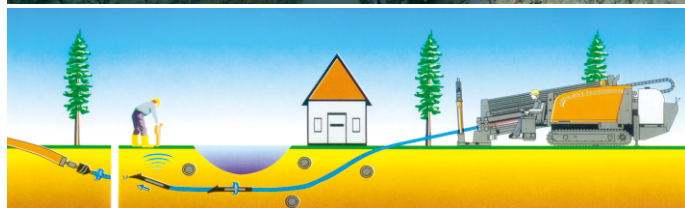
**3.3** El gran valor técnico y económico de la flexibilidad del sistema de tuberías de PE. Principalmente como se detalla a continuación:

**3.3a** La tubería de PE puede enrollarse debido a su excelente flexibilidad, puede suministrarse en longitudes largas, evitando el uso masivo de juntas y accesorios, reduciendo la carga de trabajo de las uniones.

Considerando la practicidad, nuestra empresa puede suministrar tuberías de PE enrolladas si el diámetro no es mayor de 63 mm.



**3.3c** La técnica de perforación direccional puede utilizarse en la unión de tuberías de PE en algunos lugares debido a su flexibilidad, ligereza y excelente resistencia a los arañazos. Lugares adecuados incluyen carreteras, bases de ferrocarriles, ríos, etc.



**3.3b** Para reducir la carga de trabajo de las uniones, la tubería de PE de gran diámetro puede unirse en el suelo (fuera de la zanja) antes de ser colocada en la zanja.



**3.3d** Sumergir la tubería larga al instalar tuberías de PE en ríos o lagos. Conectar la tubería en un lugar fijo antes de sumergirla con artículos pesados.



**3.3e** Reparar la antigua tubería de suministro de agua urbano utilizando tuberías de PE como revestimiento interior.



**3.4** Resistencia efectiva al movimiento subterráneo y a la carga puntual. La tubería de PE tiene una excelente flexibilidad y una fuerte resistencia a asentamientos diferenciales, la tasa de elongación al romper supera el 350%.

**3.5** Excelente resistencia a la rápida propagación de grietas.

**3.6** Larga vida útil. La tubería de PE puede utilizarse durante más de 50 años bajo un uso adecuado.

**3.7** Amigable con el medio ambiente. La tubería de PE puede reciclarse. No producirá sustancias nocivas para el medio ambiente, incluso si se quema.

**(1) Paso para la Junta de Fusión por Conector de Encaje:**

(Usar Soldadora por Fusión de Conector de Encaje)



**① Verificar y medir**

- Verificar si las tuberías y accesorios están dañados, y hacer que el corte sea suave.
- Medir la profundidad del conector de encaje, marcar en la superficie de la tubería.



**② Biselar**

- Biselar la boquilla, el ángulo debe ser de 30°, la longitud del surco de la superficie no debe exceder 2.0 mm.



**③ Limpiar y secar**

- Limpiar y secar el machón de la tubería y el conector de encaje de los accesorios.



**④ Calentar**

- Empujar el extremo de la tubería y los accesorios, sin girar, hasta la profundidad de soldadura en la soldadora, calentar el extremo de la tubería y los accesorios.



**⑤ Unir y enfriar**

- Sacar la tubería y los accesorios de la soldadora cuando termine el tiempo de calentamiento programado, insertar el machón de la tubería en el conector de encaje de los accesorios de manera uniforme y rápida.
- No continuar con el siguiente paso hasta que se complete el enfriamiento programado.

**Parámetro técnico recomendado para la Junta de Fusión por Conector de Encaje**

(La temperatura térmica es de 260°C ± °C)

| Díámetro Externo (mm) | Tiempo de Calentamiento (s) | Tiempo Máximo de Tránsito (s) | Tiempo Mínimo de Enfriamiento (s) |
|-----------------------|-----------------------------|-------------------------------|-----------------------------------|
| 20                    | 5                           | 4                             | 2                                 |
| 25                    | 7                           | 4                             | 2                                 |
| 32                    | 8                           | 6                             | 4                                 |
| 40                    | 12                          | 6                             | 4                                 |
| 50                    | 18                          | 6                             | 4                                 |
| 63                    | 24                          | 8                             | 6                                 |

**(2) Paso para la Unión de Fusión a Tope:** (Usar Soldadora por Fusión a Tope)



**① Preparar**

- Prepare las herramientas necesarias.



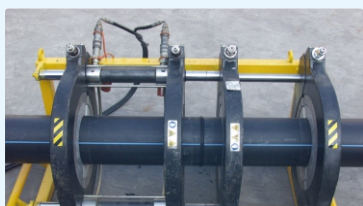
**② Asegurar y limpiar**

- Asegure la tubería en la plantilla, limpie las partes de la unión, lije los lados de la unión y luego ajuste las partes de la unión para que el desajuste sea menor al 10% del espesor de la pared.



**③ Calentar**

- Coloque el panel de calentamiento.



**④ Unir**

- Retirar el panel de calentamiento después de terminar de calentar, unir rápidamente las dos partes calentadas, aumentar la presión hasta alcanzar la presión de fusión y mantenerla hasta que se enfríe.



**⑤ Completar**

- La unión de fusión a tope está completada.

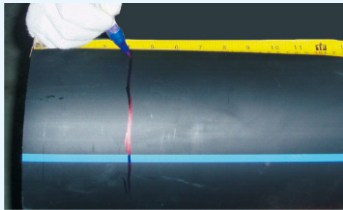
**Especificaciones de soldadura recomendadas, que debe ser seguido por los soldadores**

| Espesor de Pared (mm) | Altura del Rizo de Pre calentamiento (mm) (La temperatura de pre calentamiento es de 210±10°C) | Tiempo de Pre calentamiento (s) (La temperatura es de 210±10°C) | Tiempo Máximo de Tránsito Permitido (s) | Tiempo de Enfriamiento para la Costura Soldada bajo Estado de Presión Reservado (min) |
|-----------------------|--|---|---|---|
| 2.0 - 3.9             | 0.5  | 30 - 40   | 4                                       | 4 - 5   |
| 4.3 - 6.9             | 0.5  | 40 - 70   | 5                                       | 6 - 10  |
| 7.0 - 11.4            | 1.0  | 70 - 120  | 6                                       | 10 - 16   |
| 12.2 - 18.2           | 1.0  | 120 - 170   | 8                                       | 17 - 24   |
| 20.1 - 25.5           | 1.5  | 210 - 250   | 10                                      | 25 - 32   |
| 28.3 - 32.2           | 1.5  | 280 - 320   | 12                                      | 33 - 40   |

Aplicación de la Unión de Fusión a Tope en Sitios

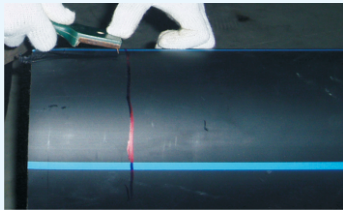


**(3) Paso para la Unión de Electro Fusión:** (Usar Soldadora por Electro Fusión)



**① Limpiar y marcar**

- Limpie la parte de la conexión, marque la profundidad de inserción.



**② Raspar**

- Raspar y pulir la superficie de la junta.



**③ Alinear y sujetar los accesorios a las tuberías**



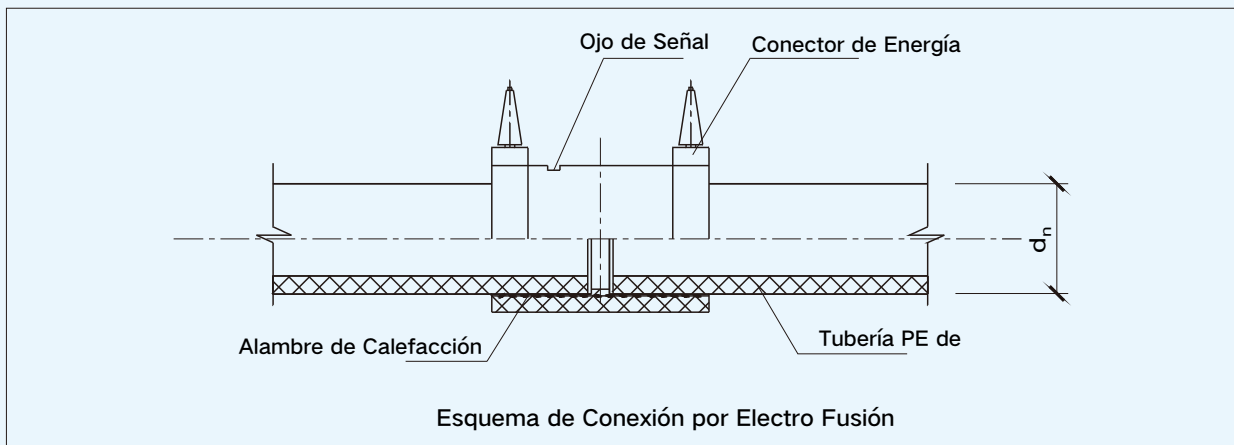
**④ Aplicar corriente eléctrica**

- Aplique la corriente eléctrica a los accesorios; Las partes unidas se calentarán y derretirán, apagar la corriente cuando haya material fundido fluyendo en el orificio de observación.



**⑤ Enfriar**

- Enfriar sin movimiento ni presión.

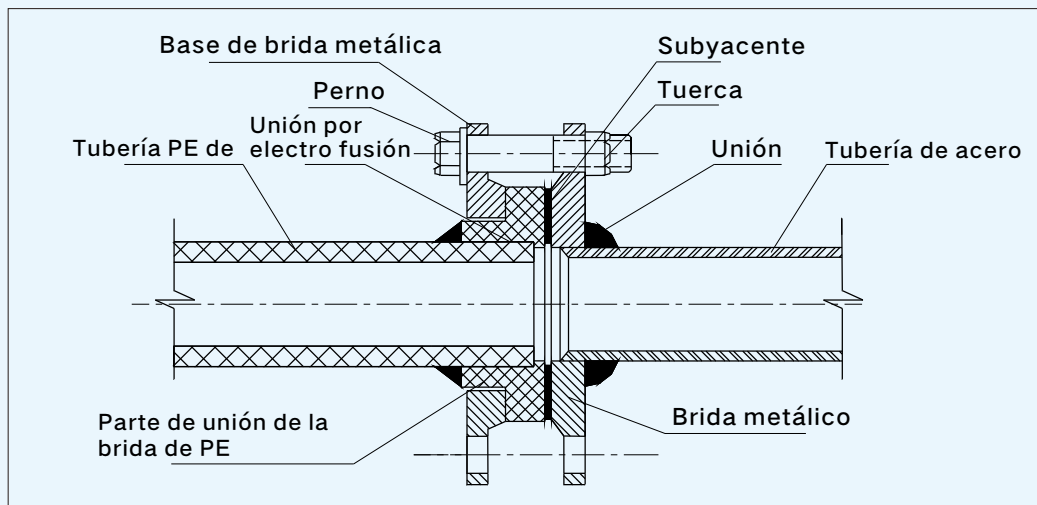


**Nota:** Al conectar, el voltaje y tiempo de calentamiento deben cumplir con las especificaciones técnicas del fabricante de la Soldadora por Electro Fusión.

**(4) Unión de Transición**

**Unir la tubería de PE y la tubería de hierro mediante Junta de Brida**

- ① Preparación
  - Preparar las herramientas y accesorios necesarios.      ■ Verificar y limpiar los accesorios.
- ② Colocar la tubería en la bandeja de la brida.
- ③ Usar junta de fusión por conector de encaje o unión de fusión a tope en la tubería y el extremo de la brida.
- ④ Colocar el anillo de goma entre los dos extremos de la brida, y luego apretar los tornillos.

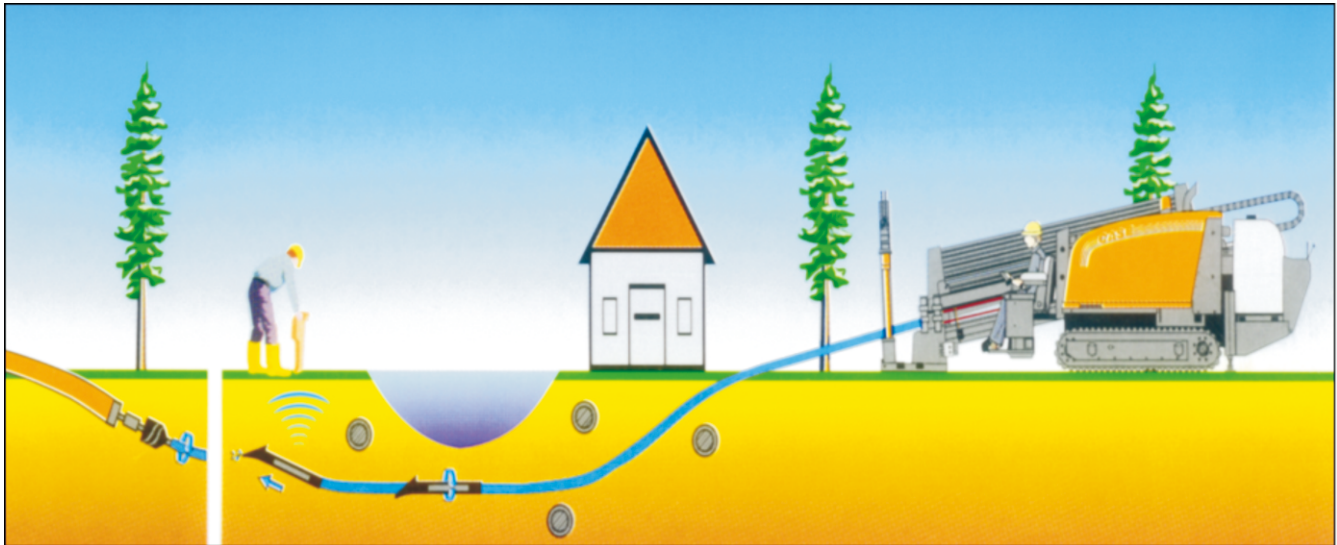


**Tecnología Sin Zanja**

La tecnología de detección, colocación, reparación y cambio de varios tipos de tuberías sin excavación o con mínima excavación.

**Tecnología de Perforación Direccional Horizontal**

La tecnología de instalación de perforación direccional, expansión y arrastre de tuberías a diferentes profundidades y en diferentes estratos utilizando equipos de perforación direccional y aparatos de ubicación.



Tuberías y Accesorios de PE\_BS EN 12201-2;2011, BS EN 12201-3;2011  
 Tuberías y Accesorios de PE\_ISO 4427-2;2007, ISO 4427-3;2007

**FACTORY APPROVAL CERTIFICATE**  
 Certificate No.: FA-IPC/SR/IPCA-22/006-01

Name of the factory: Guangdong Liansu Technology Industrial Co., Ltd.  
 Address of the factory: Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong, P. R. China

Type(s) of product manufactured: PE PIPES & FITTINGS FOR WATER SUPPLY  
 Applying standards: ISO 4427-2: 2007(Pipe), ISO 4427-3:2007(Fitting)

After examination of the following documents:  
 - Quality System Certificate n° (ISO9001:2015): 0070021Q53207R7L (Valid from 2021-07-30 to 2024-07-29)  
 - Factory Audit Report n° FR-IPC/SR/IPCA-22/006-01

The undersigned, inspector of Bureau Veritas, certifies that the above factory meets the applicable requirements of BV procedure GM-VPC for the production of the following types of pipes & fittings listed in Annex I to Certificate.

This certificate is valid from **Oct. 01<sup>st</sup>, 2022**  
 For a period of three years, ending **Sep. 30<sup>th</sup>, 2025**

This approval is only valid provided that every semi-annual audit (in annex) is done and found satisfactory by Bureau Veritas, and when no significant changes are made to the audited facility, its production rate and its quality system. These conditions will be assessed during semi-annual audits.

This approval is an integral and indissociable part of the voluntary certification process of pipes & fittings by Bureau Veritas as defined in BV procedure GM-VPC.

Made at: Shanghai  
 On: Oct. 01<sup>st</sup>, 2022

Name & signature: *Mingsheng Xu*  
 Mingsheng Xu  
 BV China INS Department Product Manager

Bureau Veritas Greater China, Industry and Facility Division  
 Address: 3F, No.1288, Wei Ma Road, Huangpu District, Shanghai, 200011, P. R. China  
 Tel: +86 21 2319 0001, 2319 0002, 2319 0003 Fax: +86 21 69861421

**ANNEX I TO CERTIFICATE** No. FA-IPC/SR/IPCA-22/006-01

- Name of the factory: Guangdong Liansu Technology Industrial Co., Ltd.
- Address of the factory: Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong, P. R. China
- Type of Product Manufactured: PE PIPES & FITTINGS FOR WATER SUPPLY
- Applying standards : ISO 4427-2: 2007(Pipe), ISO 4427-3:2007(Fitting)

Specification:  
 Pipes : ISO 4427-2: 2007  
 DN 20-2000,PN4-PN25,PE100 & PE80  
 Fittings: ISO 4427-3:2007, PE100 & PE80  
 Socket fusion fittings (DN 20-125)  
 Electro fusion fittings (DN 20-630)  
 Butt fusion fittings (DN 20-630)  
 Fabricated Fittings (DN 90-900)

• Satisfactory audit of the above mentioned factory and issuance of the references report as per the Factory Approval Certificate.

This certificate is valid for 3 years (until **Sep. 30<sup>th</sup>, 2025**), providing that the semi-annual surveillance visits made by the society are satisfactory. After that period it shall be renewed in accordance with the Bureau Veritas Rules.

| 1 <sup>st</sup> Year Period: |                       | 2 <sup>nd</sup> Year Period: |                       | 3 <sup>rd</sup> Year Period: |                       |
|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|
| 01/10/2022-31/03/2023        | 01/04/2023-30/09/2023 | 01/10/2023-31/03/2024        | 01/04/2024-30/09/2024 | 01/10/2024-31/03/2025        | 01/04/2025-30/09/2025 |
| Sign & Stamp:                | Sign & Stamp:         | Sign & Stamp:                | Sign & Stamp:         | Sign & Stamp:                | Sign & Stamp:         |

This inspection has been carried out within the scope of Bureau Veritas General Conditions; it does not release the seller from his contractual obligations towards the buyer.

Bureau Veritas Greater China, Industry and Facility Division  
 Address: 3F, No.1288, Wei Ma Road, Huangpu District, Shanghai, 200011, P. R. China  
 Tel: +86 21 2319 0001, 2319 0002, 2319 0003 Fax: +86 21 69861421

**FACTORY APPROVAL CERTIFICATE**  
 Certificate No.: FA-IPC/SR/IPCA-22/006-02

Name of the factory: Guangdong Liansu Technology Industrial Co., Ltd.  
 Address of the factory: Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong, P. R. China

Type(s) of product manufactured: PE PIPES & FITTINGS FOR WATER SUPPLY AND DRAINAGE /SEWERAGE UNDER PRESSURE  
 Applying standards: BS EN 12201-2: 2011(Pipe), BS EN 12201-3:2011(Fittings)

After examination of the following documents:  
 - Quality System Certificate n° (ISO9001:2015): 0070021Q53207R7L (Valid from 2021-07-30 to 2024-07-29)  
 - Factory Audit Report n° FR-IPC/SR/IPCA-22/006-02

The undersigned, inspector of Bureau Veritas, certifies that the above factory meets the applicable requirements of BV procedure GM-VPC for the production of the following types of pipes & fittings listed in Annex I to Certificate.

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 For a period of three years, ending **Sep. 30<sup>th</sup>, 2025**

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This approval is an integral and indissociable part of the voluntary certification process of pipes & fittings by Bureau Veritas as defined in BV procedure GM-VPC.

Made at: Shanghai  
 On: Oct. 01<sup>st</sup>, 2022

Name & signature: *Mingsheng Xu*  
 Mingsheng Xu  
 BV China INS Department Product Manager

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**ANNEX I TO CERTIFICATE** No. FA-IPC/SR/IPCA-22/006-02

- Name of the factory: Guangdong Liansu Technology Industrial Co., Ltd.
- Address of the factory: Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong, P. R. China
- Type of Product : PE PIPES & FITTINGS FOR WATER SUPPLY AND DRAINAGE / SEWERAGE UNDER PRESSURE
- Applying standards : BS EN 12201-2: 2011(Pipe), BS EN 12201-3:2011(Fittings)

Specification : Pipes : BS EN 12201-2: 2011  
 DN 20-2000,PN4-25,PE100  
 Fittings: BS EN 12201-3:2011,PE100 & PE80  
 Socket fusion fittings (DN 20-DN 125)  
 Electro fusion fittings (DN 20-DN 630)  
 Butt fusion fittings (DN 20-DN 630)  
 Fabricated Fittings (DN 90-DN 900)

• Satisfactory audit of the above mentioned factory and issuance of the references report as per the Factory Approval Certificate.

This certificate is valid for 3 years (until **Sep. 30<sup>th</sup>, 2025**), providing that the semi-annual surveillance visits made by the society are satisfactory. After that period it shall be renewed in accordance with the Bureau Veritas Rules.

| 1 <sup>st</sup> Year Period: |                       | 2 <sup>nd</sup> Year Period: |                       | 3 <sup>rd</sup> Year Period: |                       |
|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|
| 01/10/2022-31/03/2023        | 01/04/2023-30/09/2023 | 01/10/2023-31/03/2024        | 01/04/2024-30/09/2024 | 01/10/2024-31/03/2025        | 01/04/2025-30/09/2025 |
| Sign & Stamp:                | Sign & Stamp:         | Sign & Stamp:                | Sign & Stamp:         | Sign & Stamp:                | Sign & Stamp:         |

This inspection has been carried out within the scope of Bureau Veritas General Conditions; it does not release the seller from his contractual obligations towards the buyer.

Bureau Veritas Greater China, Industry and Facility Division  
 Address: 3F, No.1288, Wei Ma Road, Huangpu District, Shanghai, 200011, P. R. China  
 Tel: +86 21 2319 0001, 2319 0002, 2319 0003 Fax: +86 21 69861421

Tubería PE de Agua WRAS (Negro) (60°C)

Approval Number 2104518  
Test Report: MA71917/3

20<sup>th</sup> April 2021

Guangdong Liansu Technology Industrial Co. Ltd.  
Liansu Industrial Estate,  
Longgang Town,  
Shunde Zone,  
Foshan City,  
Guangdong,  
China



Water Regulations Advisory Scheme Ltd.  
Unit 13,  
Willow Road,  
Pen y Fan Industrial Estate,  
Crumlin,  
Gwent,  
NP11 4EG

**WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)  
MATERIAL APPROVAL**

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**POLYETHYLENE- COMPONENTS.** 5240

'LSPE-BK001'. Black coloured, extruded polyethylene pipe. For use with water up to 60°C.

**APPROVAL NUMBER: 2104518**  
**APPROVAL HOLDER: GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO. LTD.**

The Scheme reserves the right to review approval.  
Approval 2104518 is valid between April 2021 and April 2026

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, 'Materials which have passed full tests of effect on water quality'.

The Directory may be found at: [www.wrasapprovals.co.uk/approvals-directory/](http://www.wrasapprovals.co.uk/approvals-directory/)

Yours Faithfully



**Ian Hughes**  
WRAS Approvals Manager

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The Water Regulations Advisory Scheme Ltd. Registered in England No. 06662820 Registered office: 4D Llewke Close Hazel Grove Stockport SK7 9ED  
WRAS App 02481 ver 1.0 Tel: +44(0)333 307 9030 Fax: +44(0)1495 248 540 Email: info@wras.co.uk website: www.wras.co.uk Page 1 of 2

**WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY**

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that: 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

**Use of the WRAS Approved Material Logo**

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

**Modifications to existing Approvals**

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

**Re-Approval**

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.

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The Water Regulations Advisory Scheme Ltd. Registered in England No. 06662820 Registered office: 4D Llewke Close Hazel Grove Stockport SK7 9ED  
WRAS App 02481 ver 1.0 Tel: +44(0)333 307 9030 Fax: +44(0)1495 248 540 Email: info@wras.co.uk website: www.wras.co.uk Page 2 of 2

Accesorios para Tubería PE de Agua WRAS (Negro) (60°C)

Approval Number 2111500  
Test Report: MA71917/4

20<sup>th</sup> April 2021

Guangdong Liansu Technology Industrial Co. Ltd.  
Liansu Industrial Estate,  
Longgang Town,  
Shunde Zone,  
Foshan City,  
Guangdong,  
China



Water Regulations Advisory Scheme Ltd.  
Unit 13,  
Willow Road,  
Pen y Fan Industrial Estate,  
Crumlin,  
Gwent,  
NP11 4EG

**WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)  
CONSECUTIVE MATERIAL APPROVAL**

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**POLYETHYLENE- COMPONENTS.** 5240

'LSPE-BK001'. Black coloured, injection moulded polyethylene fitting. For use with water up to 60°C.

**APPROVAL NUMBER: 2111500**  
**APPROVAL HOLDER: GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO. LTD.**

This is a re-approval of 1810546 which is valid between October 2016 and October 2021.

The Scheme reserves the right to review approval.  
Approval 2111500 is valid between November 2021 and November 2026

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, 'Materials which have passed full tests of effect on water quality'.

The Directory may be found at: [www.wrasapprovals.co.uk/approvals-directory/](http://www.wrasapprovals.co.uk/approvals-directory/)

Yours Faithfully



**Ian Hughes**  
WRAS Approvals Manager

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The Water Regulations Advisory Scheme Ltd. Registered in England No. 06662820 Registered office: 4D Llewke Close Hazel Grove Stockport SK7 9ED  
WRAS App 02481 ver 1.0 Tel: +44(0)333 307 9030 Fax: +44(0)1495 248 540 Email: info@wras.co.uk website: www.wras.co.uk Page 1 of 2

**WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY**

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that: 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

**Use of the WRAS Approved Material Logo**

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

**Modifications to existing Approvals**

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

**Re-Approval**

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.

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The Water Regulations Advisory Scheme Ltd. Registered in England No. 06662820 Registered office: 4D Llewke Close Hazel Grove Stockport SK7 9ED  
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Accesorios para Tubería PE de Agua WRAS (Negro) (60°C)

Approval Number 2110500  
Test Report: MA7191/71

20<sup>th</sup> April 2021  
Guangdong Liansu Technology Industrial Co. Ltd.  
Liansu Industrial Estate,  
Longgang Town,  
Shunde Zone,  
Foshan City,  
Guangdong,  
China

**WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)  
CONSECUTIVE MATERIAL APPROVAL**

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**POLYETHYLENE COMPONENTS.** 5240

'LSPE-BE002 PE Pipe (Deep Blue)': Blue coloured, extruded polyethylene pipe. For use with water up to 60°C.

**APPROVAL NUMBER: 2110500**  
**APPROVAL HOLDER: GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO. LTD.**

This is a re-approval of 1609522 which is valid between September 2016 and September 2021.

The Scheme reserves the right to review approval.  
Approval 2110500 is valid between October 2021 and October 2026

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: [www.wrasapprovals.co.uk/approvals-directory/](http://www.wrasapprovals.co.uk/approvals-directory/)

Yours Faithfully



**Ian Hughes**  
WRAS Approvals Manager



Water Regulations Advisory Scheme Ltd.  
Unit 13,  
Willow Road,  
Pen y Fan Industrial Estate,  
Crumlin,  
Gwent,  
NP11 4EQ

The Water Regulations Advisory Scheme Ltd. Registered in England No. 06663007 Registered office: 4D Lowick Close Hazel Grove Stockport SK7 9ED  
WRAS Appr-2021 ver 1.0 Tel: +44(0)333 207 9030 Fax: +44(0)1493 248 540 Email: info@wras.co.uk website: www.wras.co.uk Page 1 of 2

**WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY**

The material referred to in this letter is suitable for contact with water for domestic purposes. Approval of this material does not signify the approval of its mechanical or physical properties for any use.

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that: 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

**Use of the WRAS Approved Material Logo**

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Approval holders are entitled to use the logo on the packaging, promotional literature and point of sale advertising Approved Materials.

**Modifications to existing Approvals**

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

**Re-Approval**

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.

The Water Regulations Advisory Scheme Ltd. Registered in England No. 06663007 Registered office: 4D Lowick Close Hazel Grove Stockport SK7 9ED  
WRAS Appr-2021 ver 1.0 Tel: +44(0)333 207 9030 Fax: +44(0)1493 248 540 Email: info@wras.co.uk website: www.wras.co.uk Page 2 of 2

Accesorios para Tubería PE de Agua WRAS (Azul Oscuro) (60°C)

Approval Number 2110501  
Test Report: MA7191/72

20<sup>th</sup> April 2021  
Guangdong Liansu Technology Industrial Co. Ltd.  
Liansu Industrial Estate,  
Longgang Town,  
Shunde Zone,  
Foshan City,  
Guangdong,  
China

**WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)  
CONSECUTIVE MATERIAL APPROVAL**

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**POLYETHYLENE COMPONENTS.** 5240

'LSPE-BE002 PE Fitting (Deep Blue)': Blue coloured, injection moulded polyethylene fitting. For use with water up to 60°C.

**APPROVAL NUMBER: 2110501**  
**APPROVAL HOLDER: GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO. LTD.**

This is a re-approval of 1609523 which is valid between September 2016 and September 2021.

The Scheme reserves the right to review approval.  
Approval 2110501 is valid between October 2021 and October 2026

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: [www.wrasapprovals.co.uk/approvals-directory/](http://www.wrasapprovals.co.uk/approvals-directory/)

Yours Faithfully



**Ian Hughes**  
WRAS Approvals Manager



Water Regulations Advisory Scheme Ltd.  
Unit 13,  
Willow Road,  
Pen y Fan Industrial Estate,  
Crumlin,  
Gwent,  
NP11 4EQ

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WRAS Appr-2021 ver 1.0 Tel: +44(0)333 207 9030 Fax: +44(0)1493 248 540 Email: info@wras.co.uk website: www.wras.co.uk Page 1 of 2

**WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY**

The material referred to in this letter is suitable for contact with water for domestic purposes. Approval of this material does not signify the approval of its mechanical or physical properties for any use.

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WRAS Appr-2021 ver 1.0 Tel: +44(0)333 207 9030 Fax: +44(0)1493 248 540 Email: info@wras.co.uk website: www.wras.co.uk Page 2 of 2

Licencia GOST para tubería PE de agua

Licencia GOST para accesorios de tubería PE de agua

**СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р**  
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

**СЕРТИФИКАТ СООТВЕТСТВИЯ**

№ РОСС СМ.НВ63.Н01922  
Срок действия с 26.04.2022 по 25.04.2025  
№ 0495629

**ОРГАН ПО СЕРТИФИКАЦИИ:** Общество с ограниченной ответственностью "НИЦ ТЕСТ", Место нахождения: 108801, город Москва, п. Коммунарка, ул. Поповская Роща, д. 12 к. 2, этаж/подв. № 4 офис 14, Телефон: +79034451952, Адрес электронной почты: olenkarovm@yandex.ru, Аттестат аккредитации регистрационный № RA.RU.11НВ63, Дата регистрации аттестата аккредитации: 15.01.2020 года

**ПРОДУКЦИЯ:** Фитинги для бытового водоснабжения. См. Приложение (Бланк № 0095029, № 0095030, № 0095031) Серийный выпуск код ОК 229000

**СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ**  
Нормативной документации изготовителя код ТН ВЭД 391721

**ИЗГОТОВИТЕЛЬ:** GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO., LTD  
Место нахождения: Lesso industrial estate, Longjiang town, Shunde District, Foshan City, Guangdong Province, China, 528318

**СЕРТИФИКАТ ВЫДАН:** GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO., LTD  
Место нахождения: Lesso industrial estate, Longjiang town, Shunde District, Foshan City, Guangdong Province, China, 528318

**НА ОСНОВАНИИ:** Протокол испытаний № 32311 ИЛО1.СС2566 от 25.04.2022 года. Испытательной лаборатории Общество с ограниченной ответственностью «АРТАЛИКС». Свидетельство об уполномочивании № ARTALIX.RU.32311.ИЛО1. Дата регистрации свидетельства: 05.10.2020 года

**ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ:** Схема сертификации: 3

Руководитель органа: С. О. Коваленко  
Эксперт: Р. Н. Прокофьев

Сертификат не применяется при обязательной сертификации

**СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р**  
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

**СЕРТИФИКАТ СООТВЕТСТВИЯ**

№ РОСС СМ.НВ63.Н01924  
Срок действия с 26.04.2022 по 25.04.2025  
№ 0495626

**ОРГАН ПО СЕРТИФИКАЦИИ:** Общество с ограниченной ответственностью "НИЦ ТЕСТ", Место нахождения: 108801, город Москва, п. Коммунарка, ул. Поповская Роща, д. 12 к. 2, этаж/подв. № 4 офис 14, Телефон: +79034451952, Адрес электронной почты: olenkarovm@yandex.ru, Аттестат аккредитации регистрационный № RA.RU.11НВ63, Дата регистрации аттестата аккредитации: 15.01.2020 года

**ПРОДУКЦИЯ:** Фитинги для бытового водоснабжения. См. Приложение (Бланк № 0094992, № 009493, № 009494, № 009495, № 009496, № 009497, № 009498, № 009499, № 009500, № 009501, № 009502, № 009503, № 009504, № 009505, № 009506, № 009507, № 009508, № 009509, № 009510, № 009511, № 009512, № 009513, № 009514, № 009515, № 009516, № 009517, № 009518, № 009519, № 009520, № 009521, № 009522, № 009523, № 009524, № 009525, № 009526) Серийный выпуск код ОК 229000

**СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ**  
Нормативной документации изготовителя код ТН ВЭД 39174000

**ИЗГОТОВИТЕЛЬ:** GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO., LTD  
Место нахождения: Lesso industrial estate, Longjiang town, Shunde District, Foshan City, Guangdong Province, China, 528318

**СЕРТИФИКАТ ВЫДАН:** GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO., LTD  
Место нахождения: Lesso industrial estate, Longjiang town, Shunde District, Foshan City, Guangdong Province, China, 528318

**НА ОСНОВАНИИ:** Протокол испытаний № 32311 ИЛО1.СС2570 от 25.04.2022 года. Испытательной лаборатории Общество с ограниченной ответственностью «АРТАЛИКС». Свидетельство об уполномочивании № ARTALIX.RU.32311.ИЛО1. Дата регистрации свидетельства: 05.10.2020 года

**ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ:** Схема сертификации: 3

Руководитель органа: С. О. Коваленко  
Эксперт: Р. Н. Прокофьев

Сертификат не применяется при обязательной сертификации

Certificación CE para tuberías y accesorios de agua de PE cumpliendo con EN 12201.

**Verification of Conformity**

No.: ICR Polska/VC/HM220522

**Name and address of Applicant:** Guangdong Liansu Technology Industrial Co., Ltd, Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong Province, China

**Name and address of manufacturer:** Guangdong Liansu Technology Industrial Co., Ltd, Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong Province, China

**Product name:** PE PIPE AND FITTINGS  
**Product types:** DN20-1600  
**Product trademarks:** n/a

This document confirms that the product sample meets the requirements of the following standards:  
ISO 4427-2:2019  
ISO 4427-3:2019  
EN 12201:2011

The assessment process has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:  
**Test reports:** TR22042101  
**Tests conducted by:** Kind Product Technical Service Co., Ltd.  
**Issue date:** 19.05.2022  
**Expiration date:** 18.05.2027

**Remarks:**  
This verification of conformity refers to the above mentioned product and its conformity in regards of above mentioned standard(s) was proven on test sample.  
This verification of conformity was issued on voluntary basis and does not imply meeting all essential requirements, assessment of the sub-production or any other restricted Notified Bodies conformity assessment procedure appropriate for the product.  
marking remarks: mark is not sanctioned by the following verification of conformity mark given as reference, can be only use by the manufacturer after applying all essential requirements from relevant directives

document status can be checked: <https://cert.icrpolska.com/>

ICR Polska Co. Ltd, Director: Rafal Kalinowski, Warsaw, 19.05.2022

# LESSO

## CHINA LESSO GROUP HOLDINGS LIMITED

(CÓDIGO BURSÁTIL: 2128.HK)

### GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO.,LTD.

Base de Producción:

LIANSU Industrial Estate, Longjiang Town, Shunde District, Foshan City,  
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