

**Conexões**  
**com cônico 45 (SAE)**  
*conexiones abocinado 45° / Flare 45*  
**e cônico 37° (JIC)°**  
*abocinado 37° / flare 37°*

**grupos 30**  
**e 31**



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## Cônico 45° s.a.e

Abocinado 45° s.a.e

Flare 45° s.a.e

### Porcas e uniões em latão extrudado (CLA-360).

Tuercas y uniones en latón extrudado (CLA-360).

Nuts and Unions of extruded brass (CLA-360).

### Cotovelos e tees em latão forjado.

Codos y tees em latón forjado (CLA-377).

Elbows and tees of forged brass (CLA-377).

### Conexões usadas em tubos com extremidades flangeadas.

**Aplicadas em motores, equipamentos móveis, compressores de ar, queimadores de óleo, locomotivas, refrigeração, ar condicionado, gás GLP, e indústria naval e onde há desmontagem periódica da tubulação.**

Conexiones usadas en tubos con extremidades flangeadas. Aplicada en motores, equipamientos móviles, compresores de aire, quemadores de aceite, locomotoras, refrigeración aire acondicionado, gas GNC y en la industria naval, donde hay un desarme periódico de tubulación.

These connectors are used in tubes with flanged ends. Also used in engines, equipment, air compressors, oil burners, locomotives, cooling systems, air conditioning LPG gas, naval industry and where there is scheduled dismantling of tubes.

**Vedação recomendada para tubos de cobre, latão, alumínio, Bundy e aço recozido, exigindo o flangeamento da extremidade do tubo para sua montagem.**

Vedación recomendada para tubos de cobre, latón, aluminio, Bundy y acero recozido, exigiendo el flangeamiento de la extremidad del tubo para su armado.

This sealing is recommended for tubes made of cooper, brass, aluminum, Bundy and steel, demanding that the tube end be flanged to be mounted.

**Pressão de trabalho: até 5.000 lbr/pol<sup>2</sup>**

Presión de trabajo: hasta 5.000 lbr/pol<sup>2</sup>

Working pressure: up to 5.000 psi.

## 3002

**Porca**  
Tuercas Nut



p/ tubo de p/ tubo de tube of	rosca rosca screw thread
1/8	5/16 x 24f
3/16	3/8 x 24f
1/4	7/16 x 20f
5/16	1/2 x 20f
3/8	5/8 x 18f
7/16	11/16 x 16f
1/2	3/4 x 16f
5/8	7/8 x 14f
3/4	11/16 x 14f

## 3003

**União SAE**  
Unión Union



tubo x tubo tubo x tubo tube x tube	tubo x tubo tubo x tubo tube x tube
1/8	7/16
3/16	1/2
1/4	5/8
5/16	3/4
3/8	

## 3004

**União Macho**  
Unión Macho  
Male Union



tubo x rosca tubo x rosca tube x thread	tubo x rosca tubo x rosca tube x thread
1/8 x 1/8	3/8 x 1/2
3/16 x 1/8	3/8 x 3/4
3/16 x 1/4	7/16 x 1/4
1/4 x 1/8	1/2 x 3/4
1/4 x 1/4	1/2 x 3/8
1/4 x 3/8	1/2 x 1/2
1/4 x 1/2	1/2 x 3/4
5/16 x 1/8	5/8 x 1/2
5/16 x 1/4	3/4 x 3/8
5/16 x 3/8	3/4 x 1/2
3/8 x 1/8	3/4 x 3/4
3/8 x 1/4	5/8 x 3/4
3/8 x 3/8	

**3005** **União Fêmea**  
Unión Hembra  
Female Union



tubo x rosca tubo x rosca tube x thread NPT
3/16 x 1/8
1/4 x 1/8
1/4 x 1/4
5/16 x 1/8
5/16 x 1/4
3/8 x 1/4
3/8 x 3/8
3/8 x 1/2
1/2 x 3/8
1/2 x 1/2
1/2 x 1/4
1/2 x 3/4

**3006** **Cotovelo União**  
Codo Unión  
Union Elbow




tubo x tubo tubo x tubo tube x tube	tubo x tubo tubo x tubo tube x tube
1/8	3/8
3/16	1/2
1/4	5/8
5/16	3/4

**3007** **Cotovelo Macho**  
Codo Macho  
Male Elbow



tubo x rosca tubo x rosca tube x thread NPT	tubo x rosca tubo x rosca tube x thread NPT
1/8 x 1/8	1/2 x 1/4
3/16 x 1/8	1/2 x 3/8
1/4 x 1/8	1/2 x 1/2
1/4 x 1/4	5/8 x 1/2
5/16 x 1/8	1/4 x 3/8
5/16 x 1/4	1/2 x 1/4
3/8 x 1/8	1/2 x 3/4
3/8 x 1/4	5/8 x 3/8
3/8 x 3/8	5/8 x 3/4
3/8 x 1/2	

**3008** **Cotovelo Fêmea**  
Codo Femea  
Female Elbow



tubo x rosca tubo x rosca tube x thread NPT	tubo x rosca tubo x rosca tube x thread NPT
1/4 x 1/8	5/16 x 1/8
1/4 x 3/8	3/8 x 1/4

**3009** **Tee União**  
Tee Unión  
Union Tee




tubo x tubo x tubo tubo x tubo x tubo tube x tube x tube
1/8
3/16
1/4
5/16
3/8
1/2
3/4

**3010** **Tee Macho Central**  
Tee Macho al Centro  
Branch Male Tee



tubo x rosca tubo x rosca tube x thread NPT	tubo x rosca tubo x rosca tube x thread NPT
1/8 x 1/8	5/16 x 1/4
3/16 x 1/8	3/8 x 1/4
1/4 x 1/8	3/8 x 3/8
1/4 x 1/4	1/2 x 3/8
5/16 x 1/8	1/2 x 1/2

**3011** **Tee Macho lateral**  
Tee Macho Lateral  
Run Male Tee



tubo x rosca tubo x rosca tube x thread NPT	tubo x rosca tubo x rosca tube x thread NPT
1/4 x 1/8	1/4 x 1/8
1/4 x 1/4	1/4 x 1/4
5/16 x 1/8	5/16 x 1/8
5/16 x 1/4	5/16 x 1/4
3/8 x 1/8	3/8 x 1/8
3/8 x 1/4	3/8 x 1/4
5/8 x 1/2	

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**3102** **Porca**  
**Curta JIC**  
Porca Curta JIC  
Porca Curta JIC



<i>p/tubo de</i> <i>p/tubo de</i> <i>tube of</i>	<i>rosca</i> <i>rosca</i> <i>screw thread</i>
1/4	7/16 x 20f
3/8	9/16 x 18f
1/2	3/4 x 16f
3/4	1 1/16 x 14f

**3103** **União JIC**  
União JIC  
União JIC



<i>tubo x tubo</i> <i>tubo x tubo</i> <i>tube x tube</i>
1/4
3/8
1/2
3/4

**3104** **União Macho JIC**  
União Macho JIC  
União Macho JIC



<i>tubo x rosca</i> <i>tubo x rosca</i> <i>tube x thread</i>	<i>tubo x rosca</i> <i>tubo x rosca</i> <i>tube x thread</i>
1/4 x 1/8	3/8 x 3/4
1/4 x 1/4	1/2 x 1/4
1/4 x 3/8	1/2 x 3/8
1/4 x 1/2	1/2 x 1/2
3/8 x 1/8	1/2 x 3/4
3/8 x 1/4	3/4 x 3/8
3/8 x 3/8	3/4 x 1/2
3/8 x 1/2	3/4 x 3/4

**3105** **União Fêmea JIC**  
União Fêmea JIC  
Female Union JIC



<i>tubo x rosca</i> <i>tubo x rosca</i> <i>tube x thread</i>	<i>tubo x rosca</i> <i>tubo x rosca</i> <i>tube x thread</i>
1/4 x 1/8	3/8 x 1/2
1/4 x 1/4	1/2 x 3/8
3/8 x 1/4	1/2 x 1/2
3/8 x 3/8	

**3107** **Cotovelo Macho JIC**  
Cotovo Macho JIC  
Male Elbow JIC



<i>tubo x rosca</i> <i>tubo x rosca</i> <i>tube x thread</i>
1/4 x 1/8
1/4 x 1/4
3/8 x 1/4
3/8 x 3/8
3/8 x 1/2
1/2 x 1/4
1/2 x 3/8
1/2 x 1/2
3/4 x 1/2
3/4 x 3/4