

## Conexões: 10100 - Aço Carbono

A vedação do sistema é assegurada pela penetração auto-controlada de um anel de alta dureza na parte externa do tubo.

Esta operação de cravamento se processa automaticamente durante a montagem da conexão, quando a porca empurra o anel, forçando-o a cravar na superfície externa do tubo. Quando se processa o aperto da conexão, o anel sendo de alta dureza e de grande elasticidade penetra através de suas aresta cortantes na superfície externa do tubo, onde ele é cravado formando dois sulcos passando a fazer parte integrante do tubo. Isto feito, sua concavidade se acentuará a medida que se finaliza o aperto causando uma tensão permanente, evitando assim que sob o efeito das vibrações, dilatações e contrações, a conexão se desaperte e reduza suas características de segurança.

A parte lisa do anel tem como finalidade guiar e manter firmemente o tubo para evitar quaisquer movimentos oscilatórios ou vibrações que prejudiquem a eficiência e segurança de vedação.

A mesma parte lisa tem também como finalidade limitar a profundidade de penetração do anel na parede do tubo e reforçar a espessura da parede do mesmo, garantindo assim uma segurança inigualável.

**Pressão de trabalho para conexões de aço montadas com tubo de aço treilado sem costura:**

**DIÂMETRO EXTERNO DO TUBO**

04MM a 10MM - 0 a 600 KG/CM<sup>2</sup>

12MM a 16MM - 0 a 450 KG/CM<sup>2</sup>

18MM a 25MM - 0 a 380 KG/CM<sup>2</sup>

28MM a 32MM - 0 a 290 KG/CM<sup>2</sup>

35MM a 42MM - 0 a 210 KG/CM<sup>2</sup>

As conexões atendem a norma DIN 2353.

Tratamento superficial: Zincado Branco ou Fosfatizado Preto.

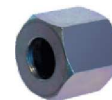
**ADVERTÊNCIA**

Especificação indevida, ou uso indevido do produtos pertencentes a esta linha podem causar morte, danos pessoais e/ou danos materiais.



**Anel – AZ 10101**

Código	Medidas
AZ 10101-04MM	TUBO 4MM
AZ 10101-05MM	TUBO 5MM
AZ 10101-06,4MM	TUBO 6,4MM
AZ 10101-06MM	TUBO 6MM
AZ 10101-08MM	TUBO 8MM
AZ 10101-09,5MM	TUBO 9,5MM
AZ 10101-10MM	TUBO 10MM
AZ 10101-12,7MM	TUBO 12,7MM
AZ 10101-12MM	TUBO 12MM
AZ 10101-14MM	TUBO 14MM
AZ 10101-15MM	TUBO 15MM
AZ 10101-16MM	TUBO 16MM
AZ 10101-18MM	TUBO 18MM
AZ 10101-19MM	TUBO 19MM
AZ 10101-20MM	TUBO 20MM
AZ 10101-22MM	TUBO 22MM
AZ 10101-25,4MM	TUBO 25,4MM
AZ 10101-25MM	TUBO 25MM
AZ 10101-28MM	TUBO 28MM
AZ 10101-30MM	TUBO 30MM
AZ 10101-32MM	TUBO 32MM
AZ 10101-35MM	TUBO 35MM
AZ 10101-38MM	TUBO 38MM
AZ 10101-42MM	TUBO 42MM



**Porca – AZ 10102**

Código	Medidas
AZ 10102-04MM	TUBO 4MM
AZ 10102-05MM	TUBO 5MM
AZ 10102-06,4MM	TUBO 6,4MM
AZ 10102-06MM	TUBO 6MM
AZ 10102-08MM	TUBO 8MM
AZ 10102-09,5MM	TUBO 9,5MM
AZ 10102-10MM	TUBO 10MM
AZ 10102-12,7MM	TUBO 12,7MM
AZ 10102-12MM	TUBO 12MM
AZ 10102-14MM	TUBO 14MM
AZ 10102-15MM	TUBO 15MM
AZ 10102-16MM	TUBO 16MM
AZ 10102-18MM	TUBO 18MM
AZ 10102-19MM	TUBO 19MM
AZ 10102-20MM	TUBO 20MM
AZ 10102-22MM	TUBO 22MM
AZ 10102-25,4MM	TUBO 25,4MM
AZ 10102-25MM	TUBO 25MM
AZ 10102-28MM	TUBO 28MM
AZ 10102-30MM	TUBO 30MM
AZ 10102-32MM	TUBO 32MM
AZ 10102-35MM	TUBO 35MM
AZ 10102-38MM	TUBO 38MM
AZ 10102-42MM	TUBO 42MM



### União Macho Cônica – AZ 10103

Código	Medidas
AZ 10103-04MM-02	TUBO 4MM - 1/8 NPT
AZ 10103-04MM-04	TUBO 4MM - 1/4 NPT
AZ 10103-05MM-02	TUBO 5MM - 1/8 NPT
AZ 10103-05MM-04	TUBO 5MM - 1/4 NPT
AZ 10103-06,4MM-08	TUBO 6,4MM - 1/2 NPT
AZ 10103-06,4MM-06	TUBO 6,4MM - 3/8 NPT
AZ 10103-06,4MM-04	TUBO 6,4MM - 1/4 NPT
AZ 10103-06,4MM-02	TUBO 6,4MM - 1/8 NPT
AZ 10103-06MM-08	TUBO 6MM - 1/2 NPT
AZ 10103-06MM-06	TUBO 6MM - 3/8 NPT
AZ 10103-06MM-04	TUBO 6MM - 1/4 NPT
AZ 10103-06MM-02	TUBO 6MM - 1/8 NPT
AZ 10103-08MM-06	TUBO 8MM - 3/8 NPT
AZ 10103-08MM-04	TUBO 8MM - 1/4 NPT
AZ 10103-08MM-02	TUBO 8MM - 1/8 NPT
AZ 10103-09,5MM-02	TUBO 9,5MM - 1/8 NPT
AZ 10103-09,5MM-04	TUBO 9,5MM - 1/4 NPT
AZ 10103-09,5MM-06	TUBO 9,5MM - 3/8 NPT
AZ 10103-09,5MM-08	TUBO 9,5MM - 1/2 NPT
AZ 10103-10MM-08	TUBO 10MM - 1/2 NPT
AZ 10103-10MM-06	TUBO 10MM - 3/8 NPT
AZ 10103-10MM-04	TUBO 10MM - 1/4 NPT
AZ 10103-10MM-02	TUBO 10MM - 1/8 NPT
AZ 10103-12,7MM-12	TUBO 12,7MM - 3/4 NPT
AZ 10103-12,7MM-04	TUBO 12,7MM - 1/4 NPT
AZ 10103-12,7MM-06	TUBO 12,7MM - 3/8 NPT
AZ 10103-12,7MM-08	TUBO 12,7MM - 1/2 NPT
AZ 10103-12MM-08	TUBO 12MM - 1/2 NPT
AZ 10103-12MM-04	TUBO 12MM - 1/4 NPT
AZ 10103-12MM-06	TUBO 12MM - 3/8 NPT
AZ 10103-12MM-12	TUBO 12MM - 3/4 NPT
AZ 10103-14MM-08	TUBO 14MM - 1/2 NPT
AZ 10103-14MM-06	TUBO 14MM - 3/8 NPT
AZ 10103-14MM-04	TUBO 14MM - 1/4 NPT
AZ 10103-15MM-08	TUBO 15MM - 1/2 NPT
AZ 10103-15MM-12	TUBO 15MM - 3/4 NPT
AZ 10103-16MM-06	TUBO 16MM - 3/8 NPT
AZ 10103-16MM-08	TUBO 16MM - 1/2 NPT
AZ 10103-16MM-12	TUBO 16MM - 3/4 NPT
AZ 10103-18MM-12	TUBO 18MM - 3/4 NPT
AZ 10103-18MM-08	TUBO 18MM - 1/2 NPT
AZ 10103-18MM-06	TUBO 18MM - 3/8 NPT
AZ 10103-19MM-06	TUBO 19MM - 3/8 NPT
AZ 10103-19MM-08	TUBO 19MM - 1/2 NPT
AZ 10103-19MM-12	TUBO 19MM - 3/4 NPT
AZ 10103-20MM-08	TUBO 20MM - 1/2 NPT
AZ 10103-20MM-12	TUBO 20MM - 3/4 NPT
AZ 10103-22MM-16	TUBO 22MM - 1 NPT
AZ 10103-22MM-12	TUBO 22MM - 3/4 NPT
AZ 10103-22MM-08	TUBO 22MM - 1/2 NPT
AZ 10103-25,4MM-12	TUBO 25,4MM - 3/4 NPT
AZ 10103-25,4MM-16	TUBO 25,4MM - 1" NPT
AZ 10103-25MM-12	TUBO 25MM - 3/4 NPT
AZ 10103-25MM-16	TUBO 25MM - 1" NPT
AZ 10103-28MM-12	TUBO 28MM - 3/4 NPT
AZ 10103-28MM-16	TUBO 28MM - 1" NPT
AZ 10103-30MM-20	TUBO 30MM - 1"1/4 NPT
AZ 10103-30MM-16	TUBO 30MM - 1" NPT
AZ 10103-32MM-16	TUBO 32MM - 1" NPT
AZ 10103-32MM-20	TUBO 32MM - 1"1/4 NPT
AZ 10103-35MM-16	TUBO 35MM - 1" NPT
AZ 10103-35MM-20	TUBO 35MM - 1"1/4 NPT
AZ 10103-38MM-20	TUBO 38MM - 1"1/4 NPT
AZ 10103-38MM-24	TUBO 38MM - 1"1/2 NPT
AZ 10103-42MM-20	TUBO 42MM - 1"1/4 NPT
AZ 10103-42MM-24	TUBO 42MM - 1"1/2 NPT

*Também disponível com roscas (BSPT).*



### União Macho Paralela – AZ 10103B

Código	Medidas
AZ 10103B-04MM-02	TUBO 4MM - 1/8 BSP
AZ 10103B-04MM-04	TUBO 4MM - 1/4 BSP
AZ 10103B-05MM-02	TUBO 5MM - 1/8 BSP
AZ 10103B-05MM-04	TUBO 5MM - 1/4 BSP
AZ 10103B-06,4MM-08	TUBO 6,4MM - 1/2 BSP
AZ 10103B-06,4MM-06	TUBO 6,4MM - 3/8 BSP
AZ 10103B-06,4MM-04	TUBO 6,4MM - 1/4 BSP
AZ 10103B-06,4MM-02	TUBO 6,4MM - 1/8 BSP
AZ 10103B-06MM-08	TUBO 6MM - 1/2 BSP
AZ 10103B-06MM-06	TUBO 6MM - 3/8 BSP
AZ 10103B-06MM-04	TUBO 6MM - 1/4 BSP
AZ 10103B-06MM-02	TUBO 6MM - 1/8 BSP
AZ 10103B-08MM-06	TUBO 8MM - 3/8 BSP
AZ 10103B-08MM-04	TUBO 8MM - 1/4 BSP
AZ 10103B-08MM-02	TUBO 8MM - 1/8 BSP
AZ 10103B-09,5MM-02	TUBO 9,5MM - 1/8 BSP
AZ 10103B-09,5MM-04	TUBO 9,5MM - 1/4 BSP
AZ 10103B-09,5MM-06	TUBO 9,5MM - 3/8 BSP
AZ 10103B-09,5MM-08	TUBO 9,5MM - 1/2 BSP
AZ 10103B-10MM-08	TUBO 10MM - 1/2 BSP
AZ 10103B-10MM-06	TUBO 10MM - 3/8 BSP
AZ 10103B-10MM-04	TUBO 10MM - 1/4 BSP
AZ 10103B-10MM-02	TUBO 10MM - 1/8 BSP
AZ 10103B-12,7MM-12	TUBO 12,7MM - 3/4 BSP
AZ 10103B-12,7MM-04	TUBO 12,7MM - 1/4 BSP
AZ 10103B-12,7MM-06	TUBO 12,7MM - 3/8 BSP
AZ 10103B-12,7MM-08	TUBO 12,7MM - 1/2 BSP
AZ 10103B-12MM-08	TUBO 12MM - 1/2 BSP
AZ 10103B-12MM-04	TUBO 12MM - 1/4 BSP
AZ 10103B-12MM-06	TUBO 12MM - 3/8 BSP
AZ 10103B-12MM-12	TUBO 12MM - 3/4 BSP
AZ 10103B-14MM-08	TUBO 14MM - 1/2 BSP
AZ 10103B-14MM-06	TUBO 14MM - 3/8 BSP
AZ 10103B-14MM-04	TUBO 14MM - 1/4 BSP
AZ 10103B-15MM-08	TUBO 15MM - 1/2 BSP
AZ 10103B-15MM-12	TUBO 15MM - 3/4 BSP
AZ 10103B-16MM-06	TUBO 16MM - 3/8 BSP
AZ 10103B-16MM-08	TUBO 16MM - 1/2 BSP
AZ 10103B-16MM-12	TUBO 16MM - 3/4 BSP
AZ 10103B-18MM-12	TUBO 18MM - 3/4 BSP
AZ 10103B-18MM-08	TUBO 18MM - 1/2 BSP
AZ 10103B-18MM-06	TUBO 18MM - 3/8 BSP
AZ 10103B-19MM-06	TUBO 19MM - 3/8 BSP
AZ 10103B-19MM-08	TUBO 19MM - 1/2 BSP
AZ 10103B-19MM-12	TUBO 19MM - 3/4 BSP
AZ 10103B-20MM-08	TUBO 20MM - 1/2 BSP
AZ 10103B-20MM-12	TUBO 20MM - 3/4 BSP
AZ 10103B-22MM-16	TUBO 22MM - 1" BSP
AZ 10103B-22MM-12	TUBO 22MM - 3/4 BSP
AZ 10103B-22MM-08	TUBO 22MM - 1"1/2 BSP
AZ 10103B-25,4MM-12	TUBO 25,4MM - 3/4 BSP
AZ 10103B-25,4MM-16	TUBO 25,4MM - 1" BSP
AZ 10103B-25MM-12	TUBO 25MM - 3/4 BSP
AZ 10103B-25MM-16	TUBO 25MM - 1" BSP
AZ 10103B-28MM-12	TUBO 28MM - 3/4 BSP
AZ 10103B-28MM-16	TUBO 28MM - 1" BSP
AZ 10103B-30MM-20	TUBO 30MM - 1"1/4 BSP
AZ 10103B-30MM-16	TUBO 30MM - 1" BSP
AZ 10103B-32MM-16	TUBO 32MM - 1" BSP
AZ 10103B-32MM-20	TUBO 32MM - 1"1/4 BSP
AZ 10103B-35MM-16	TUBO 35MM - 1" BSP
AZ 10103B-35MM-20	TUBO 35MM - 1"1/4 BSP
AZ 10103B-38MM-20	TUBO 38MM - 1"1/4 BSP
AZ 10103B-38MM-24	TUBO 38MM - 1"1/2 BSP
AZ 10103B-42MM-20	TUBO 42MM - 1"1/4 BSP
AZ 10103B-42MM-24	TUBO 42MM - 1"1/2 BSP

*Também disponível com roscas (Métrica e UNF).*

## Conexões: 10100 - Aço Carbono



**União Macho C/O'ring - AZ 10103(O)**

Código	Medidas
AZ 10103(O)-08MM-04	TUBO 8MM - 1/4 BSP
AZ 10103(O)-10MM-04	TUBO 10MM - 1/4 BSP
AZ 10103(O)-10MM-06	TUBO 10MM - 3/8 BSP
AZ 10103(O)-12MM-06	TUBO 12MM - 3/8 BSP
AZ 10103(O)-16MM-08	TUBO 16MM - 1/2 BSP
AZ 10103(O)-20MM-12	TUBO 20MM - 3/4 BSP
AZ 10103(O)-25MM-16	TUBO 25MM - 1" BSP
AZ 10103(O)-30MM-20	TUBO 30MM - 1"1/4 BSP
AZ 10103(O)-35MM-20	TUBO 35MM - 1"1/4 BSP
AZ 10103(O)-38MM-24	TUBO 38MM - 1"1/2 BSP

*Também Disponível com rosca Métrica e UNF.*



**União Dupla - AZ 10104**

Código	Medidas
AZ 10104-04MM	TUBO 4MM
AZ 10104-05MM	TUBO 5MM
AZ 10104-06,4MM	TUBO 6,4MM
AZ 10104-06MM	TUBO 6MM
AZ 10104-08MM	TUBO 8MM
AZ 10104-09,5MM	TUBO 9,5MM
AZ 10104-10MM	TUBO 10MM
AZ 10104-12,7MM	TUBO 12,7MM
AZ 10104-12MM	TUBO 12MM
AZ 10104-14MM	TUBO 14MM
AZ 10104-15MM	TUBO 15MM
AZ 10104-16MM	TUBO 16MM
AZ 10104-18MM	TUBO 18MM
AZ 10104-19MM	TUBO 19MM
AZ 10104-20MM	TUBO 20MM
AZ 10104-22MM	TUBO 22MM
AZ 10104-25,4MM	TUBO 25,4MM
AZ 10104-25MM	TUBO 25MM
AZ 10104-28MM	TUBO 28MM
AZ 10104-30MM	TUBO 30MM
AZ 10104-32MM	TUBO 32MM
AZ 10104-35MM	TUBO 35MM
AZ 10104-38MM	TUBO 38MM
AZ 10104-42MM	TUBO 42MM



**União Fêmea - AZ 10105**

Código	Medidas	Código	Medidas
AZ 10105-04MM-02	TUBO 4MM - 1/8 NPT	AZ 10105-15MM-08	TUBO 15MM - 1/2 NPT
AZ 10105-04MM-04	TUBO 4MM - 1/4 NPT	AZ 10105-16MM-06	TUBO 16MM - 3/8 NPT
AZ 10105-05MM-02	TUBO 5MM - 1/8 NPT	AZ 10105-16MM-08	TUBO 16MM - 1/2 NPT
AZ 10105-05MM-04	TUBO 5MM - 1/4 NPT	AZ 10105-16MM-12	TUBO 16MM - 3/4 NPT
AZ 10105-06,4MM-06	TUBO 6,4MM - 3/8 NPT	AZ 10105-18MM-06	TUBO 18MM - 3/8 NPT
AZ 10105-06,4MM-04	TUBO 6,4MM - 1/4 NPT	AZ 10105-18MM-08	TUBO 18MM - 1/2 NPT
AZ 10105-06,4MM-02	TUBO 6,4MM - 1/8 NPT	AZ 10105-18MM-12	TUBO 18MM - 3/4 NPT
AZ 10105-06MM-08	TUBO 6MM - 1/2 NPT	AZ 10105-19MM-12	TUBO 19MM - 3/4 NPT
AZ 10105-06MM-06	TUBO 6MM - 3/8 NPT	AZ 10105-19MM-08	TUBO 19MM - 1/2 NPT
AZ 10105-06MM-04	TUBO 6MM - 1/4 NPT	AZ 10105-19MM-06	TUBO 19MM - 3/8 NPT
AZ 10105-06MM-02	TUBO 6MM - 1/8 NPT	AZ 10105-20MM-08	TUBO 20MM - 1/2 NPT
AZ 10105-08MM-02	TUBO 8MM - 1/8 NPT	AZ 10105-20MM-12	TUBO 20MM - 3/4 NPT
AZ 10105-08MM-04	TUBO 8MM - 1/4 NPT	AZ 10105-22MM-12	TUBO 22MM - 3/4 NPT
AZ 10105-08MM-06	TUBO 8MM - 3/8 NPT	AZ 10105-22MM-16	TUBO 22MM - 1" NPT
AZ 10105-09,5MM-06	TUBO 9,5MM - 3/8 NPT	AZ 10105-25,4MM-16	TUBO 25,4MM - 1" NPT
AZ 10105-09,5MM-04	TUBO 9,5MM - 1/4 NPT	AZ 10105-25,4MM-12	TUBO 25,4MM - 3/4 NPT
AZ 10105-09,5MM-02	TUBO 9,5MM - 1/8 NPT	AZ 10105-25MM-16	TUBO 25MM - 1" NPT
AZ 10105-10MM-02	TUBO 10MM - 1/8 NPT	AZ 10105-25MM-12	TUBO 25MM - 3/4 NPT
AZ 10105-10MM-04	TUBO 10MM - 1/4 NPT	AZ 10105-28MM-12	TUBO 28MM - 3/4 NPT
AZ 10105-10MM-06	TUBO 10MM - 3/8 NPT	AZ 10105-28MM-16	TUBO 28MM - 1" NPT
AZ 10105-12,7MM-12	TUBO 12,7MM - 3/4 NPT	AZ 10105-28MM-20	TUBO 28MM - 1"1/4 NPT
AZ 10105-12,7MM-08	TUBO 12,7MM - 1/2 NPT	AZ 10105-30MM-16	TUBO 30MM - 1" NPT
AZ 10105-12,7MM-06	TUBO 12,7MM - 3/8 NPT	AZ 10105-30MM-20	TUBO 30MM - 1"1/4 NPT
AZ 10105-12,7MM-04	TUBO 12,7MM - 1/4 NPT	AZ 10105-32MM-20	TUBO 32MM - 1"1/4 NPT
AZ 10105-12MM-12	TUBO 12MM - 3/4 NPT	AZ 10105-32MM-16	TUBO 32MM - 1" NPT
AZ 10105-12MM-08	TUBO 12MM - 1/2 NPT	AZ 10105-35MM-16	TUBO 35MM - 1" NPT
AZ 10105-12MM-06	TUBO 12MM - 3/8 NPT	AZ 10105-35MM-20	TUBO 35MM - 1"1/4 NPT
AZ 10105-12MM-04	TUBO 12MM - 1/4 NPT	AZ 10105-38MM-20	TUBO 38MM - 1"1/4 NPT
AZ 10105-14MM-04	TUBO 14MM - 1/4 NPT	AZ 10105-38MM-24	TUBO 38MM - 1"1/2 NPT
AZ 10105-14MM-06	TUBO 14MM - 3/8 NPT	AZ 10105-42MM-20	TUBO 42MM - 1"1/4 NPT
AZ 10105-14MM-08	TUBO 14MM - 1/2 NPT	AZ 10105-42MM-24	TUBO 42MM - 1"1/2 NPT
AZ 10105-15MM-12	TUBO 15MM - 3/4 NPT		

*Também disponível com roscas BSP, Métrica e UNF.*



### Joelho Macho 90° – AZ 10106

Código	Medidas	Código	Medidas
AZ 10106-04MM-02	TUBO 4MM - 1/8 NPT	AZ 10106-16MM-08	TUBO 16MM - 1/2 NPT
AZ 10106-04MM-04	TUBO 4MM - 1/4 NPT	AZ 10106-16MM-12	TUBO 16MM - 3/4 NPT
AZ 10106-05MM-02	TUBO 5MM - 1/8 NPT	AZ 10106-18MM-06	TUBO 18MM - 3/8 NPT
AZ 10106-05MM-04	TUBO 5MM - 1/4 NPT	AZ 10106-18MM-08	TUBO 18MM - 1/2 NPT
AZ 10106-06,4MM-06	TUBO 6,4MM - 3/8 NPT	AZ 10106-18MM-12	TUBO 18MM - 3/4 NPT
AZ 10106-06,4MM-04	TUBO 6,4MM - 1/4 NPT	AZ 10106-19MM-12	TUBO 19MM - 3/4 NPT
AZ 10106-06,4MM-02	TUBO 6,4MM - 1/8 NPT	AZ 10106-19MM-08	TUBO 19MM - 1/2 NPT
AZ 10106-06MM-04	TUBO 6MM - 1/4 NPT	AZ 10106-19MM-06	TUBO 19MM - 3/8 NPT
AZ 10106-06MM-02	TUBO 6MM - 1/8 NPT	AZ 10106-20MM-08	TUBO 20MM - 1/2 NPT
AZ 10106-08MM-04	TUBO 8MM - 1/4 NPT	AZ 10106-20MM-12	TUBO 20MM - 3/4 NPT
AZ 10106-08MM-06	TUBO 8MM - 3/8 NPT	AZ 10106-22MM-12	TUBO 22MM - 3/4 NPT
AZ 10106-09,5MM-06	TUBO 9,5MM - 3/8 NPT	AZ 10106-22MM-16	TUBO 22MM - 1" NPT
AZ 10106-09,5MM-04	TUBO 9,5MM - 1/4 NPT	AZ 10106-25,4MM-16	TUBO 25,4MM - 1" NPT
AZ 10106-10MM-04	TUBO 10MM - 1/4 NPT	AZ 10106-25,4MM-12	TUBO 25,4MM - 3/4 NPT
AZ 10106-10MM-06	TUBO 10MM - 3/8 NPT	AZ 10106-25MM-16	TUBO 25MM - 1" NPT
AZ 10106-12,7MM-12	TUBO 12,7MM - 3/4 NPT	AZ 10106-25MM-12	TUBO 25MM - 3/4 NPT
AZ 10106-12,7MM-08	TUBO 12,7MM - 1/2 NPT	AZ 10106-28MM-12	TUBO 28MM - 3/4 NPT
AZ 10106-12,7MM-06	TUBO 12,7MM - 3/8 NPT	AZ 10106-28MM-16	TUBO 28MM - 1" NPT
AZ 10106-12,7MM-04	TUBO 12,7MM - 1/4 NPT	AZ 10106-28MM-20	TUBO 28MM - 1"1/4 NPT
AZ 10106-12MM-12	TUBO 12MM - 3/4 NPT	AZ 10106-30MM-16	TUBO 30MM - 1" NPT
AZ 10106-12MM-08	TUBO 12MM - 1/2 NPT	AZ 1010-30MM-20	TUBO 30MM - 1"1/4 NPT
AZ 10106-12MM-06	TUBO 12MM - 3/8 NPT	AZ 10106-32MM-20	TUBO 32MM - 1"1/4 NPT
AZ 10106-12MM-04	TUBO 12MM - 1/4 NPT	AZ 10106-32MM-16	TUBO 32MM - 1" NPT
AZ 10106-14MM-04	TUBO 14MM - 1/4 NPT	AZ 10106-35MM-16	TUBO 35MM - 1" NPT
AZ 10106-14MM-06	TUBO 14MM - 3/8 NPT	AZ 10106-35MM-20	TUBO 35MM - 1"1/4 NPT
AZ 10106-14MM-08	TUBO 14MM - 1/2 NPT	AZ 10106-38MM-20	TUBO 38MM - 1"1/4 NPT
AZ 10106-15MM-12	TUBO 15MM - 3/4 NPT	AZ 10106-38MM-24	TUBO 38MM - 1"1/2 NPT
AZ 10106-15MM-08	TUBO 15MM - 1/2 NPT	AZ 10106-42MM-20	TUBO 42MM - 1"1/4 NPT
AZ 10106-16MM-06	TUBO 16MM - 3/8 NPT	AZ 10106-42MM-24	TUBO 42MM - 1"1/2 NPT

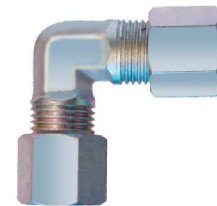
*Também disponível com roscas BSP, BSPT, Métrica e UNF.*



### Joelho Macho C/O'ring 90° – AZ 10106 (O)

Código	Medidas
AZ 10106(O)-04MM-M8	TUBO 04MM - M8 X 1
AZ 10106(O)-05MM-M8	TUBO 05MM - M8 X 1
AZ 10106(O)-6,4MM-M10	TUBO 06,4MM - M10 X 1
AZ 10106(O)-06MM-M10	TUBO 06MM - M10 X 1
AZ 10106(O)-08MM-M12	TUBO 08MM - M12 X 1,5
AZ 10106(O)-9,5MM-M16	TUBO 9,5MM - M16 X 1,5
AZ 10106(O)-10MM-M16	TUBO 10MM - M16 X 1,5
AZ 10106(O)-12,7MM-M18	TUBO 12,7MM-M18 X 1,5
AZ 10106(O)-12MM-M16	TUBO 12MM - M16 X 1,5
AZ 10106(O)-14MM-M20	TUBO 14MM - M20 X 1,5
AZ 10106(O)-15MM-M18	TUBO 15MM - M18 X 1,5
AZ 10106(O)-16MM-M22	TUBO 16MM - M22 X 1,5

*Também disponível com roscas BSP e UNF.*



### Joelho Igual 90° – AZ 10107

Código	Medidas
AZ 10107-04MM	TUBO 04MM
AZ 10107-05MM	TUBO 05MM
AZ 10107-06,4MM	TUBO 06,4MM
AZ 10107-06MM	TUBO 06MM
AZ 10107-08MM	TUBO 08MM
AZ 10107-09,5MM	TUBO 09,5MM
AZ 10107-10MM	TUBO 10MM
AZ 10107-12,7MM	TUBO 12,7MM
AZ 10107-12MM	TUBO 12MM
AZ 10107-14MM	TUBO 14MM
AZ 10107-15MM	TUBO 15MM
AZ 10107-16MM	TUBO 16MM
AZ 10107-18MM	TUBO 18MM
AZ 10107-19MM	TUBO 19MM
AZ 10107-20MM	TUBO 20MM
AZ 10107-22MM	TUBO 22MM
AZ 10107-25,4MM	TUBO 25,4MM
AZ 10107-25MM	TUBO 25MM
AZ 10107-28MM	TUBO 28MM
AZ 10107-30MM	TUBO 30MM
AZ 10107-32MM	TUBO 32MM
AZ 10107-35MM	TUBO 35MM
AZ 10107-38MM	TUBO 38MM
AZ 10107-42MM	TUBO 42MM

## Conexões: 10100 - Aço Carbono



**Curva Macho 45° – AZ 10109**

Código	Medidas
AZ 10109-04MM-02	TUBO 04MM - 1/8 NPT
AZ 10109-04MM-04	TUBO 04MM - 1/4 NPT
AZ 10109-04MM-04	TUBO 04MM - 1/4 NPT
AZ 10109-05MM-04	TUBO 05MM - 1/4 NPT
AZ 10109-05MM-02	TUBO 05MM - 1/8 NPT
AZ 10109-06,4MM-04	TUBO 06,4MM - 1/4 NPT
AZ 10109-06,4MM-02	TUBO 06,4MM - 1/8 NPT
AZ 10109-06MM-04	TUBO 06MM - 1/4 NPT
AZ 10109-06MM-02	TUBO 06MM - 1/8 NPT
AZ 10109-08MM-04	TUBO 08MM - 1/4 NPT
AZ 10109-08MM-06	TUBO 08MM - 3/8 NPT
AZ 10109-09,5MM-04	TUBO 09,5MM - 1/4 NPT
AZ 10109-09,5MM-06	TUBO 09,5MM - 3/8 NPT
AZ 10109-10MM-06	TUBO 10MM - 3/8 NPT
AZ 10109-10MM-04	TUBO 10MM - 1/4 NPT
AZ 10109-12,7MM-08	TUBO 12,7MM - 1/2 NPT
AZ 10109-12,7MM-06	TUBO 12,7MM - 3/8 NPT
AZ 10109-12MM-08	TUBO 12MM - 1/2 NPT
AZ 10109-12MM-06	TUBO 12MM - 3/8 NPT
AZ 10109-14MM-06	TUBO 14MM - 3/8 NPT
AZ 10109-14MM-08	TUBO 14MM - 1/2 NPT
AZ 10109-15MM-12	TUBO 15MM - 3/4 NPT
AZ 10109-15MM-08	TUBO 15MM - 1/2 NPT
AZ 10109-16MM-12	TUBO 16MM - 3/4 NPT
AZ 10109-16MM-08	TUBO 16MM - 1/2 NPT
AZ 10109-18MM-08	TUBO 18MM - 1/2 NPT
AZ 10109-18MM-12	TUBO 18MM - 3/4 NPT
AZ 10109-19MM-08	TUBO 19MM - 1/2 NPT
AZ 10109-19MM-12	TUBO 19MM - 3/4 NPT
AZ 10109-20MM-12	TUBO 20MM - 3/4 NPT
AZ 10109-20MM-08	TUBO 20MM - 1/2 NPT
AZ 10109-22MM-12	TUBO 22MM - 3/4 NPT
AZ 10109-22MM-16	TUBO 22MM - 1" NPT
AZ 10109-25,4MM-16	TUBO 25,4MM - 1" NPT
AZ 10109-25,4MM-12	TUBO 25,4MM - 3/4 NPT
AZ 10109-25MM-16	TUBO 25MM - 1" NPT
AZ 10109-25MM-12	TUBO 25MM - 3/4 NPT
AZ 10109-28MM-12	TUBO 28MM - 3/4 NPT
AZ 10109-28MM-16	TUBO 28MM - 1" NPT
AZ 10109-30MM-16	TUBO 30MM - 1" NPT
AZ 10109-30MM-20	TUBO 30MM - 1"1/4 NPT
AZ 10109-32MM-20	TUBO 32MM - 1"1/4 NPT
AZ 10109-35MM-20	TUBO 35MM - 1"1/4 NPT
AZ 10109-38MM-20	TUBO 38MM - 1"1/4 NPT
AZ 10109-38MM-24	TUBO 38MM - 1"1/2 NPT
AZ 10109-42MM-20	TUBO 42MM - 1"1/4 NPT
AZ 10109-42MM-24	TUBO 42MM - 1"1/2 NPT

Também disponível com rosca BSP, BSPT e Métrica.



**Tee Macho – AZ 10110**

Código	Medidas
AZ 10110-04MM-02	TUBO 04MM - 1/8 NPT
AZ 10110-04MM-04	TUBO 04MM - 1/4 NPT
AZ 10110-05MM-04	TUBO 05MM - 1/4 NPT
AZ 10110-05MM-02	TUBO 05MM - 1/8 NPT
AZ 10110-6,4MM-04	TUBO 06,4MM - 1/4 NPT
AZ 10110-6,4MM-02	TUBO 06,4MM - 1/8 NPT
AZ 10110-06MM-02	TUBO 06MM - 1/8 NPT
AZ 10110-06MM-04	TUBO 06MM - 1/4 NPT
AZ 10110-08MM-04	TUBO 08MM - 1/4 NPT
AZ 10110-08MM-06	TUBO 08MM - 3/8 NPT
AZ 10110-09,5MM-04	TUBO 09,5MM - 1/4 NPT
AZ 10110-09,5MM-06	TUBO 09,5MM - 3/8 NPT
AZ 10110-10MM-06	TUBO 10MM - 3/8 NPT
AZ 10110-10MM-04	TUBO 10MM - 1/4 NPT
AZ 10110-12,7MM-08	TUBO 12,7MM - 1/2 NPT
AZ 10110-12,7MM-06	TUBO 12,7MM - 3/8 NPT
AZ 10110-12MM-08	TUBO 12MM - 1/2 NPT
AZ 10110-12MM-06	TUBO 12MM - 3/8 NPT
AZ 10110-14MM-08	TUBO 14MM - 1/2 NPT
AZ 10110-14MM-06	TUBO 14MM - 3/8 NPT
AZ 10110-15MM-12	TUBO 15MM - 3/4 NPT
AZ 10110-15MM-08	TUBO 15MM - 1/2 NPT
AZ 10110-16MM-08	TUBO 16MM - 1/2 NPT
AZ 10110-16MM-12	TUBO 16MM - 3/4 NPT
AZ 10110-18MM-12	TUBO 18MM - 3/4 NPT
AZ 10110-18MM-08	TUBO 18MM - 1/2 NPT
AZ 10110-19MM-08	TUBO 19MM - 1/2 NPT
AZ 10110-19MM-12	TUBO 19MM - 3/4 NPT
AZ 10110-20MM-12	TUBO 20MM - 3/4 NPT
AZ 10110-20MM-08	TUBO 20MM - 1/2 NPT
AZ 10110-22MM-16	TUBO 22MM - 1" NPT
AZ 10110-22MM-12	TUBO 22MM - 3/4 NPT
AZ 10110-25,4MM-12	TUBO 25,4MM - 3/4 NPT
AZ 10110-25,4MM-16	TUBO 25,4MM - 1" NPT
AZ 10110-25MM-16	TUBO 25MM - 1" NPT
AZ 10110-25MM-12	TUBO 25MM - 3/4 NPT
AZ 10110-28MM-16	TUBO 28MM - 1" NPT
AZ 10110-28MM-12	TUBO 28MM - 3/4 NPT
AZ 10110-30MM-20	TUBO 30MM - 1"1/4 NPT
AZ 10110-30MM-16	TUBO 30MM - 1" NPT
AZ 10110-32MM-16	TUBO 32MM - 1" NPT
AZ 10110-32MM-20	TUBO 32MM - 1"1/4 NPT
AZ 10110-35MM-20	TUBO 35MM - 1"1/4 NPT
AZ 10110-35MM-16	TUBO 35MM - 1" NPT
AZ 10110-38MM-20	TUBO 38MM - 1"1/4 NPT
AZ 10110-38MM-24	TUBO 38MM - 1"1/2 NPT
AZ 10110-42MM-20	TUBO 42MM - 1"1/4 NPT
AZ 10110-42MM-24	TUBO 42MM - 1"1/2 NPT

Também disponível com rosca BSP, BSPT, Métrica e UNF.



**Tee Vertical – AZ 10111**

Código	Medidas
AZ 10111-04MM-02	TUBO 04MM - 1/8 NPT
AZ 10111-04MM-04	TUBO 04MM - 1/4 NPT
AZ 10111-05MM-04	TUBO 05MM - 1/4 NPT
AZ 10111-05MM-02	TUBO 05MM - 1/8 NPT
AZ 10111-06,4MM-04	TUBO 06,4MM - 1/4 NPT
AZ 10111-06,4MM-02	TUBO 06,4MM - 1/8 NPT
AZ 10111-06MM-04	TUBO 06MM - 1/4 NPT
AZ 10111-08MM-04	TUBO 08MM - 1/4 NPT
AZ 10111-08MM-06	TUBO 08MM - 3/8 NPT
AZ 10111-09,5MM-04	TUBO 09,5MM - 1/4 NPT
AZ 10111-09,5MM-06	TUBO 09,5MM - 3/8 NPT
AZ 10111-10MM-04	TUBO 10MM - 1/4 NPT
AZ 10111-10MM-06	TUBO 10MM - 3/8 NPT
AZ 10111-12,7MM-08	TUBO 12,7MM - 1/2 NPT
AZ 10111-12,7MM-06	TUBO 12,7MM - 3/8 NPT
AZ 10111-12MM-06	TUBO 12MM - 3/8 NPT
AZ 10111-12MM-08	TUBO 12MM - 1/2 NPT
AZ 10111-14MM-06	TUBO 14MM - 3/8 NPT
AZ 10111-14MM-08	TUBO 14MM - 1/2 NPT
AZ 10111-15MM-12	TUBO 15MM - 3/4 NPT
AZ 10111-15MM-08	TUBO 15MM - 1/2 NPT
AZ 10111-16MM-08	TUBO 16MM - 1/2 NPT
AZ 10111-16MM-12	TUBO 16MM - 3/4 NPT
AZ 10111-18MM-12	TUBO 18MM - 3/4 NPT
AZ 10111-18MM-08	TUBO 18MM - 1/2 NPT
AZ 10111-19MM-08	TUBO 19MM - 1/2 NPT
AZ 10111-19MM-12	TUBO 19MM - 3/4 NPT
AZ 10111-20MM-12	TUBO 20MM - 3/4 NPT
AZ 10111-20MM-08	TUBO 20MM - 1/2 NPT
AZ 10111-22MM-16	TUBO 22MM - 1" NPT
AZ 10111-22MM-12	TUBO 22MM - 3/4 NPT
AZ 10111-25,4MM-12	TUBO 25,4MM - 3/4 NPT
AZ 10111-25,4MM-16	TUBO 25,4MM - 1" NPT
AZ 10111-25MM-12	TUBO 25MM - 3/4 NPT
AZ 10111-25MM-16	TUBO 25MM - 1" NPT
AZ 10111-28MM-12	TUBO 28MM - 1" NPT
AZ 10111-28MM-16	TUBO 28MM - 3/4 NPT
AZ 10111-30MM-12	TUBO 30MM - 1" NPT
AZ 10111-30MM-20	TUBO 30MM - 1"1/4 NPT
AZ 10111-32MM-16	TUBO 32MM - 1" NPT
AZ 10111-32MM-20	TUBO 32MM - 1"1/4 NPT
AZ 10111-35MM-20	TUBO 35MM - 1"1/4 NPT
AZ 10111-35MM-16	TUBO 35MM - 1" NPT
AZ 10111-38MM-20	TUBO 38MM - 1"1/4 NPT
AZ 10111-38MM-24	TUBO 38MM - 1"1/2 NPT
AZ 10111-42MM-20	TUBO 42MM - 1"1/4 NPT
AZ 10111-42MM-24	TUBO 42MM - 1"1/2 NPT

Também disponível com rosca BSP, BSPT, Métrica e UNF.



**Tee Igual – AZ 10112**

Código	Medidas
AZ 10112-04MM	TUBO 04MM
AZ 10112-05MM	TUBO 05MM
AZ 10112-06,4MM	TUBO 06,4MM
AZ 10112-06MM	TUBO 06MM
AZ 10112-08MM	TUBO 08MM
AZ 10112-09,5MM	TUBO 09,5MM
AZ 10112-10MM	TUBO 10MM
AZ 10112-12,7MM	TUBO 12,7MM
AZ 10112-12MM	TUBO 12MM
AZ 10112-14MM	TUBO 14MM
AZ 10112-15MM	TUBO 15MM
AZ 10112-16MM	TUBO 16MM
AZ 10112-18MM	TUBO 18MM
AZ 10112-19MM	TUBO 19MM
AZ 10112-20MM	TUBO 20MM
AZ 10112-22MM	TUBO 22MM
AZ 10112-25,4MM	TUBO 25,4MM
AZ 10112-25MM	TUBO 25MM
AZ 10112-28MM	TUBO 28MM
AZ 10112-30MM	TUBO 30MM
AZ 10112-32MM	TUBO 32MM
AZ 10112-35MM	TUBO 35MM
AZ 10112-38MM	TUBO 38MM
AZ 10112-42MM	TUBO 42MM



**Curva Dupla 45° – AZ 10113**

Código	Medidas
AZ 10113-04MM	TUBO 04MM
AZ 10113-05MM	TUBO 05MM
AZ 10113-06,4MM	TUBO 06,4MM
AZ 10113-06MM	TUBO 06MM
AZ 10113-08MM	TUBO 08MM
AZ 10113-09,5MM	TUBO 09,5MM
AZ 10113-10MM	TUBO 10MM
AZ 10113-12,7MM	TUBO 12,7MM
AZ 10113-12MM	TUBO 12MM
AZ 10113-14MM	TUBO 14MM
AZ 10113-15MM	TUBO 15MM
AZ 10113-16MM	TUBO 16MM
AZ 10113-18MM	TUBO 18MM
AZ 10113-19MM	TUBO 19MM
AZ 10113-20MM	TUBO 20MM
AZ 10113-22MM	TUBO 22MM
AZ 10113-25,4MM	TUBO 25,4MM
AZ 10113-25MM	TUBO 25MM
AZ 10113-28MM	TUBO 28MM
AZ 10113-30MM	TUBO 30MM
AZ 10113-32MM	TUBO 32MM
AZ 10113-35MM	TUBO 35MM
AZ 10113-38MM	TUBO 38MM
AZ 10113-42MM	TUBO 42MM



**Cruzeta Igual – AZ 10114**

Código	Medidas
AZ 10114-04MM	TUBO 04MM
AZ 10114-05MM	TUBO 05MM
AZ 10114-06,4MM	TUBO 06,4MM
AZ 10114-06MM	TUBO 06MM
AZ 10114-08MM	TUBO 08MM
AZ 10114-09,5MM	TUBO 09,5MM
AZ 10114-10MM	TUBO 10MM
AZ 10114-12,7MM	TUBO 12,7MM
AZ 10114-12MM	TUBO 12MM
AZ 10114-14MM	TUBO 14MM
AZ 10114-15MM	TUBO 15MM
AZ 10114-16MM	TUBO 16MM
AZ 10114-18MM	TUBO 18MM
AZ 10114-19MM	TUBO 19MM
AZ 10114-20MM	TUBO 20MM
AZ 10114-22MM	TUBO 22MM
AZ 10114-25,4MM	TUBO 25,4MM
AZ 10114-25MM	TUBO 25MM
AZ 10114-28MM	TUBO 28MM
AZ 10114-30MM	TUBO 30MM
AZ 10114-32MM	TUBO 32MM
AZ 10114-35MM	TUBO 35MM
AZ 10114-38MM	TUBO 38MM
AZ 10114-42MM	TUBO 42MM



**União Dupla P/Painel – AZ 10115**

Código	Medidas
AZ 10115-04MM	TUBO 04MM
AZ 10115-05MM	TUBO 05MM
AZ 10115-06,4MM	TUBO 06,4MM
AZ 10115-06MM	TUBO 06MM
AZ 10115-08MM	TUBO 08MM
AZ 10115-09,5MM	TUBO 09,5MM
AZ 10115-10MM	TUBO 10MM
AZ 10115-12,7MM	TUBO 12,7MM
AZ 10115-12MM	TUBO 12MM
AZ 10115-14MM	TUBO 14MM
AZ 10115-15MM	TUBO 15MM
AZ 10115-16MM	TUBO 16MM
AZ 10115-18MM	TUBO 18MM
AZ 10115-19MM	TUBO 19MM
AZ 10115-20MM	TUBO 20MM
AZ 10115-22MM	TUBO 22MM
AZ 10115-25,4MM	TUBO 25,4MM
AZ 10115-25MM	TUBO 25MM
AZ 10115-28MM	TUBO 28MM
AZ 10115-30MM	TUBO 30MM
AZ 10115-32MM	TUBO 32MM
AZ 10115-35MM	TUBO 35MM
AZ 10115-38MM	TUBO 38MM
AZ 10115-42MM	TUBO 42MM



**União Dupla Longa – AZ 10116**

Código	Medidas
AZ 10116-04MM	TUBO 4MM
AZ 10116-05MM	TUBO 5MM
AZ 10116-06,4MM	TUBO 6,4MM
AZ 10116-06MM	TUBO 6MM
AZ 10116-08MM	TUBO 8MM
AZ 10116-09,5MM	TUBO 9,5MM
AZ 10116-10MM	TUBO 10MM
AZ 10116-12,7MM	TUBO 12,7MM
AZ 10116-12MM	TUBO 12MM
AZ 10116-14MM	TUBO 14MM
AZ 10116-15MM	TUBO 15MM
AZ 10116-16MM	TUBO 16MM
AZ 10116-18MM	TUBO 18MM
AZ 10116-19MM	TUBO 19MM
AZ 10116-20MM	TUBO 20MM
AZ 10116-25,4MM	TUBO 25,4MM
AZ 10116-25MM	TUBO 25MM
AZ 10116-28MM	TUBO 28MM
AZ 10116-30MM	TUBO 30MM
AZ 10116-32MM	TUBO 32MM
AZ 10116-35MM	TUBO 35MM
AZ 10116-38MM	TUBO 38MM
AZ 10116-42MM	TUBO 42MM

## Conexões: 10100 - Aço Carbono



**Joelho Igual P/Painel 90° – AZ 10117**

Código	Medidas
AZ 10117-04MM	TUBO 4MM
AZ 10117-05MM	TUBO 5MM
AZ 10117-06,4MM	TUBO 6,4MM
AZ 10117-06MM	TUBO 6MM
AZ 10117-08MM	TUBO 8MM
AZ 10117-09,5MM	TUBO 9,5MM
AZ 10117-10MM	TUBO 10MM
AZ 10117-12,7MM	TUBO 12,7MM
AZ 10117-12MM	TUBO 12MM
AZ 10117-14MM	TUBO 14MM
AZ 10117-15MM	TUBO 15MM
AZ 10117-16MM	TUBO 16MM
AZ 10117-18MM	TUBO 18MM
AZ 10117-19MM	TUBO 19MM
AZ 10117-20MM	TUBO 20MM
AZ 10117-22MM	TUBO 22MM
AZ 10117-25,4MM	TUBO 25,4MM
AZ 10117-25MM	TUBO 25MM
AZ 10117-28MM	TUBO 28MM
AZ 10117-30MM	TUBO 30MM
AZ 10117-32MM	TUBO 32MM
AZ 10117-35MM	TUBO 35MM
AZ 10117-38MM	TUBO 38MM
AZ 10117-42MM	TUBO 42MM



**União P/Solda – AZ 10118**

Código	Medidas
AZ 10118-04MM	TUBO 4MM DS 9.5
AZ 10118-05MM	TUBO 5MM DS 9.5
AZ 10118-06,4MM	TUBO 6,4MM DS 11
AZ 10118-06MM	TUBO 6MM DS 11
AZ 10118-08MM	TUBO 8MM DS 12.7
AZ 10118-09,5MM	TUBO 9,5MM DS 15.2
AZ 10118-10MM	TUBO 10MM DS 15.2
AZ 10118-12,7MM	TUBO 12,7MM DS 17.5
AZ 10118-12MM	TUBO 12MM DS 17.5
AZ 10118-14MM	TUBO 14MM DS 19
AZ 10118-15MM	TUBO 15MM DS 19
AZ 10118-16MM	TUBO 16MM DS 22.2
AZ 10118-18MM	TUBO 18MM DS 24
AZ 10118-19MM	TUBO 19MM DS 25
AZ 10118-20MM	TUBO 20MM DS 27
AZ 10118-22MM	TUBO 22MM DS 27
AZ 10118-25,4MM	TUBO 25,4MM DS 32
AZ 10118-25MM	TUBO 25MM DS 32
AZ 10118-28MM	TUBO 28MM DS 34.9
AZ 10118-30MM	TUBO 30MM DS 38.1
AZ 10118-32MM	TUBO 32MM DS 38.1
AZ 10118-35MM	TUBO 35MM DS 41.3
AZ 10118-38MM	TUBO 38MM DS 44.3
AZ 10118-42MM	TUBO 42MM DS 47.6



**União P/Solda – AZ 10121**

Código	Medidas
AZ 10121-06,4MM	TUBO 6,4MM - D.S INTERNO 10,7
AZ 10121-06,4MM	TUBO 6,4MM - D.S INTERNO 14,1
AZ 10121-09,5MM	TUBO 9,5MM - D.S INTERNO 14,1
AZ 10121-09,5MM	TUBO 9,5MM - D.S INTERNO 17,5
AZ 10121-09,5MM	TUBO 9,5MM - D.S INTERNO 21,7
AZ 10121-12,7MM	TUBO 12,7MM - D.S INTERNO 27
AZ 10121-12,7MM	TUBO 12,7MM - D.S INTERNO 21,7
AZ 10121-12,7MM	TUBO 12,7MM - D.S INTERNO 17,5
AZ 10121-16MM	TUBO 16MM - D.S INTERNO 21,7
AZ 10121-16MM	TUBO 16MM - D.S INTERNO 27
AZ 10121-19MM	TUBO 19MM - D.S INTERNO 21,7
AZ 10121-19MM	TUBO 19MM - D.S INTERNO 27
AZ 10121-25,4MM	TUBO 25,4MM - D.S INTERNO 27
AZ 10121-25,4MM	TUBO 25,4MM - D.S INTERNO 33,8



**Joelho P/Solda 90° – AZ 10122**

Código	Medidas
AZ 10122-04MM	TUBO 4MM DS 9.5
AZ 10122-05MM	TUBO 5MM DS 9.5
AZ 10122-06,4MM	TUBO 6,4MM DS 11
AZ 10122-06MM	TUBO 6MM DS 11
AZ 10122-08MM	TUBO 8MM DS 12.7
AZ 10122-09,5MM	TUBO 9,5MM DS 15.2
AZ 10122-10MM	TUBO 10MM DS 15.2
AZ 10122-12,7MM	TUBO 12,7MM DS 17.5
AZ 10122-12MM	TUBO 12MM DS 17.5
AZ 10122-14MM	TUBO 14MM DS 19
AZ 10122-15MM	TUBO 15MM DS 19
AZ 10122-16MM	TUBO 16MM DS 22.2
AZ 10122-18MM	TUBO 18MM DS 24
AZ 10122-19MM	TUBO 19MM DS 25
AZ 10122-20MM	TUBO 20MM DS 27
AZ 10122-22MM	TUBO 22MM DS 27
AZ 10122-25,4MM	TUBO 25,4MM DS 32
AZ 10122-25MM	TUBO 25MM DS 32
AZ 10122-28MM	TUBO 28MM DS 34.9
AZ 10122-30MM	TUBO 30MM DS 38.1
AZ 10122-32MM	TUBO 32MM DS 38.1
AZ 10122-35MM	TUBO 35MM DS 41.3
AZ 10122-38MM	TUBO 38MM DS 44.5
AZ 10122-42MM	TUBO 42MM DS 47.6



**Joelho Ponta Lisa 90° – AZ 10123**

Código	Medidas
AZ 10123-04MM	TUBO 4MM
AZ 10123-05MM	TUBO 5MM
AZ 10123-06,4MM	TUBO 6,4MM
AZ 10123-06MM	TUBO 6MM
AZ 10123-08MM	TUBO 8MM
AZ 10123-09,5MM	TUBO 9,5MM
AZ 10123-10MM	TUBO 10MM
AZ 10123-12,7MM	TUBO 12,7MM
AZ 10123-12MM	TUBO 12MM
AZ 10123-14MM	TUBO 14MM
AZ 10123-15MM	TUBO 15MM
AZ 10123-16MM	TUBO 16MM
AZ 10123-18MM	TUBO 18MM
AZ 10123-19MM	TUBO 19MM
AZ 10123-20MM	TUBO 20MM
AZ 10123-22MM	TUBO 22MM
AZ 10123-25,4MM	TUBO 25,4MM
AZ 10123-25MM	TUBO 25MM
AZ 10123-28MM	TUBO 28MM
AZ 10123-30MM	TUBO 30MM
AZ 10123-32MM	TUBO 32MM
AZ 10123-35MM	TUBO 35MM
AZ 10123-38MM	TUBO 38MM
AZ 10123-42MM	TUBO 42MM



## Tee Vertical Ponta Lisa – AZ 10124

Código	Medidas
AZ 10124-04MM	TUBO 4MM
AZ 10124-05MM	TUBO 5MM
AZ 10124-06,4MM	TUBO 6,4MM
AZ 10124-06MM	TUBO 6MM
AZ 10124-08MM	TUBO 8MM
AZ 10124-09,5MM	TUBO 9,5MM
AZ 10124-10MM	TUBO 10MM
AZ 10124-12,7MM	TUBO 12,7MM
AZ 10124-12MM	TUBO 12MM
AZ 10124-14MM	TUBO 14MM
AZ 10124-15MM	TUBO 15MM
AZ 10124-16MM	TUBO 16MM
AZ 10124-18MM	TUBO 18MM
AZ 10124-19MM	TUBO 19MM
AZ 10124-20MM	TUBO 20MM
AZ 10124-22MM	TUBO 22MM
AZ 10124-25,4MM	TUBO 25,4MM
AZ 10124-25MM	TUBO 25MM
AZ 10124-28MM	TUBO 28MM
AZ 10124-30MM	TUBO 30MM
AZ 10124-32MM	TUBO 32MM
AZ 10124-35MM	TUBO 35MM
AZ 10124-38MM	TUBO 38MM
AZ 10124-42MM	TUBO 42MM



## Tee Ponta Lisa – AZ 10125

Código	Medidas
AZ 10125-04MM	TUBO 4MM
AZ 10125-05MM	TUBO 5MM
AZ 10125-06,4MM	TUBO 6,4MM
AZ 10125-06MM	TUBO 6MM
AZ 10125-08MM	TUBO 8MM
AZ 10125-09,5MM	TUBO 9,5MM
AZ 10125-10MM	TUBO 10MM
AZ 10125-12,7MM	TUBO 12,7MM
AZ 10125-12MM	TUBO 12MM
AZ 10125-14MM	TUBO 14MM
AZ 10125-15MM	TUBO 15MM
AZ 10125-16MM	TUBO 16MM
AZ 10125-18MM	TUBO 18MM
AZ 10125-19MM	TUBO 19MM
AZ 10125-20MM	TUBO 20MM
AZ 10125-22MM	TUBO 22MM
AZ 10125-25,4MM	TUBO 25,4MM
AZ 10125-25MM	TUBO 25MM
AZ 10125-28MM	TUBO 28MM
AZ 10125-30MM	TUBO 30MM
AZ 10125-32MM	TUBO 32MM
AZ 10125-35MM	TUBO 35MM
AZ 10125-38MM	TUBO 38MM
AZ 10125-42MM	TUBO 42MM



## Adaptador – AZ 10127

Código	Medidas
AZ 10127-P.LISA 05MM	P.LISA 5MM - TUBO 4MM
AZ 10127-P.LISA 06,4MM	P.LISA 6,4MM - TUBO 4MM
AZ 10127-P.LISA 06,4MM	P.LISA 6,4MM - TUBO 5MM
AZ 10127-P.LISA 06,4MM	P.LISA 6,4MM - TUBO 6MM
AZ 10127-P.LISA 06MM	P.LISA 6MM - TUBO 4MM
AZ 10127-P.LISA 06MM	P.LISA 6MM - TUBO 5MM
AZ 10127-P.LISA 08MM	P.LISA 8MM - TUBO 6,4MM
AZ 10127-P.LISA 08MM	P.LISA 8MM - TUBO 6MM
AZ 10127-P.LISA 08MM	P.LISA 8MM - TUBO 5MM
AZ 10127-P.LISA 08MM	P.LISA 8MM - TUBO 4MM
AZ 10127-P.LISA 09,5MM	P.LISA 9,5MM - TUBO 8MM
AZ 10127-P.LISA 09,5MM	P.LISA 9,5MM - TUBO 6,4MM
AZ 10127-P.LISA 09,5MM	P.LISA 9,5MM - TUBO 6MM
AZ 10127-P.LISA 09,5MM	P.LISA 9,5MM - TUBO 5MM
AZ 10127-P.LISA 09,5MM	P.LISA 9,5MM - TUBO 4MM
AZ 10127-P.LISA 10MM	P.LISA 10MM - TUBO 9,5MM
AZ 10127-P.LISA 10MM	P.LISA 10MM - TUBO 8MM
AZ 10127-P.LISA 10MM	P.LISA 10MM - TUBO 6,4MM
AZ 10127-P.LISA 10MM	P.LISA 10MM - TUBO 6MM
AZ 10127-P.LISA 10MM	P.LISA 10MM - TUBO 5MM
AZ 10127-P.LISA 10MM	P.LISA 10MM - TUBO 4MM
AZ 10127-P.LISA 12,7MM	P.LISA 12,7MM - TUBO 4MM
AZ 10127-P.LISA 12,7MM	P.LISA 12,7MM - TUBO 6MM
AZ 10127-P.LISA 12,7MM	P.LISA 12,7MM - TUBO 8MM
AZ 10127-P.LISA 12,7MM	P.LISA 12MM - TUBO 6,4MM
AZ 10127-P.LISA 12,7MM	P.LISA 12,7MM - TUBO 9,5MM
AZ 10127-P.LISA 12,7MM	P.LISA 12,7MM - TUBO 10MM
AZ 10127-P.LISA 12,7MM	P.LISA 12,7MM - TUBO 12MM
AZ 10127-P.LISA 12,7MM	P.LISA 12,7MM - TUBO 5MM
AZ 10127-P.LISA 12MM	P.LISA 12MM - TUBO 6,4MM
AZ 10127-P.LISA 12MM	P.LISA 12MM - TUBO 10MM
AZ 10127-P.LISA 12MM	P.LISA 12MM - TUBO 4MM
AZ 10127-P.LISA 12MM	P.LISA 12MM - TUBO 5MM
AZ 10127-P.LISA 12MM	P.LISA 12MM - TUBO 6MM
AZ 10127-P.LISA 12MM	P.LISA 12MM - TUBO 8MM
AZ 10127-P.LISA 12MM	P.LISA 12MM - TUBO 9,5MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 12,7MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 12MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 10MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 9,5MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 8MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 6,4MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 6MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 5MM
AZ 10127-P.LISA 14MM	P.LISA 14MM - TUBO 4MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 12,7MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 14MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 12MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 9,5MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 8MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 10MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 6,4MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 6MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 5MM
AZ 10127-P.LISA 15MM	P.LISA 15MM - TUBO 4MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 10MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 9,5MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 8MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 6,4MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 6MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 5MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 4MM
AZ 10127-P.LISA 16MM	P.LISA 16MM - TUBO 12MM

Demais Medidas Sob Consulta.



## Conexões: 10100 - Aço Carbono



### União Orientável – AZ 10126

Código	Medidas
AZ 10126-04-02	TUBO 4MM - 1/8 BSP
AZ 10126-04-04	TUBO 4MM - 1/4 BSP
AZ 10126-05-02	TUBO 5MM - 1/8 BSP
AZ 10126-05-04	TUBO 5MM - 1/4 BSP
AZ 10126-06-02	TUBO 6MM - 1/8 BSP
AZ 10126-06-04	TUBO 6MM - 1/4 BSP
AZ 10126-06,4-02	TUBO 6,4MM - 1/8 BSP
AZ 10126-06,4-04	TUBO 6,4MM - 1/4 BSP
AZ 10126-08-04	TUBO 8MM - 1/4 BSP
AZ 10126-08-06	TUBO 8MM - 3/8 BSP
AZ 10126-09,5-04	TUBO 9,5MM - 1/4 BSP
AZ 10126-09,5-06	TUBO 9,5MM - 3/8 BSP
AZ 10126-10-04	TUBO 10MM - 1/4 BSP
AZ 10126-10-06	TUBO 10MM - 3/8 BSP
AZ 10126-12-06	TUBO 12MM - 3/8 BSP
AZ 10126-12-08	TUBO 12MM - 1/2 BSP
AZ 10126-12,7-06	TUBO 12,7MM - 3/8 BSP
AZ 10126-12,7-08	TUBO 12,7MM - 1/2 BSP
AZ 10126-14-06	TUBO 14MM - 3/8 BSP
AZ 10126-14-08	TUBO 14MM - 1/2 BSP
AZ 10126-15-08	TUBO 15MM - 1/2 BSP
AZ 10126-15-12	TUBO 15MM - 3/4 BSP
AZ 10126-16-08	TUBO 16MM - 1/2 BSP
AZ 10126-16-12	TUBO 16MM - 3/4 BSP
AZ 10126-18-08	TUBO 18MM - 1/2 BSP
AZ 10126-18-12	TUBO 18MM - 3/4 BSP
AZ 10126-19-08	TUBO 19MM - 1/2 BSP
AZ 10126-19-12	TUBO 19MM - 3/4 BSP
AZ 10126-20-08	TUBO 20MM - 1/2 BSP
AZ 10126-20-12	TUBO 20MM - 3/4 BSP
AZ 10126-22-12	TUBO 22MM - 3/4 BSP
AZ 10126-22-16	TUBO 22MM - 1" BSP
AZ 10126-25-12	TUBO 25MM - 3/4 BSP
AZ 10126-25-16	TUBO 25MM - 1" BSP
AZ 10126-25,4-12	TUBO 25,4MM - 3/4 BSP
AZ 10126-25,4-16	TUBO 25,4MM - 1" BSP
AZ 10126-28-12	TUBO 28MM - 3/4 BSP
AZ 10126-28-16	TUBO 28MM - 1" BSP

Também disponível com roscas Métrica e UNF.



### Adaptador – AZ 10128

Código	Medidas
AZ 10126-04-02	TUBO 4MM - 1/8 NPT
AZ 10126-04-04	TUBO 4MM - 1/4 NPT
AZ 10126-05-02	TUBO 5MM - 1/8 NPT
AZ 10126-05-04	TUBO 5MM - 1/4 NPT
AZ 10126-06-02	TUBO 6MM - 1/8 NPT
AZ 10126-06-04	TUBO 6MM - 1/4 NPT
AZ 10126-06,4-02	TUBO 6,4MM - 1/8 NPT
AZ 10126-06,4-04	TUBO 6,4MM - 1/4 NPT
AZ 10126-08-04	TUBO 8MM - 1/4 NPT
AZ 10126-08-06	TUBO 8MM - 3/8 NPT
AZ 10126-09,5-04	TUBO 9,5MM - 1/4 NPT
AZ 10126-09,5-06	TUBO 9,5MM - 3/8 NPT
AZ 10126-10-04	TUBO 10MM - 1/4 NPT
AZ 10126-10-06	TUBO 10MM - 3/8 NPT
AZ 10126-12-06	TUBO 12MM - 3/8 NPT
AZ 10126-12-08	TUBO 12MM - 1/2 NPT
AZ 10126-12,7-06	TUBO 12,7MM - 3/8 NPT
AZ 10126-12,7-08	TUBO 12,7MM - 1/2 NPT
AZ 10126-14-06	TUBO 14MM - 3/8 NPT
AZ 10126-14-08	TUBO 14MM - 1/2 NPT
AZ 10126-15-08	TUBO 15MM - 1/2 NPT
AZ 10126-15-12	TUBO 15MM - 3/4 NPT
AZ 10126-16-08	TUBO 16MM - 1/2 NPT
AZ 10126-16-12	TUBO 16MM - 3/4 NPT
AZ 10126-18-08	TUBO 18MM - 1/2 NPT
AZ 10126-18-12	TUBO 18MM - 3/4 NPT
AZ 10126-19-08	TUBO 19MM - 1/2 NPT
AZ 10126-19-12	TUBO 19MM - 3/4 NPT
AZ 10126-20-08	TUBO 20MM - 1/2 NPT
AZ 10126-20-12	TUBO 20MM - 3/4 NPT
AZ 10126-22-12	TUBO 22MM - 3/4 NPT
AZ 10126-22-16	TUBO 22MM - 1" NPT
AZ 10126-25-12	TUBO 25MM - 3/4 NPT
AZ 10126-25-16	TUBO 25MM - 1" NPT
AZ 10126-25,4-12	TUBO 25,4MM - 3/4 NPT
AZ 10126-25,4-16	TUBO 25,4MM - 1" NPT
AZ 10126-28-12	TUBO 28MM - 3/4 NPT
AZ 10126-28-16	TUBO 28MM - 1" NPT
AZ 10126-30-16	TUBO 30MM - 1" NPT
AZ 10126-30-20	TUBO 28MM - 1"1/4 NPT

Também disponível com roscas  
BSP, BSPT, Métrica e UNF.  
Demais Medidas Sob Consulta.



### Bujão Sextavado AZ 10522

Código	Medidas
AZ 10522-02	NPT 1/8
AZ 10522-04	NPT 1/4
AZ 10522-06	NPT 3/8
AZ 10522-08	NPT 1/2
AZ 10522-12	NPT 3/4
AZ 10522-16	NPT 1"
AZ 10522-20	NPT 1"1/4
AZ 10522-24	NPT 1"1/2

Também disponível com roscas  
BSP, BSPT, Métrica e UNF.



### Bujão C/Sextavado Interno AZ 10531

Código	Medidas
AZ 10531-02	NPT 1/8
AZ 10531-04	NPT 1/4
AZ 10531-06	NPT 3/8
AZ 10531-08	NPT 1/2
AZ 10531-12	NPT 3/4
AZ 10531-16	NPT 1"
AZ 10531-20	NPT 1"1/4
AZ 10531-24	NPT 1"1/2

Também disponível com roscas  
BSP, BSPT, Métrica e UNF.

## ADAPTADORES

### CODIFICAÇÃO

Os adaptadores Macho-Fêmea, Macho-Macho e Fêmea-Fêmea, são codificados de acordo com o seguinte:

1. A sequência de roscas para adaptadores Macho-Macho e Fêmea-Fêmea é:

- |               |               |
|---------------|---------------|
| a) NPT x BSP  | f) BSP x UNF  |
| b) NPT x M    | g) BSP x BSPT |
| c) NPT x UNF  | h) M x UNF    |
| d) NPT x BSPT | i) M x BSPT   |
| e) BSP x M    | j) UNF x BSPT |

#### Exemplo:

MMA 3/8 NPT x 3/8 BSP  
FFA 1/2 BSP x 7/8 UNF

Sendo um mesmo tipo de rosca, a codificação deverá ser efetuada considerando-se a maior dimensão.

#### Exemplo:

MMA 3/4 x 1/2 NPT  
MMA 3/4 x 1/2 BSP  
FFA M18x1,5M16x1,5

2. Os adaptadores Macho-Fêmea são codificados considerando-se primeiro a rosca macho.

#### Exemplo:

MFA 1/2 BSP x M18X1,5  
MFA 1/2 UNF x 1/4 NPT

### ROSCAS DISPONÍVEIS:

Os adaptadores Macho-Fêmea, Macho-Macho e Fêmea-Fêmea são fornecidos em quaisquer combinações de medidas das rosas NPT, BSP, MÉTRICA e UNF, apresentadas abaixo.

NPT Cônica	BSP Paralela	BSPT Cônica	MÉTRICA Paralela	UNF Paralela
1/8 NPT	1/8 BSP	1/8 BSPT	M 8x1	1/16 UNF
1/4 NPT	1/4 BSP	1/4 BSPT	M 10x1	3/8 UNF
3/8 NPT	3/8 BSP	3/8 BSPT	M 12x1,5	7/16 UNF
1/2 NPT	1/2 BSP	1/2 BSPT	M 14x1,5	1/2 UNF
3/4 NPT	3/4 BSP	3/4 BSPT	M 16x1,5	9/16 UNF
1" NPT	1" BSP	1" BSPT	M 18x1,5	3/4 UNF
1"1/4 NPT	1"1/4 BSP	1"1/4 BSPT	M 20x1,5	7/8 UNF
1"1/2 NPT	1"1/2 BSP	1"1/2 BSPT	M 22x1,5	1"1/16 UNF
2" NPT	2" BSP	2" BSPT	M 24x1,5	1"3/16 UNF
2"1/2 NPT	2"1/2 BSP	2"1/2 BSPT	M 26x1,5	1"5/16 UNF
3" NPT	3" BSP	3" BSPT	M 27x1,5	1"5/8 UNF
			M 33x2	1"7/8 UNF
			M 42x2	
			M 48x2	
			M 60x2	



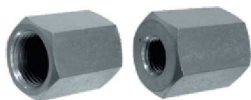
**Adaptador Macho-Macho  
AZ 10504**

### REFERÊNCIA:

MMA | Aço  
MMC | Latão  
MMI | Inox

### EXEMPLO DE ESPECIFICAÇÃO

Referência: MM                      MMA 1/2 NPTx1.7/8 UNF  
Material da conexão: "A" aço  
Medida de uma rosca macho: 1/2 NPT  
Medida da outra rosca macho: 1.7/8 UNF



**Adaptador Fêmea-Fêmea  
AZ 10505**

### REFERÊNCIA:

FFA | Aço  
FFC | Latão  
FFI | Inox

### EXEMPLO DE ESPECIFICAÇÃO

Referência: FF                      FFA 3/4 NPTx1/2 UNF  
Material da conexão: "A" aço  
Medida de uma rosca macho: 3/4 NPT  
Medida da outra rosca macho: 1/2 UNF



**Adaptador Macho-Fêmea  
AZ 10504**

### REFERÊNCIA:

MFA | Aço  
MFC | Latão  
MFI | Inox

### EXEMPLO DE ESPECIFICAÇÃO

Referência: MF                      MFA 3/8 NPTx1/8 UNF  
Material da conexão: "A" aço  
Medida de uma rosca macho: 3/8 NPT  
Medida da outra rosca macho: 1/8 UNF