








CONEXÕES INSTANTÂNEAS

ROSCA BSP
(VEDAÇÃO: O'RING)



| CONECTOR MACHO | PC | | COTOVELO MACHO | PL | |
|---|------------------------------|-------------|---|------------------------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (BSP) | | | TUBO (MÉTRICO) x ROSCA (BSP) | |
|  | PC 4mmx1/8 | PC 10mmx1/8 |  | PL 4mmx1/8 | PL 10mmx1/8 |
| | PC 4mmx1/4 | PC 10mmx1/4 | | PL 4mmx1/4 | PL 10mmx1/4 |
| | PC 6mmx1/8 | PC 10mmx3/8 | | PL 6mmx1/8 | PL 10mmx3/8 |
| | PC 6mmx1/4 | PC 10mmx1/2 | | PL 6mmx1/4 | PL 10mmx1/2 |
| | PC 6mmx3/8 | PC 12mmx1/4 | | PL 6mmx3/8 | PL 12mmx1/4 |
| | PC 6mmx1/2 | PC 12mmx3/8 | | PL 6mmx1/2 | PL 12mmx3/8 |
| | PC 8mmx1/8 | PC 12mmx1/2 | | PL 8mmx1/8 | PL 12mmx1/2 |
| | PC 8mmx1/4 | PC 16mmx3/8 | | PL 8mmx1/4 | PL 16mmx3/8 |
| | PC 8mmx3/8 | PC 16mmx1/2 | | PL 8mmx3/8 | PL 16mmx1/2 |
| | PC 8mmx1/2 | | | PL 8mmx1/2 | |



| RETA C/ SEXT. INTERNO | POC | | COTOV. MACHO LONGO | PLL | |
|---|------------------------------|--------------|---|------------------------------|--------------|
| | TUBO (MÉTRICO) x ROSCA (BSP) | | | TUBO (MÉTRICO) x ROSCA (BSP) | |
|  | POC 4mmx1/8 | POC 8mmx1/2 |  | PLL 4mmx1/8 | PLL 8mmx1/2 |
| | POC 4mmx1/4 | POC 10mmx1/8 | | PLL 4mmx1/4 | PLL 10mmx1/8 |
| | POC 4mmx3/8 | POC 10mmx1/4 | | PLL 4mmx3/8 | PLL 10mmx1/4 |
| | POC 6mmx1/8 | POC 10mmx3/8 | | PLL 6mmx1/8 | PLL 10mmx3/8 |
| | POC 6mmx1/4 | POC 10mmx1/2 | | PLL 6mmx1/4 | PLL 10mmx1/2 |
| | POC 6mmx3/8 | POC 12mmx1/4 | | PLL 6mmx3/8 | PLL 12mmx1/4 |
| | POC 6mmx1/2 | POC 12mmx3/8 | | PLL 6mmx1/2 | PLL 12mmx3/8 |
| | POC 8mmx1/8 | POC 12mmx1/2 | | PLL 8mmx1/8 | PLL 12mmx1/2 |
| | POC 8mmx1/4 | POC 16mmx3/8 | | PLL 8mmx1/4 | PLL 16mmx3/8 |
| | POC 8mmx3/8 | POC 16mmx1/2 | | PLL 8mmx3/8 | PLL 16mmx1/2 |

| T MACHO CENTRAL. | PT | | T MACHO LATERAL | PST | |
|---|------------------------------|-------------|---|------------------------------|--------------|
| | TUBO (MÉTRICO) x ROSCA (BSP) | | | TUBO (MÉTRICO) x ROSCA (BSP) | |
|  | PT 4mmx1/8 | PT 10mmx1/8 |  | PST 4mmx1/8 | PST 10mmx1/8 |
| | PT 4mmx1/4 | PT 10mmx1/4 | | PST 4mmx1/4 | PST 10mmx1/4 |
| | PT 6mmx1/8 | PT 10mmx3/8 | | PST 6mmx1/8 | PST 10mmx3/8 |
| | PT 6mmx1/4 | PT 10mmx1/2 | | PST 6mmx1/4 | PST 10mmx1/2 |
| | PT 6mmx3/8 | PT 12mmx1/4 | | PST 6mmx3/8 | PST 12mmx1/4 |
| | PT 6mmx1/2 | PT 12mmx3/8 | | PST 6mmx1/2 | PST 12mmx3/8 |
| | PT 8mmx1/8 | PT 12mmx1/2 | | PST 8mmx1/8 | PST 12mmx1/2 |
| | PT 8mmx1/4 | PT 16mmx3/8 | | PST 8mmx1/4 | |
| | PT 8mmx3/8 | PT 16mmx1/2 | | PST 8mmx3/8 | |
| | PT 8mmx1/2 | | | PST 8mmx1/2 | |



CONEXÕES INSTANTÂNEAS

ROSCA BSP
(VEDAÇÃO: O'RING)



| Y MACHO | PWT | | DISTRIB. M. C/ REDUÇÃO | PKD | |
|--|----------------|--------------|--|------------------|-------------|
| | TUBO (MÉTRICO) | ROSCA (BSP) | | TUBO (MÉTRICO) | ROSCA (BSP) |
|  | PWT 4mmx1/8 | PWT 10mmx1/8 |  | PKD 6mmx4mmx1/8 | |
| | PWT 4mmx1/4 | PWT 10mmx1/4 | | PKD 8mmx4mmx1/4 | |
| | PWT 6mmx1/8 | PWT 10mmx3/8 | | PKD 8mmx6mmx1/4 | |
| | PWT 6mmx1/4 | PWT 10mmx1/2 | | PKD 10mmx8mmx3/8 | |
| | PWT 6mmx3/8 | PWT 12mmx1/4 | | | |
| | PWT 6mmx1/2 | PWT 12mmx3/8 | | | |
| | PWT 8mmx1/8 | PWT 12mmx1/2 | | | |
| | PWT 8mmx1/4 | | | | |
| | PWT 8mmx3/8 | | | | |
| | PWT 8mmx1/2 | | | | |


| BANJO | PH | | BANJO FEMEA | PHF | |
|--|----------------|-------------|--|----------------|--------------|
| | TUBO (MÉTRICO) | ROSCA (BSP) | | TUBO (MÉTRICO) | ROSCA (BSP) |
|  | PH 4mmx1/8 | PH 8mmx3/8 |  | PHF 4mmx1/8 | PHF 8mmx3/8 |
| | PH 6mmx1/8 | PH 10mmx1/4 | | PHF 6mmx1/8 | PHF 10mmx1/4 |
| | PH 6mmx1/4 | PH 10mmx3/8 | | PHF 6mmx1/4 | PHF 10mmx3/8 |
| | PH 8mmx1/8 | PH 12mmx3/8 | | PHF 8mmx1/8 | PHF 12mmx3/8 |
| | PH 8mmx1/4 | PH 12mmx1/2 | | PHF 8mmx1/4 | PHF 12mmx1/2 |


| CONECTOR FÊMEA | PCF | | COTOV. FÊMEA | PLF | |
|---|----------------|--------------|--|----------------|--------------|
| | TUBO (MÉTRICO) | ROSCA (BSP) | | TUBO (MÉTRICO) | ROSCA (BSP) |
|  | PCF 4mmx1/8 | PCF 8mmx1/2 |  | PLF 4mmx1/8 | PLF 8mmx1/2 |
| | PCF 4mmx1/4 | PCF 10mmx1/8 | | PLF 4mmx1/4 | PLF 10mmx1/8 |
| | PCF 6mmx1/8 | PCF 10mmx1/4 | | PLF 6mmx1/8 | PLF 10mmx1/4 |
| | PCF 6mmx1/4 | PCF 10mmx3/8 | | PLF 6mmx1/4 | PLF 10mmx3/8 |
| | PCF 6mmx3/8 | PCF 10mmx1/2 | | PLF 6mmx3/8 | PLF 10mmx1/2 |
| | PCF 8mmx1/8 | PCF 12mmx1/4 | | PLF 8mmx1/8 | PLF 12mmx1/4 |
| | PCF 8mmx1/4 | PCF 12mmx3/8 | | PLF 8mmx1/4 | PLF 12mmx3/8 |
| | PCF 8mmx3/8 | PCF 12mmx1/2 | | PLF 8mmx3/8 | PLF 12mmx1/2 |

CONEXÕES INSTANTÂNEAS

ROSCA NPT
(VEDAÇÃO TEFLON)

| CONECTOR MACHO | PC | | | | | |
|---|------------------------------|-------------|-------------|-------------------------------|-------------|------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | PC 4mmxm5 | PC 6mmx3/8 | PC 10mmx3/8 | PC 5/32x1/8 | PC 1/4x3/8 | PC 3/8x1/2 |
| | PC 4mmxm6 | PC 6mmx1/2 | PC 10mmx1/2 | PC 5/32x1/4 | PC 5/16x1/8 | PC 1/2x1/4 |
| | PC 4mmx1/8 | PC 8mmx1/8 | PC 12mmx1/4 | PC 3/16x1/8 | PC 5/16x1/4 | PC 1/2x3/8 |
| | PC 4mmx1/4 | PC 8mmx1/4 | PC 12mmx3/8 | PC 3/16x1/4 | PC 5/16x3/8 | PC 1/2x1/2 |
| | PC 6mmxm5 | PC 8mmx3/8 | PC 12mmx1/2 | PC 3/16x3/8 | PC 3/8x1/8 | |
| | PC 6mmxm6 | PC 8mmx1/2 | PC 16mmx3/8 | PC 1/4x1/8 | PC 3/8x1/4 | |
| | PC 6mmx1/8 | PC 10mmx1/8 | PC 16mmx1/2 | PC 1/4x1/4 | PC 3/8x3/8 | |
| | PC 6mmx1/4 | PC 10mmx1/4 | | | | |

| RETA C/ SEXT. INTERNO | POC | | | | | |
|--|------------------------------|--------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | POC 4mmxm5 | POC 6mmx1/4 | POC 10mmx1/4 | POC 1/8-1/8 | POC 1/4x3/8 | POC 1/2x1/4 |
| | POC 4mmxm6 | POC 6mmx3/8 | POC 10mmx3/8 | POC 1/8-1/4 | POC 5/16x1/8 | POC 1/2x3/8 |
| | POC 4mmx1/8 | POC 6mmx1/2 | POC 10mmx1/2 | POC 5/32-1/8 | POC 5/16x1/4 | POC 1/2x1/2 |
| | POC 4mmx1/4 | POC 8mmx1/8 | POC 12mmx1/4 | POC 5/32-1/4 | POC 5/16x3/8 | |
| | POC 4mmx3/8 | POC 8mmx1/4 | POC 12mmx3/8 | POC 3/16-1/4 | POC 3/8x1/8 | |
| | POC 6mmxm5 | POC 8mmx3/8 | POC 12mmx1/2 | POC 3/16-3/8 | POC 3/8x1/4 | |
| | POC 6mmxm6 | POC 8mmx1/2 | POC 16mmx3/8 | POC 1/4-1/8 | POC 3/8x3/8 | |
| | POC 6mmx1/8 | POC 10mmx1/8 | POC 16mmx1/2 | POC 1/4-1/4 | POC 3/8x1/2 | |

| CONECTOR FÊMEA | PCF | | | | | |
|---|------------------------------|--------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | PCF 4mmx1/8 | PCF 8mmx1/4 | PCF 10mmx1/2 | PCF 5/32x1/8 | PCF 1/4x1/4 | PCF 3/8x1/4 |
| | PCF 4mmx1/4 | PCF 8mmx3/8 | PCF 12mmx1/4 | PCF 5/32x1/4 | PCF 5/16x1/8 | PCF 3/8x3/8 |
| | PCF 6mmx1/8 | PCF 8mmx1/2 | PCF 12mmx3/8 | PCF 3/16x1/8 | PCF 5/16x1/4 | PCF 1/2x1/4 |
| | PCF 6mmx1/4 | PCF 10mmx1/8 | PCF 12mmx1/2 | PCF 3/16x1/4 | PCF 5/16x3/8 | PCF 1/2x3/8 |
| | PCF 6mmx3/8 | PCF 10mmx1/4 | | PCF 1/4x1/8 | | |
| | PCF 8mmx1/8 | PCF 10mmx3/8 | | | | |

| COTOVELO MACHO | PL | | | | | |
|---|------------------------------|-------------|-------------|-------------------------------|-------------|------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | PL 04-M5 | PL 06mmx3/8 | PL 10mmx3/8 | PL 5/32x1/8 | PL 5/16x1/8 | PL 1/2x3/8 |
| | PL 04-M6 | PL 06mmx1/2 | PL 10mmx1/2 | PL 5/32x1/4 | PL 5/16x1/4 | PL 1/2x1/2 |
| | PL 04mmx1/8 | PL 08mmx1/8 | PL 12mmx1/4 | PL 3/16x1/8 | PL 5/16x3/8 | |
| | PL 04mmx1/4 | PL 08mmx1/4 | PL 12mmx3/8 | PL 3/16x1/4 | PL 3/8x1/8 | |
| | PL 06-M5 | PL 08mmx3/8 | PL 12mmx1/2 | PL 3/16x3/8 | PL 3/8x1/4 | |
| | PL 06-M6 | PL 08mmx1/2 | PL 16mmx3/8 | PL 1/4x1/8 | PL 3/8x3/8 | |
| | PL 06mmx1/8 | PL 10mmx1/8 | PL 16mmx1/2 | PL 1/4x1/4 | PL 3/8x1/2 | |
| | PL 06mmx1/4 | PL 10mmx1/4 | | PL 1/4x3/8 | PL 1/2x1/4 | |




CONEXÕES INSTANTÂNEAS

ROSCA NPT
(VEDAÇÃO TEFLON)


| T MACHO CENTRAL | PT | | | | | |
|-----------------|---|-------------|-------------|-------------------------------|-------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
| |  | PT 4mmxm5 | PT 6mmx3/8 | PT 10mmx3/8 | PT 5/32x1/8 | PT 5/16x1/8 |
| | PT 4mmxm6 | PT 6mmx1/2 | PT 10mmx1/2 | PT 5/32x1/4 | PT 5/16x1/4 | PT 1/2x1/2 |
| | PT 4mmx1/8 | PT 8mmx1/8 | PT 12mmx1/4 | PT 3/16x1/8 | PT 5/16x3/8 | |
| | PT 4mmx1/4 | PT 8mmx1/4 | PT 12mmx3/8 | PT 3/16x1/4 | PT 3/8x1/8 | |
| | PT 6mmxm5 | PT 8mmx3/8 | PT 12mmx1/2 | PT 3/16x3/8 | PT 3/8x1/4 | |
| | PT 6mmxm6 | PT 8mmx1/2 | PT 16mmx3/8 | PT 1/4x1/8 | PT 3/8x3/8 | |
| | PT 6mmx1/8 | PT 10mmx1/8 | PT 16mmx1/2 | PT 1/4x1/4 | PT 3/8x1/2 | |
| | PT 6mmx1/4 | PT 10mmx1/4 | | PT 1/4x3/8 | PT 1/2x1/4 | |


| T MACHO LATERAL | PST | | | | | |
|-----------------|--|-------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
| |  | PST 4mmxm5 | PST 6mmx1/4 | PST 10mmx1/8 | PST 5/32x1/8 | PST 1/4x3/8 |
| | PST 4mmxm6 | PST 6mmx3/8 | PST 10mmx1/4 | PST 5/32x1/4 | PST 5/16x1/8 | PST 1/2x1/4 |
| | PST 4mmx1/8 | PST 6mmx1/2 | PST 10mmx3/8 | PST 3/16x1/8 | PST 5/16x1/4 | PST 1/2x3/8 |
| | PST 4mmx1/4 | PST 8mmx1/8 | PST 10mmx1/2 | PST 3/16x1/4 | PST 5/16x3/8 | PST 1/2x1/2 |
| | PST 6mmxm5 | PST 8mmx1/4 | PST 12mmx1/4 | PST 3/16x3/8 | PST 3/8x1/8 | |
| | PST 6mmxm6 | PST 8mmx3/8 | PST 12mmx3/8 | PST 1/4x1/8 | PST 3/8x1/4 | |
| | PST 6mmx1/8 | PST 8mmx1/2 | PST 12mmx1/2 | PST 1/4x1/4 | PST 3/8x3/8 | |


| Y MACHO | PWT | | | | | |
|---------|---|-------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
| |  | PWT 4mmxm5 | PWT 6mmx1/4 | PWT 10mmx1/8 | PWT 5/32x1/8 | PWT 1/4x3/8 |
| | PWT 4mmxm6 | PWT 6mmx3/8 | PWT 10mmx1/4 | PWT 5/32x1/4 | PWT 5/16x1/8 | PWT 1/2x1/4 |
| | PWT 4mmx1/8 | PWT 6mmx1/2 | PWT 10mmx3/8 | PWT 3/16x1/8 | PWT 5/16x1/4 | PWT 1/2x3/8 |
| | PWT 4mmx1/4 | PWT 8mmx1/8 | PWT 10mmx1/2 | PWT 3/16x1/4 | PWT 5/16x3/8 | PWT 1/2x1/2 |
| | PWT 6mmxm5 | PWT 8mmx1/4 | PWT 12mmx1/4 | PWT 3/16x3/8 | PWT 3/8x1/8 | |
| | PWT 6mmxm6 | PWT 8mmx3/8 | PWT 12mmx3/8 | PWT 1/4x1/8 | PWT 3/8x1/4 | |
| | PWT 6mmx1/8 | PWT 8mmx1/2 | PWT 12mmx1/2 | PWT 1/4x1/4 | PWT 3/8x3/8 | |

| BANJO | PH | | | | | |
|-------|---|------------|-------------|-------------------------------|-------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
| |  | PH 4mmxm5 | PH 6mmx1/4 | PH 10mmx1/4 | PH 5/32x1/8 | PH 5/16x3/8 |
| | PH 4mmxm6 | PH 6mmx3/8 | PH 10mmx3/8 | PH 3/16x1/8 | PH 3/8x1/4 | |
| | PH 4mmx1/8 | PH 8mmx1/8 | PH 10mmx1/2 | PH 3/16x1/4 | PH 3/8x3/8 | |
| | PH 4mmx1/4 | PH 8mmx1/4 | PH 12mmx1/4 | PH 1/4x1/8 | PH 1/2x3/8 | |
| | PH 6mmxm5 | PH 8mmx3/8 | PH 12mmx3/8 | PH 1/4x1/4 | PH 1/2x1/2 | |
| | PH 6mmxm6 | PH 8mmx1/2 | PH 12mmx1/2 | PH 5/16x1/8 | | |
| | PH 6mmx1/8 | | | PH 5/16x1/4 | | |



| BANJO FEMEA | PHF | | | | | |
|---|------------------------------|-------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | PHF 4mmxm5 | PHF 6mmx1/4 | PHF 10mmx1/4 | PHF 5/32x1/8 | PHF 1/4x1/4 | PHF 3/8x1/4 |
| | PHF 4mmxm6 | PHF 6mmx3/8 | PHF 10mmx3/8 | PHF 3/16x1/8 | PHF 5/16x1/8 | PHF 3/8x3/8 |
| | PHF 4mmx1/8 | PHF 8mmx1/8 | PHF 10mmx1/2 | PHF 3/16x1/4 | PHF 5/16x1/4 | PHF 1/2x3/8 |
| | PHF 4mmx1/4 | PHF 8mmx1/4 | PHF 12mmx1/4 | PHF 1/4x1/8 | PHF 5/16x3/8 | PHF 1/2x1/2 |
| | PHF 6mmxm5 | PHF 8mmx3/8 | PHF 12mmx3/8 | | | |
| | PHF 6mmxm6 | PHF 8mmx3/8 | PHF 12mmx1/2 | | | |
| | PHF 6mmx1/8 | PHF 8mmx1/2 | | | | |


| COTOV. FÊMEA | PLF | | | | | |
|--|------------------------------|--------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | PLF 4mmxm5 | PLF 6mmx1/4 | PLF 10mmx1/4 | PLF 5/32x1/8 | PLF 1/4x1/4 | PLF 3/8x1/4 |
| | PLF 4mmxm6 | PLF 6mmx3/8 | PLF 10mmx3/8 | PLF 3/16x1/8 | PLF 5/16x1/8 | PLF 3/8x3/8 |
| | PLF 4mmx1/8 | PLF 8mmx1/8 | PLF 10mmx1/2 | PLF 3/16x1/4 | PLF 5/16x1/4 | PLF 1/2x3/8 |
| | PLF 4mmx1/4 | PLF 8mmx1/4 | PLF 12mmx1/4 | PLF 1/4x1/8 | PLF 5/16x3/8 | PLF 1/2x1/2 |
| | PLF 6mmxm5 | PLF 8mmx3/8 | PLF 12mmx3/8 | | | |
| | PLF 6mmxm6 | PLF 8mmx1/2 | PLF 12mmx1/2 | | | |
| | PLF 6mmx1/8 | PLF 10mmx1/8 | | | | |



| COTOV. MACHOLONGO | PLL | | | | | |
|---|------------------------------|-------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | PLL 4mmxm5 | PLL 6mmx1/4 | PLL 10mmx1/8 | PLL 5/32-U | PLL 1/4x1/4 | PLL 3/8x3/8 |
| | PLL 4mmxm6 | PLL 6mmx3/8 | PLL 10mmx1/4 | PLL 5/32x1/8 | PLL 1/4x3/8 | PLL 3/8x1/2 |
| | PLL 4mmx1/8 | PLL 6mmx1/2 | PLL 10mmx3/8 | PLL 3/16x1/8 | PLL 5/16x1/8 | PLL 1/2x1/4 |
| | PLL 4mmx1/4 | PLL 8mmx1/8 | PLL 10mmx1/2 | PLL 3/16x1/4 | PLL 5/16x1/4 | PLL 1/2x3/8 |
| | PLL 6mmxm5 | PLL 8mmx1/4 | PLL 12mmx1/4 | PLL 3/16x3/8 | PLL 5/16x3/8 | PLL 1/2x1/2 |
| | PLL 6mmxm6 | PLL 8mmx3/8 | PLL 12mmx3/8 | PLL 1/4x1/8 | PLL 3/8x1/4 | |
| | PLL 6mmx1/8 | PLL 8mmx1/2 | PLL 12mmx1/2 | | | |


CONEXÕES INSTANTÂNEAS

UNIÕES

| UNIÃO RETA | PUC TUBO | | UNIÃO EM "L" | PUL TUBO | |
|---|-------------|----------|--|-------------|----------|
| | MÉTRICO | POLEGADA | | MÉTRICO | POLEGADA |
|  | PUC 4mm | PUC 5/32 |  | PUL 4mm | PUL 5/32 |
| | PUC 6mm | PUC 3/16 | | PUL 6mm | PUL 3/16 |
| | PUC 8mm | PUC 1/4 | | PUL 8mm | PUL 1/4 |
| | PUC 10mm | PUC 5/16 | | PUL 10mm | PUL 5/16 |
| | PUC 12mm | PUC 3/8 | | PUL 12mm | PUL 3/8 |
| | PUC16mm | PUC 1/2 | | PUL16mm | PUL 1/2 |

| UNIÃO EM "T" | PUT TUBO | | UNIÃO EM "Y" | PY TUBO | |
|--|-------------|----------|---|------------|----------|
| | MÉTRICO | POLEGADA | | MÉTRICO | POLEGADA |
|  | PUT 4mm | PUT 5/32 |  | PY 4mm | PY 5/32 |
| | PUT 6mm | PUT 3/16 | | PY 6mm | PY 3/16 |
| | PUT 8mm | PUT 1/4 | | PY 8mm | PY 1/4 |
| | PUT 10mm | PUT 5/16 | | PY 10mm | PY 5/16 |
| | PUT 12mm | PUT 3/8 | | PY 12mm | PY 3/8 |
| | PUT16mm | PUT 1/2 | | | PY 1/2 |



| CRUZETA UNIÃO | PZA TUBO | | UNIÃO P/ PAINEL | PMM TUBO | |
|---|-------------|----------|--|-------------|----------|
| | MÉTRICO | POLEGADA | | MÉTRICO | POLEGADA |
|  | PZA 4mm | PZA 5/32 |  | PMM 4mm | PMM 5/32 |
| | PZA 6mm | PZA 3/16 | | PMM 6mm | PMM 3/16 |
| | PZA 8mm | PZA 1/4 | | PMM 8mm | PMM 1/4 |
| | PZA 10mm | PZA 5/16 | | PMM 10mm | PMM 5/16 |
| | PZA 12mm | PZA 3/8 | | PMM 12mm | PMM 3/8 |
| | | PZA 1/2 | | | PMM 1/2 |



| UNIÃO P/ PAINEL FÊMEA | PMF | | | | | |
|---|------------------------------|--------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (NPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | PMF 4mmx1/8 | PMF 8mmx1/4 | PMF 10mmx3/8 | PMF 5/32x1/8 | PMF 1/4x1/4 | PMF 3/8x1/4 |
| | PMF 4mmx1/4 | PMF 8mmx3/8 | PMF 10mmx1/2 | PMF 3/16x1/8 | PMF 5/16x1/8 | PMF 3/8x3/8 |
| | PMF 6mmx1/8 | PMF 8mmx1/2 | PMF 12mmx1/4 | PMF 3/16x1/4 | PMF 5/16x1/4 | PMF 1/2x3/8 |
| | PMF 6mmx1/4 | PMF 10mmx1/8 | PMF 12mmx3/8 | PMF 1/4x1/8 | PMF 5/16x3/8 | PMF 1/2x1/2 |
| | PMF 6mmx3/8 | PMF 10mmx1/4 | PMF 12mmx1/2 | | | |
| | PMF 8mmx1/8 | | | | | |



CONEXÕES INSTANTÂNEAS

REDUÇÕES

| UNIÃO REDUTORA | PG | | "Y" REDUÇÃO | PW | |
|--|------------------|--------------|--|------------------|-------------|
| | TUBO (ØD1 x ØD2) | | | TUBO (ØD1 x ØD2) | |
|  ØD1 ØD2 | MÉTRICO | POLEGADA |  ØD1 ØD2 | MÉTRICO | POLEGADA |
| | PG 6mmx4mm | PG 3/16x5/32 | | PW 6mmx4mm | PW 1/4x5/32 |
| | PG 8mmx6mm | PG 1/4x5/32 | | PW 8mmx6mm | PW 1/4x3/16 |
| | PG 10mmx6mm | PG 1/4x3/16 | | PW 10mmx8mm | PW 5/16x1/4 |
| | PG 10mmx8mm | PG 5/16x1/4 | | PW 12mmx10mm | PW 3/8x5/16 |
| | PG 12mmx8mm | PG 3/8x5/16 | | PW 3/16x5/32 | PW 1/2x3/8 |
| | PG 12mmx10mm | PG 1/2x3/8 | | | |
| | PG 16mmx12mm | | | | |

| "T" REDUÇÃO CENTRAL | PUG | | REDUÇÃO MEDIDA | PGJ | |
|--|------------------|---------------|---|------------------|---------------|
| | TUBO (ØD1 x ØD2) | | | TUBO (ØD1 x ØD2) | |
|  ØD1 ØD2 ØD1 | MÉTRICO | POLEGADA |  ØD1 ØD2 | MÉTRICO | POLEGADA |
| | PUG 6mmx4mm | PUG 1/4x5/32 | | PGJ 6mmx4mm | PGJ 1/4x5/32 |
| | PUG 8mmx6mm | PUG 5/16x1/4 | | PGJ 8mmx4mm | PGJ 5/16x5/32 |
| | PUG 10mmx8mm | PUG 3/8x5/16 | | PGJ 8mmx6mm | PGJ 5/16x1/4 |
| | PUG 12mmx10mm | PUG 1/2x3/8 | | PGJ 10mmx6mm | PGJ 3/8x1/4 |
| | PUG 16mmx12mm | | | PGJ 10mmx8mm | PGJ 3/8x5/16 |
| | | | | PGJ 12mmx6mm | PGJ 1/2x1/4 |
| | | | | PGJ 12mmx8mm | PGJ 1/2x5/16 |
| | | PGJ 12mmx10mm | PGJ 1/2x3/8 | | |

| TAMPÃO | PP | |
|---|---------|----------|
| | TUBO | |
|  ØD | MÉTRICO | POLEGADA |
| | PP 4mm | PP 5/32 |
| | PP 6mm | PP 3/16 |
| | PP 8mm | PP 1/4 |
| | PP 10mm | PP 5/16 |
| | PP 12mm | PP 3/8 |
| | PP 16mm | PP 1/2 |







CONEXÕES INSTANTÂNEAS

ADAPTADORES DISTRIBUIDORES

| COTOVELO ADAPTADOR | PLJ TUBO | | "Y" ADAPTADOR | PYJ TUBO | |
|--|-------------|----------|--|-------------|----------|
| | MÉTRICO | POLEGADA | | MÉTRICO | POLEGADA |
|  | PLJ 4mm | PLJ 5/32 |  | PYJ 4mm | PYJ 5/32 |
| | PLJ 6mm | PLJ 3/16 | | PYJ 6mm | PYJ 3/16 |
| | PLJ 8mm | PLJ 1/4 | | PYJ 8mm | PYJ 1/4 |
| | PLJ 10mm | PLJ 5/16 | | PYJ 10mm | PYJ 5/16 |
| | PLJ 12mm | PLJ 3/8 | | PYJ 12mm | PYJ 3/8 |
| | | | | PLJ 1/2 | |

| PINO P/ EMENDA | PIJ TUBO x TUBO | | PINO C/ REDUÇÃO | PIG TUBO x TUBO | |
|---|--------------------|----------|---|--------------------|---------------|
| | MÉTRICO | POLEGADA | | MÉTRICO | POLEGADA |
|  | PIJ 4mm | PIJ 5/32 |  | PIG 6mmx4mm | PIG 3/16x5/32 |
| | PIJ 6mm | PIJ 3/16 | | PIG 8mmx6mm | PIG 1/4x5/32 |
| | PIJ 8mm | PIJ 1/4 | | PIG 10mmx8mm | PIG 1/4x3/16 |
| | PIJ 10mm | PIJ 5/16 | | PIG 12mmx10mm | PIG 5/16x1/4 |
| | PIJ 12mm | PIJ 3/8 | | PIG 16mmx12mm | PIG 3/8x5/16 |
| | PIJ 16mm | PIJ 1/2 | | | PIG 1/2x3/8 |

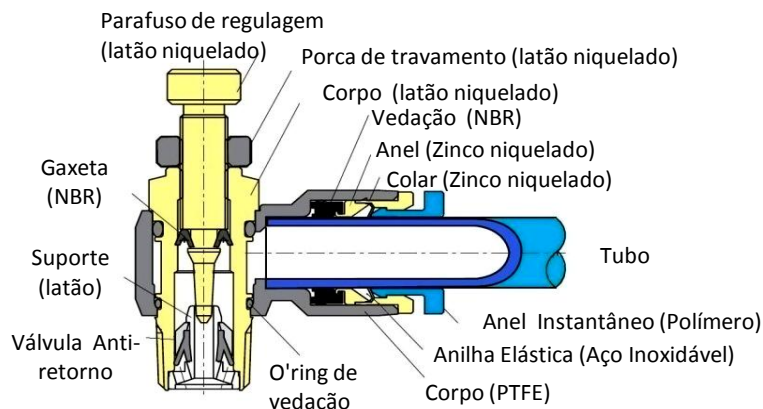
| DISTRIB. MACHO C/ RED. | PKD TUBO x TUBO x ROSCA | | DISTRIBUIDOR UNIÃO | PK TUBO x TUBO | |
|--|----------------------------|------------------|--|-------------------|----------|
| | MÉTRICO | POLEGADA | | MÉTRICO | POLEGADA |
|  | PKD 6mmx4mmx1/8 | PKD 3/16x5/32xN1 |  | PK 4mm | PK 5/32 |
| | PKD 8mmx4mmx1/4 | PKD 1/4x5/32xN1 | | PK 6mm | PK 3/16 |
| | PKD 8mmx6mmx1/4 | PKD 5/16x5/32xN2 | | PK 8mm | PK 1/4 |
| | PKD 10mmx8mmx3/8 | PKD 5/16x3/16xN2 | | | PK 5/16 |
| | | PKD 5/16x1/4xN2 | | | |
| | | PKD 3/8x5/16xN3 | | | |


| DISTR. EMENDA C/ RED. | PKG TUBO x TUBO | | DISTR. EMENDA C/ RED. | PKJ TUBO x TUBO | |
|--|--------------------|---------------|--|--------------------|---------------|
| | MÉTRICO | POLEGADA | | MÉTRICO | POLEGADA |
|  | PKG 6mmx4mm | PKG 3/16x5/32 |  | PKJ 6mmx4mm | PKJ 3/16x5/32 |
| | PKG 8mmx4mm | PKG 1/4x5/32 | | PKJ 8mmx4mm | PKJ 1/4x5/32 |
| | PKG 8mmx6mm | PKG 5/16x5/32 | | PKJ 8mmx6mm | PKJ 5/16x5/32 |
| | PKG 10mmx6mm | PKG 5/16x3/16 | | PKJ 10mmx6mm | PKJ 5/16x3/16 |
| | PKG 10mmx8mm | PKG 5/16x1/4 | | PKJ 10mmx8mm | PKJ 5/16x1/4 |
| | | PKG 3/8x1/4 | | | PKJ 3/8x1/4 |






REGULADORES DE FLUXO

DIAGRAMA ESTRUTURAL



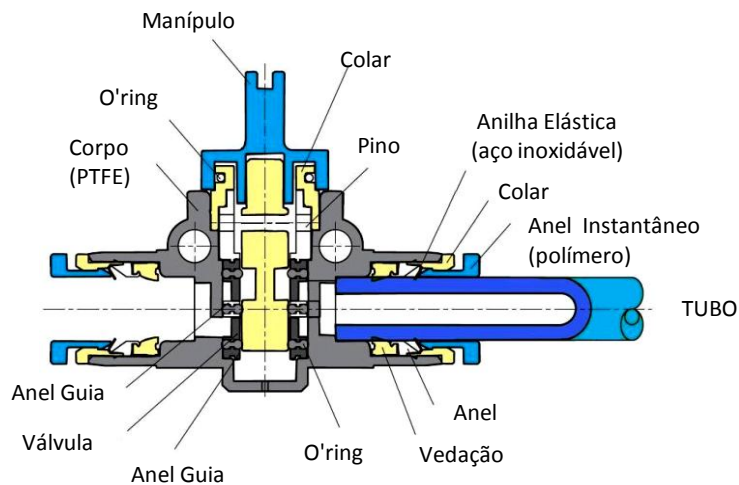
| REGULADOR DE FLUXO NPT | NSE | | | | | |
|---|---------------------------------|-------------|--------------|-------------------------------|--------------|-------------|
| | TUBO (MÉTRICO) x ROSCA (R/BSPT) | | | TUBO (POLEGADA) x ROSCA (NPT) | | |
|  | NSE 4mmx5 | NSE 6mmx1/2 | NSE 10mmx1/8 | NSE 5/32x1/8 | NSE 5/16x1/8 | NSE 1/2x3/8 |
| | NSE 4mmx1/8 | NSE 8mmx1/8 | NSE 10mmx1/4 | NSE 3/16x1/8 | NSE 5/16x1/4 | NSE 1/2x1/2 |
| | NSE 4mmx1/4 | NSE 8mmx1/4 | NSE 10mmx3/8 | NSE 3/16x1/4 | NSE 5/16x3/8 | |
| | NSE 6mmx5 | NSE 8mmx3/8 | NSE 10mmx1/2 | NSE 3/16-3/8 | NSE 5/16x1/2 | |
| | NSE 6mmx1/8 | NSE 8mmx1/2 | NSE 12mmx1/4 | NSE 1/4x1/8 | NSE 3/8x1/4 | |
| | NSE 6mmx1/4 | | NSE 12mmx3/8 | NSE 1/4x1/4 | NSE 3/8x3/8 | |
| | NSE 6mmx3/8 | | NSE 12mmx1/2 | NSE 1/4x3/8 | NSE 3/8x1/2 | |



| REG. FLUXO TUBO X TUBO | NSF TUBO | | REG. FLUXO BSP | NSE-G TUBO MÉTRICO | |
|--|----------|----------|---|--------------------|--------------|
| | MÉTRICO | POLEGADA | | | |
|  | NSF 4mm | NSF 5/32 |  | NSE 4mmx1/8 | NSE 8mmx1/4 |
| | NSF 6mm | NSF 3/16 | | NSE 4mmx1/4 | NSE 10mmx1/8 |
| | NSF 8mm | NSF 1/4 | | NSE 6mmx1/8 | NSE 10mmx1/4 |
| | NSF 10mm | NSF 5/16 | | NSE 6mmx1/4 | NSE 10mmx3/8 |
| | NSF 12mm | NSF 3/8 | | NSE 6mmx3/8 | NSE 10mmx1/2 |
| | | NSF 1/2 | | NSE 6mmx1/2 | NSE 12mmx1/4 |
| | | | | NSE 8mmx1/8 | NSE 12mmx3/8 |
| | | | | NSE 8mmx1/4 | NSE 12mmx1/2 |
| | | | | NSE 8mmx3/8 | |
| | | | | | |



| REG. DE FLUXO FEMEA ROSCA X ROSCA | CÓDIGO | ROSCA |
|---|--------|-------|
|  | ASC-06 | 1/8" |
| | ASC-08 | 1/4" |
| | ASC-10 | 3/8" |
| | ASC-15 | 1/2" |
| | | |

VÁLVULAS MANUAIS

DIAGRAMA ESTRUTURAL





| VÁLVULA TUBO X TUBO | HVFF | VÁLVULA ROSCA X ROSCA | HVSS |
|---|----------------|--|--------------|
| | TUBO | | ROSCA |
|  | MÉTRICO |  | NPT |
| | HVFF 6mmx6mm | | HVSS 1/8x1/8 |
| | HVFF 8mmx6mm | | HVSS 1/4x1/8 |
| | HVFF 8mmx8mm | | HVSS 1/4x1/4 |
| | HVFF 10mmx8mm | | HVSS 3/8x1/4 |
| | HVFF 10mmx10mm | | HVSS 3/8x3/8 |
| | HVFF 12mmx10mm | | HVSS 1/2x3/8 |
| HVFF 12mmx12mm | HVSS 1/2x1/2 | | |

| VÁLVULA ROSCA X TUBO | HVSF | | VÁLVULA TUBO X ROSCA | HVFS | |
|--|--------------------|---------------|--|--------------------|---------------|
| | TUBO | | | TUBO | |
|  | ROSCA (NPT) x TUBO | |  | TUBO X ROSCA (NPT) | |
| | HVSF 1/8x6mm | HVSF 1/4x10mm | | HVFS 6mmx1/8 | HVFS 10mmx1/4 |
| | HVSF 1/4x6mm | HVSF 3/8x10mm | | HVFS 6mmx1/4 | HVFS 10mmx3/8 |
| | HVSF 3/8x6mm | HVSF 1/2x10mm | | HVFS 6mmx3/8 | HVFS 10mmx1/2 |
| | HVSF 1/8x8mm | HVSF 1/4x12mm | | HVFS 8mmx1/8 | HVFS 12mmx1/4 |
| | HVSF 1/4x8mm | HVSF 3/8x12mm | | HVFS 8mmx1/4 | HVFS 12mmx3/8 |
| | HVSF 3/8x8mm | HVSF 1/2x12mm | | HVFS 8mmx3/8 | HVFS 12mmx1/2 |



SILENCIADORES TUBOS

| SILENCIADOR DE LATÃO | BSL | SILENCIADOR DE LATÃO MINI | BSLM |
|---|--------------|---|--------------|
| | ROSCA (BSPT) | | ROSCA (BSPT) |
|  | BSL M5 |  | BSLM 1/8 |
| | BSL 1/8 | | BSLM 1/4 |
| | BSL 1/4 | | BSLM 3/8 |
| | BSL 3/8 | | BSLM 1/2 |
| | BSL 1/2 | | BSLM 3/4 |
| | BSL 3/4 | | |

| REGULADOR DE EXAUSTÃO | BESL | SILENCIADOR PLÁSTICO | PSL |
|---|--------------|---|--------------|
| | ROSCA (BSPT) | | ROSCA (BSPT) |
|  | BESL 1/8 |  | PSL 1/8 |
| | BESL 1/4 | | PSL 1/4 |
| | BESL 3/8 | | PSL 3/8 |
| | BESL 1/2 | | PSL 1/2 |
| | BESL 3/4 | | PSL 3/4 |

| TUBOS DE POLIURETANO | CÓDIGO | MEDIDA |
|---|----------|---------------|
|  | PU - 4 | Ø 4,0 X 2,5 |
| | PU - 6 | Ø 6,0 X 4,0 |
| | PU - 8 | Ø 8,0 X 5,5 |
| | PU - 10 | Ø 10,0 X 7,0 |
| | PU - 12 | Ø 12,0 X 8,0 |
| | PU - 14 | Ø 14,0 X 11,0 |
| | PU - 16 | Ø 16,0 X 11,0 |
| | PU - 1/4 | Ø 6,35 X 4,35 |
| | PU - 3/8 | Ø 9,53 X 6,35 |
| | PU - 1/2 | Ø 12,7 X 9,53 |

Pressão Máx.: 10 bar
Temp.: -35 a 60 °C