



Catálogo de Terminais e Adaptadores Hidráulicos Transpower



TERMINAIS
STANDARD



TERMINAIS
INTERLOCK



ADAPTADORES



ACESSÓRIOS

SUPRIR

APRESENTAÇÃO



Desde 1990 com uma ampla gama de produtos composta por correias de transmissão lisas e dentadas, terminais e adaptadores hidráulicos, válvulas, lençóis de borracha, mangueiras hidráulicas, industriais e PVC, temos atendido a um parque de máquinas e equipamentos diversificado, com grande conteúdo tecnológico e submetido às mais duras provas de resistência e durabilidade.

Nossa história é baseada no estabelecimento de parcerias consolidadas fornecendo produtos de elevado padrão de qualidade, compromisso com atendimento a nossos clientes dentro dos prazos requeridos e total garantia e assistência técnica aos nossos produtos. Nossa meta é garantir sempre o alto padrão de serviço pré e pós-venda.

Presente nos segmentos de máquinas e implementos agrícolas, equipamentos industriais, eletrodomésticos e em uma ampla gama de aplicações, os produtos TRANSPower possuem uma rede de distribuição e representantes comerciais que atingem todo território nacional. Essa é nossa forma de contribuir para o crescimento sustentável de nossos parceiros em todos os estados do Brasil.

Terminais Standard

4	CAPA 1SN / 2SN / R17 CAPA R12 / 4SH	21	FÊMEA GIRATÓRIA BSP O'RING - (PARALELA) CURVA 90° FÊMEA GIRATÓRIA BSP O'RING - (PARALELA)	37	CURVA 90° BANJO MÉTRICO FLANGE CÓDIGO 61 - 3000 PSI
5	CAPA R12 / 4 SP- M'FIT MACHO FIXO UNF O'RING - (PARALELO)	22	MACHO FIXO ORFS	38	CURVA 22° FLANGE CÓDIGO 61 - 3000 PSI CURVA 30° FLANGE CÓDIGO 61 - 3000 PSI
6	MACHO FIXO JIC 37° / SAE 45°	23	FÊMEA GIRATÓRIA RETA ORFS	39	CURVA 45° FLANGE CÓDIGO 61 - 3000 PSI CURVA 60° FLANGE CÓDIGO 61 - 3000 PSI
7	FÊMEA GIRATÓRIA JIC 37° / SAE 45° - SEXTAVADA	24	CURVA 45° FÊMEA GIRATÓRIA ORFS	40	CURVA 67° FLANGE CÓDIGO 61 - 3000 PSI CURVA 90° FLANGE CÓDIGO 61 - 3000 PSI
8	FÊMEA GIRATÓRIA JIC 37° / SAE 45°	25	CURVA 90° FÊMEA GIRATÓRIA ORFS	41	CURVA 90° LONGA FLANGE CÓDIGO 61 - 3000 PSI FLANGE CÓDIGO 62 - 6000 PSI
9	CURVA 45° FÊMEA GIRATÓRIA JIC 37° / SAE 45°	26	CURVA 90° LONGA FÊMEA GIRATÓRIA ORFS	42	CURVA 45° FLANGE CÓDIGO 62 - 6000 PSI CURVA 90° FLANGE CÓDIGO 62 - 6000 PSI
10	CURVA 90° FÊMEA GIRATÓRIA JIC 37° / SAE 45°	27	MACHO FIXO MÉTRICO	43	CURVA 90° LONGA FLANGE CÓDIGO 62 - 6000 PSI FLANGE RETA CÓDIGO 62 - 6000 PSI - SUPERCAT
11	CURVA 90° LONGA FÊMEA GIRATÓRIA JIC 37° / SAE 45°	28	FÊMEA GIRATÓRIA MÉTRICA DKO	44	CURVA 45° FLANGE CÓDIGO 62 - 6000 PSI - SUPERCAT CURVA 90° FLANGE CÓDIGO 62 - 6000 PSI - SUPERCAT
12	MACHO FIXO NPTF	29	CURVA 45° FÊMEA GIRATÓRIA MÉTRICA DKO	45	CURVA 90° LONGA FLANGE CÓDIGO 62 - 6000 PSI - SUPERCAT SOS - SALVA VIDAS
13	FÊMEA GIRATÓRIA BSP BOLEADA - SEXTAVADA	30	CURVA 90° FÊMEA GIRATÓRIA MÉTRICA DKO	46	EMENDA
14	FÊMEA GIRATÓRIA BSP BOLEADA	31	FÊMEA GIRATÓRIA MÉTRICA JIS 30° KOMATSU CURVA 90° FÊMEA GIRATÓRIA MÉTRICA JIS 30° KOMATSU		
15	CURVA 45° FÊMEA GIRATÓRIA BSP BOLEADA	32	FÊMEA GIRATÓRIA MÉTRICA BOLEADA		
16	CURVA 90° FÊMEA GIRATÓRIA BSP BOLEADA	33	CURVA 45° FÊMEA GIRATÓRIA MÉTRICA BOLEADA		
17	FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC) - SEXTAVADA	34	CURVA 90° FÊMEA GIRATÓRIA MÉTRICA BOLEADA		
18	FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC)	35	FÊMEA GIRATÓRIA MÉTRICA O'RING - (PARALELA) CURVA 90° FÊMEA GIRATÓRIA MÉTRICA O'RING - (PARALELA)		
19	CURVA 45° FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC)	36	BANJO MÉTRICO CURVA 45° BANJO MÉTRICO		
20	CURVA 90° FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC)				

Terminais Interlock

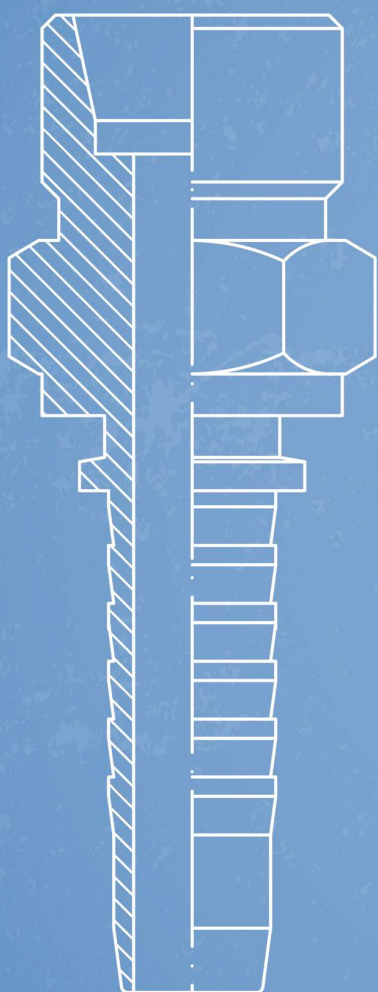
48	CAPA 4SH / R13 / R15 MACHO FIXO JIC 37° FÊMEA GIRATÓRIA JIC 37° CURVA 45° FÊMEA GIRATÓRIA JIC 37°	52	CURVA 90° FÊMEA GIRATÓRIA MÉTRICA DKO FLANGE RETA CÓDIGO 61 - 3000 PSI
49	CURVA 90° FÊMEA GIRATÓRIA JIC 37° MACHO FIXO NPTF FÊMEA GIRATÓRIA RETA ORFS	53	CURVA 45° FLANGE CÓDIGO 61 - 3000 PSI CURVA 90° FLANGE CÓDIGO 61 - 3000 PSI
50	CURVA 45° FÊMEA GIRATÓRIA ORFS CURVA 90° FÊMEA GIRATÓRIA ORFS MACHO FIXO MÉTRICO	54	FLANGE RETA CÓDIGO 62 - 6000 PSI CURVA 45° CÓDIGO 62 - 6000 PSI CURVA 90° CÓDIGO 62 - 6000 PSI
51	FÊMEA GIRATÓRIA MÉTRICA DKO CURVA 45° FÊMEA GIRATÓRIA MÉTRICA DKO	55	FLANGE RETA CÓDIGO 62 - 9000 PSI - SUPERCAT CURVA 45° FLANGE Cód. 62 - 6000 PSI - SUPERCAT
		56	CURVA 90° FLANGE Cód. 62 - 6000 PSI - SUPERCAT

Adaptadores

58	MACHO FIXO NPT x MACHO FIXO JIC 37°	72	COTOVELO 45° MACHO FIXO JIC 37° x FÊMEA GIRATÓRIA JIC 37° COTOVELO 45° FLANGE CÓDIGO 61 x MACHO FIXO JIC 37°	85	TAMPÃO FÊMEA FIXA NPT TAMPÃO MACHO FIXO O'RING (PARALELO)
59	MACHO FIXO UNF O'RING x MACHO FIXO JIC 37°	73	COTOVELO 45° FLANGE CÓDIGO 62 x MACHO FIXO JIC 37° COTOVELO 90° MACHO FIXO NPT x MACHO FIXO JIC 37°	86	TAMPÃO MACHO FIXO JIC 37° TAMPÃO FÊMEA FIXA JIC 37°
60	MACHO FIXO JIC 37° x MACHO FIXO JIC 37°	74	COTOVELO 90° MACHO FIXO O'RING AJUSTÁVEL x MACHO FIXO JIC 37°	87	TAMPÃO MACHO FIXO ORFS TAMPÃO FÊMEA FIXA ORFS
61	MACHO FIXO JIC 37° x MACHO FIXO JIC 37° PAINEL MACHO FIXO NPT x MACHO FIXO NPT	75	COTOVELO 90° MACHO FIXO JIC 37° x MACHO FIXO JIC 37° COTOVELO 90° MACHO FIXO NPT x MACHO FIXO NPT		
62	MACHO FIXO MÉTRICO O'RING x MACHO FIXO JIC 37° MACHO FIXO ORFS x MACHO FIXO JIC 37°	76	COTOVELO 90° MACHO FIXO MÉTRICO x MACHO FIXO MÉTRICO COTOVELO 90° MACHO FIXO MÉTRICO x FÊMEA GIRATÓRIA MÉTRICA "DKO"		
63	MACHO BSP O'RING x MACHO FIXO JIC 37°	77	COTOVELO 90° MACHO FIXO NPT x MACHO FIXO MÉTRICO		
64	MACHO FIXO MÉTRICO x MACHO FIXO MÉTRICO	78	COTOVELO 90° MACHO FIXO JIC 37° x FÊMEA GIRATÓRIA JIC 37°		
65	MACHO FIXO NPT x MACHO FIXO MÉTRICO	79	COTOVELO 90° FÊMEA FIXA NPT x FÊMEA FIXA NPT COTOVELO 90° FLANGE CÓDIGO 61 x MACHO FIXO JIC 37°		
66	MACHO FIXO JIC 37° x FÊMEA GIRATÓRIA JIC 37° FÊMEA FIXA NPT x FÊMEA FIXA NPT	80	COTOVELO 90° FLANGE CÓDIGO 62 x MACHO FIXO JIC 37° TEE MACHO FIXO JIC 37°		
67	REDUTOR MACHO FIXO NPT x FÊMEA FIXA NPT PROLONGADOR MACHO FIXO NPT x FÊMEA FIXA NPT	81	TEE MACHO FIXO JIC 37° x FÊMEA GIRATÓRIA JIC 37° CENTRAL TEE MACHO FIXO JIC 37° x FÊMEA GIRATÓRIA JIC 37° LATERAL		
68	FÊMEA FIXA NPT x MACHO FIXO JIC 37° FLANGE CÓDIGO 61 x MACHO FIXO JIC 37°	82	TEE MACHO FIXO JIC 37° x MACHO FIXO NPT LATERAL TEE FÊMEA FIXA NPT		
69	FLANGE CÓDIGO 62 x MACHO FIXO JIC 37° COTOVELO 45° MACHO FIXO NPT x MACHO FIXO JIC 37°	83	TEE MACHO FIXO NPT TEE MACHO FIXO MÉTRICO		
70	COTOVELO 45° MACHO FIXO O'RING AJUSTÁVEL x MACHO FIXO JIC 37°	84	TEE MACHO FIXO MÉTRICO x FÊMEA GIRATÓRIA MÉTRICA DKO CENTRAL TAMPÃO MACHO FIXO NPT		
71	COTOVELO 45° MACHO FIXO NPT x MACHO FIXO NPT COTOVELO 45° FÊMEA FIXA NPT x FÊMEA GIRATÓRIA JIC 37°				

Acessórios

89	FLANGE BI-PARTIDA Cód.61 - 3000 PSI FLANGE BI-PARTIDA Cód.62 - 6000 PSI FLANGE BI-PARTIDA Cód.62 - 9000 PSI	90	PORCA MÉTRICA PARA TUBO ANILHA PARA TUBO
		91	FÊMEA FIXA



TERMINAIS
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CAPA 1 SN/2 SN/R17

CÓDIGO	MANGUEIRA
TSPCP-04	1/4
TSPCP-06	3/8
TSPCP-08	1/2
TSPCP-10	5/8
TSPCP-12	3/4
TSPCP-16	1"
TSPCP-20	1.1/4
TSPCP-24	1.1/2
TSPCP-32	2"



CAPA R12/4SH

CÓDIGO	MANGUEIRA
TSPCP4-06	3/8
TSPCP4-08	1/2
TSPCP4-10	5/8
TSPCP4-12	3/4
TSPCP4-16	1"
TSPCP4-20	1.1/4
TSPCP4-24	1.1/2
TSPCP4-32	2"



CAPA R12 / 4SP - M'FIT



CÓDIGO	MANGUEIRA
TSPCP4M-06	3/8
TSPCP4M-08	1/2
TSPCP4M-10	5/8
TSPCP4M-12	3/4
TSPCP4M-16	1"
TSPCP4M-20	1.1/4
TSPCP4M-24	1.1/2
TSPCP4M-32	2"

MACHO FIXO UNF O'RING - PARALELO



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPMO-04-04	7/16 - 20	1/4
TSPMO-05-04	1/2 - 20	1/4
TSPMO-06-04	9/16 - 18	1/4
TSPMO-06-06	9/16 - 18	3/8
TSPMO-08-06	3/4 - 16	3/8
TSPMO-08-08	3/4 - 16	1/2
TSPMO-10-06	7/8 - 14	3/8
TSPMO-10-08	7/8 - 14	1/2
TSPMO-10-10	7/8 - 14	5/8
TSPMO-12-08	1.1/16 - 12	1/2
TSPMO-12-10	1.1/16 - 12	5/8
TSPMO-12-12	1.1/16 - 12	3/4
TSPMO-14-12	1.3/16 - 12	3/4
TSPMO-16-12	1.5/16 - 12	3/4
TSPMO-16-16	1.5/16 - 12	1"
TSPMO-20-16	1.5/8 - 12	1"
TSPMO-20-20	1.5/8 - 12	1.1/4
TSPMO-20-24	1.5/8 - 12	1.1/2
TSPMO-24-20	1.7/8 - 12	1.1/4
TSPMO-24-24	1.7/8 - 12	1.1/2
TSPMO-32-32	2.1/2 - 12	2"

MACHO FIXO JIC 37° / SAE 45°
NORMA SAE J514 - JIC 37°
NORMA SAE J512 - SAE 45°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPMJ-04-04	7/16 - 20	1/4
TSPMJ-04-06	7/16 - 20	3/8
TSPMJ-05-04	1/2 - 20	1/4
TSPMJ-05-06	1/2 - 20	3/8
TSPMJ-06-04	9/16 - 18	1/4
TSPMJ-06-06	9/16 - 18	3/8
TSPMJ-06-08	9/16 - 18	1/2
TSPMJ-08-04	3/4 - 16	1/4
TSPMJ-08-06	3/4 - 16	3/8
TSPMJ-08-08	3/4 - 16	1/2
TSPMJ-08-10	3/4 - 16	5/8
TSPMJ-08-12	3/4 - 16	3/4
TSPMJ-10-06	7/8 - 14	3/8
TSPMJ-10-08	7/8 - 14	1/2
TSPMJ-10-10	7/8 - 14	5/8
TSPMJ-10-12	7/8 - 14	3/4
TSPMJ-12-08	1.1/16 - 12	1/2
TSPMJ-12-10	1.1/16 - 12	5/8
TSPMJ-12-12	1.1/16 - 12	3/4
TSPMJ-12-16	1.1/16 - 12	1"
TSPMJ-14-12	1.3/16 - 12	3/4
TSPMJ-16-12	1.5/16 - 12	3/4
TSPMJ-16-16	1.5/16 - 12	1"
TSPMJ-16-20	1.5/16 - 12	1.1/4
TSPMJ-20-16	1.5/8 - 12	1"
TSPMJ-20-20	1.5/8 - 12	1.1/4
TSPMJ-20-24	1.5/8 - 12	1.1/2
TSPMJ-24-20	1.7/18 - 12	1.1/4
TSPMJ-24-24	1.7/18 - 12	1.1/2
TSPMJ-32-32	2.1/2 - 12	2"
TSPMS-06-06	5/8 - 18	3/8
TSPMS-12-12	1.1/16 - 14	3/4

FÊMEA GIRATÓRIA JIC 37°/ SAE 45° SEXTAVADA

NORMA SAE J514-JIC 37°
NORMA SAE J512-SAE45°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJ-S-04-04	7/16 - 20	1/4
TSPFJ-S-04-06	7/16 - 20	3/8
TSPFJ-S-05-04	1/2 - 20	1/4
TSPFJ-S-05-06	1/2 - 20	3/8
TSPFJ-S-06-04	9/16 - 18	1/4
TSPFJ-S-06-06	9/16 - 18	3/8
TSPFJ-S-06-08	9/16 - 18	1/2
TSPFJ-S-08-04	3/4 - 16	1/4
TSPFJ-S-08-06	3/4 - 16	3/8
TSPFJ-S-08-08	3/4 - 16	1/2
TSPFJ-S-08-10	3/4 - 16	5/8
TSPFJ-S-08-12	3/4 - 16	3/4
TSPFJ-S-10-06	7/8 - 14	3/8
TSPFJ-S-10-08	7/8 - 14	1/2
TSPFJ-S-10-10	7/8 - 14	5/8
TSPFJ-S-10-12	7/8 - 14	3/4
TSPFJ-S-12-08	1.1/16 - 12	1/2
TSPFJ-S-12-10	1.1/16 - 12	5/8
TSPFJ-S-12-12	1.1/16 - 12	3/4
TSPFJ-S-12-16	1.1/16 - 12	1"
TSPFJ-S-14-12	1.3/16 - 12	3/4
TSPFJ-S-16-10	1.5/16 - 12	5/8
TSPFJ-S-16-12	1.5/16 - 12	3/4
TSPFJ-S-16-16	1.5/16 - 12	1"
TSPFJ-S-16-20	1.5/16 - 12	1.1/4
TSPFJ-S-20-16	1.5/8 - 12	1"
TSPFJ-S-20-20	1.5/8 - 12	1.1/4
TSPFJ-S-20-24	1.5/8 - 12	1.1/2
TSPFJ-S-24-20	1.7/18 - 12	1.1/4
TSPFJ-S-24-24	1.7/18 - 12	1.1/2
TSPFJ-S-32-32	2.1/2 - 12	2"
TSPFS-S-06-06	5/8 - 18	3/8
TSPFS-S-12-12	1.1/16 - 14	3/4

FÊMEA GIRATÓRIA JIC 37° / SAE 45°
 NORMA SAE J514 - JIC 37°
 NORMA SAE J512 - SAE 45°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJ-04-04	7/16 - 20	1/4
TSPFJ-04-06	7/16 - 20	3/8
TSPFJ-05-04	1/2 - 20	1/4
TSPFJ-05-06	1/2 - 20	3/8
TSPFJ-06-04	9/16 - 18	1/4
TSPFJ-06-06	9/16 - 18	3/8
TSPFJ-06-08	9/16 - 18	1/2
TSPFJ-08-04	3/4 - 16	1/4
TSPFJ-08-06	3/4 - 16	3/8
TSPFJ-08-08	3/4 - 16	1/2
TSPFJ-08-10	3/4 - 16	5/8
TSPFJ-08-12	3/4 - 16	3/4
TSPFJ-10-06	7/8 - 14	3/8
TSPFJ-10-08	7/8 - 14	1/2
TSPFJ-10-10	7/8 - 14	5/8
TSPFJ-10-12	7/8 - 14	3/4
TSPFJ-12-08	1.1/16 - 12	1/2
TSPFJ-12-10	1.1/16 - 12	5/8
TSPFJ-12-12	1.1/16 - 12	3/4
TSPFJ-12-16	1.1/16 - 12	1"
TSPFJ-14-12	1.3/16 - 12	3/4
TSPFJ-16-12	1.5/16 - 12	3/4
TSPFJ-16-16	1.5/16 - 12	1"
TSPFJ-16-20	1.5/16 - 12	1.1/4
TSPFJ-20-16	1.5/8 - 12	1"
TSPFJ-20-20	1.5/8 - 12	1.1/4
TSPFJ-20-24	1.5/8 - 12	1.1/2
TSPFJ-24-20	1.7/8 - 12	1.1/4
TSPFJ-24-24	1.7/8 - 12	1.1/2
TSPFJ-32-32	2.1/2 - 12	2"
TSPFS-06-06	5/8 - 18	3/8
TSPFS-12-12	1.1/16 - 14	3/4

CURVA 45° FÊMEA GIRATÓRIA JIC 37°/ SAE 45°
 NORMA SAE J514-JIC 37°
 NORMA SAE J512-SAE45°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJ45-04-04	7/16 - 20	1/4
TSPFJ45-04-06	7/16 - 20	3/8
TSPFJ45-05-04	1/2 - 20	1/4
TSPFJ45-05-06	1/2 - 20	3/8
TSPFJ45-06-04	9/16 - 18	1/4
TSPFJ45-06-06	9/16 - 18	3/8
TSPFJ45-06-08	9/16 - 18	1/2
TSPFJ45-08-04	3/4 - 16	1/4
TSPFJ45-08-06	3/4 - 16	3/8
TSPFJ45-08-08	3/4 - 16	1/2
TSPFJ45-08-10	3/4 - 16	5/8
TSPFJ45-08-12	3/4 - 16	3/4
TSPFJ45-10-06	7/8 - 14	3/8
TSPFJ45-10-08	7/8 - 14	1/2
TSPFJ45-10-10	7/8 - 14	5/8
TSPFJ45-10-12	7/8 - 14	3/4
TSPFJ45-12-08	1.1/16 - 12	1/2
TSPFJ45-12-10	1.1/16 - 12	5/8
TSPFJ45-12-12	1.1/16 - 12	3/4
TSPFJ45-12-16	1.1/16 - 12	1"
TSPFJ45-14-12	1.3/16 - 12	3/4
TSPFJ45-16-12	1.5/16 - 12	3/4
TSPFJ45-16-16	1.5/16 - 12	1"
TSPFJ45-16-20	1.5/16 - 12	1.1/4
TSPFJ45-20-16	1.5/8 - 12	1"
TSPFJ45-20-20	1.5/8 - 12	1.1/4
TSPFJ45-20-24	1.5/8 - 12	1.1/2
TSPFJ45-24-20	1.7/8 - 12	1.1/4
TSPFJ45-24-24	1.7/8 - 12	1.1/2
TSPFJ45-32-32	2.1/2 - 12	2"
TSPFS45-06-06	5/8 - 18	3/8
TSPFS45-12-12	1.1/16 - 14	3/4

CURVA 90° FÊMEA GIRATÓRIA JIC 37° / SAE 45°
 NORMA SAE J514 - JIC 37°
 NORMA SAE J512 - SAE 45°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJ90-04-04	7/16 - 20	1/4
TSPFJ90-04-06	7/16 - 20	3/8
TSPFJ90-05-04	1/2 - 20	1/4
TSPFJ90-05-06	1/2 - 20	3/8
TSPFJ90-06-04	9/16 - 18	1/4
TSPFJ90-06-06	9/16 - 18	3/8
TSPFJ90-06-08	9/16 - 18	1/2
TSPFJ90-08-04	3/4 - 16	1/4
TSPFJ90-08-06	3/4 - 16	3/8
TSPFJ90-08-08	3/4 - 16	1/2
TSPFJ90-08-10	3/4 - 16	5/8
TSPFJ90-08-12	3/4 - 16	3/4
TSPFJ90-10-06	7/8 - 14	3/8
TSPFJ90-10-08	7/8 - 14	1/2
TSPFJ90-10-10	7/8 - 14	5/8
TSPFJ90-10-12	7/8 - 14	3/4
TSPFJ90-12-08	1.1/16 - 12	1/2
TSPFJ90-12-10	1.1/16 - 12	5/8
TSPFJ90-12-12	1.1/16 - 12	3/4
TSPFJ90-12-16	1.1/16 - 12	1"
TSPFJ90-14-12	1.3/16 - 12	3/4
TSPFJ90-16-12	1.5/16 - 12	3/4
TSPFJ90-16-16	1.5/16 - 12	1"
TSPFJ90-16-20	1.5/16 - 12	1.1/4
TSPFJ90-20-16	1.5/8 - 12	1"
TSPFJ90-20-20	1.5/8 - 12	1.1/4
TSPFJ90-20-24	1.5/8 - 12	1.1/2
TSPFJ90-24-20	1.7/8 - 12	1.1/4
TSPFJ90-24-24	1.7/8 - 12	1.1/2
TSPFJ90-32-32	2.1/2 - 12	2"
TSPFS90-06-06	5/8 - 18	3/8
TSPFS90-12-12	1.1/16 - 14	3/4

CURVA 90° LONGA FÊMEA GIRATÓRIA JIC 37°/SAE 45°
 NORMA SAE J514-JIC 37°
 NORMA SAE J512-SAE45°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJ90L-04-04	7/16 - 20	1/4
TSPFJ90L-04-06	7/16 - 20	3/8
TSPFJ90L-05-04	1/2 - 20	1/4
TSPFJ90L-05-06	1/2 - 20	3/8
TSPFJ90L-06-04	9/16 - 18	1/4
TSPFJ90L-06-06	9/16 - 18	3/8
TSPFJ90L-06-08	9/16 - 18	1/2
TSPFJ90L-08-04	3/4 - 16	1/4
TSPFJ90L-08-06	3/4 - 16	3/8
TSPFJ90L-08-08	3/4 - 16	1/2
TSPFJ90L-08-10	3/4 - 16	5/8
TSPFJ90L-08-12	3/4 - 16	3/4
TSPFJ90L-10-06	7/8 - 14	3/8
TSPFJ90L-10-08	7/8 - 14	1/2
TSPFJ90L-10-10	7/8 - 14	5/8
TSPFJ90L-10-12	7/8 - 14	3/4
TSPFJ90L-12-08	1.1/16 - 12	1/2
TSPFJ90L-12-10	1.1/16 - 12	5/8
TSPFJ90L-12-12	1.1/16 - 12	3/4
TSPFJ90L-12-16	1.1/16 - 12	1"
TSPFJ90L-14-12	1.3/16 - 12	3/4
TSPFJ90L-16-12	1.5/16 - 12	3/4
TSPFJ90L-16-16	1.5/16 - 12	1"
TSPFJ90L-16-20	1.5/16 - 12	1.1/4
TSPFJ90L-20-16	1.5/8 - 12	1"
TSPFJ90L-20-20	1.5/8 - 12	1.1/4
TSPFJ90L-20-24	1.5/8 - 12	1.1/2
TSPFJ90L-24-20	1.7/8 - 12	1.1/4
TSPFJ90L-24-24	1.7/8 - 12	1.1/2
TSPFJ90L-32-32	2.1/2 - 12	2"
TSPFS90L-06-06	5/8 - 18	3/8
TSPFS90L-12-12	1.1/16 - 14	3/4

MACHO FIXO NPTF

NORMA SAE J476



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPMN-02-04	1/8 - 27	1/4
TSPMN-04-04	1/4 - 18	1/4
TSPMN-04-06	1/4 - 18	3/8
TSPMN-06-04	3/8 - 18	1/4
TSPMN-06-06	3/8 - 18	3/8
TSPMN-06-08	3/8 - 18	1/2
TSPMN-08-04	1/2 - 14	1/4
TSPMN-08-06	1/2 - 14	3/8
TSPMN-08-08	1/2 - 14	1/2
TSPMN-08-10	1/2 - 14	5/8
TSPMN-08-12	1/2 - 14	3/4
TSPMN-10-08	5/8 - 14	1/2
TSPMN-10-10	5/8 - 14	5/8
TSPMN-12-08	3/4 - 14	1/2
TSPMN-12-10	3/4 - 14	5/8
TSPMN-12-12	3/4 - 14	3/4
TSPMN-12-16	3/4 - 14	1"
TSPMN-16-10	1" 11.1/2	5/8
TSPMN-16-12	1" 11.1/2	3/4
TSPMN-16-16	1" 11.1/2	1"
TSPMN-20-16	1.1/4 - 11.1/2	1"
TSPMN-20-20	1.1/4 - 11.1/2	1.1/4
TSPMN-20-24	1.1/4 - 11.1/2	1.1/2
TSPMN-24-20	1.1/2 - 11.1/2	1.1.4
TSPMN-24-24	1.1/2 - 11.1/2	1.1/2
TSPMN-32-24	2" 11.1/2	1.1/2
TSPMN-32-32	2" 11.1/2	2"

FÊMEA GIRATÓRIA BSP BOLEADA - SEXTAVADA NORMA BS5200



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBB-S-02-04	1/8 - 28	1/4
TSPFBB-S-04-04	1/4 - 19	1/4
TSPFBB-S-04-06	1/4 - 19	3/8
TSPFBB-S-06-04	3/8 - 19	1/4
TSPFBB-S-06-06	3/8 - 19	3/8
TSPFBB-S-06-08	3/8 - 19	1/2
TSPFBB-S-08-06	1/2 - 14	3/8
TSPFBB-S-08-08	1/2 - 14	1/2
TSPFBB-S-08-10	1/2 - 14	5/8
TSPFBB-S-10-08	5/8 - 14	1/2
TSPFBB-S-10-10	5/8 - 14	5/8
TSPFBB-S-12-08	3/4 - 14	1/2
TSPFBB-S-12-10	3/4 - 14	5/8
TSPFBB-S-12-12	3/4 - 14	3/4
TSPFBB-S-12-16	3/4 - 14	1"
TSPFBB-S-16-12	1" - 11	3/4
TSPFBB-S-16-16	1" - 11	1"
TSPFBB-S-20-16	1.1/4 - 11	1"
TSPFBB-S-20-20	1.1/4 - 11	1.1/4
TSPFBB-S-20-24	1.1/4 - 11	1.1/2
TSPFBB-S-24-20	1.1/2 - 11	1.1/4
TSPFBB-S-24-24	1.1/2 - 11	1.1/2
TSPFBB-S-32-32	2" - 11	2"

FÊMEA GIRATÓRIA BSP BOLEADA NORMA BS5200



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBB-02-04	1/8 - 28	1/4
TSPFBB-04-04	1/4 - 19	1/4
TSPFBB-04-06	1/4 - 19	3/8
TSPFBB-06-04	3/8 - 19	1/4
TSPFBB-06-06	3/8 - 19	3/8
TSPFBB-06-08	3/8 - 19	1/2
TSPFBB-08-06	1/2 - 14	3/8
TSPFBB-08-08	1/2 - 14	1/2
TSPFBB-08-10	1/2 - 14	5/8
TSPFBB-10-08	5/8 - 14	1/2
TSPFBB-10-10	5/8 - 14	5/8
TSPFBB-12-08	3/4 - 14	1/2
TSPFBB-12-10	3/4 - 14	5/8
TSPFBB-12-12	3/4 - 14	3/4
TSPFBB-12-16	3/4 - 14	1"
TSPFBB-16-12	1" - 11	3/4
TSPFBB-16-16	1" - 11	1"
TSPFBB-20-16	1.1/4 - 11	1"
TSPFBB-20-20	1.1/4 - 11	1.1/4
TSPFBB-20-24	1.1/4 - 11	1.1/2
TSPFBB-24-20	1.1/2 - 11	1.1/4
TSPFBB-24-24	1.1/2 - 11	1.1/2
TSPFBB-32-32	2" - 11	2"

CURVA 45° FÊMEA GIRATÓRIA BSP BOLEADA NORMA BS5200



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBB45-02-04	1/8 - 28	1/4
TSPFBB45-04-04	1/4 - 19	1/4
TSPFBB45-04-06	1/4 - 19	3/8
TSPFBB45-06-04	3/8 - 19	1/4
TSPFBB45-06-06	3/8 - 19	3/8
TSPFBB45-06-08	3/8 - 19	1/2
TSPFBB45-08-06	1/2 - 14	3/8
TSPFBB45-08-08	1/2 - 14	1/2
TSPFBB45-08-10	1/2 - 14	5/8
TSPFBB45-10-08	5/8 - 14	1/2
TSPFBB45-10-10	5/8 - 14	5/8
TSPFBB45-12-08	3/4 - 14	1/2
TSPFBB45-12-10	3/4 - 14	5/8
TSPFBB45-12-12	3/4 - 14	3/4
TSPFBB45-12-16	3/4 - 14	1"
TSPFBB45-16-12	1" - 11	3/4
TSPFBB45-16-16	1" - 11	1"
TSPFBB45-20-16	1.1/4 - 11	1"
TSPFBB45-20-20	1.1/4 - 11	1.1/4
TSPFBB45-20-24	1.1/4 - 11	1.1/2
TSPFBB45-24-20	1.1/2 - 11	1.1/4
TSPFBB45-24-24	1.1/2 - 11	1.1/2
TSPFBB45-32-32	2" - 11	2"

CURVA 90° FÊMEA GIRATÓRIA BSP BOLEADA NORMA BS5200



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBB90-02-04	1/8 - 28	1/4
TSPFBB90-04-04	1/4 - 19	1/4
TSPFBB90-04-06	1/4 - 19	3/8
TSPFBB90-06-04	3/8 - 19	1/4
TSPFBB90-06-06	3/8 - 19	3/8
TSPFBB90-06-08	3/8 - 19	1/2
TSPFBB90-08-06	1/2 - 14	3/8
TSPFBB90-08-08	1/2 - 14	1/2
TSPFBB90-08-10	1/2 - 14	5/8
TSPFBB90-10-08	5/8 - 14	1/2
TSPFBB90-10-10	5/8 - 14	5/8
TSPFBB90-12-08	3/4 - 14	1/2
TSPFBB90-12-10	3/4 - 14	5/8
TSPFBB90-12-12	3/4 - 14	3/4
TSPFBB90-12-16	3/4 - 14	1"
TSPFBB90-16-12	1" - 11	3/4
TSPFBB90-16-16	1" - 11	1"
TSPFBB90-20-16	1.1/4 - 11	1"
TSPFBB90-20-20	1.1/4 - 11	1.1/4
TSPFBB90-20-24	1.1/4 - 11	1.1/2
TSPFBB90-24-20	1.1/2 - 11	1.1/4
TSPFBB90-24-24	1.1/2 - 11	1.1/2
TSPFBB90-32-32	2" - 11	2"

FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC) - SEXTAVADA NORMA JIS B8363



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBJ-S-04-04	1/4 - 19	1/4
TSPFBJ-S-04-06	1/4 - 19	3/8
TSPFBJ-S-06-04	3/8 - 19	1/4
TSPFBJ-S-06-06	3/8 - 19	3/8
TSPFBJ-S-06-08	3/8 - 19	1/2
TSPFBJ-S-08-06	1/2 - 14	3/8
TSPFBJ-S-08-08	1/2 - 14	1/2
TSPFBJ-S-08-10	1/2 - 14	5/8
TSPFBJ-S-10-08	5/8 - 14	1/2
TSPFBJ-S-10-10	5/8 - 14	5/8
TSPFBJ-S-10-12	5/8 - 14	3/4
TSPFBJ-S-12-10	3/4 - 14	5/8
TSPFBJ-S-12-12	3/4 - 14	3/4
TSPFBJ-S-12-16	3/4 - 14	1"
TSPFBJ-S-16-12	1" - 11	3/4
TSPFBJ-S-16-16	1" - 11	1"
TSPFBJ-S-20-16	1.1/4 - 11	1"
TSPFBJ-S-20-20	1.1/4 - 11	1.1/4
TSPFBJ-S-20-24	1.1/4 - 11	1.1/2
TSPFBJ-S-24-20	1.1/2 - 11	1.1/4
TSPFBJ-S-24-24	1.1/2 - 11	1.1/2
TSPFBJ-S-32-32	2" - 11	2"

FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC) NORMA JIS B8363



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBJ-04-04	1/4 - 19	1/4
TSPFBJ-04-06	1/4 - 19	3/8
TSPFBJ-06-04	3/8 - 19	1/4
TSPFBJ-06-06	3/8 - 19	3/8
TSPFBJ-06-08	3/8 - 19	1/2
TSPFBJ-08-06	1/2 - 14	3/8
TSPFBJ-08-08	1/2 - 14	1/2
TSPFBJ-08-10	1/2 - 14	5/8
TSPFBJ-10-08	5/8 - 14	1/2
TSPFBJ-10-10	5/8 - 14	5/8
TSPFBJ-12-10	3/4 - 14	5/8
TSPFBJ-12-12	3/4 - 14	3/4
TSPFBJ-16-12	1" - 11	3/4
TSPFBJ-16-16	1" - 11	1"
TSPFBJ-20-16	1.1/4 - 11	1"
TSPFBJ-20-20	1.1/4 - 11	1.1/4
TSPFBJ-20-24	1.1/4 - 11	1.1/2
TSPFBJ-24-20	1.1/2 - 11	1.1/4
TSPFBJ-24-24	1.1/2 - 11	1.1/2
TSPFBJ-32-32	2" - 11	2"

CURVA 45° FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC) NORMA JIS B8363



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBJ45-04-04	1/4 - 19	1/4
TSPFBJ45-04-06	1/4 - 19	3/8
TSPFBJ45-06-04	3/8 - 19	1/4
TSPFBJ45-06-06	3/8 - 19	3/8
TSPFBJ45-06-08	3/8 - 19	1/2
TSPFBJ45-08-06	1/2 - 14	3/8
TSPFBJ45-08-08	1/2 - 14	1/2
TSPFBJ45-08-10	1/2 - 14	5/8
TSPFBJ45-10-08	5/8 - 14	1/2
TSPFBJ45-10-10	5/8 - 14	5/8
TSPFBJ45-12-10	3/4 - 14	5/8
TSPFBJ45-12-12	3/4 - 14	3/4
TSPFBJ45-16-12	1" - 11	3/4
TSPFBJ45-16-16	1" - 11	1"
TSPFBJ45-20-16	1.1/4 - 11	1"
TSPFBJ45-20-20	1.1/4 - 11	1.1/4
TSPFBJ45-20-24	1.1/4 - 11	1.1/2
TSPFBJ45-24-20	1.1/2 - 11	1.1/4
TSPFBJ45-24-24	1.1/2 - 11	1.1/2
TSPFBJ45-32-32	2" - 11	2"

CURVA 90° FÊMEA GIRATÓRIA BSP JIS 30° (BSP JIC) NORMA JIS B8363



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBJ90-04-04	1/4 - 19	1/4
TSPFBJ90-04-06	1/4 - 19	3/8
TSPFBJ90-06-04	3/8 - 19	1/4
TSPFBJ90-06-06	3/8 - 19	3/8
TSPFBJ90-06-08	3/8 - 19	1/2
TSPFBJ90-08-06	1/2 - 14	3/8
TSPFBJ90-08-08	1/2 - 14	1/2
TSPFBJ90-08-10	1/2 - 14	5/8
TSPFBJ90-10-08	5/8 - 14	1/2
TSPFBJ90-10-10	5/8 - 14	5/8
TSPFBJ90-12-10	3/4 - 14	5/8
TSPFBJ90-12-12	3/4 - 14	3/4
TSPFBJ90-16-12	1" - 11	3/4
TSPFBJ90-16-16	1" - 11	1"
TSPFBJ90-20-16	1.1/4 - 11	1"
TSPFBJ90-20-20	1.1/4 - 11	1.1/4
TSPFBJ90-20-24	1.1/4 - 11	1.1/2
TSPFBJ90-24-20	1.1/2 - 11	1.1/4
TSPFBJ90-24-24	1.1/2 - 11	1.1/2
TSPFBJ90-32-32	2" - 11	2"

FÊMEA GIRATÓRIA BSP O'RING - PARALELA

NORMA BS 5200



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBO-04-04	1/4 - 19	1/4
TSPFBO-06-06	3/8 - 19	3/8
TSPFBO-08-06	1/2 - 14	3/8
TSPFBO-08-08	1/2 - 14	1/2
TSPFBO-10-10	5/8 - 14	5/8
TSPFBO-12-10	3/4 - 14	5/8
TSPFBO-12-12	3/4 - 14	3/4
TSPFBO-16-16	1" - 11	1"
TSPFBO-20-16	1.1/4 - 11	1"
TSPFBO-20-20	1.1/4 - 11	1.1/4
TSPFBO-24-24	1.1/2 - 11	1.1/2
TSPFBO-32-32	2" - 11	2"

CURVA 90° FÊMEA GIRATÓRIA BSP O'RING - PARALELA

NORMA BS 5200



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFBO90-04-04	1/4 - 19	1/4
TSPFBO90-06-06	3/8 - 19	3/8
TSPFBO90-08-06	1/2 - 14	3/8
TSPFBO90-08-08	1/2 - 14	1/2
TSPFBO90-10-10	5/8 - 14	5/8
TSPFBO90-12-10	3/4 - 14	5/8
TSPFBO90-12-12	3/4 - 14	3/4
TSPFBO90-16-16	1" - 11	1"
TSPFBO90-20-16	1.1/4 - 11	1"
TSPFBO90-20-20	1.1/4 - 11	1.1/4
TSPFBO90-24-24	1.1/2 - 11	1.1/2
TSPFBO90-32-32	2" - 11	2"

MACHO FIXO ORFS

NORMA SAE J1453



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPMORS-04-04	9/16 - 18	1/4
TSPMORS-04-06	9/16 - 18	3/8
TSPMORS-06-04	11/16 - 16	1/4
TSPMORS-06-06	11/16 - 16	3/8
TSPMORS-06-08	11/16 - 16	1/2
TSPMORS-08-06	13/16 - 16	3/8
TSPMORS-08-08	13/16 - 16	1/2
TSPMORS-08-10	13/16 - 16	5/8
TSPMORS-10-08	1" - 14	1/2
TSPMORS-10-10	1" - 14	5/8
TSPMORS-10-12	1" - 14	3/4
TSPMORS-12-08	1.3/16 - 12	1/2
TSPMORS-12-10	1.3/16 - 12	5/8
TSPMORS-12-12	1.3/16 - 12	3/4
TSPMORS-12-16	1.3/16 - 12	1"
TSPMORS-16-12	1.7/16 - 12	3/4
TSPMORS-16-16	1.7/16 - 12	1"
TSPMORS-20-16	1.11/16 - 12	1"
TSPMORS-20-20	1.11/16 - 12	1.1/4
TSPMORS-20-24	1.11/16 - 12	1.1/2
TSPMORS-24-20	2" - 12	1.1/4
TSPMORS-24-24	2" - 12	1.1/2

FÊMEA GIRATÓRIA ORFS NORMA SAE J1453



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFORS-04-04	9/16 - 18	1/4
TSPFORS-04-06	9/16 - 18	3/8
TSPFORS-06-04	11/16 - 16	1/4
TSPFORS-06-06	11/16 - 16	3/8
TSPFORS-06-08	11/16 - 16	1/2
TSPFORS-08-06	13/16 - 16	3/8
TSPFORS-08-08	13/16 - 16	1/2
TSPFORS-08-10	13/16 - 16	5/8
TSPFORS-10-08	1" - 14	1/2
TSPFORS-10-10	1" - 14	5/8
TSPFORS-10-12	1" - 14	3/4
TSPFORS-12-08	1.3/16 - 12	1/2
TSPFORS-12-10	1.3/16 - 12	5/8
TSPFORS-12-12	1.3/16 - 12	3/4
TSPFORS-12-16	1.3/16 - 12	1"
TSPFORS-16-12	1.7/16 - 12	3/4
TSPFORS-16-16	1.7/16 - 12	1"
TSPFORS-20-16	1.11/16 - 12	1"
TSPFORS-20-20	1.11/16 - 12	1.1/4
TSPFORS-20-24	1.11/16 - 12	1.1/2
TSPFORS-24-20	2" - 12	1.1/4
TSPFORS-24-24	2" - 12	1.1/2

CURVA 45° FÊMEA GIRATÓRIA ORFS NORMA SAE J1453



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFORS45-04-04	9/16 - 18	1/4
TSPFORS45-04-06	9/16 - 18	3/8
TSPFORS45-06-04	11/16 - 16	1/4
TSPFORS45-06-06	11/16 - 16	3/8
TSPFORS45-06-08	11/16 - 16	1/2
TSPFORS45-08-06	13/16 - 16	3/8
TSPFORS45-08-08	13/16 - 16	1/2
TSPFORS45-08-10	13/16 - 16	5/8
TSPFORS45-10-08	1" - 14	1/2
TSPFORS45-10-10	1" - 14	5/8
TSPFORS45-10-12	1" - 14	3/4
TSPFORS45-12-08	1.3/16 - 12	1/2
TSPFORS45-12-10	1.3/16 - 12	5/8
TSPFORS45-12-12	1.3/16 - 12	3/4
TSPFORS45-12-16	1.3/16 - 12	1"
TSPFORS45-16-12	1.7/16 - 12	3/4
TSPFORS45-16-16	1.7/16 - 12	1"
TSPFORS45-20-16	1.11/16 - 12	1"
TSPFORS45-20-20	1.11/16 - 12	1.1/4
TSPFORS45-20-24	1.11/16 - 12	1.1/2
TSPFORS45-24-20	2" - 12	1.1/4
TSPFORS45-24-24	2" - 12	1.1/2

CURVA 90° FÊMEA GIRATÓRIA ORFS NORMA SAE J1453



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFORS90-04-04	9/16 - 18	1/4
TSPFORS90-04-06	9/16 - 18	3/8
TSPFORS90-06-04	11/16 - 16	1/4
TSPFORS90-06-06	11/16 - 16	3/8
TSPFORS90-06-08	11/16 - 16	1/2
TSPFORS90-08-06	13/16 - 16	3/8
TSPFORS90-08-08	13/16 - 16	1/2
TSPFORS90-08-10	13/16 - 16	5/8
TSPFORS90-10-08	1" - 14	1/2
TSPFORS90-10-10	1" - 14	5/8
TSPFORS90-10-12	1" - 14	3/4
TSPFORS90-12-08	1.3/16 - 12	1/2
TSPFORS90-12-10	1.3/16 - 12	5/8
TSPFORS90-12-12	1.3/16 - 12	3/4
TSPFORS90-12-16	1.3/16 - 12	1"
TSPFORS90-16-12	1.7/16 - 12	3/4
TSPFORS90-16-16	1.7/16 - 12	1"
TSPFORS90-20-16	1.11/16 - 12	1"
TSPFORS90-20-20	1.11/16 - 12	1.1/4
TSPFORS90-20-24	1.11/16 - 12	1.1/2
TSPFORS90-24-20	2" - 12	1.1/4
TSPFORS90-24-24	2" - 12	1.1/2

CURVA 90° LONGA FÊMEA GIRATÓRIA ORFS NORMA SAE J1453



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFORS90L-04-04	9/16 - 18	1/4
TSPFORS90L-04-06	9/16 - 18	3/8
TSPFORS90L-06-04	11/16 - 16	1/4
TSPFORS90L-06-06	11/16 - 16	3/8
TSPFORS90L-06-08	11/16 - 16	1/2
TSPFORS90L-08-06	13/16 - 16	3/8
TSPFORS90L-08-08	13/16 - 16	1/2
TSPFORS90L-08-10	13/16 - 16	5/8
TSPFORS90L-10-08	1" - 14	1/2
TSPFORS90L-10-10	1" - 14	5/8
TSPFORS90L-10-12	1" - 14	3/4
TSPFORS90L-12-08	1.3/16 - 12	1/2
TSPFORS90L-12-10	1.3/16 - 12	5/8
TSPFORS90L-12-12	1.3/16 - 12	3/4
TSPFORS90L-12-16	1.3/16 - 12	1"
TSPFORS90L-16-12	1.7/16 - 12	3/4
TSPFORS90L-16-16	1.7/16 - 12	1"
TSPFORS90L-20-16	1.11/16 - 12	1"
TSPFORS90L-20-20	1.11/16 - 12	1.1/4
TSPFORS90L-20-24	1.11/16 - 12	1.1/2
TSPFORS90L-24-20	2" - 12	1.1/4
TSPFORS90L-24-24	2" - 12	1.1/2

MACHO FIXO MÉTRICO

LINHA (L) LEVE (P) PESADA
NORMA DIN 3853/3861



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPMM12-06-04	12 T.06 (L)	1/4
TSPMM12-06-06	12 T.06 (L)	3/8
TSPMM14-06-04	14 T.06 (P)	1/4
TSPMM14-06-06	14 T.06 (P)	3/8
TSPMM14-08-04	14 T.08 (L)	1/4
TSPMM14-08-06	14 T.08 (L)	3/8
TSPMM16-10-04	16 T.10 (L)	1/4
TSPMM16-10-06	16 T.10 (L)	3/8
TSPMM18-12-04	18 T.12 (L)	1/4
TSPMM18-12-06	18 T.12 (L)	3/8
TSPMM18-12-08	18 T.12 (L)	1/2
TSPMM-20-12-04	20 T.12 (P)	1/4
TSPMM-20-12-06	20 T.12 (P)	3/8
TSPMM-20-12-08	20 T.12 (P)	1/2
TSPMM-22-14-06	22 T.14 (P)	3/8
TSPMM-22-14-08	22 T.14 (P)	1/2
TSPMM-22-15-06	22 T.15 (L)	3/8
TSPMM-22-15-08	22 T.15 (L)	1/2
TSPMM-24-16-06	24 T.16 (P)	3/8
TSPMM-24-16-08	24 T.16 (P)	1/2
TSPMM-24-16-10	24 T.16 (P)	5/8
TSPMM-26-18-08	26 T.18 (L)	1/2
TSPMM-26-18-10	26 T.18 (L)	5/8
TSPMM-28-19-10	28 T.19 (L)	5/8
TSPMM-28-19-12	28 T.19 (L)	3/4
TSPMM-30-20-10	30 T.20 (P)	5/8
TSPMM-30-22-10	30 T.22 (L)	5/8
TSPMM-30-20-12	30 T.20 (P)	3/4
TSPMM-30-22-12	30 T.22 (L)	3/4
TSPMM-34-25-12	34 T.25	3/4
TSPMM-34-25-16	34 T.25	1"
TSPMM-36-25-12	36 T.25 (P)	3/4
TSPMM-36-25-16	36 T.25 (P)	1"
TSPMM-36-28-12	36 T.28 (L)	3/4
TSPMM-36-28-16	36 T.28 (L)	1"
TSPMM-38-28-12	38 T.28	3/4
TSPMM-38-28-16	38 T.28	1"
TSPMM-42-30-16	42 T.30 (P)	1"
TSPMM-42-32-16	42 T.32 (L)	1"
TSPMM-42-30-20	42 T.30 (P)	1.1/4
TSPMM-42-32-20	42 T.32 (L)	1.1/4
TSPMM-45-35-20	45 T.35 (L)	1.1/4
TSPMM-48-38-20	48 T.38	1.1/4
TSPMM-52-38-20	52 T.38 (P)	1.1/4
TSPMM-52-42-20	52 T.42 (L)	1.1/4
TSPMM-52-38-24	52 T.38 (P)	1.1/2
TSPMM-52-42-24	52 T.42 (L)	1.1/2

FÊMEA GIRATÓRIA MÉTRICA DKO

LINHA (L) LEVE (P) PESADA
NORMA DIN 3853/3861

CÓDIGO	ROSCA - LINHA - LEVE / PESADA	MANGUEIRA
TSPFMD-12-06-04	12 DKO 06 (L)	1/4
TSPFMD-12-06-06	12 DKO 06 (L)	3/8
TSPFMD-14-06-04	14 DKO 06 (P)	1/4
TSPFMD-14-06-06	14 DKO 06 (P)	3/8
TSPFMD-14-08-04	14 DKO 08 (L)	1/4
TSPFMD-14-08-06	14 DKO 08 (L)	3/8
TSPFMD-16-10-04	16 DKO 10 (L)	1/4
TSPFMD-16-10-06	16 DKO 10 (L)	3/8
TSPFMD-18-12-04	18 DKO 12 (L)	1/4
TSPFMD-18-12-06	18 DKO 12 (L)	3/8
TSPFMD-18-12-08	18 DKO 12 (L)	1/2
TSPFMD-20-12-04	20 DKO 12 (P)	1/4
TSPFMD-20-12-06	20 DKO 12 (P)	3/8
TSPFMD-20-12-08	20 DKO 12 (P)	1/2
TSPFMD-22-14-06	22 DKO 14 (P)	3/8
TSPFMD-22-14-08	22 DKO 14 (P)	1/2
TSPFMD-22-15-06	22 DKO 15 (L)	3/8
TSPFMD-22-15-08	22 DKO 15 (L)	1/2
TSPFMD-24-16-06	24 DKO 16 (P)	3/8
TSPFMD-24-16-08	24 DKO 16 (P)	1/2
TSPFMD-24-16-10	24 DKO 16 (P)	5/8
TSPFMD-26-18-08	26 DKO 18 (L)	1/2
TSPFMD-26-18-10	26 DKO 18 (L)	5/8
TSPFMD-28-19-10	28 DKO 19 (L)	5/8
TSPFMD-28-19-12	28 DKO 19 (L)	3/4
TSPFMD-30-20-10	30 DKO 20 (P)	5/8
TSPFMD-30-22-10	30 DKO 22 (L)	5/8
TSPFMD-30-20-12	30 DKO 20 (P)	3/4
TSPFMD-30-22-12	30 DKO 22 (L)	3/4
TSPFMD-34-25-12	34 DKO 25	3/4
TSPFMD-34-25-16	34 DKO 25	1"
TSPFMD-36-25-12	36 DKO 25 (P)	3/4
TSPFMD-36-25-16	36 DKO 25 (P)	1"
TSPFMD-36-28-12	36 DKO 28 (L)	3/4
TSPFMD-36-28-16	36 DKO 28 (L)	1"
TSPFMD-38-28-12	38 DKO 28	3/4
TSPFMD-38-28-16	38 DKO 28	1"
TSPFMD-42-30-16	42 DKO 30 (P)	1"
TSPFMD-42-32-16	42 DKO 32 (L)	1"
TSPFMD-42-30-20	42 DKO 30 (P)	1.1/4
TSPFMD-42-32-20	42 DKO 32 (L)	1.1/4
TSPFMD-45-35-20	45 DKO 35 (L)	1.1/4
TSPFMD-48-38-20	48 DKO 38	1.1/4
TSPFMD-52-38-20	52 DKO 38 (P)	1.1/4
TSPFMD-52-42-20	52 DKO 42 (L)	1.1/4
TSPFMD-52-38-24	52 DKO 38 (P)	1.1/2
TSPFMD-52-42-24	52 DKO 42 (L)	1.1/2



CURVA 45° FÊMEA GIRATÓRIA MÉTRICA DKO

LINHA (L) LEVE (P) PESADA
NORMA DIN 3853/3861



CÓDIGO	ROSCA - LINHA - LEVE / PESADA	MANGUEIRA
TSPFMD45-12-06-04	12 DKO 06 (L)	1/4
TSPFMD45-12-06-06	12 DKO 06 (L)	3/8
TSPFMD45-14-06-04	14 DKO 06 (P)	1/4
TSPFMD45-14-06-06	14 DKO 06 (P)	3/8
TSPFMD45-14-08-04	14 DKO 08 (L)	1/4
TSPFMD45-14-08-06	14 DKO 08 (L)	3/8
TSPFMD45-16-10-04	16 DKO 10 (L)	1/4
TSPFMD45-16-10-06	16 DKO 10 (L)	3/8
TSPFMD45-18-12-04	18 DKO 12 (L)	1/4
TSPFMD45-18-12-06	18 DKO 12 (L)	3/8
TSPFMD45-18-12-08	18 DKO 12 (L)	1/2
TSPFMD45-20-12-04	20 DKO 12 (P)	1/4
TSPFMD45-20-12-06	20 DKO 12 (P)	3/8
TSPFMD45-20-12-08	20 DKO 12 (P)	1/2
TSPFMD45-22-14-06	22 DKO 14 (P)	3/8
TSPFMD45-22-14-08	22 DKO 14 (P)	1/2
TSPFMD45-22-15-06	22 DKO 15 (L)	3/8
TSPFMD45-22-15-08	22 DKO 15 (L)	1/2
TSPFMD45-24-16-06	24 DKO 16 (P)	3/8
TSPFMD45-24-16-08	24 DKO 16 (P)	1/2
TSPFMD45-24-16-10	24 DKO 16 (P)	5/8
TSPFMD45-26-18-08	26 DKO 18 (L)	1/2
TSPFMD45-26-18-10	26 DKO 18 (L)	5/8
TSPFMD45-28-19-10	28 DKO 19 (L)	5/8
TSPFMD45-28-19-12	28 DKO 19 (L)	3/4
TSPFMD45-30-20-10	30 DKO 20 (P)	5/8
TSPFMD45-30-22-10	30 DKO 22 (L)	5/8
TSPFMD45-30-20-12	30 DKO 20 (P)	3/4
TSPFMD45-30-22-12	30 DKO 22 (L)	3/4
TSPFMD45-34-25-12	34 DKO 25	3/4
TSPFMD45-34-25-16	34 DKO 25	1"
TSPFMD45-36-25-12	36 DKO 25 (P)	3/4
TSPFMD45-36-25-16	36 DKO 25 (P)	1"
TSPFMD45-36-28-12	36 DKO 28 (L)	3/4
TSPFMD45-36-28-16	36 DKO 28 (L)	1"
TSPFMD45-38-28-12	38 DKO 28	3/4
TSPFMD45-38-28-16	38 DKO 28	1"
TSPFMD45-42-30-16	42 DKO 30 (P)	1"
TSPFMD45-42-32-16	42 DKO 32 (L)	1"
TSPFMD45-42-30-20	42 DKO 30 (P)	1.1/4
TSPFMD45-42-32-20	42 DKO 32 (L)	1.1/4
TSPFMD45-45-35-20	45 DKO 35 (L)	1.1/4
TSPFMD45-48-38-20	48 DKO 38	1.1/4
TSPFMD45-52-38-20	52 DKO 38 (P)	1.1/4
TSPFMD45-52-42-20	52 DKO 42 (L)	1.1/4
TSPFMD45-52-38-24	52 DKO 38 (P)	1.1/2
TSPFMD45-52-42-24	52 DKO 42 (L)	1.1/2

CURVA 90° FÊMEA GIRATÓRIA MÉTRICA DKO

LINHA (L) LEVE (P) PESADA
NORMA DIN 3853/3861

CÓDIGO	ROSCA - LINHA - LEVE / PESADA	MANGUEIRA
TSPFMD90-12-06-04	12 DKO 06 (L)	1/4
TSPFMD90-12-06-06	12 DKO 06 (L)	3/8
TSPFMD90-14-06-04	14 DKO 06 (P)	1/4
TSPFMD90-14-06-06	14 DKO 06 (P)	3/8
TSPFMD90-14-08-04	14 DKO 08 (L)	1/4
TSPFMD90-14-08-06	14 DKO 08 (L)	3/8
TSPFMD90-16-10-04	16 DKO 10 (L)	1/4
TSPFMD90-16-10-06	16 DKO 10 (L)	3/8
TSPFMD90-18-12-04	18 DKO 12 (L)	1/4
TSPFMD90-18-12-06	18 DKO 12 (L)	3/8
TSPFMD90-18-12-08	18 DKO 12 (L)	1/2
TSPFMD90-20-12-04	20 DKO 12 (P)	1/4
TSPFMD90-20-12-06	20 DKO 12 (P)	3/8
TSPFMD90-20-12-08	20 DKO 12 (P)	1/2
TSPFMD90-22-14-06	22 DKO 14 (P)	3/8
TSPFMD90-22-14-08	22 DKO 14 (P)	1/2
TSPFMD90-22-15-06	22 DKO 15 (L)	3/8
TSPFMD90-22-15-08	22 DKO 15 (L)	1/2
TSPFMD90-24-16-06	24 DKO 16 (P)	3/8
TSPFMD90-24-16-08	24 DKO 16 (P)	1/2
TSPFMD90-24-16-10	24 DKO 16 (P)	5/8
TSPFMD90-26-18-08	26 DKO 18 (L)	1/2
TSPFMD90-26-18-10	26 DKO 18 (L)	5/8
TSPFMD90-28-19-10	28 DKO 19 (L)	5/8
TSPFMD90-28-19-12	28 DKO 19 (L)	3/4
TSPFMD90-30-20-10	30 DKO 20 (P)	5/8
TSPFMD90-30-22-10	30 DKO 22 (L)	5/8
TSPFMD90-30-20-12	30 DKO 20 (P)	3/4
TSPFMD90-30-22-12	30 DKO 22 (L)	3/4
TSPFMD90-34-25-12	34 DKO 25	3/4
TSPFMD90-34-25-16	34 DKO 25	1"
TSPFMD90-36-25-12	36 DKO 25 (P)	3/4
TSPFMD90-36-25-16	36 DKO 25 (P)	1"
TSPFMD90-36-28-12	36 DKO 28 (L)	3/4
TSPFMD90-36-28-16	36 DKO 28 (L)	1"
TSPFMD90-38-28-12	38 DKO 28	3/4
TSPFMD90-38-28-16	38 DKO 28	1"
TSPFMD90-42-30-16	42 DKO 30 (P)	1"
TSPFMD90-42-32-16	42 DKO 32 (L)	1"
TSPFMD90-42-30-20	42 DKO 30 (P)	1.1/4
TSPFMD90-42-32-20	42 DKO 32 (L)	1.1/4
TSPFMD90-45-35-20	45 DKO 35 (L)	1.1/4
TSPFMD90-48-38-20	48 DKO 38	1.1/4
TSPFMD90-52-38-20	52 DKO 38 (P)	1.1/4
TSPFMD90-52-42-20	52 DKO 42 (L)	1.1/4
TSPFMD90-52-38-24	52 DKO 38 (P)	1.1/2
TSPFMD90-52-42-24	52 DKO 42 (L)	1.1/2



FÊMEA GIRATÓRIA MÉTRICA JIS 30° KOMATSU NORMA JIS B8363



CÓDIGO	ROSCA - PASSO	MANGUEIRA
TSPFMJ-14-04	14 mm 1,5	1/4
TSPFMJ-14-06	14 mm 1,5	3/8
TSPFMJ-16-06	16 mm 1,5	3/8
TSPFMJ-18-06	18 mm 1,5	3/8
TSPFMJ-22-08	22 mm 1,5	1/2
TSPFMJ-24-08	24 mm 1,5	1/2
TSPFMJ-24-10	24 mm 1,5	5/8
TSPFMJ-24-12	24 mm 1,5	3/4
TSPFMJ-30-12	30 mm 1,5	3/4
TSPFMJ-33-16	33 mm 1,5	1"

CURVA 90° FÊMEA GIRATÓRIA MÉTRICA JIS 30° KOMATSU NORMA JIS B8363



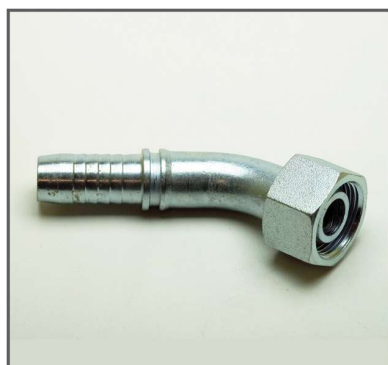
CÓDIGO	ROSCA - PASSO	MANGUEIRA
TSPFMJ90-14-04	14 mm 1,5	1/4
TSPFMJ90-14-06	14 mm 1,5	3/8
TSPFMJ90-16-06	16 mm 1,5	3/8
TSPFMJ90-18-06	18 mm 1,5	3/8
TSPFMJ90-22-08	22 mm 1,5	1/2
TSPFMJ90-24-08	24 mm 1,5	1/2
TSPFMJ90-24-10	24 mm 1,5	5/8
TSPFMJ90-24-12	24 mm 1,5	3/4
TSPFMJ90-30-12	30 mm 1,5	3/4
TSPFMJ90-33-16	33 mm 1,5	1"

FÊMEA GIRATÓRIA MÉTRICA BOLEADA NORMA DIN 3868



CÓDIGO	ROSCA - PASSO	MANGUEIRA
TSPFMB-12-04	12 mm 1,5	1/4
TSPFMB-14-04	14 mm 1,5	1/4
TSPFMB-16-04	16 mm 1,5	1/4
TSPFMB-16-06	16 mm 1,5	3/8
TSPFMB-18-06	18 mm 1,5	3/8
TSPFMB-20-06	20 mm 1,5	3/8
TSPFMB-20-08	20 mm 1,5	1/2
TSPFMB-22-08	22 mm 1,5	1/2
TSPFMB-24-08	24 mm 1,5	1/2
TSPFMB-24-10	24 mm 1,5	5/8
TSPFMB-26-10	26 mm 1,5	5/8
TSPFMB-28-10	28 mm 1,5	5/8
TSPFMB-30-10-1,5	30 mm 1,5	5/8
TSPFMB-30-10	30 mm 2,0	5/8
TSPFMB-30-12-1,5	30 mm 1,5	3/4
TSPFMB-30-12	30 mm 2,0	3/4
TSPFMB-34-12	34 mm 2,0	3/4
TSPFMB-34-16	34 mm 2,0	1"
TSPFMB-36-12	36 mm 2,0	3/4
TSPFMB-36-16	36 mm 2,0	1"
TSPFMB-38-16-1,5	38 mm 1,5	1"
TSPFMB-38-16	38 mm 2,0	1"
TSPFMB-42-16	42 mm 2,0	1"
TSPFMB-48-16	48 mm 2,0	1"
TSPFMB-48-20	48 mm 2,0	1.1/4
TSPFMB-52-20	52 mm 2,0	1.1/4
TSPFMB-52-24	52 mm 2,0	1.1/2

CURVA 45° FÊMEA GIRATÓRIA MÉTRICA BOLEADA NORMA DIN 3868



CÓDIGO	ROSCA - PASSO	MANGUEIRA
TSPFMB45-12-04	12 mm 1,5	1/4
TSPFMB45-14-04	14 mm 1,5	1/4
TSPFMB45-16-04	16 mm 1,5	1/4
TSPFMB45-16-06	16 mm 1,5	3/8
TSPFMB45-18-06	18 mm 1,5	3/8
TSPFMB45-20-06	20 mm 1,5	3/8
TSPFMB45-20-08	20 mm 1,5	1/2
TSPFMB45-22-08	22 mm 1,5	1/2
TSPFMB45-24-08	24 mm 1,5	1/2
TSPFMB45-24-10	24 mm 1,5	5/8
TSPFMB45-26-10	26 mm 1,5	5/8
TSPFMB45-28-10	28 mm 1,5	5/8
TSPFMB45-30-10-1,5	30 mm 1,5	5/8
TSPFMB45-30-10	30 mm 2,0	5/8
TSPFMB45-30-12-1,5	30 mm 1,5	3/4
TSPFMB45-30-12	30 mm 2,0	3/4
TSPFMB45-34-12	34 mm 2,0	3/4
TSPFMB45-34-16	34 mm 2,0	1"
TSPFMB45-36-12	36 mm 2,0	3/4
TSPFMB45-36-16	36 mm 2,0	1"
TSPFMB45-38-16-1,5	38 mm 1,5	1"
TSPFMB45-38-16	38 mm 2,0	1"
TSPFMB45-42-16	42 mm 2,0	1"
TSPFMB45-48-16	48 mm 2,0	1"
TSPFMB45-48-20	48 mm 2,0	1.1/4
TSPFMB45-52-20	52 mm 2,0	1.1/4
TSPFMB45-52-24	52 mm 2,0	1.1/2

CURVA 90° FÊMEA GIRATÓRIA MÉTRICA BOLEADA NORMA DIN 3868



CÓDIGO	ROSCA - PASSO	MANGUEIRA
TSPFMB90-12-04	12 mm 1,5	1/4
TSPFMB90-14-04	14 mm 1,5	1/4
TSPFMB90-16-04	16 mm 1,5	1/4
TSPFMB90-16-06	16 mm 1,5	3/8
TSPFMB90-18-06	18 mm 1,5	3/8
TSPFMB90-20-06	20 mm 1,5	3/8
TSPFMB90-20-08	20 mm 1,5	1/2
TSPFMB90-22-08	22 mm 1,5	1/2
TSPFMB90-24-08	24 mm 1,5	1/2
TSPFMB90-24-10	24 mm 1,5	5/8
TSPFMB90-26-10	26 mm 1,5	5/8
TSPFMB90-28-10	28 mm 1,5	5/8
TSPFMB90-30-10-1,5	30 mm 1,5	5/8
TSPFMB90-30-10	30 mm 2,0	5/8
TSPFMB90-30-12-1,5	30 mm 1,5	3/4
TSPFMB90-30-12	30 mm 2,0	3/4
TSPFMB90-34-12	34 mm 2,0	3/4
TSPFMB90-34-16	34 mm 2,0	1"
TSPFMB90-36-12	36 mm 2,0	3/4
TSPFMB90-36-16	36 mm 2,0	1"
TSPFMB90-38-16-1,5	38 mm 1,5	1"
TSPFMB90-38-16	38 mm 2,0	1"
TSPFMB90-42-16	42 mm 2,0	1"
TSPFMB90-48-16	48 mm 2,0	1"
TSPFMB90-48-20	48 mm 2,0	1.1/4
TSPFMB90-52-20	52 mm 2,0	1.1/4
TSPFMB90-52-24	52 mm 2,0	1.1/2

FÊMEA GIRATÓRIA MÉTRICA O'RING - PARALELA



CÓDIGO	ROSCA - PASSO	MANGUEIRA
TSPFMO-12-04	12 mm 1,5	1/4
TSPFMO-14-04	14 mm 1,5	1/4
TSPFMO-16-04	16 mm 1,5	1/4
TSPFMO-16-06	16 mm 1,5	3/8
TSPFMO-18-06	18 mm 1,5	3/8
TSPFMO-18-08	18 mm 1,5	1/2
TSPFMO-20-06	20 mm 1,5	3/8
TSPFMO-20-08	20 mm 1,5	1/2
TSPFMO-22-08	22 mm 1,5	1/2
TSPFMO-22-10	22 mm 1,5	5/8
TSPFMO-24-08	24 mm 1,5	1/2
TSPFMO-24-10	24 mm 1,5	5/8
TSPFMO-26-08	26 mm 1,5	1/2
TSPFMO-26-10	26 mm 1,5	5/8
TSPFMO-28-10	28 mm 1,5	5/8
TSPFMO-30-12	30 mm 2,0	3/4
TSPFMO-34-12	34 mm 2,0	3/4
TSPFMO-36-12	36 mm 2,0	3/4

CURVA 90° FÊMEA GIRATÓRIA MÉTRICA O'RING - PARALELA



CÓDIGO	ROSCA - PASSO	MANGUEIRA
TSPFMO90-12-04	12 mm 1,5	1/4
TSPFMO90-14-04	14 mm 1,5	1/4
TSPFMO90-16-04	16 mm 1,5	1/4
TSPFMO90-16-06	16 mm 1,5	3/8
TSPFMO90-18-06	18 mm 1,5	3/8
TSPFMO90-18-08	18 mm 1,5	1/2
TSPFMO90-20-06	20 mm 1,5	3/8
TSPFMO90-20-08	20 mm 1,5	1/2
TSPFMO90-22-08	22 mm 1,5	1/2
TSPFMO90-22-10	22 mm 1,5	5/8
TSPFMO90-24-08	24 mm 1,5	1/2
TSPFMO90-24-10	24 mm 1,5	5/8
TSPFMO90-26-08	26 mm 1,5	1/2
TSPFMO90-26-10	26 mm 1,5	5/8
TSPFMO90-28-10	28 mm 1,5	5/8
TSPFMO90-30-12	30 mm 2,0	3/4
TSPFMO90-34-12	34 mm 2,0	3/4
TSPFMO90-36-12	36 mm 2,0	3/4

BANJO MÉTRICO NORMA DIN 7642

CÓDIGO	MEDIDA	MANGUEIRA
TSPBJ-08-04	08 mm	1/4
TSPBJ-10-04	10 mm	1/4
TSPBJ-12-04	12 mm	1/4
TSPBJ-12-06	12 mm	3/8
TSPBJ-14-04	14 mm	1/4
TSPBJ-14-06	14 mm	3/8
TSPBJ-16-04	16 mm	1/4
TSPBJ-16-06	16 mm	3/8
TSPBJ-18-04	18 mm	1/4
TSPBJ-18-06	18 mm	3/8
TSPBJ-18-08	18 mm	1/2
TSPBJ-22-06	22 mm	3/8
TSPBJ-22-08	22 mm	1/2
TSPBJ-22-10	22 mm	5/8
TSPBJ-26-12	26 mm	3/4
TSPBJ-30-16	30 mm	1"



CURVA 45° BANJO MÉTRICO NORMA DIN 7642

CÓDIGO	MEDIDA	MANGUEIRA
TSPBJ45-08-04	08 mm	1/4
TSPBJ45-10-04	10 mm	1/4
TSPBJ45-12-04	12 mm	1/4
TSPBJ45-12-06	12 mm	3/8
TSPBJ45-14-04	14 mm	1/4
TSPBJ45-14-06	14 mm	3/8
TSPBJ45-16-04	16 mm	1/4
TSPBJ45-16-06	16 mm	3/8
TSPBJ45-18-04	18 mm	1/4
TSPBJ45-18-06	18 mm	3/8
TSPBJ45-18-08	18 mm	1/2
TSPBJ45-22-06	22 mm	3/8
TSPBJ45-22-08	22 mm	1/2
TSPBJ45-22-10	22 mm	5/8
TSPBJ45-26-12	26 mm	3/4
TSPBJ45-30-16	30 mm	1"



CURVA 90° BANJO MÉTRICO

NORMA DIN 7642



CÓDIGO	MEDIDA	MANGUEIRA
TSPBJ90-08-04	08 mm	1/4
TSPBJ90-10-04	10 mm	1/4
TSPBJ90-12-04	12 mm	1/4
TSPBJ90-12-06	12 mm	3/8
TSPBJ90-14-04	14 mm	1/4
TSPBJ90-14-06	14 mm	3/8
TSPBJ90-16-04	16 mm	1/4
TSPBJ90-16-06	16 mm	3/8
TSPBJ90-18-04	18 mm	1/4
TSPBJ90-18-06	18 mm	3/8
TSPBJ90-18-08	18 mm	1/2
TSPBJ90-22-06	22 mm	3/8
TSPBJ90-22-08	22 mm	1/2
TSPBJ90-22-10	22 mm	5/8
TSPBJ90-26-12	26 mm	3/4
TSPBJ90-30-16	30 mm	1"

FLANGE CÓD. 61 - 3000 PSI

NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL-08-08	1.3/16 (30,2)	1/2
TSPFL-10-08	1.11/32 (33,2)	1/2
TSPFL-10-10	1.11/32 (33,2)	5/8
TSPFL-12-08	1.1/2 (38,1)	1/2
TSPFL-12-10	1.1/2 (38,1)	5/8
TSPFL-12-12	1.1/2 (38,1)	3/4
TSPFL-12-16	1.1/2 (38,1)	1"
TSPFL-16-12	1.3/4 (44,4)	3/4
TSPFL-16-16	1.3/4 (44,4)	1"
TSPFL-20-16	2" (50,8)	1"
TSPFL-20-20	2" (50,8)	1.1/4
TSPFL-24-16	2.3/8 (60,4)	1"
TSPFL-24-20	2.3/8 (60,4)	1.1/4
TSPFL-24-24	2.3/8 (60,4)	1.1/2
TSPFL-32-20	2.13/16 (71,4)	1.1/4
TSPFL-32-24	2.13/16 (71,4)	1.1/2
TSPFL-32-32	2.13/16 (71,4)	2"

CURVA 22° FLANGE CÓD 61 - 3000 PSI NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL22-08-08	1.3/16 (30,2)	1/2
TSPFL22-10-08	1.11/32 (33,2)	1/2
TSPFL22-10-10	1.11/32 (33,2)	5/8
TSPFL22-12-08	1.1/2 (38,1)	1/2
TSPFL22-12-10	1.1/2 (38,1)	5/8
TSPFL22-12-12	1.1/2 (38,1)	3/4
TSPFL22-12-16	1.1/2 (38,1)	1"
TSPFL22-16-12	1.3/4 (44,4)	3/4
TSPFL22-16-16	1.3/4 (44,4)	1"
TSPFL22-20-16	2" (50,8)	1"
TSPFL22-20-20	2" (50,8)	1.1/4
TSPFL22-24-16	2.3/8 (60,4)	1"
TSPFL22-24-20	2.3/8 (60,4)	1.1/4
TSPFL22-24-24	2.3/8 (60,4)	1.1/2
TSPFL22-32-20	2.13/16 (71,4)	1.1/4
TSPFL22-32-24	2.13/16 (71,4)	1.1/2
TSPFL22-32-32	2.13/16 (71,4)	2"



CURVA 30° FLANGE CÓD 61 - 3000 PSI NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL30-08-08	1.3/16 (30,2)	1/2
TSPFL30-10-08	1.11/32 (33,2)	1/2
TSPFL30-10-10	1.11/32 (33,2)	5/8
TSPFL30-12-08	1.1/2 (38,1)	1/2
TSPFL30-12-10	1.1/2 (38,1)	5/8
TSPFL30-12-12	1.1/2 (38,1)	3/4
TSPFL30-12-16	1.1/2 (38,1)	1"
TSPFL30-16-12	1.3/4 (44,4)	3/4
TSPFL30-16-16	1.3/4 (44,4)	1"
TSPFL30-20-16	2" (50,8)	1"
TSPFL30-20-20	2" (50,8)	1.1/4
TSPFL30-24-16	2.3/8 (60,4)	1"
TSPFL30-24-20	2.3/8 (60,4)	1.1/4
TSPFL30-24-24	2.3/8 (60,4)	1.1/2
TSPFL30-32-20	2.13/16 (71,4)	1.1/4
TSPFL30-32-24	2.13/16 (71,4)	1.1/2
TSPFL30-32-32	2.13/16 (71,4)	2"



CURVA 45° FLANGE CÓD. 61 - 3000 PSI NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL45-08-08	1.3/16 (30,2)	1/2
TSPFL45-10-08	1.11/32 (33,2)	1/2
TSPFL45-10-10	1.11/32 (33,2)	5/8
TSPFL45-12-08	1.1/2 (38,1)	1/2
TSPFL45-12-10	1.1/2 (38,1)	5/8
TSPFL45-12-12	1.1/2 (38,1)	3/4
TSPFL45-12-16	1.1/2 (38,1)	1"
TSPFL45-16-12	1.3/4 (44,4)	3/4
TSPFL45-16-16	1.3/4 (44,4)	1"
TSPFL45-20-16	2" (50,8)	1"
TSPFL45-20-20	2" (50,8)	1.1/4
TSPFL45-24-16	2.3/8 (60,4)	1"
TSPFL45-24-20	2.3/8 (60,4)	1.1/4
TSPFL45-24-24	2.3/8 (60,4)	1.1/2
TSPFL45-32-20	2.13/16 (71,4)	1.1/4
TSPFL45-32-24	2.13/16 (71,4)	1.1/2
TSPFL45-32-32	2.13/16 (71,4)	2"

CURVA 60° FLANGE CÓD. 61 - 3000 PSI NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL60-08-08	1.3/16 (30,2)	1/2
TSPFL60-10-08	1.11/32 (33,2)	1/2
TSPFL60-10-10	1.11/32 (33,2)	5/8
TSPFL60-12-08	1.1/2 (38,1)	1/2
TSPFL60-12-10	1.1/2 (38,1)	5/8
TSPFL60-12-12	1.1/2 (38,1)	3/4
TSPFL60-12-16	1.1/2 (38,1)	1"
TSPFL60-16-12	1.3/4 (44,4)	3/4
TSPFL60-16-16	1.3/4 (44,4)	1"
TSPFL60-20-16	2" (50,8)	1"
TSPFL60-20-20	2" (50,8)	1.1/4
TSPFL60-24-16	2.3/8 (60,4)	1"
TSPFL60-24-20	2.3/8 (60,4)	1.1/4
TSPFL60-24-24	2.3/8 (60,4)	1.1/2
TSPFL60-32-20	2.13/16 (71,4)	1.1/4
TSPFL60-32-24	2.13/16 (71,4)	1.1/2
TSPFL60-32-32	2.13/16 (71,4)	2"

CURVA 67° FLANGE CÓD 61 - 3000 PSI NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL67-08-08	1.3/16 (30,2)	1/2
TSPFL67-10-08	1.11/32 (33,2)	1/2
TSPFL67-10-10	1.11/32 (33,2)	5/8
TSPFL67-12-08	1.1/2 (38,1)	1/2
TSPFL67-12-10	1.1/2 (38,1)	5/8
TSPFL67-12-12	1.1/2 (38,1)	3/4
TSPFL67-12-16	1.1/2 (38,1)	1"
TSPFL67-16-12	1.3/4 (44,4)	3/4
TSPFL67-16-16	1.3/4 (44,4)	1"
TSPFL67-20-16	2" (50,8)	1"
TSPFL67-20-20	2" (50,8)	1.1/4
TSPFL67-24-16	2.3/8 (60,4)	1"
TSPFL67-24-20	2.3/8 (60,4)	1.1/4
TSPFL67-24-24	2.3/8 (60,4)	1.1/2
TSPFL67-32-20	2.13/16 (71,4)	1.1/4
TSPFL67-32-24	2.13/16 (71,4)	1.1/2
TSPFL67-32-32	2.13/16 (71,4)	2"



CURVA 90° FLANGE CÓD 61 - 3000 PSI NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL90-08-08	1.3/16 (30,2)	1/2
TSPFL90-10-08	1.11/32 (33,2)	1/2
TSPFL90-10-10	1.11/32 (33,2)	5/8
TSPFL90-12-08	1.1/2 (38,1)	1/2
TSPFL90-12-10	1.1/2 (38,1)	5/8
TSPFL90-12-12	1.1/2 (38,1)	3/4
TSPFL90-12-16	1.1/2 (38,1)	1"
TSPFL90-16-12	1.3/4 (44,4)	3/4
TSPFL90-16-16	1.3/4 (44,4)	1"
TSPFL90-20-16	2" (50,8)	1"
TSPFL90-20-20	2" (50,8)	1.1/4
TSPFL90-24-16	2.3/8 (60,4)	1"
TSPFL90-24-20	2.3/8 (60,4)	1.1/4
TSPFL90-24-24	2.3/8 (60,4)	1.1/2
TSPFL90-32-20	2.13/16 (71,4)	1.1/4
TSPFL90-32-24	2.13/16 (71,4)	1.1/2
TSPFL90-32-32	2.13/16 (71,4)	2"



CURVA 90° LONGA FLANGE CÓD. 61 - 3000 PSI NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFL90L-08-08 H=100	1.3/16 (30,2) H=100	1/2
TSPFL90L-10-08 H=100	1.11/32 (33,2) H=100	1/2
TSPFL90L-10-10 H=100	1.11/32 (33,2) H=100	5/8
TSPFL90L-12-08 H=100	1.1/2 (38,1) H=100	1/2
TSPFL90L-12-10 H=100	1.1/2 (38,1) H=100	5/8
TSPFL90L-12-12 H=100	1.1/2 (38,1) H=100	3/4
TSPFL90L-12-12 H=120	1.1/2 (38,1) H=120	3/4
TSPFL90L-12-12 H=140	1.1/2 (38,1) H=140	3/4
TSPFL90L-12-16 H=100	1.1/2 (38,1) H=100	1"
TSPFL90L-16-12 H=100	1.3/4 (44,4) H=100	3/4
TSPFL90L-16-12 H=120	1.3/4 (44,4) H=120	3/4
TSPFL90L-16-12 H=140	1.3/4 (44,4) H=140	3/4
TSPFL90L-16-16 H=100	1.3/4 (44,4) H=100	1"
TSPFL90L-16-16 H=120	1.3/4 (44,4) H=120	1"
TSPFL90L-16-16 H=140	1.3/4 (44,4) H=140	1"
TSPFL90L-16-16 H=160	1.3/4 (44,4) H=160	1"
TSPFL90L-20-16 H=100	2" (50,8) H=100	1"
TSPFL90L-20-16 H=120	2" (50,8) H=120	1"
TSPFL90L-20-16 H=140	2" (50,8) H=140	1"
TSPFL90L-20-16 H=160	2" (50,8) H=160	1"
TSPFL90L-20-20 H=100	2" (50,8) H=100	1.1/4
TSPFL90L-20-20 H=120	2" (50,8) H=120	1.1/4
TSPFL90L-20-20 H=140	2" (50,8) H=140	1.1/4
TSPFL90L-20-20 H=160	2" (50,8) H=160	1.1/4
TSPFL90L-24-16 H=100	2.3/8 (60,4) H=100	1"
TSPFL90L-24-16 H=120	2.3/8 (60,4) H=120	1"
TSPFL90L-24-16 H=140	2.3/8 (60,4) H=140	1"
TSPFL90L-24-16 H=160	2.3/8 (60,4) H=160	1"
TSPFL90L-24-20 H=100	2.3/8 (60,4) H=100	1.1/4
TSPFL90L-24-20 H=120	2.3/8 (60,4) H=120	1.1/4
TSPFL90L-24-20 H=140	2.3/8 (60,4) H=140	1.1/4
TSPFL90L-24-20 H=160	2.3/8 (60,4) H=160	1.1/4
TSPFL90L-24-24 H=100	2.3/8 (60,4) H=100	1.1/2
TSPFL90L-24-24 H=120	2.3/8 (60,4) H=120	1.1/2
TSPFL90L-24-24 H=140	2.3/8 (60,4) H=140	1.1/2
TSPFL90L-24-24 H=160	2.3/8 (60,4) H=160	1.1/2
TSPFL90L-32-20 H=100	2.13/16 (71,4) H=100	1.1/4
TSPFL90L-32-20 H=120	2.13/16 (71,4) H=120	1.1/4
TSPFL90L-32-20 H=140	2.13/16 (71,4) H=140	1.1/4
TSPFL90L-32-20 H=160	2.13/16 (71,4) H=160	1.1/4
TSPFL90L-32-24 H=100	2.13/16 (71,4) H=100	1.1/2
TSPFL90L-32-24 H=120	2.13/16 (71,4) H=120	1.1/2
TSPFL90L-32-24 H=140	2.13/16 (71,4) H=140	1.1/2
TSPFL90L-32-24 H=160	2.13/16 (71,4) H=160	1.1/2
TSPFL90L-32-32 H=100	2.13/16 (71,4) H=100	2"
TSPFL90L-32-32 H=120	2.13/16 (71,4) H=120	2"
TSPFL90L-32-32 H=140	2.13/16 (71,4) H=140	2"
TSPFL90L-32-32 H=160	2.13/16 (71,4) H=160	2"

FLANGE CÓD. 62 - 6000 PSI
NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFLS-12-08	1.5/8 (41,3)	1/2
TSPFLS-12-12	1.5/8 (41,3)	3/4
TSPFLS-16-12	1.7/8 (47,6)	3/4
TSPFLS-16-16	1.7/8 (47,6)	1"
TSPFLS-20-16	2.1/8 (54)	1"
TSPFLS-20-20	2.1/8 (54)	1.1/4
TSPFLS-24-20	2.1/2 (63,5)	1.1/4
TSPFLS-24-24	2.1/2 (63,5)	1.1/2



CURVA 45° FLANGE CÓD. 62 - 6000 PSI
NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFLS45-12-08	1.5/8 (41,3)	1/2
TSPFLS45-12-12	1.5/8 (41,3)	3/4
TSPFLS45-16-12	1.7/8 (47,6)	3/4
TSPFLS45-16-16	1.7/8 (47,6)	1"
TSPFLS45-20-16	2.1/8 (54)	1"
TSPFLS45-20-20	2.1/8 (54)	1.1/4
TSPFLS45-24-20	2.1/2 (63,5)	1.1/4
TSPFLS45-24-24	2.1/2 (63,5)	1.1/2



CURVA 90° FLANGE CÓD. 62 - 6000 PSI
NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFLS90-12-08	1.5/8 (41,3)	1/2
TSPFLS90-12-12	1.5/8 (41,3)	3/4
TSPFLS90-16-12	1.7/8 (47,6)	3/4
TSPFLS90-16-16	1.7/8 (47,6)	1"
TSPFLS90-20-16	2.1/8 (54)	1"
TSPFLS90-20-20	2.1/8 (54)	1.1/4
TSPFLS90-24-20	2.1/2 (63,5)	1.1/4
TSPFLS90-24-24	2.1/2 (63,5)	1.1/2



CURVA 90° LONGA FLANGE CÓD. 62 - 6000 PSI NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFLS90L-12-08 H=100	1.5/8 (41,3) H=100	1/2
TSPFLS90L-12-12 H=100	1.5/8 (41,3) H=100	3/4
TSPFLS90L-12-12 H=120	1.5/8 (41,3) H=120	3/4
TSPFLS90L-12-12 H=140	1.5/8 (41,3) H=140	3/4
TSPFLS90L-12-12 H=160	1.5/8 (41,3) H=160	3/4
TSPFLS90L-16-12 H=100	1.7/8 (47,6) H=100	3/4
TSPFLS90L-16-12 H=120	1.7/8 (47,6) H=120	3/4
TSPFLS90L-16-12 H=140	1.7/8 (47,6) H=140	3/4
TSPFLS90L-16-12 H=160	1.7/8 (47,6) H=160	3/4
TSPFLS90L-16-16 H=100	1.7/8 (47,6) H=100	1"
TSPFLS90L-16-16 H=120	1.7/8 (47,6) H=120	1"
TSPFLS90L-16-16 H=140	1.7/8 (47,6) H=140	1"
TSPFLS90L-16-16 H=160	1.7/8 (47,6) H=160	1"
TSPFLS90L-20-16 H=100	2.1/8 (54) H=100	1"
TSPFLS90L-20-16 H=120	2.1/8 (54) H=120	1"
TSPFLS90L-20-16 H=140	2.1/8 (54) H=140	1"
TSPFLS90L-20-16 H=160	2.1/8 (54) H=160	1"
TSPFLS90L-20-20 H=100	2.1/8 (54) H=100	1.1/4
TSPFLS90L-20-20 H=120	2.1/8 (54) H=120	1.1/4
TSPFLS90L-20-20 H=140	2.1/8 (54) H=140	1.1/4
TSPFLS90L-20-20 H=160	2.1/8 (54) H=160	1.1/4

FLANGE RETA CÓD. 62 - 6000 PSI - SUPERCAT



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSC-12-12	1.5/8 CAT (41,3)	3/4
TSPFSC-16-12	1.7/8 CAT (47,6)	3/4
TSPFSC-16-16	1.7/8 CAT (47,6)	1"
TSPFSC-20-16	2.1/8 CAT (54)	1"
TSPFSC-20-20	2.1/8 CAT (54)	1.1/4
TSPFSC-24-20	2.1/2 CAT (63,5)	1.1/4
TSPFSC-24-24	2.1/2 CAT (63,5)	1.1/2
TSPFSC-32-32	3.1/8 CAT (79,4)	2"

CURVA 45° FLANGE CÓD. 62 - 6000 PSI - SUPERCAT

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSC45-12-12	1.5/8 CAT (41,3)	3/4
TSPFSC45-16-12	1.7/8 CAT (47,6)	3/4
TSPFSC45-16-16	1.7/8 CAT (47,6)	1"
TSPFSC45-20-16	2.1/8 CAT (54)	1"
TSPFSC45-20-20	2.1/8 CAT (54)	1.1/4
TSPFSC45-24-20	2.1/2 CAT (63,5)	1.1/4
TSPFSC45-24-24	2.1/2 CAT (63,5)	1.1/2
TSPFSC45-32-32	3.1/8 CAT (79,4)	2"



CURVA 90° FLANGE CÓD. 62 - 6000 PSI - SUPERCAT

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSC90-12-12	1.5/8 CAT (41,3)	3/4
TSPFSC90-16-12	1.7/8 CAT (47,6)	3/4
TSPFSC90-16-16	1.7/8 CAT (47,6)	1"
TSPFSC90-20-16	2.1/8 CAT (54)	1"
TSPFSC90-20-20	2.1/8 CAT (54)	1.1/4
TSPFSC90-24-20	2.1/2 CAT (63,5)	1.1/4
TSPFSC90-24-24	2.1/2 CAT (63,5)	1.1/2
TSPFSC90-32-32	3.1/8 CAT (79,4)	2"



CURVA 90° LONGA FLANGE CÓD. 62 - 6000 PSI - SUPERCAT



CÓDIGO	MEDIDA	MANGUEIRA
TSPFSC90L-12-12 H-100	1.5/8 CAT (41,3)	3/4
TSPFSC90L-12-12 H-120	1.5/8 CAT (41,3)	3/4
TSPFSC90L-12-12 H-140	1.5/8 CAT (41,3)	3/4
TSPFSC90L-12-12 H-160	1.5/8 CAT (41,3)	3/4
TSPFSC90L-16-12 H-100	1.7/8 CAT (47,6)	3/4
TSPFSC90L-16-12 H-120	1.7/8 CAT (47,6)	3/4
TSPFSC90L-16-12 H-140	1.7/8 CAT (47,6)	3/4
TSPFSC90L-16-12 H-160	1.7/8 CAT (47,6)	3/4
TSPFSC90L-16-16 H-100	1.7/8 CAT (47,6)	1"
TSPFSC90L-16-16 H-120	1.7/8 CAT (47,6)	1"
TSPFSC90L-16-16 H-140	1.7/8 CAT (47,6)	1"
TSPFSC90L-16-16 H-160	1.7/8 CAT (47,6)	1"
TSPFSC90L-20-16 H-100	2.1/8 CAT (54)	1"
TSPFSC90L-20-16 H-120	2.1/8 CAT (54)	1"
TSPFSC90L-20-16 H-140	2.1/8 CAT (54)	1"
TSPFSC90L-20-16 H-160	2.1/8 CAT (54)	1"
TSPFSC90L-20-20 H-100	2.1/8 CAT (54)	1.1/4
TSPFSC90L-20-20 H-120	2.1/8 CAT (54)	1.1/4
TSPFSC90L-20-20 H-140	2.1/8 CAT (54)	1.1/4
TSPFSC90L-20-20 H-160	2.1/8 CAT (54)	1.1/4
TSPFSC90L-24-20 H-100	2.1/2 CAT (63,5)	1.1/4
TSPFSC90L-24-20 H-120	2.1/2 CAT (63,5)	1.1/4
TSPFSC90L-24-20 H-140	2.1/2 CAT (63,5)	1.1/4
TSPFSC90L-24-20 H-160	2.1/2 CAT (63,5)	1.1/4
TSPFSC90L-24-24 H-100	2.1/2 CAT (63,5)	1.1/2
TSPFSC90L-24-24 H-120	2.1/2 CAT (63,5)	1.1/2
TSPFSC90L-24-24 H-140	2.1/2 CAT (63,5)	1.1/2
TSPFSC90L-24-24 H-160	2.1/2 CAT (63,5)	1.1/2
TSPFSC90L-32-32 H-100	3.1/8 CAT (79,4)	2"
TSPFSC90L-32-32 H-120	3.1/8 CAT (79,4)	2"
TSPFSC90L-32-32 H-140	3.1/8 CAT (79,4)	2"
TSPFSC90L-32-32 H-160	3.1/8 CAT (79,4)	2"

SOS -SALVA VIDAS

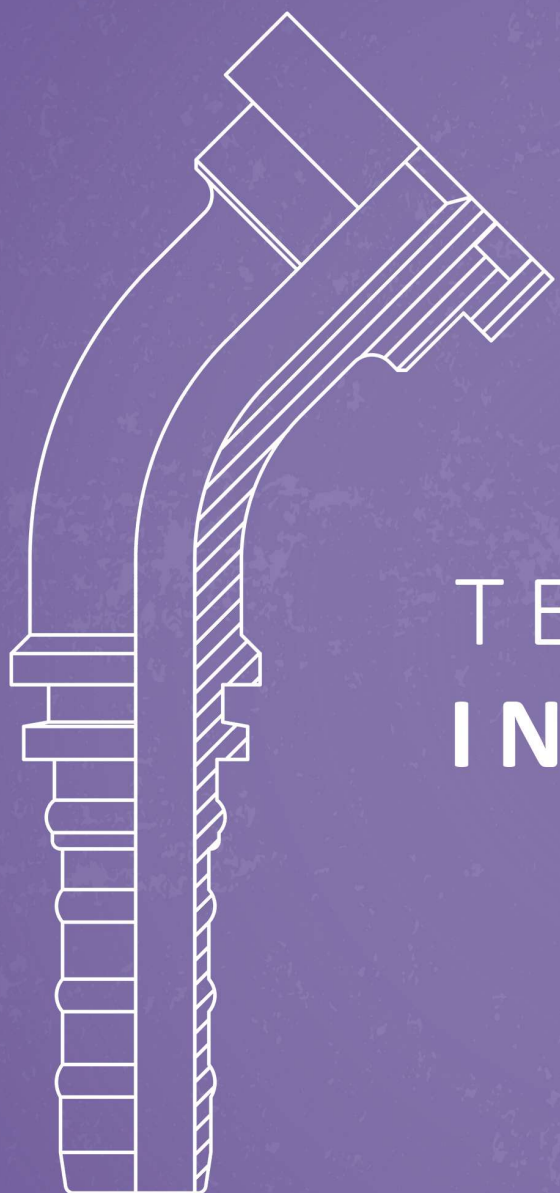
CÓDIGO	MEDIDA
TSPSV-04	1/4
TSPSV-06	3/8
TSPSV-08	1/2
TSPSV-10	5/8
TSPSV-12	3/4
TSPSV-16	1"
TSPSV-20	1.1/4
TSPSV-24	1.1/2
TSPSV-32	2"



EMENDA

CÓDIGO	MEDIDA
TSPS-04	1/4
TSPE-06	3/8
TSPE-08	1/2
TSPE-10	5/8
TSPE-12	3/4
TSPE-16	1"
TSPE-20	1.1/4
TSPE-24	1.1/2
TSPE-32	2"





TERMINAIS
INTERLOCK



CAPA 4SH/R13/R15

CÓDIGO	MANGUEIRA
TSPCPI-06	3/8
TSPCPI-08	1/2
TSPCPI-12	3/4
TSPCPI-16	1"
TSPCPI-20	1.1/4
TSPCPI-24	1.1/2
TSPCPI-32	2"



MACHO FIXO JIC 37° NORMA SAE J514 - JIC 37°

CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPMJI-08-08	3/4 - 16	1/2
TSPMJI-10-08	7/8 - 14	1/2
TSPMJI-12-12	1.1/16 - 12	3/4
TSPMJI-16-16	1.5/16 - 12	1"
TSPMJI-20-20	1.5/8 - 12	1.1/4
TSPMJI-24-24	1.7/8 - 12	1.1/2
TSPMJI-32-32	2.1/2 - 12	2"



FÊMEA GIRATÓRIA JIC 37° NORMA SAE J514 - JIC 37°

CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJI-08-08	3/4 - 16	1/2
TSPFJI-10-08	7/8 - 14	1/2
TSPFJI-12-12	1.1/16 - 12	3/4
TSPFJI-16-16	1.5/16 - 12	1"
TSPFJI-20-20	1.5/8 - 12	1.1/4
TSPFJI-24-24	1.7/8 - 12	1.1/2
TSPFJI-32-32	2.1/2 - 12	2"



CURVA 45° FÊMEA GIRATÓRIA JIC 37° NORMA SAE J514- JIC 37°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJI45-08-08	3/4 - 16	1/2
TSPFJI45-10-08	7/8 - 14	1/2
TSPFJI45-12-12	1.1/16 - 12	3/4
TSPFJI45-16-16	1.5/16 - 12	1"
TSPFJI45-20-20	1.5/8 - 12	1.1/4
TSPFJI45-24-24	1.7/8 - 12	1.1/2
TSPFJI45-32-32	2.1/2 - 12	2"

CURVA 90° FÊMEA GIRATÓRIA JIC 37° NORMA SAE J514- JIC 37°



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFJI90-08-08	3/4 - 16	1/2
TSPFJI90-10-08	7/8 - 14	1/2
TSPFJI90-12-12	1.1/16 - 12	3/4
TSPFJI90-16-16	1.5/16 - 12	1"
TSPFJI90-20-20	1.5/8 - 12	1.1/4
TSPFJI90-24-24	1.7/8 - 12	1.1/2
TSPFJI90-32-32	2.1/2 - 12	2"

MACHO FIXO NPTF NORMA SAE J476



CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPMNI-08-08	1/2 - 14	1/2
TSPMNI-12-12	3/4 - 14	3/4
TSPMNI-16-16	1" 11.1/2	1"
TSPMNI-20-20	1.1/4 - 11.1/2	1.1/4
TSPMNI-24-24	1.1/2 - 11.1/2	1.1/2
TSPMNI-32-32	2" 11.1/2	2"

FÊMEA GIRATÓRIA RETA ORFS NORMA SAE J1453

CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFORSI-12-12	1.3/16 - 12	3/4
TSPFORSI-16-12	1.7/16 - 12	3/4
TSPFORSI-16-16	1.7/16 - 12	1"
TSPFORSI-20-16	1.11/16 - 12	1"
TSPFORSI-20-20	1.11/16 - 12	1.1/4
TSPFORSI-24-24	2" - 12	1.1/2



CURVA 45° FÊMEA GIRATÓRIA ORFS NORMA SAE J1453

CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFORSI45-12-12	1.3/16 - 12	3/4
TSPFORSI45-16-12	1.7/16 - 12	3/4
TSPFORSI45-16-16	1.7/16 - 12	1"
TSPFORSI45-20-16	1.11/16 - 12	1"
TSPFORSI45-20-20	1.11/16 - 12	1.1/4
TSPFORSI45-24-24	2" - 12	1.1/2



CURVA 90° FÊMEA GIRATÓRIA ORFS NORMA SAE J1453

CÓDIGO	ROSCA - FIOS	MANGUEIRA
TSPFORSI90-12-12	1.3/16 - 12	3/4
TSPFORSI90-16-12	1.7/16 - 12	3/4
TSPFORSI90-16-16	1.7/16 - 12	1"
TSPFORSI90-20-16	1.11/16 - 12	1"
TSPFORSI90-20-20	1.11/16 - 12	1.1/4
TSPFORSI90-24-24	2" - 12	1.1/2



MACHO FIXO MÉTRICO

LINHA (L) LEVE (P) PESADA
NORMA DIN3853/3861



CÓDIGO	ROSCA - LINHA - LEVE / PESADA	MANGUEIRA
TSPMMI-30-20-12	30 T.20 (P)	3/4
TSPMMI-36-25-12	36 T.25 (P)	3/4
TSPMMI-36-25-16	36 T.25 (P)	1"
TSPMMI-42-30-16	42 T.30 (P)	1"
TSPMMI-52-38-20	52 T.38 (P)	1.1/4
TSPMMI-52-42-24	52 T.42 (L)	1.1/2

FÊMEA GIRATÓRIA MÉTRICA DKO

LINHA (L) LEVE (P) PESADA
NORMA DIN 3853/3861



CÓDIGO	ROSCA - LINHA - LEVE / PESADA	MANGUEIRA
TSPFMDI-30-20-12	30 DKO 20 (P)	3/4
TSPFMDI-36-25-12	36 DKO 25 (P)	3/4
TSPFMDI-36-25-16	36 DKO 25 (P)	1"
TSPFMDI-42-30-16	42 DKO 30 (P)	1"
TSPFMDI-52-38-20	52 DKO 38 (P)	1.1/4
TSPFMDI-52-42-24	52 DKO 42 (L)	1.1/2

CURVA 45° FÊMEA GIRATÓRIA MÉTRICA DKO

LINHA (L) LEVE (P) PESADA
NORMA DIN 3853/3861



CÓDIGO	ROSCA - LINHA - LEVE / PESADA	MANGUEIRA
TSPFMDI45-30-20-12	30 DKO 20 (P)	3/4
TSPFMDI45-36-25-12	36 DKO 25 (P)	3/4
TSPFMDI45-36-25-16	36 DKO 25 (P)	1"
TSPFMDI45-42-30-16	42 DKO 30 (P)	1"
TSPFMDI45-52-38-20	52 DKO 38 (P)	1.1/4
TSPFMDI45-52-42-24	52 DKO 42 (L)	1.1/2

CURVA 90° FÊMEA GIRATÓRIA MÉTRICA DKO
 LINHA (L) LEVE (P) PESADA
 NORMA DIN 3853/3861

CÓDIGO	ROSCA - LINHA - LEVE / PESADA	MANGUEIRA
TSPFMDI90-30-20-12	30 DKO 20 (P)	3/4
TSPFMDI90-36-25-12	36 DKO 25 (P)	3/4
TSPFMDI90-36-25-16	36 DKO 25 (P)	1"
TSPFMDI90-42-30-16	42 DKO 30 (P)	1"
TSPFMDI90-52-38-20	52 DKO 38 (P)	1.1/4
TSPFMDI90-52-42-24	52 DKO 42 (L)	1.1/2



FLANGE RETA Cód. 61 - 3000 PSI
 NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFLI-12-12	1.1/2 (38,1)	3/4
TSPFLI-16-12	1.3/4 (44,4)	3/4
TSPFLI-16-16	1.3/4 (44,4)	1"
TSPFLI-20-16	2" (50,8)	1"
TSPFLI-20-20	2" (50,8)	1.1/4
TSPFLI-24-16	2.3/8 (60,4)	1"
TSPFLI-24-20	2.3/8 (60,4)	1.1/4
TSPFLI-24-24	2.3/8 (60,4)	1.1/2
TSPFLI-32-24	2.13/16 (71,4)	1.1/2
TSPFLI-32-32	2.13/16 (71,4)	2"



CURVA 45° FLANGE CÓD. 61 - 3000 PSI NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFLI45-12-12	1.1/2 (38,1)	3/4
TSPFLI45-16-12	1.3/4 (44,4)	3/4
TSPFLI45-16-16	1.3/4 (44,4)	1"
TSPFLI45-20-16	2" (50,8)	1"
TSPFLI45-20-20	2" (50,8)	1.1/4
TSPFLI45-24-16	2.3/8 (60,4)	1"
TSPFLI45-24-20	2.3/8 (60,4)	1.1/4
TSPFLI45-24-24	2.3/8 (60,4)	1.1/2
TSPFLI45-32-24	2.13/16 (71,4)	1.1/2
TSPFLI45-32-32	2.13/16 (71,4)	2"

CURVA 90° FLANGE CÓD. 61 - 3000 PSI NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFLI90-12-12	1.1/2 (38,1)	3/4
TSPFLI90-16-12	1.3/4 (44,4)	3/4
TSPFLI90-16-16	1.3/4 (44,4)	1"
TSPFLI90-20-16	2" (50,8)	1"
TSPFLI90-20-20	2" (50,8)	1.1/4
TSPFLI90-24-16	2.3/8 (60,4)	1"
TSPFLI90-24-20	2.3/8 (60,4)	1.1/4
TSPFLI90-24-24	2.3/8 (60,4)	1.1/2
TSPFLI90-32-24	2.13/16 (71,4)	1.1/2
TSPFLI90-32-32	2.13/16 (71,4)	2"

FLANGE RETA CÓD. 62 - 6000 PSI NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSI-12-08	1.5/8 (41,3)	1/2
TSPFSI-12-12	1.5/8 (41,3)	3/4
TSPFSI-16-12	1.7/8 (47,6)	3/4
TSPFSI-16-16	1.7/8 (47,6)	1"
TSPFSI-20-16	2.1/8 (54)	1"
TSPFSI-20-20	2.1/8 (54)	1.1/4



CURVA 45° CÓD. 62 - 6000 PSI NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSI45-12-08	1.5/8 (41,3)	1/2
TSPFSI45-12-12	1.5/8 (41,3)	3/4
TSPFSI45-16-12	1.7/8 (47,6)	3/4
TSPFSI45-16-16	1.7/8 (47,6)	1"
TSPFSI45-20-16	2.1/8 (54)	1"
TSPFSI45-20-20	2.1/8 (54)	1.1/4



CURVA 90° CÓD. 62 - 6000 PSI NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSI90-12-08	1.5/8 (41,3)	1/2
TSPFSI90-12-12	1.5/8 (41,3)	3/4
TSPFSI90-16-12	1.7/8 (47,6)	3/4
TSPFSI90-16-16	1.7/8 (47,6)	1"
TSPFSI90-20-16	2.1/8 (54)	1"
TSPFSI90-20-20	2.1/8 (54)	1.1/4

FLANGE RETA CÓD. 62 - 9000 PSI - SUPERCAT NORMA SAE J518



CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSCI-12-08	1.5/8 CAT (41,3)	1/2
TSPFSCI-12-12	1.5/8 CAT (41,3)	3/4
TSPFSCI-16-12	1.7/8 CAT (47,6)	3/4
TSPFSCI-16-16	1.7/8 CAT (47,6)	1"
TSPFSCI-20-16	2.1/8 CAT (54)	1"
TSPFSCI-20-20	2.1/8 CAT (54)	1.1/4
TSPFSCI-24-20	2.1/2 CAT (63,6)	1.1/4
TSPFSCI-24-24	2.1/2 CAT (63,6)	1.1/2
TSPFSCI-32-32	3.1/8 CAT (79,4)	2"

CURVA 45° FLANGE CÓD. 62 - 6000 PSI - SUPERCAT
NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSCI45-12-08	1.5/8 CAT (41,3)	1/2
TSPFSCI45-12-12	1.5/8 CAT (41,3)	3/4
TSPFSCI45-16-12	1.7/8 CAT (47,6)	3/4
TSPFSCI45-16-16	1.7/8 CAT (47,6)	1"
TSPFSCI45-20-16	2.1/8 CAT (54)	1"
TSPFSCI45-20-20	2.1/8 CAT (54)	1.1/4
TSPFSCI45-24-20	2.1/2 CAT (63,6)	1.1/4
TSPFSCI45-24-24	2.1/2 CAT (63,6)	1.1/2
TSPFSCI45-32-32	3.1/8 CAT (79,4)	2"



CURVA 90° FLANGE CÓD. 62 - 6000 PSI - SUPERCAT
NORMA SAE J518

CÓDIGO	POLEGADA - MILÍMETRO	MANGUEIRA
TSPFSCI90-12-08	1.5/8 CAT (41,3)	1/2
TSPFSCI90-12-12	1.5/8 CAT (41,3)	3/4
TSPFSCI90-16-12	1.7/8 CAT (47,6)	3/4
TSPFSCI90-16-16	1.7/8 CAT (47,6)	1"
TSPFSCI90-20-16	2.1/8 CAT (54)	1"
TSPFSCI90-20-20	2.1/8 CAT (54)	1.1/4
TSPFSCI90-24-20	2.1/2 CAT (63,6)	1.1/4
TSPFSCI90-24-24	2.1/2 CAT (63,6)	1.1/2
TSPFSCI91-32-32	3.1/8 CAT (79,4)	2"





ADAPTADORES



MACHO FIXO NPT X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMNMJ-02-04	1/8 - 27	7/16 - 20
TSPAMNMJ-02-05	1/8 - 27	1/2 - 20
TSPAMNMJ-02-06	1/8 - 27	9/16 - 18
TSPAMNMJ-04-04	1/4 - 18	7/16 - 20
TSPAMNMJ-04-05	1/4 - 18	1/2 - 20
TSPAMNMJ-04-06	1/4 - 18	9/16 - 18
TSPAMNMJ-04-08	1/4 - 18	3/4 - 16
TSPAMNMJ-06-04	3/8 - 18	7/16 - 20
TSPAMNMJ-06-06	3/8 - 18	9/16 - 18
TSPAMNMJ-06-08	3/8 - 18	3/4 - 16
TSPAMNMJ-06-10	3/8 - 18	7/8 - 14
TSPAMNMJ-08-06	1/2 - 14	9/16 - 18
TSPAMNMJ-08-08	1/2 - 14	3/4 - 16
TSPAMNMJ-08-10	1/2 - 14	7/8 - 14
TSPAMNMJ-08-12	1/2 - 14	1.1/16 - 12
TSPAMNMJ-12-08	3/4 - 14	3/4 - 16
TSPAMNMJ-12-10	3/4 - 14	7/8 - 14
TSPAMNMJ-12-12	3/4 - 14	1.1/16 - 14
TSPAMNMJ-12-16	3/4 - 14	1.5/16 - 12
TSPAMNMJ-16-08	1" 11.1/2	3/4 - 16
TSPAMNMJ-16-10	1" 11.1/2	7/8 - 14
TSPAMNMJ-16-12	1" 11.1/2	1.1/16 - 14
TSPAMNMJ-16-16	1" 11.1/2	1.5/16 - 12
TSPAMNMJ-16-20	1" 11.1/2	1.5/8 - 12
TSPAMNMJ-20-16	1.1/4 - 11.1/2	1.5/16 - 12
TSPAMNMJ-20-20	1.1/4 - 11.1/2	1.5/8 - 12
TSPAMNMJ-20-24	1.1/4 - 11.1/2	1.7/8 - 12
TSPAMNMJ-24-20	1.1/2 - 11.1/2	1.5/8 - 12
TSPAMNMJ-24-24	1.1/2 - 11.1/2	1.7/8 - 12
TSPAMNMJ-24-32	1.1/2 - 11.1/2	2.1/2 - 12
TSPAMNMJ-32-32	2" 11.1/2	2.1/2 - 12

MACHO FIXO UNF O'RING X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMOMJ-04-04	7/16 - 20	7/16 - 20
TSPAMOMJ-04-05	7/16 - 20	1/2 - 20
TSPAMOMJ-04-06	7/16 - 20	9/16 - 18
TSPAMOMJ-04-08	7/16 - 20	3/4 - 16
TSPAMOMJ-05-04	1/2 - 20	7/16 - 20
TSPAMOMJ-05-05	1/2 - 20	1/2 - 20
TSPAMOMJ-05-06	1/2 - 20	9/16 - 18
TSPAMOMJ-06-04	9/16 - 18	7/16 - 20
TSPAMOMJ-06-05	9/16 - 18	1/2 - 20
TSPAMOMJ-06-06	9/16 - 18	9/16 - 18
TSPAMOMJ-06-08	9/16 - 18	3/4 - 16
TSPAMOMJ-06-10	9/16 - 18	7/8 - 14
TSPAMOMJ-08-04	3/4 - 16	7/16 - 20
TSPAMOMJ-08-05	3/4 - 16	1/2 - 20
TSPAMOMJ-08-06	3/4 - 16	9/16 - 18
TSPAMOMJ-08-08	3/4 - 16	3/4 - 16
TSPAMOMJ-08-10	3/4 - 16	7/8 - 14
TSPAMOMJ-08-12	3/4 - 16	1.1/16 - 12
TSPAMOMJ-10-06	7/8 - 14	9/16 - 18
TSPAMOMJ-10-08	7/8 - 14	3/4 - 16
TSPAMOMJ-10-10	7/8 - 14	7/8 - 14
TSPAMOMJ-10-12	7/8 - 14	1.1/16 - 12
TSPAMOMJ-12-04	1.1/16 - 12	7/16 - 20
TSPAMOMJ-12-08	1.1/16 - 12	3/4 - 16
TSPAMOMJ-12-10	1.1/16 - 12	7/8 - 14
TSPAMOMJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPAMOMJ-12-16	1.1/16 - 12	1.5/16 - 12
TSPAMOMJ-16-10	1.5/16 - 12	7/8 - 14
TSPAMOMJ-16-12	1.5/16 - 12	1.1/16 - 12
TSPAMOMJ-16-16	1.5/16 - 12	1.5/16 - 12
TSPAMOMJ-20-12	1.5/8 - 12	1.1/16 - 12
TSPAMOMJ-20-16	1.5/8 - 12	1.5/16 - 12
TSPAMOMJ-20-20	1.5/8 - 12	1.5/8 - 12
TSPAMOMJ-24-20	1.7/8 - 12	1.5/8 - 12
TSPAMOMJ-24-24	1.7/8 - 12	1.7/8 - 12
TSPAMOMJ-32-32	2.1/2 - 12	2.1/2 - 12

MACHO FIXO JIC 37° X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMJ-04-04	7/16 - 20	7/16 - 20
TSPAMJ-04-05	7/16 - 20	1/2 - 20
TSPAMJ-04-06	7/16 - 20	9/16 - 18
TSPAMJ-05-05	1/2 - 20	1/2 - 20
TSPAMJ-05-06	1/2 - 20	9/16 - 18
TSPAMJ-05-08	1/2 - 20	3/4 - 16
TSPAMJ-05-10	1/2 - 20	7/8 - 14
TSPAMJ-06-06	9/16 - 18	9/16 - 18
TSPAMJ-06-08	9/16 - 18	3/4 - 16
TSPAMJ-06-10	9/16 - 18	7/8 - 14
TSPAMJ-06-12	9/16 - 18	1.1/16 - 12
TSPAMJ-08-08	3/4 - 16	3/4 - 16
TSPAMJ-08-10	3/4 - 16	7/8 - 14
TSPAMJ-08-12	3/4 - 16	1.1/16 - 12
TSPAMJ-08-16	3/4 - 16	1.5/16 - 12
TSPAMJ-10-10	7/8 - 14	7/8 - 14
TSPAMJ-10-12	7/8 - 14	1.1/16 - 12
TSPAMJ-10-16	7/8 - 14	1.5/16 - 12
TSPAMJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPAMJ-12-16	1.1/16 - 12	1.5/16 - 12
TSPAMJ-16-16	1.5/16 - 12	1.5/16 - 12
TSPAMJ-16-20	1.5/16 - 12	1.5/8 - 12
TSPAMJ-20-20	1.5/8 - 12	1.5/8 - 12
TSPAMJ-20-24	1.5/8 - 12	1.7/8 - 12
TSPAMJ-20-32	1.5/8 - 12	2.1/2 - 12
TSPAMJ-24-24	1.7/8 - 12	1.7/8 - 12
TSPAMJ-24-32	1.7/8 - 12	2.1/2 - 12
TSPAMJ-32-32	2.1/2 - 12	2.1/2 - 12

MACHO FIXO JIC 37° X MACHO FIXO JIC 37° PAINEL



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMJP-04-04	7/16 - 20	7/16 - 20
TSPAMJP-05-05	1/2 - 20	1/2 - 20
TSPAMJP-06-06	9/16 - 18	9/16 - 18
TSPAMJP-08-08	3/4 - 16	3/4 - 16
TSPAMJP-10-10	7/8 - 14	7/8 - 14
TSPAMJP-12-12	1.1/16 - 12	1.1/16 - 12
TSPAMJP-16-16	1.5/16 - 12	1.5/16 - 12
TSPAMJP-20-20	1.5/8 - 12	1.5/8 - 12
TSPAMJP-24-24	1.7/8 - 12	1.7/8 - 12
TSPAMJP-32-32	2.1/2 - 12	2.1/2 - 12

MACHO FIXO NPT X MACHO FIXO NPT



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMN-02-02	1/8 - 27	1/8 - 27
TSPAMN-02-04	1/8 - 27	1/4 - 18
TSPAMN-02-06	1/8 - 27	3/8 - 18
TSPAMN-04-04	1/4 - 18	1/4 - 18
TSPAMN-04-06	1/4 - 18	3/8 - 18
TSPAMN-04-08	1/4 - 18	1/2 - 14
TSPAMN-06-06	3/8 - 18	3/8 - 18
TSPAMN-06-08	3/8 - 18	1/2 - 14
TSPAMN-08-08	1/2 - 14	1/2 - 14
TSPAMN-08-12	1/2 - 14	3/4 - 14
TSPAMN-10-10	5/8 - 14	5/8 - 14
TSPAMN-12-12	3/4 - 14	3/4 - 14
TSPAMN-12-16	3/4 - 14	1" 11.1/2
TSPAMN-16-16	1" 11.1/2	1" 11.1/2
TSPAMN-16-20	1" 11.1/2	1.1/4 - 11.1/2
TSPAMN-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPAMN-20-24	1.1/4 - 11.1/2	1.1/2 - 11.1/2
TSPAMN-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPAMN-24-32	1.1/2 - 11.1/2	2" 11.1/2
TSPAMN-32-32	2" 11.1/2	2" 11.1/2

MACHO FIXO MÉTRICO O’RING X MACHO FIXO JIC 37°

CÓDIGO	ROSCA 1	ROSCA 2
TSPAMMOMJ-12-04	12 mm	7/16 - 20
TSPAMMOMJ-14-04	14 mm	7/16 - 20
TSPAMMOMJ-14-06	14 mm	9/16 - 18
TSPAMMOMJ-16-06	16 mm	9/16 - 18
TSPAMMOMJ-16-08	16 mm	3/4 - 16
TSPAMMOMJ-16-10	16 mm	7/8 - 14
TSPAMMOMJ-18-06	18 mm	9/16 - 18
TSPAMMOMJ-18-08	18 mm	3/4 - 16
TSPAMMOMJ-18-10	18 mm	7/8 - 14
TSPAMMOMJ-20-06	20 mm	9/16 - 18
TSPAMMOMJ-20-08	20 mm	3/4 - 16
TSPAMMOMJ-20-10	20 mm	7/8 - 14
TSPAMMOMJ-22-08	22 mm	3/4 - 16
TSPAMMOMJ-22-10	22 mm	7/8 - 14
TSPAMMOMJ-22-12	22 mm	1.1/16 - 12



MACHO FIXO ORFS X MACHO FIXO JIC 37°

CÓDIGO	ROSCA 1	ROSCA 2
TSPAMORSMJ-04-04	9/16 - 18	7/16 - 20
TSPAMORSMJ-04-05	9/16 - 18	1/2 - 20
TSPAMORSMJ-04-06	9/16 - 18	9/16 - 18
TSPAMORSMJ-06-05	11/16 - 16	1/2 - 20
TSPAMORSMJ-06-06	11/16 - 16	9/16 - 18
TSPAMORSMJ-06-08	11/16 - 16	3/4 - 16
TSPAMORSMJ-08-08	13/16 - 16	3/4 - 16
TSPAMORSMJ-08-10	13/16 - 16	7/8 - 14
TSPAMORSMJ-10-10	1" - 14	7/8 - 14
TSPAMORSMJ-10-12	1" - 14	1.1/16 - 12
TSPAMORSMJ-12-10	1.3/16 - 12	7/8 - 14
TSPAMORSMJ-12-12	1.3/16 - 12	1.1/16 - 12
TSPAMORSMJ-12-16	1.3/16 - 12	1.5/16 - 12
TSPAMORSMJ-16-16	1.7/16 - 12	1.5/16 - 12
TSPAMORSMJ-16-20	1.7/16 - 12	1.5/8 - 12
TSPAMORSMJ-20-20	1.11/16 - 12	1.5/8 - 12
TSPAMORSMJ-20-24	1.11/16 - 12	1.7/8 - 12
TSPAMORSMJ-24-24	2" - 12	1.7/8 - 12



MACHO BSP O'RING X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMBOMJ-02-04	1/8 - 28	7/16 - 20
TSPAMBOMJ-04-04	1/4 - 19	7/16 - 20
TSPAMBOMJ-04-05	1/4 - 19	1/2 - 20
TSPAMBOMJ-04-06	1/4 - 19	9/16 - 18
TSPAMBOMJ-04-08	1/4 - 19	3/4 - 16
TSPAMBOMJ-06-04	3/8 - 19	7/16 - 20
TSPAMBOMJ-06-05	3/8 - 19	1/2 - 20
TSPAMBOMJ-06-06	3/8 - 19	9/16 - 18
TSPAMBOMJ-06-08	3/8 - 19	3/4 - 16
TSPAMBOMJ-06-10	3/8 - 19	7/8 - 14
TSPAMBOMJ-08-06	1/2 - 14	9/16 - 18
TSPAMBOMJ-08-08	1/2 - 14	3/4 - 16
TSPAMBOMJ-08-10	1/2 - 14	7/8 - 14
TSPAMBOMJ-08-12	1/2 - 14	1.1/16 - 12
TSPAMBOMJ-12-10	3/4 - 14	7/8 - 14
TSPAMBOMJ-12-12	3/4 - 14	1.1/16 - 12
TSPAMBOMJ-12-16	3/4 - 14	1.5/16 - 12
TSPAMBOMJ-16-12	1" - 11	1.1/16 - 12
TSPAMBOMJ-16-16	1" - 11	1.5/16 - 12
TSPAMBOMJ-20-16	1.1/4 - 11	1.5/16 - 12
TSPAMBOMJ-20-20	1.1/4 - 11	1.5/8 - 12
TSPAMBOMJ-20-24	1.1/4 - 11	1.7/8 - 12
TSPAMBOMJ-24-24	1.1/2 - 11	1.7/8 - 12

MACHO FIXO MÉTRICO X MACHO FIXO MÉTRICO



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMM-M12T06-M12T06	12 T.06	12 T.06
TSPAMM-M14T08-M14T08	14 T.08	14 T.08
TSPAMM-M16T10-M16T10	16 T.10	16 T.10
TSPAMM-M18T12-M18T12	18 T.12	18 T.12
TSPAMM-M20T12-M20T12	20 T.12	20 T.12
TSPAMM-M22T15-M22T15	22 T.15	22 T.15
TSPAMM-M24T16-M24T16	24 T.16	24 T.16
TSPAMM-M26T18-M26T18	26 T.18	26 T.18
TSPAMM-M28T19-M28T19	28 T.19	28 T.19
TSPAMM-M30T20-M30T20	30 T.20	30 T.20
TSPAMM-M30T22-M30T22	30 T.22	30 T.22
TSPAMM-M34T25-M34T25	34 T.25	34 T.25
TSPAMM-M36T25-M36T25	36 T.25	36 T.25
TSPAMM-M42T30-M42T30	42 T.30	42 T.30
TSPAMM-M42T32-M42T32	42 T.32	42 T.32
TSPAMM-M52T38-M52T38	52 T.38	52 T.38
TSPAMM-M52T42-M52T42	52 T.42	52 T.42

MACHO FIXO NPT X MACHO FIXO MÉTRICO



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMNMM-02-M12T06	1/8 - 27	12 T.06
TSPAMNMM-04-M12T06	1/4 - 18	12 T.06
TSPAMNMM-04-M14T08	1/4 - 18	14 T.08
TSPAMNMM-04-M16T10	1/4 - 18	16 T.10
TSPAMNMM-06-M16T10	3/8 - 18	16 T.10
TSPAMNMM-04-M18T12	1/4 - 18	18 T.12
TSPAMNMM-06-M18T12	3/8 - 18	18 T.12
TSPAMNMM-08-M18T12	1/2 - 14	18 T.12
TSPAMNMM-06-M20T12	3/8 - 18	20 T.12
TSPAMNMM-08-M20T12	1/2 - 14	20 T.12
TSPAMNMM-06-M22T15	3/8 - 18	22 T.15
TSPAMNMM-08-M22T15	1/2 - 14	22 T.15
TSPAMNMM-08-M24T16	1/2 - 14	24 T.16
TSPAMNMM-08-M26T18	1/2 - 14	26 T.18
TSPAMNMM-12-M26T18	3/4 - 14	26 T.18
TSPAMNMM-12-M28T19	3/4 - 14	28 T.19
TSPAMNMM-12-M30T20	3/4 - 14	30 T.20
TSPAMNMM-12-M30T22	3/4 - 14	30 T.22
TSPAMNMM-12-M34T25	3/4 - 14	34 T.25
TSPAMNMM-16-M34T25	1" 11.1/2	34 T.25
TSPAMNMM-12-M36T25	3/4 - 14	36 T.25
TSPAMNMM-16-M36T25	1" 11.1/2	36 T.25
TSPAMNMM-16-M42T30	1" 11.1/2	42 T.30
TSPAMNMM-16-M42T32	1" 11.1/2	42 T.32
TSPAMNMM-20-M52T38	1.1/4 - 11.1/2	52 T.38
TSPAMNMM-24-M52T52	1.1/2 - 11.1/2	52 T.42

MACHO FIXO JIC 37° X FÊMEA GIRATÓRIA JIC 37°

CÓDIGO	MEDIDA	ROSCA
TSPAMJFJ-04-04	7/16 - 20	7/16 - 20
TSPAMJFJ-05-05	1/2 - 20	1/2 - 20
TSPAMJFJ-06-06	9/16 - 18	9/16 - 18
TSPAMJFJ-08-08	3/4 - 16	3/4 - 16
TSPAMJFJ-10-10	7/8 - 14	7/8 - 14
TSPAMJFJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPAMJFJ-16-16	1.5/16 - 12	1.5/16 - 12
TSPAMJFJ-20-20	1.5/8 - 12	1.5/8 - 12
TSPAMJFJ-24-24	1.7/8 - 12	1.7/8 - 12
TSPAMJFJ-32-32	2.1/2 - 12	2.1/2 - 12



FÊMEA FIXA NPT X FÊMEA FIXA NPT

CÓDIGO	ROSCA 1	ROSCA 2
TSPAFN-02-02	1/8 - 27	1/8 - 27
TSPAFN-04-04	1/4 - 18	1/4 - 18
TSPAFN-04-06	1/4 - 18	3/8 - 18
TSPAFN-06-06	3/8 - 18	3/8 - 18
TSPAFN-06-08	3/8 - 18	1/2 - 14
TSPAFN-08-08	1/2 - 14	1/2 - 14
TSPAFN-12-12	3/4 - 14	3/4 - 14
TSPAFN-16-16	1" 11.1/2	1" 11.1/2
TSPAFN-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPAFN-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPAFN-32-32	2" 11.1/2	2" 11.1/2



REDUTOR MACHO FIXO NPT X FÊMEA FIXA NPT



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMNFN-04-02	1/4 - 18	1/8 - 27
TSPAMNFN-06-04	3/8 - 18	1/4 - 18
TSPAMNFN-08-06	1/2 - 14	3/8 - 18
TSPAMNFN-12-08	3/4 - 14	1/2 - 14
TSPAMNFN-16-12	1" 11.1/2	3/4 - 14
TSPAMNFN-20-16	1.1/4 - 11.1/2	1" 11.1/2
TSPAMNFN-24-20	1.1/2 - 11.1/2	1.1/4 - 11.1/2
TSPAMNFN-32-20	2" 11.1/2	1.1/4 - 11.1/2
TSPAMNFN-32-24	2" 11.1/2	1.1/2 - 11.1/2

PROLONGADOR MACHO FIXO NPT X FÊMEA FIXA NPT



CÓDIGO	ROSCA 1	ROSCA 2
TSPAMNFN-02-02	1/8 - 27	1/8 - 27
TSPAMNFN-02-04	1/8 - 27	1/4 - 18
TSPAMNFN-04-04	1/4 - 18	1/4 - 18
TSPAMNFN-04-06	1/4 - 18	3/8 - 18
TSPAMNFN-06-06	3/8 - 18	3/8 - 18
TSPAMNFN-06-08	3/8 - 18	1/2 - 14
TSPAMNFN-08-08	1/2 - 14	1/2 - 14
TSPAMNFN-08-12	1/2 - 14	3/4 - 14
TSPAMNFN-12-12	3/4 - 14	3/4 - 14
TSPAMNFN-12-16	3/4 - 14	1" 11.1/2
TSPAMNFN-16-16	1" 11.1/2	1" 11.1/2
TSPAMNFN-16-20	1" 11.1/2	1.1/4 - 11.1/2
TSPAMNFN-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPAMNFN-20-24	1.1/4 - 11.1/2	1.1/2 - 11.1/2
TSPAMNFN-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPAMNFN-24-32	1.1/2 - 11.1/2	2" 11.1/2
TSPAMNFN-32-32	2" 11.1/2	2" 11.1/2

FÊMEA FIXA NPT X MACHO FIXO JIC 37°

CÓDIGO	ROSCA 1	ROSCA 2
TSPAFNMJ-02-04	1/8 - 27	7/16 - 20
TSPAFNMJ-04-04	1/4 - 18	7/16 - 20
TSPAFNMJ-04-05	1/4 - 18	1/2 - 20
TSPAFNMJ-04-06	1/4 - 18	9/16 - 18
TSPAFNMJ-06-06	3/8 - 18	9/16 - 18
TSPAFNMJ-06-08	3/8 - 18	3/4 - 16
TSPAFNMJ-06-10	3/8 - 18	7/8 - 14
TSPAFNMJ-08-06	1/2 - 14	9/16 - 18
TSPAFNMJ-08-08	1/2 - 14	3/4 - 16
TSPAFNMJ-08-10	1/2 - 14	7/8 - 14
TSPAFNMJ-08-12	1/2 - 14	1.1/16 - 12
TSPAFNMJ-12-08	3/4 - 14	3/4 - 16
TSPAFNMJ-12-10	3/4 - 14	7/8 - 14
TSPAFNMJ-12-12	3/4 - 14	1.1/16 - 12
TSPAFNMJ-12-16	3/4 - 14	1.5/16 - 12
TSPAFNMJ-16-16	1" 11.1/2	1.5/16 - 12
TSPAFNMJ-24-24	1.1/2 - 11.1/2	1.7/8 - 12
TSPAFNMJ-32-32	2" 11.1/2	2.1/2 - 12



FLANGE CÓD. 61 X MACHO FIXO JIC 37°

CÓDIGO	MEDIDA	ROSCA
TSPAFLMJ-12-12	1.1/2 (38,1)	1.1/16 - 12
TSPAFLMJ-16-16	1.3/4 (44,4)	1.5/16 - 12
TSPAFLMJ-20-20	2" (50,8)	1.5/8 - 12
TSPAFLMJ-24-24	2.3/8 (60,3)	1.7/8 - 12



FLANGE CÓD. 62 X MACHO FIXO JIC 37°



CÓDIGO	MEDIDA	ROSCA
TSPAFLSMJ-12-12	1.5/8 (41,3)	1.1/16 - 12
TSPAFLSMJ-16-16	1.7/8 (47,6)	1.5/16 - 12
TSPAFLSMJ-20-20	2.1/8 (54,0)	1.5/8 - 12
TSPAFLSMJ-24-24	2.1/2 (63,5)	1.7/8 - 12

COT. 45° MACHO FIXO NPT X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPC45MNMJ-02-04	1/8 - 27	7/16 - 20
TSPC45MNMJ-04-04	1/4 - 18	7/16 - 20
TSPC45MNMJ-04-05	1/4 - 18	1/2 - 20
TSPC45MNMJ-04-06	1/4 - 18	9/16 - 18
TSPC45MNMJ-04-08	1/4 - 18	3/4 - 16
TSPC45MNMJ-06-04	3/8 - 18	7/16 - 20
TSPC45MNMJ-06-06	3/8 - 18	9/16 - 18
TSPC45MNMJ-06-08	3/8 - 18	3/4 - 16
TSPC45MNMJ-06-10	3/8 - 18	7/8 - 14
TSPC45MNMJ-08-06	1/2 - 14	9/16 - 18
TSPC45MNMJ-08-08	1/2 - 14	3/4 - 16
TSPC45MNMJ-08-10	1/2 - 14	7/8 - 14
TSPC45MNMJ-08-12	1/2 - 14	1.1/16 - 12
TSPC45MNMJ-12-08	3/4 - 14	3/4 - 16
TSPC45MNMJ-12-10	3/4 - 14	7/8 - 14
TSPC45MNMJ-12-12	3/4 - 14	1.1/16 - 14
TSPC45MNMJ-12-16	3/4 - 14	1.5/16 - 12
TSPC45MNMJ-16-12	1" 11.1/2	1.1/16 - 14
TSPC45MNMJ-16-16	1" 11.1/2	1.5/16 - 12
TSPC45MNMJ-16-20	1" 11.1/2	1.5/8 - 12
TSPC45MNMJ-20-16	1.1/4 - 11.1/2	1.5/16 - 12
TSPC45MNMJ-20-20	1.1/4 - 11.1/2	1.5/8 - 12
TSPC45MNMJ-24-20	1.1/2 - 11.1/2	1.5/8 - 12
TSPC45MNMJ-24-24	1.1/2 - 11.1/2	1.7/8 - 12
TSPC45MNMJ-32-32	2" 11.1/2	2.1/2 - 12

COT. 45° MACHO FIXO O'RING AJUSTÁVEL X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPC45MOAMJ-04-04	7/16 - 20	7/16 - 20
TSPC45MOAMJ-04-05	7/16 - 20	1/2 - 20
TSPC45MOAMJ-04-06	7/16 - 20	9/16 - 18
TSPC45MOAMJ-05-05	1/2 - 20	1/2 - 20
TSPC45MOAMJ-05-06	1/2 - 20	9/16 - 18
TSPC45MOAMJ-06-04	9/16 - 18	7/16 - 20
TSPC45MOAMJ-06-06	9/16 - 18	9/16 - 18
TSPC45MOAMJ-06-08	9/16 - 18	3/4 - 16
TSPC45MOAMJ-08-04	3/4 - 16	7/16 - 20
TSPC45MOAMJ-08-06	3/4 - 16	9/16 - 18
TSPC45MOAMJ-08-08	3/4 - 16	3/4 - 16
TSPC45MOAMJ-08-10	3/4 - 16	7/8 - 14
TSPC45MOAMJ-08-12	3/4 - 16	1.1/16 - 12
TSPC45MOAMJ-10-06	7/8 - 14	9/16 - 18
TSPC45MOAMJ-10-08	7/8 - 14	3/4 - 16
TSPC45MOAMJ-10-10	7/8 - 14	7/8 - 14
TSPC45MOAMJ-10-12	7/8 - 14	1.1/16 - 12
TSPC45MOAMJ-12-08	1.1/16 - 12	3/4 - 16
TSPC45MOAMJ-12-10	1.1/16 - 12	7/8 - 14
TSPC45MOAMJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPC45MOAMJ-12-16	1.1/16 - 12	1.5/16 - 12
TSPC45MOAMJ-16-12	1.5/16 - 12	1.1/16 - 12
TSPC45MOAMJ-16-16	1.5/16 - 12	1.5/16 - 12
TSPC45MOAMJ-16-20	1.5/16 - 12	1.5/8 - 12
TSPC45MOAMJ-20-16	1.5/8 - 12	1.5/16 - 12
TSPC45MOAMJ-20-20	1.5/8 - 12	1.5/8 - 12
TSPC45MOAMJ-20-24	1.5/8 - 12	1.7/8 - 12
TSPC45MOAMJ-24-20	1.7/8 - 12	1.5/8 - 12
TSPC45MOAMJ-24-24	1.7/8 - 12	1.7/8 - 12
TSPC45MOAMJ-32-22	2.1/2 - 12	2.1/2 - 12

COT. 45° MACHO FIXO NPT X MACHO FIXO NPT



CÓDIGO	ROSCA 1	ROSCA 2
TSPC45MN-02-02	1/8 - 27	1/8 - 27
TSPC45MN-04-04	1/4 - 18	1/4 - 18
TSPC45MN-06-06	3/8 - 18	3/8 - 18
TSPC45MN-08-08	1/2 - 14	1/2 - 14
TSPC45MN-12-12	3/4 - 14	3/4 - 14
TSPC45MN-16-16	1" 11.1/2	1" 11.1/2
TSPC45MN-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPC45MN-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPC45MN-32-32	2" 11.1/2	2.1/2 - 12

COT. 45° FÊMEA FIXA NPT X FÊMEA GIRATÓRIA JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPC45FN-02-02	1/8 - 27	1/8 - 27
TSPC45FN-04-04	1/4 - 18	1/4 - 18
TSPC45FN-06-06	3/8 - 18	3/8 - 18
TSPC45FN-08-08	1/2 - 14	1/2 - 14
TSPC45FN-12-12	3/4 - 14	3/4 - 14
TSPC45FN-16-16	1" 11.1/2	1" 11.1/2
TSPC45FN-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPC45FN-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPC45FN-32-32	2" 11.1/2	2" 11.1/2

COT. 45° MACHO FIXO JIC 37° X FÊMEA GIRATÓRIA JIC 37°

CÓDIGO	ROSCA 1	ROSCA 2
TSPC45MJFJ-04-04	7/16 - 20	7/16 - 20
TSPC45MJFJ-05-05	1/2 - 20	1/2 - 20
TSPC45MJFJ-06-06	9/16 - 18	9/16 - 18
TSPC45MJFJ-08-08	3/4 - 16	3/4 - 16
TSPC45MJFJ-10-10	7/8 - 14	7/8 - 14
TSPC45MJFJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPC45MJFJ-16-16	1.5/16 - 12	1.5/16 - 12
TSPC45MJFJ-20-20	1.5/8 - 12	1.5/8 - 12
TSPC45MJFJ-24-24	1.7/8 - 12	1.7/8 - 12
TSPC45MJFJ-32-32	2.1/2 - 12	2.1/2 - 12



COT. 45° FLANGE CÓD. 61 X MACHO FIXO JIC 37°

CÓDIGO	MEDIDA	ROSCA
TSPAC45FLMJ-12-12	1.1/2 (38,1)	1.1/16 - 12
TSPAC45FLMJ-16-16	1.3/4 (44,4)	1.5/16 - 12
TSPAC45FLMJ-20-20	2" (50,8)	1.5/8 - 12
TSPAC45FLMJ-24-24	2.3/8 (60,3)	1.7/8 - 12



COT. 45° FLANGE CÓD 62 X MACHO FIXO JIC 37°



CÓDIGO	MEDIDA	ROSCA
TSPAC45FLSMJ-12-12	1.5/8 (38,1)	1.1/16 - 12
TSPAC45FLSMJ-16-16	1.7/8 (47,6)	1.5/16 - 12
TSPAC45FLSMJ-20-20	2.1/8 (54,0)	1.5/8 - 12
TSPAC45FLSMJ-24-24	2.1/2 (63,5)	1.7/8 - 12

COT. 90° MACHO FIXO NPT X MACHO FIXO JIC 37°



CÓDIGO	MEDIDA	ROSCA
TSPC90MNMJ-02-04	1/8 - 27	7/16 - 20
TSPC90MNMJ-02-05	1/8 - 27	1/2 - 20
TSPC90MNMJ-02-06	1/8 - 27	9/16 - 18
TSPC90MNMJ-04-04	1/4 - 18	7/16 - 20
TSPC90MNMJ-04-05	1/4 - 18	1/2 - 20
TSPC90MNMJ-04-06	1/4 - 18	9/16 - 18
TSPC90MNMJ-04-08	1/4 - 18	3/4 - 16
TSPC90MNMJ-06-04	3/8 - 18	7/16 - 20
TSPC90MNMJ-06-05	3/8 - 18	1/2 - 20
TSPC90MNMJ-06-06	3/8 - 18	9/16 - 18
TSPC90MNMJ-06-08	3/8 - 18	3/4 - 16
TSPC90MNMJ-06-10	3/8 - 18	7/8 - 14
TSPC90MNMJ-08-06	1/2 - 14	9/16 - 18
TSPC90MNMJ-08-08	1/2 - 14	3/4 - 16
TSPC90MNMJ-08-10	1/2 - 14	7/8 - 14
TSPC90MNMJ-08-12	1/2 - 14	1.1/16 - 12
TSPC90MNMJ-12-08	3/4 - 14	3/4 - 16
TSPC90MNMJ-12-10	3/4 - 14	7/8 - 14
TSPC90MNMJ-12-12	3/4 - 14	1.1/16 - 14
TSPC90MNMJ-12-16	3/4 - 14	1.5/16 - 12
TSPC90MNMJ-16-12	1" 11.1/2	1.1/16 - 14
TSPC90MNMJ-16-16	1" 11.1/2	1.5/16 - 12
TSPC90MNMJ-16-20	1" 11.1/2	1.5/8 - 12
TSPC90MNMJ-20-16	1.1/4 - 11.1/2	1.5/16 - 12
TSPC90MNMJ-20-20	1.1/4 - 11.1/2	1.5/8 - 12
TSPC90MNMJ-20-24	1.1/4 - 11.1/2	1.7/8 - 12
TSPC90MNMJ-24-20	1.1/2 - 11.1/2	1.5/8 - 12
TSPC90MNMJ-24-24	1.1/2 - 11.1/2	1.7/8 - 12
TSPC90MNMJ-24-32	1.1/2 - 11.1/2	2.1/2 - 12
TSPC90MNMJ-32-32	2" 11.1/2	2.1/2 - 12

COT. 90° MACHO FIXO O'RING AJUSTÁVEL X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPC90MOAMJ-04-04	7/16 - 20	7/16 - 20
TSPC90MOAMJ-04-05	7/16 - 20	1/2 - 20
TSPC90MOAMJ-04-06	7/16 - 20	9/16 - 18
TSPC90MOAMJ-05-05	1/2 - 20	1/2 - 20
TSPC90MOAMJ-05-06	1/2 - 20	9/16 - 18
TSPC90MOAMJ-06-04	9/16 - 18	7/16 - 20
TSPC90MOAMJ-06-06	9/16 - 18	9/16 - 18
TSPC90MOAMJ-06-08	9/16 - 18	3/4 - 16
TSPC90MOAMJ-08-04	3/4 - 16	7/16 - 20
TSPC90MOAMJ-08-06	3/4 - 16	9/16 - 18
TSPC90MOAMJ-08-08	3/4 - 16	3/4 - 16
TSPC90MOAMJ-08-10	3/4 - 16	7/8 - 14
TSPC90MOAMJ-08-12	3/4 - 16	1.1/16 - 12
TSPC90MOAMJ-10-06	7/8 - 14	9/16 - 18
TSPC90MOAMJ-10-08	7/8 - 14	3/4 - 16
TSPC90MOAMJ-10-10	7/8 - 14	7/8 - 14
TSPC90MOAMJ-10-12	7/8 - 14	1.1/16 - 12
TSPC90MOAMJ-12-08	1.1/16 - 12	3/4 - 16
TSPC90MOAMJ-12-10	1.1/16 - 12	7/8 - 14
TSPC90MOAMJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPC90MOAMJ-12-16	1.1/16 - 12	1.5/16 - 12
TSPC90MOAMJ-16-12	1.5/16 - 12	1.1/16 - 12
TSPC90MOAMJ-16-16	1.5/16 - 12	1.5/16 - 12
TSPC90MOAMJ-16-20	1.5/16 - 12	1.5/8 - 12
TSPC90MOAMJ-20-16	1.5/8 - 12	1.5/16 - 12
TSPC90MOAMJ-20-20	1.5/8 - 12	1.5/8 - 12
TSPC90MOAMJ-20-24	1.5/8 - 12	1.7/8 - 12
TSPC90MOAMJ-24-20	1.7/8 - 12	1.5/8 - 12
TSPC90MOAMJ-24-24	1.7/8 - 12	1.7/8 - 12
TSPC90MOAMJ-32-32	2.1/2 - 12	2.1/2 - 12

COT. 90° MACHO FIXO JIC 37° X MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPC90MJ-04-04	7/16 - 20	7/16 - 20
TSPC90MJ-05-05	1/2 - 20	1/2 - 20
TSPC90MJ-06-06	9/16 - 18	9/16 - 18
TSPC90MJ-08-08	3/4 - 16	3/4 - 16
TSPC90MJ-10-10	7/8 - 14	7/8 - 14
TSPC90MJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPC90MJ-16-16	1.5/16 - 12	1.5/16 - 12

COT. 90° MACHO FIXO NPT X MACHO FIXO NPT



CÓDIGO	ROSCA 1	ROSCA 2
TSPC90MN-02-02	1/8 - 27	1/8 - 27
TSPC90MN-04-04	1/4 - 18	1/4 - 18
TSPC90MN-06-06	3/8 - 18	3/8 - 18
TSPC90MN-08-08	1/2 - 14	1/2 - 14
TSPC90MN-12-12	3/4 - 14	3/4 - 14
TSPC90MN-16-16	1" 11.1/2	1" 11.1/2
TSPC90MN-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPC90MN-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPC90MN-32-32	2" 11.1/2	2" 11.1/2

COT. 90° MACHO FIXO MÉTRICO X MACHO FIXO MÉTRICO

Terminais Standard

Terminais Interlock



CÓDIGO	ROSCA 1	ROSCA 2
TSPC90MM-M12-M12	12 T.06	12 T.06
TSPC90MM-M14-M14	14 T.08	14 T.08
TSPC90MM-M16-M16	16 T.10	16 T.10
TSPC90MM-M18-M18	18 T.12	18 T.12
TSPC90MM-M20-M20	20 T.12	20 T.12
TSPC90MM-M22-M22	22 T.15	22 T.15
TSPC90MM-M24-M24	24 T.16	24 T.16
TSPC90MM-M26-M26	26 T.18	26 T.18
TSPC90MM-M28-M28	28 T.19	28 T.19
TSPC90MM-M30T20-M30T20	30 T.20	30 T.20
TSPC90MM-M30T22-M30T22	30 T.22	30 T.22
TSPC90MM-M34-M34	34 T.25	34 T.25
TSPC90MM-M36-M36	36 T.25	36 T.25
TSPC90MM-M42T30-M42T30	42 T.30	42 T.30
TSPC90MM-M42T32-M42T32	42 T.32	42 T.32
TSPC90MM-M52T38-M52T38	52 T.38	52 T.38
TSPC90MM-M52T42-M52T42	52 T.42	52 T.42

COT. 90° MACHO FIXO MÉTRICO X FÊMEA GIRATÓRIA MÉTRICA DKO

Adaptadores



CÓDIGO	ROSCA 1	ROSCA 2
TSPC90MMFMD-M12-M12	12 T.06	12 T.06
TSPC90MMFMD-M14-M14	14 T.08	14 T.08
TSPC90MMFMD-M16-M16	16 T.10	16 T.10
TSPC90MMFMD-M18-M18	18 T.12	18 T.12
TSPC90MMFMD-M20-M20	20 T.12	20 T.12
TSPC90MMFMD-M22-M22	22 T.15	22 T.15
TSPC90MMFMD-M24-M24	24 T.16	24 T.16
TSPC90MMFMD-M26-M26	26 T.18	26 T.18
TSPC90MMFMD-M28-M28	28 T.19	28 T.19
TSPC90MMFMD-M30T20-M30T20	30 T.20	30 T.20
TSPC90MMFMD-M30T22-M30T22	30 T.22	30 T.22
TSPC90MMFMD-M34-M34	34 T.25	34 T.25
TSPC90MMFMD-M36-M36	36 T.25	36 T.25
TSPC90MMFMD-M42T30-M42T30	42 T.30	42 T.30
TSPC90MMFMD-M42T32-M42T32	42 T.32	42 T.32
TSPC90MMFMD-M52T38-M52T38	52 T.38	52 T.38
TSPC90MMFMD-M52T42-M52T42	52 T.42	52 T.42

Acessórios

COT. 90° MACHO FIXO NPT X MACHO FIXO MÉTRICO



CÓDIGO	ROSCA 1	ROSCA 2
TSPC90MNMM-02-M12	1/8 - 27	12 T.06
TSPC90MNMM-04-M12	1/4 - 18	12 T.06
TSPC90MNMM-04-M14	1/4 - 18	14 T.08
TSPC90MNMM-04-M16	1/4 - 18	16 T.10
TSPC90MNMM-06-M16	3/8 - 18	16 T.10
TSPC90MNMM-04-M18	1/4 - 18	18 T.12
TSPC90MNMM-06-M18	3/8 - 18	18 T.12
TSPC90MNMM-08-M18	1/2 - 14	18 T.12
TSPC90MNMM-06-M20	3/8 - 18	20 T.12
TSPC90MNMM-08-M20	1/2 - 14	20 T.12
TSPC90MNMM-06-M22	3/8 - 18	22 T.15
TSPC90MNMM-08-M22	1/2 - 14	22 T.15
TSPC90MNMM-08-M24	1/2 - 14	24 T.16
TSPC90MNMM-08-M26	1/2 - 14	26 T.18
TSPC90MNMM-12-M26	3/4 - 14	26 T.18
TSPC90MNMM-12-M28	3/4 - 14	28 T.19
TSPC90MNMM-12-M30T20	3/4 - 14	30 T.20
TSPC90MNMM-12-M30T22	3/4 - 14	30 T.22
TSPC90MNMM-12-M34	3/4 - 14	34 T.25
TSPC90MNMM-16-M34	1" 11.1/2	34 T.25
TSPC90MNMM-12-M36	3/4 - 14	36 T.25
TSPC90MNMM-16-M36	1" 11.1/2	36 T.25
TSPC90MNMM-16-M42T30	1" 11.1/2	42 T.30
TSPC90MNMM-16-M42T32	1" 11.1/2	42 T.32
TSPC90MNMM-20-M52T38	1.1/4 - 11.1/2	52 T.38
TSPC90MNMM-24-M52T42	1.1/2 - 11.1/2	52 T.42

COT. 90° MACHO FIXO JIC 37° X FÊMEA GIRATÓRIA JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2
TSPC90MJFJ-04-04	7/16 - 20	7/16 - 20
TSPC90MJFJ-05-05	1/2 - 20	1/2 - 20
TSPC90MJFJ-06-06	9/16 - 18	9/16 - 18
TSPC90MJFJ-06-08	9/16 - 18	3/4 - 16
TSPC90MJFJ-08-06	3/4 - 16	9/16 - 18
TSPC90MJFJ-08-08	3/4 - 16	3/4 - 16
TSPC90MJFJ-08-10	3/4 - 16	7/8 - 14
TSPC90MJFJ-10-08	7/8 - 14	3/4 - 16
TSPC90MJFJ-10-10	7/8 - 14	7/8 - 14
TSPC90MJFJ-10-12	7/8 - 14	1.1/16 - 12
TSPC90MJFJ-12-10	1.1/16 - 12	7/8 - 14
TSPC90MJFJ-12-12	1.1/16 - 12	1.1/16 - 12
TSPC90MJFJ-12-16	1.1/16 - 12	1.5/16 - 12
TSPC90MJFJ-16-12	1.5/16 - 12	1.1/16 - 12
TSPC90MJFJ-16-16	1.5/16 - 12	1.5/16 - 12
TSPC90MJFJ-16-20	1.5/16 - 12	1.5/8 - 12
TSPC90MJFJ-20-16	1.5/8 - 12	1.5/16 - 12
TSPC90MJFJ-20-20	1.5/8 - 12	1.5/8 - 12
TSPC90MJFJ-20-24	1.5/8 - 12	1.7/8 - 12
TSPC90MJFJ-24-20	1.7/8 - 12	1.5/8 - 12
TSPC90MJFJ-24-24	1.7/8 - 12	1.7/8 - 12
TSPC90MJFJ-32-32	2.1/2 - 12	2.1/2 - 12

COT. 90° FÊMEA FIXA NPT X FÊMEA FIXA NPT

CÓDIGO	ROSCA 1	ROSCA 2
TSPC90FN-02-02	1/8 - 27	1/8 - 27
TSPC90FN-04-04	1/4 - 18	1/4 - 18
TSPC90FN-04-06	1/4 - 18	3/8 - 18
TSPC90FN-06-06	3/8 - 18	3/8 - 18
TSPC90FN-06-08	3/8 - 18	1/2 - 14
TSPC90FN-08-08	1/2 - 14	1/2 - 14
TSPC90FN-12-12	3/4 - 14	3/4 - 14
TSPC90FN-16-16	1" 11.1/2	1" 11.1/2
TSPC90FN-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPC90FN-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPC90FN-32-32	2" 11.1/2	2" 11.1/2



COT. 90° FLANGE CÓD. 61 X MACHO FIXO JIC 37°

CÓDIGO	MEDIDA	ROSCA
TSPAC90FLMJ-12-12	1.1/2 (38,1)	1.1/16 - 12
TSPAC90FLMJ-16-16	1.3/4 (44,4)	1.5/16 - 12
TSPAC90FLMJ-20-20	2" (50,8)	1.5/8 - 12
TSPAC90FLMJ-24-24	2.3/8 (60,3)	1.7/8 - 12



COT. 90° FLANGE CÔD. 62 X MACHO FIXO JIC 37°

Terminais Standard

Terminais Interlock

Adaptadores

Acessórios



CÓDIGO	MEDIDA	ROSCA
TSPAC90FLSMJ-12-12	1.5/8 (41,3)	1.1/16 - 12
TSPAC90FLSMJ-16-16	1.7/8 (47,6)	1.5/16 - 12
TSPAC90FLSMJ-20-20	2.1/8 (54,0)	1.5/8 - 12
TSPAC90FLSMJ-24-24	2.1/2 (63,5)	1.7/8 - 12

TEE MACHO FIXO JIC 37°



CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTMJ-04-04-04	7/16 - 20	7/16 - 20	7/16 - 20
TSPTMJ-04-06-04	9/16 - 18	9/16 - 18	7/16 - 20
TSPTMJ-05-05-05	1/2 - 20	1/2 - 20	1/2 - 20
TSPTMJ-06-04-06	9/16 - 18	7/16 - 20	9/16 - 18
TSPTMJ-06-06-06	9/16 - 18	9/16 - 18	9/16 - 18
TSPTMJ-08-08-08	3/4 - 16	3/4 - 16	3/4 - 16
TSPTMJ-08-06-08	3/4 - 16	9/16 - 18	3/4 - 16
TSPTMJ-10-10-10	7/8 - 14	7/8 - 14	7/8 - 14
TSPTMJ-12-12-12	1.1/16 - 12	1.1/16 - 12	1.1/16 - 12
TSPTMJ-16-16-16	1.5/16 - 12	1.5/16 - 12	1.5/16 - 12
TSPTMJ-16-12-16	1.5/16 - 12	1.1/16 - 12	1.5/16 - 12
TSPTMJ-20-20-20	1.5/8 - 12	1.5/8 - 12	1.5/8 - 12
TSPTMJ-24-24-24	1.7/8 - 12	1.7/8 - 12	1.7/8 - 12
TSPTMJ-32-32-32	2.1/2 - 12	2.1/2 - 12	2.1/2 - 12

TEE MACHO FIXO JIC 37° X FÊMEA GIRATÓRIA JIC 37° CENTRAL



CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTMJFJC-04-04-04	7/16 - 20	7/16 - 20	7/16 - 20
TSPTMJFJC-05-05-05	1/2 - 20	1/2 - 20	1/2 - 20
TSPTMJFJC-06-06-06	9/16 - 18	9/16 - 18	9/16 - 18
TSPTMJFJC-08-08-08	3/4 - 16	3/4 - 16	3/4 - 16
TSPTMJFJC-10-10-10	7/8 - 14	7/8 - 14	7/8 - 14
TSPTMJFJC-12-12-12	1.1/16 - 12	1.1/16 - 12	1.1/16 - 12
TSPTMJFJC-16-16-16	1.5/16 - 12	1.5/16 - 12	1.5/16 - 12
TSPTMJFJC-20-20-20	1.5/8 - 12	1.5/8 - 12	1.5/8 - 12
TSPTMJFJC-24-24-24	1.7/8 - 12	1.7/8 - 12	1.7/8 - 12
TSPTMJFJC-32-32-32	2.1/2 - 12	2.1/2 - 12	2.1/2 - 12

TEE MACHO FIXO JIC 37° X FÊMEA GIRATÓRIA JIC 37° LATERAL



CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTMJFJL-04-04-04	7/16 - 20	7/16 - 20	7/16 - 20
TSPTMJFJL-05-05-05	1/2 - 20	1/2 - 20	1/2 - 20
TSPTMJFJL-06-06-06	9/16 - 18	9/16 - 18	9/16 - 18
TSPTMJFJL-08-08-08	3/4 - 16	3/4 - 16	3/4 - 16
TSPTMJFJL-10-10-10	7/8 - 14	7/8 - 14	7/8 - 14
TSPTMJFJL-12-12-12	1.1/16 - 12	1.1/16 - 12	1.1/16 - 12
TSPTMJFJL-16-16-16	1.5/16 - 12	1.5/16 - 12	1.5/16 - 12
TSPTMJFJL-20-20-20	1.5/8 - 12	1.5/8 - 12	1.5/8 - 12
TSPTMJFJL-24-24-24	1.7/8 - 12	1.7/8 - 12	1.7/8 - 12
TSPTMJFJL-32-32-32	2.1/2 - 12	2.1/2 - 12	2.1/2 - 12

TEE MACHO FIXO JIC 37° x MACHO FIXO NPT LATERAL



CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTMJMNL-04-02	7/16 - 20	7/16 - 20	1/8 - 27
TSPTMJMNL-04-04	7/16 - 20	7/16 - 20	1/4 - 18
TSPTMJMNL-05-02	1/2 - 20	1/2 - 20	1/8 - 27
TSPTMJMNL-05-04	1/2 - 20	1/2 - 20	1/4 - 18
TSPTMJMNL-06-04	9/16 - 18	9/16 - 18	1/4 - 18
TSPTMJMNL-06-06	9/16 - 18	9/16 - 18	3/8 - 18
TSPTMJMNL-08-06	3/4 - 16	3/4 - 16	3/8 - 18
TSPTMJMNL-08-08	3/4 - 16	3/4 - 16	1/2 - 14
TSPTMJMNL-10-08	7/8 - 14	7/8 - 14	1/2 - 14
TSPTMJMNL-10-12	7/8 - 14	7/8 - 14	3/4 - 14
TSPTMJMNL-12-12	1.1/16 - 12	1.1/16 - 12	3/4 - 14
TSPTMJMNL-16-16	1.5/16 - 12	1.5/16 - 12	1" 11.1/2
TSPTMJMNL-20-20	1.5/8 - 12	1.5/8 - 12	1.1/4 - 11.1/2
TSPTMJMNL-24-24	1.7/8 - 12	1.7/8 - 12	1.1/2 - 11.1/2
TSPTMJMNL-32-32	2.1/2 - 12	2.1/2 - 12	2" 11.1/2

TEE FÊMEA FIXA NPT



CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTFN-02-02-02	1/8 - 27	1/8 - 27	1/8 - 27
TSPTFN-04-04-04	1/4 - 18	1/4 - 18	1/4 - 18
TSPTFN-06-06-06	3/8 - 18	3/8 - 18	3/8 - 18
TSPTFN-08-08-08	1/2 - 14	1/2 - 14	1/2 - 14
TSPTFN-12-12-12	3/4 - 14	3/4 - 14	3/4 - 14
TSPTFN-16-16-16	1" 11.1/2	1" 11.1/2	1" 11.1/2
TSPTFN-20-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPTFN-24-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPTFN-32-32-32	2" 11.1/2	2" 11.1/2	2" 11.1/2

TEE MACHO FIXO NPT



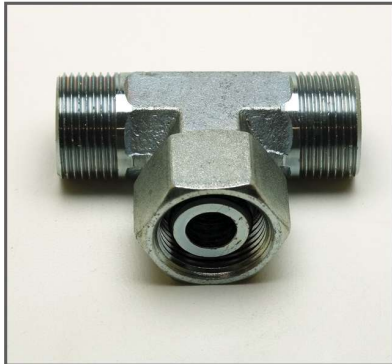
CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTMN-02-02-02	1/8 - 27	1/8 - 27	1/8 - 27
TSPTMN-04-04-04	1/4 - 18	1/4 - 18	1/4 - 18
TSPTMN-06-06-06	3/8 - 18	3/8 - 18	3/8 - 18
TSPTMN-08-08-08	1/2 - 14	1/2 - 14	1/2 - 14
TSPTMN-12-12-12	3/4 - 14	3/4 - 14	3/4 - 14
TSPTMN-16-16-16	1" 11.1/2	1" 11.1/2	1" 11.1/2
TSPTMN-20-20-20	1.1/4 - 11.1/2	1.1/4 - 11.1/2	1.1/4 - 11.1/2
TSPTMN-24-24-24	1.1/2 - 11.1/2	1.1/2 - 11.1/2	1.1/2 - 11.1/2
TSPTMN-32-32-32	2" 11.1/2	2" 11.1/2	2" 11.1/2

TEE MACHO FIXO MÉTRICO



CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTMM-M12	12 T.06	12 T.06	12 T.06
TSPTMM-M14	14 T.08	14 T.08	14 T.08
TSPTMM-M16	16 T.10	16 T.10	16 T.10
TSPTMM-M18	18 T.12	18 T.12	18 T.12
TSPTMM-M20	20 T.12	20 T.12	20 T.12
TSPTMM-M22	22 T.15	22 T.15	22 T.15
TSPTMM-M24	24 T.16	24 T.16	24 T.16
TSPTMM-M26	26 T.18	26 T.18	26 T.18
TSPTMM-M28	28 T.19	28 T.19	28 T.19
TSPTMM-M30 T20	30 T.20	30 T.20	30 T.20
TSPTMM-M30 T22	30 T.22	30 T.22	30 T.22
TSPTMM-M34	34 T.25	34 T.25	34 T.25
TSPTMM-M36	36 T.25	36 T.25	36 T.25
TSPTMM-M42 T30	42 T.30	42 T.30	42 T.30
TSPTMM-M42 T32	42 T.32	42 T.32	42 T.32
TSPTMM-M52 T38	52 T.38	52 T.38	52 T.38
TSPTMM-M52 T42	52 T.42	52 T.42	52 T.42

TEE MACHO FIXO MÉTRICO X FÊMEA GIRATÓRIA MÉTRICA DKO CENTRAL



CÓDIGO	ROSCA 1	ROSCA 2	ROSCA 3
TSPTMMFMDC-M12	12 T.06	12 T.06	12 T.06
TSPTMMFMDC-M14	14 T.08	14 T.08	14 T.08
TSPTMMFMDC-M16	16 T.10	16 T.10	16 T.10
TSPTMMFMDC-M18	18 T.12	18 T.12	18 T.12
TSPTMMFMDC-M20	20 T.12	20 T.12	20 T.12
TSPTMMFMDC-M22	22 T.15	22 T.15	22 T.15
TSPTMMFMDC-M24	24 T.16	24 T.16	24 T.16
TSPTMMFMDC-M26	26 T.18	26 T.18	26 T.18
TSPTMMFMDC-M28	28 T.19	28 T.19	28 T.19
TSPTMMFMDC-M30 T20	30 T.20	30 T.20	30 T.20
TSPTMMFMDC-M30 T22	30 T.22	30 T.22	30 T.22
TSPTMMFMDC-M34	34 T.25	34 T.25	34 T.25
TSPTMMFMDC-M36	36 T.25	36 T.25	36 T.25
TSPTMMFMDC-M42 T30	42 T.30	42 T.30	42 T.30
TSPTMMFMDC-M42 T32	42 T.32	42 T.32	42 T.32
TSPTMMFMDC-M52 T38	52 T.38	52 T.38	52 T.38
TSPTMMFMDC-M52 T42	52 T.42	52 T.42	52 T.42

TAMPÃO MACHO FIXO NPT



CÓDIGO	ROSCA
TSPMN-TP-02	TAMPÃO MF 1/8 NPT
TSPMN-TP-04	TAMPÃO MF 1/4 NPT
TSPMN-TP-06	TAMPÃO MF 3/8 NPT
TSPMN-TP-08	TAMPÃO MF 1/2 NPT
TSPMN-TP-12	TAMPÃO MF 3/4 NPT
TSPMN-TP-16	TAMPÃO MF 1" NPT
TSPMN-TP-20	TAMPÃO MF 1.1/4 NPT
TSPMN-TP-24	TAMPÃO MF 1.1/2 NPT
TSPMN-TP-32	TAMPÃO MF 2" NPT

TAMPÃO FÊMEA FIXA NPT

CÓDIGO	ROSCA
TSPFN-TP-02	TAMPÃO FF 1/8 NPT
TSPFN-TP-04	TAMPÃO FF 1/4 NPT
TSPFN-TP-06	TAMPÃO FF 3/8 NPT
TSPFN-TP-08	TAMPÃO FF 1/2 NPT
TSPFN-TP-12	TAMPÃO FF 3/4 NPT
TSPFN-TP-16	TAMPÃO FF 1" NPT
TSPFN-TP-20	TAMPÃO FF 1.1/4 NPT
TSPFN-TP-24	TAMPÃO FF 1.1/2 NPT
TSPFN-TP-32	TAMPÃO FF 2" NPT



TAMPÃO MACHO FIXO ORING - PARALELO

CÓDIGO	ROSCA
TSPMO-TP-04	TAMPÃO MF 7/16 ORING
TSPMO-TP-05	TAMPÃO MF 1/2 ORING
TSPMO-TP-06	TAMPÃO MF 9/16 ORING
TSPMO-TP-08	TAMPÃO MF 3/4 ORING
TSPMO-TP-10	TAMPÃO MF 7/8 ORING
TSPMO-TP-12	TAMPÃO MF 1.1/16 ORING
TSPMO-TP-16	TAMPÃO MF 1.5/16 ORING
TSPMO-TP-20	TAMPÃO MF 1.5/8 ORING
TSPMO-TP-24	TAMPÃO MF 1.7/8 ORING
TSPMO-TP-32	TAMPÃO MF 2.1/2 ORING



TAMPÃO MACHO FIXO JIC 37°



CÓDIGO	ROSCA
TSPMJ-TP-04	TAMPÃO MF 7/16 JIC
TSPMJ-TP-05	TAMPÃO MF 1/2 JIC
TSPMJ-TP-06	TAMPÃO MF 9/16 JIC
TSPMJ-TP-08	TAMPÃO MF 3/4 JIC
TSPMJ-TP-10	TAMPÃO MF 7/8 JIC
TSPMJ-TP-12	TAMPÃO MF 1.1/16 JIC
TSPMJ-TP-16	TAMPÃO MF 1.5/16 JIC
TSPMJ-TP-20	TAMPÃO MF 1.5/8 JIC
TSPMJ-TP-24	TAMPÃO MF 1.7/8 JIC
TSPMJ-TP-32	TAMPÃO MF 2.1/2 JIC

TAMPÃO FÊMEA FIXA JIC 37°



CÓDIGO	ROSCA
TSPFJ-TP-04	TAMPÃO FF 7/16 JIC
TSPFJ-TP-05	TAMPÃO FF 1/2 JIC
TSPFJ-TP-06	TAMPÃO FF 9/16 JIC
TSPFJ-TP-08	TAMPÃO FF 3/4 JIC
TSPFJ-TP-10	TAMPÃO FF 7/8 JIC
TSPFJ-TP-12	TAMPÃO FF 1.1/16 JIC
TSPFJ-TP-16	TAMPÃO FF 1.5/16 JIC
TSPFJ-TP-20	TAMPÃO FF 1.5/8 JIC
TSPFJ-TP-24	TAMPÃO FF 1.7/8 JIC
TSPFJ-TP-32	TAMPÃO FF 2.1/2 JIC

TAMPÃO MACHO FIXO ORFS

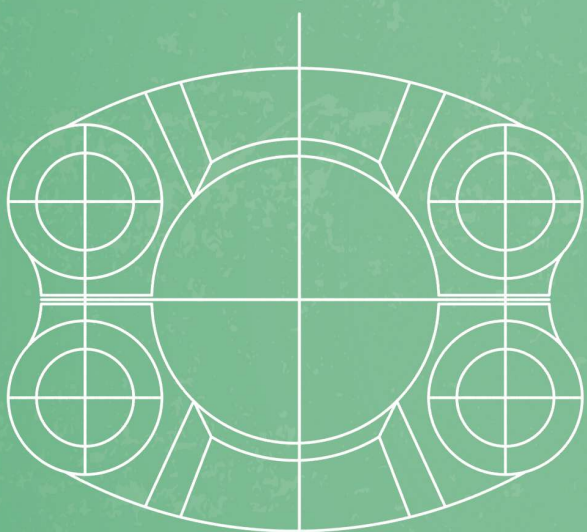
CÓDIGO	ROSCA
TSPMORS-TP-04	TAMPÃO MF 9/16 ORS
TSPMORS-TP-06	TAMPÃO MF 11/16 ORS
TSPMORS-TP-08	TAMPÃO MF 13/16 ORS
TSPMORS-TP-10	TAMPÃO MF 1" ORS
TSPMORS-TP-12	TAMPÃO MF 1.3/16 ORS
TSPMORS-TP-16	TAMPÃO MF 1.7/16 ORS
TSPMORS-TP-20	TAMPÃO MF 1.11/16 ORS
TSPMORS-TP-24	TAMPÃO MF 2" ORS



TAMPÃO FÊMEA FIXA ORFS

CÓDIGO	ROSCA
TSPFORS-TP-04	TAMPÃO FF 9/16 ORS
TSPFORS-TP-06	TAMPÃO FF 11/16 ORS
TSPFORS-TP-08	TAMPÃO FF 13/16 ORS
TSPFORS-TP-10	TAMPÃO FF 1" ORS
TSPFORS-TP-12	TAMPÃO FF 1.3/16 ORS
TSPFORS-TP-16	TAMPÃO FF 1.7/16 ORS
TSPFORS-TP-20	TAMPÃO FF 1.11/16 ORS
TSPFORS-TP-24	TAMPÃO FF 2" ORS





ACESSÓRIOS



FLANGE BI-PARTIDA CÓD. 61 - 3000 PSI

NORMA SAE J518

CÓDIGO	MEDIDA
TSPFLBP-08	1.3/16 (30,2)
TSPFLBP-10	1.11/32 (33,2)
TSPFLBP-12	1.1/2 (38,1)
TSPFLBP-16	1.3/4 (44,4)
TSPFLBP-20	2" (50,8)
TSPFLBP-24	2.3/8 (60,4)
TSPFLBP-32	2.13/16 (71,4)



FLANGE BI-PARTIDA CÓD. 62 - 6000 PSI

NORMA SAE J518

CÓDIGO	MEDIDA
TSPFLSBP-12	1.5/8 (41,3)
TSPFLSBP-16	1.7/8 (47,6)
TSPFLSBP-20	2.1/8 (54)
TSPFLSBP-24	2.1/2 (63,5)



FLANGE BI-PARTIDA CÓD. 62 - 9000 PSI

NORMA SAE J518

CÓDIGO	MEDIDA
TSPFSCBP-12	1.5/8 CAT (41,3)
TSPFSCBP-16	1.7/8 CAT (47,6)
TSPFSCBP-20	2.1/8 CAT (54)
TSPFSCBP-24	2.1/2 CAT (63,5)
TSPFSCBP-32	3.1/8 CAT (79,4)



PORCA MÉTRICA PARA TUBO



CÓDIGO	MEDIDA
TSPPA -M12 T.06	12 T.06
TSPPA -M14 T.06	14 T.06
TSPPA -M14 T.08	14 T.08
TSPPA -M16 T.10	16 T.10
TSPPA -M18 T.12	18 T.12
TSPPA -M20 T.12	20 T.12
TSPPA -M22 T.14	22 T.14
TSPPA -M22 T.15	22 T.15
TSPPA -M24 T.16	24 T.16
TSPPA -M26 T.18	26 T.18
TSPPA -M28 T.19	28 T.19
TSPPA -M30 T.20	30 T.20
TSPPA -M30 T.22	30 T.22
TSPPA -M34 T.25	34 T.25
TSPPA -M36 T.25	36 T.25
TSPPA -M36 T.28	36 T.28
TSPPA -M38 T.28	38 T.28
TSPPA -M42 T.30	42 T.30
TSPPA -M42 T.32	42 T.32
TSPPA -M45 T.35	45 T.35
TSPPA -M48 T.38	48 T.38
TSPPA -M52 T.38	52 T.38
TSPPA -M52 T.42	52 T.42

ANILHA PARA TUBO

CÓDIGO	MEDIDA
TSPAA-06	ANILHA 06
TSPAA-08	ANILHA 08
TSPAA-10	ANILHA 10
TSPAA-12	ANILHA 12
TSPAA-14	ANILHA 14
TSPAA-15	ANILHA 15
TSPAA-16	ANILHA 16
TSPAA-18	ANILHA 18
TSPAA-19	ANILHA 19
TSPAA-20	ANILHA 20
TSPAA-22	ANILHA 22
TSPAA-25	ANILHA 25
TSPAA-28	ANILHA 28
TSPAA-30	ANILHA 30
TSPAA-32	ANILHA 32
TSPAA-35	ANILHA 35
TSPAA-38	ANILHA 38
TSPAA-42	ANILHA 42



FÊMEA FIXA

CÓDIGO	MEDIDA	MANGUEIRA
TSPFF-02-04	1/8 - 27	1/4
TSPFF-04-04	1/4 - 18	1/4
TSPFF-05-04	1/2 - 27	1/4



Terminais Standard

Terminais Interlock

Adaptadores

Acessórios

PRINCIPAIS TIPOS DE ROSCAS USADOS EM TERMINAIS DE MANGUEIRAS

MANGUEIRA		N.P.T.F.	UN-UNF-UNS				FLANGE	BSPT	MÉTRICA UNIVERSAL
MÓDULO	Ø (pol)	N.P.S.M.	JIC-37°	SAE-45°	SAE "O"RING	P.T.T. 30°		BSP	
3	3/16	1/8 - 27			3/8 - 24			1/8 - 28	12 x 1,5
4	1/4	1/8 - 27	7/16 - 20	7/16 - 20	7/16 - 20			1/4 - 19	14 x 1,5
5	5/16	1/4 - 18	1/2 - 20	1/2 - 20	1/2 - 20			3/8 - 19	16 x 1,5
6	3/8	3/8 - 18	9/16 - 18	5/8 - 18	9/16 - 18			3/8 - 19	18 x 1,5
8	1/2	1/2 - 14	3/4 - 16	3/4 - 16	3/4 - 16		1/2	1/2 - 14	22 x 1,5
10	5/8	1/2 - 14	7/8 - 4	7/8 - 14	7/8 - 14			5/8 - 14	26 x 1,5
12	3/4	3/4 - 14	11/16 - 12	1 1/16 - 14	11/16 - 12		3/4	3/4 - 14	30 x 1,5
14	7/8	3/4 - 14	13/16 - 12		13/16 - 12			7/8 - 14	36 x 1,5
16	1	1 - 11 1/2	15/16 - 12		1 5/16 - 12	15/16 - 12	1	1 - 11	38 x 1,5
20	1 1/4	1 1/4 - 11 1/2	1 5/8 - 12		1 5/8 - 12	15/8 - 14	1 1/4	1 1/4 - 11	45 x 1,5
24	1 1/2	1 1/2 - 11 1/2	1 7/8 - 12		1 7/8 - 12	17/8 - 14	1 1/2	1 1/2 - 11	52 x 1,5
32	2	2 - 11 1/2	2 1/2 - 12		2 1/2 - 12	12	2	2 - 11	65 x 2

DIMENSÕES DAS ROSCAS NPTF

Ø NOMINAL BITOLA (pol)	PASSO	DIÂMETRO DOS FLANCOS		DIÂMETRO EXTERNO			DIÂMETRO DOS FLANCOS N.P.S.M. (mm)
		na ponta do tubo (mm)	no plano do calibrador (mm)	na ponta do tubo (mm)	no plano do calibrador (mm)	do tubo (mm)	
1/8	27	9,233	9,489	9,985	10,242	10,287	9,489
1/4	18	12,126	12,487	13,254	13,616	13,716	12,487
3/8	18	15,545	15,926	16,673	17,055	17,145	15,926
1/2	14	19,264	19,772	20,715	21,223	21,336	19,772
3/4	14	24,579	25,117	26,030	26,568	26,670	25,117
1	11 1/2	30,826	31,461	32,592	33,227	33,401	31,461
1 1/4	11 1/2	39,551	40,218	41,317	41,984	42,164	40,218
1 1/2	11 1/2	45,621	46,287	47,387	48,053	48,260	46,287
2	11 1/2	57,633	58,325	59,399	60,091	60,325	58,325
2 1/2	8	69,076	70,159	71,616	72,699	73,025	70,159
3	8	84,852	86,068	87,392	88,608	88,900	86,068

DIMENSÕES DAS ROSCAS - UN - UNF - UNS

BITOLA	PASSO	DIÂMETRO EXTERNO (mm)	DIÂMETRO DOS FLANCOS (mm)	DIÂMETRO DO NÚCLEO (mm)
7/16 - UNF	20	11,113	10,287	9,738
1/2 - UNF	20	12,700	11,875	11,326
9/16 - UNF	18	14,288	13,371	12,761
5/8 - UNF	18	15,875	14,958	14,348
3/4 - UNF	16	19,050	18,019	17,330
7/8 - UNF	14	22,225	21,046	20,262
1 - UNS	14	25,400	24,221	23,444
1 - UNF	12	25,400	24,026	23,109
1 1/16 - UNS	14	26,988	25,809	25,032
1 1/16 - UN	12	26,988	25,613	24,696
1 3/16 - UN	12	30,163	28,788	27,871
1 5/16 - UNS	14	33,338	32,159	31,382
1 5/16 - UN	12	33,338	31,963	31,046
1 5/8 - UNS	14	41,275	40,096	39,319
1 5/8 - UN	12	41,275	39,901	38,984
1 7/8 - UNS	14	47,625	46,446	45,669
1 7/8 - UN	12	47,625	46,251	45,334
2 - UN	12	50,800	49,426	48,509
2 1/2 - UN	12	63,500	62,126	61,206
3 - UN	12	76,200	47,826	73,909

DIMENSÕES DAS ROSCAS BSPT (CÔNICAS)

BITOLA	PASSO (pol)	DIÂMETRO EXTERNO		DIÂMETRO DOS FLANCOS		DIÂMETRO DO NÚCLEO	
		na ponta do tubo (mm)	no plano do calibrador (mm)	na ponta do tubo (mm)	no plano do calibrador (mm)	na ponta do tubo (mm)	no plano do calibrador (mm)
R - 1/8	28	9,480	9,728	8,899	9,147	8,317	8,565
R - 1/4	19	12,781	13,157	11,925	12,301	11,069	11,445
R - 3/8	19	16,265	16,662	15,409	15,806	14,553	14,950
R - 1/2	14	20,445	20,955	19,284	19,794	18,123	18,633
R - 3/4	14	25,846	26,441	24,686	25,281	23,525	24,120
R - 1	11	32,600	33,249	31,121	31,770	29,643	30,292
R - 1 ¼	11	41,116	41,910	39,638	40,432	38,159	38,953
R - 1 ½	11	47,009	47,803	45,531	46,325	44,052	44,846
R - 2	11	58,622	59,614	57,144	58,136	55,665	56,657
R - 2 ½	11	74,093	75,184	72,615	73,706	71,136	72,227

MEDIDAS BÁSICAS DAS ROSCAS BSP CILÍNDRICAS

BITOLA	PASSO	DIÂMETRO EXTERNO (mm)	DIÂMETRO DOS FLANCOS (mm)	DIÂMETRO DO NÚCLEO (mm)
R - 1/8	28	9,728	9,147	8,565
R - 1/4	19	13,157	12,301	11,445
R - 3/8	19	16,662	15,806	14,950
R - 1/2	14	20,955	19,794	18,633
R - 5/8	14	22,911	21,750	20,589
R - 3/4	14	26,441	25,281	24,120
R - 7/8	14	30,201	29,040	27,879
R - 1	11	33,249	31,770	30,292
R - 1 1/8	11	37,897	36,418	34,939
R - 1 1/4	11	41,910	40,432	38,953
R - 1 1/2	11	47,803	46,325	44,846
R - 1 3/4	11	53,746	52,268	50,790
R - 2	11	59,614	58,136	56,657
R - 2 1/4	11	65,710	64,232	62,753
R - 2 1/2	11	75,184	73,706	72,227
R - 2 3/4	11	81,534	80,056	78,577
R - 3	11	87,884	86,406	84,927

DIMENSÕES DAS ROSCAS MÉTRICAS

DIÂMETRO NOMINAL	PASSO	DIÂMETRO DOS FLANCOS (mm)	DIÂMETRO DO NÚCLEO (mm)	DIÂMETRO DA PORCA (mm)
M - 12	1,5	11,026	10,160	10,376
M - 14	1,5	13,026	12,160	12,376
M - 16	1,5	15,026	14,160	14,376
M - 18	1,5	17,026	16,160	16,376
M - 20	1,5	19,026	18,160	18,376
M - 22	1,5	21,026	20,160	20,376
M - 24	1,5	23,026	22,160	22,376
M - 26	1,5	25,026	24,160	24,376
M - 30	1,5	29,026	28,160	28,376
M - 30	2	28,701	27,546	27,835
M - 36	2	34,701	33,546	33,835
M - 38	1,5	37,026	36,160	36,376
M - 42	2	40,701	39,546	39,835
M - 45	1,5	44,026	43,160	43,376
M - 45	2	43,701	42,546	42,835
M - 52	1,5	51,026	50,160	50,376
M - 52	2	50,701	49,546	49,835
M - 65	2	63,701	62,546	62,835

LINHA INOX

Perfis, Chapas, Tubos, Conexões, Curvas, Válvulas e Conectores BFM.



Aço Inox 304, 304L, 316, 316L, 410, 3CR12 e 430.

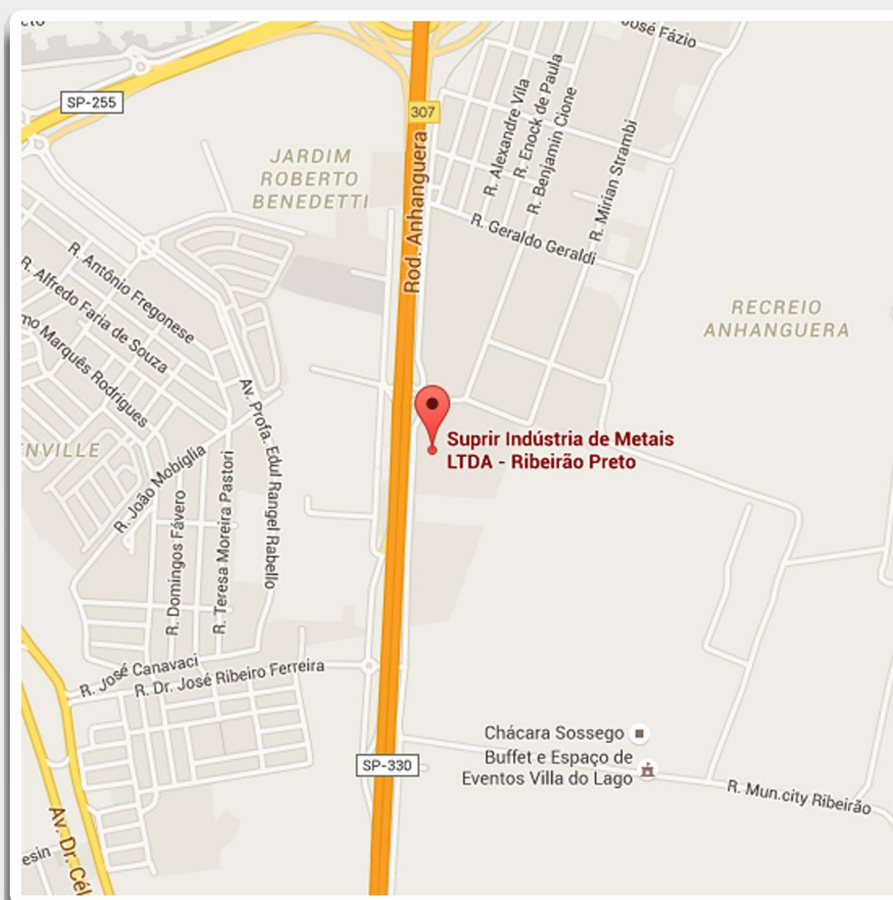


LINHA TRANSPower

Correias Industriais, Mangueiras PVC,
Mangueiras Hidráulicas e Mangueiras Industriais.



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