

# ADAPTADORES HIDRÁULICOS

HYDRAULIC  
ADAPTORS



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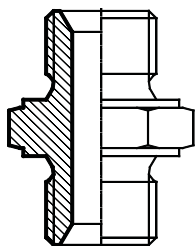
ADAPTADORES HIDRÁULICOS	PAG.	HYDRAULIC ADAPTORS
ADAPTADORES BSP	<b>85   96</b>	BSP ADAPTORS
ADAPTADORES JIC	<b>97   112</b>	JIC ADAPTORS
ADAPTADORES ORFS	<b>113   128</b>	ORFS ADAPTORS
ADAPTADORES DIN 2353 24°	<b>129   150</b>	DIN 2353 24° ADAPTORS

BSP • BSP



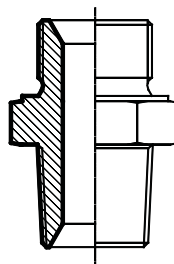
BSP SV 60° • BSP SV 60°

**UNIÃO  
MACHO BSP - MACHO  
BSP**  
ADAPTOR  
MALE BSPP - MALE BSPP



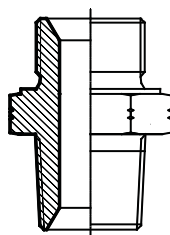
CÓDIGO CODE	ROSCA THREAD
KBGD10.0202	1/8"
KBGD10.0404	1/4"
KBGD10.0606	3/8"
KBGD10.0808	1/2"
KBGD10.1010	5/8"
KBGD10.1212	3/4"
KBGD10.1616	1"
KBGD10.2020	1.1/4"
KBGD10.2424	1.1/2"
KBGD10.3232	2"

**UNIÃO  
MACHO BSP - MACHO  
BSPT**  
ADAPTOR  
MALE BSPP - MALE BSPT



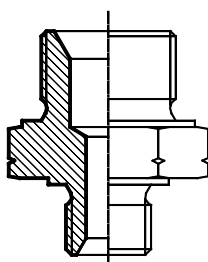
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGD13.0202	1/8"	1/8"
KBGD13.0404	1/4"	1/4"
KBGD13.0408	1/4"	1/2"
KBGD13.0606	3/8"	3/8"
KBGD13.0608	3/8"	1/2"
KBGD13.0808	1/2"	1/2"
KBGD13.1212	3/4"	3/4"
KBGD13.1616	1"	1"
KBGD13.2020	1.1/4"	1.1/4"
KBGD13.2424	1.1/2"	1.1/2"
KBGD13.0402	1/4"	1/8"
KBGD13.0602	3/8"	1/8"
KBGD13.0604	3/8"	1/4"
KBGD13.0804	1/2"	1/4"
KBGD13.0806	1/2"	3/8"
KBGD13.1006	5/8"	3/8"
KBGD13.1008	5/8"	1/2"
KBGD13.1204	3/4"	1/4"
KBGD13.1206	3/4"	3/8"
KBGD13.1208	3/4"	1/2"
KBGD13.1210	3/4"	5/8"
KBGD13.1606	1"	3/8"
KBGD13.1608	1"	1/2"
KBGD13.1610	1"	5/8"
KBGD13.1612	1"	3/4"

**UNIÃO  
MACHO BSPP - MACHO  
NPT**  
ADAPTOR MALE  
BSPP - MALE NPT



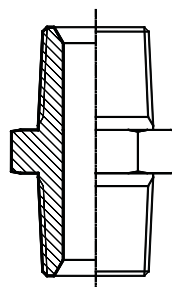
CÓDIGO CODE	ROSCA THREAD
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KBGD20.0606	3/8"
KBGD20.0808	1/2"
KBGD20.1212	3/4"
KBGD20.1616	1"
KBGD20.2020	1.1/4"
KBGD20.2424	1.1/2"
KBGD20.3232	2"

**REDUÇÃO MACHO BSP -  
MACHO BSP**  
REDUCING MALE BSPP  
ADAPTOR

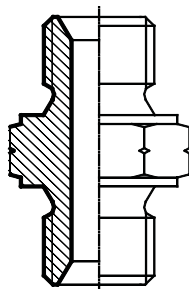


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
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KBGD10.0206	3/8"	1/8"
KBGD10.0406	3/8"	1/4"
KBGD10.0408	1/2"	1/4"
KBGD10.0608	1/2"	3/8"
KBGD10.0610	5/8"	3/8"
KBGD10.0810	5/8"	1/2"
KBGD10.0412	3/4"	1/4"
KBGD10.0612	3/4"	3/8"
KBGD10.0812	3/4"	1/2"
KBGD10.1012	3/4"	5/8"
KBGD10.0616	1"	3/8"
KBGD10.0816	1"	1/2"
KBGD10.1016	1"	5/8"
KBGD10.1216	1"	3/4"
KBGD10.0820	1.1/4"	1/2"
KBGD10.1220	1.1/4"	3/4"
KBGD10.1620	1.1/4"	1"
KBGD10.1224	1.1/2"	3/4"
KBGD10.1624	1.1/2"	1"
KBGD10.2024	1.1/2"	1.1/4"
KBGD10.1632	2"	1"
KBGD10.2032	2"	1.1/4"
KBGD10.2432	2"	1.1/2"

**UNIÃO  
MACHO BSPT - MACHO  
BSPT**  
ADAPTOR MALE BSPT -  
MALE BSPT

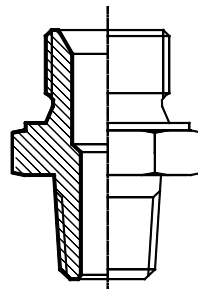


CÓDIGO CODE	ROSCA THREAD
KBGD18.0202	1/8"
KBGD18.0404	1/4"
KBGD18.0606	3/8"
KBGD18.0808	1/2"
KBGD18.1212	3/4"
KBGD18.1616	1"
KBGD18.2020	1.1/4"
KBGD18.2424	1.1/2"
KBGD18.3232	2"

**UNIÃO MACHO MÉTRICA**  
 METRIC MALE ADAPTOR

**CÓDIGO**  
 CODE

**ROSCA**  
 THREAD

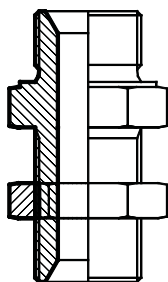
KBGD19.1010	10X1
KBGD19.1212	12X1.5
KBGD19.1414	14X1.5
KBGD19.1616	16X1.5
KBGD19.1818	18X1.5
KBGD19.2020	20X1.5
KBGD19.2222	22X1.5
KBGD19.2424	24X1.5
KBGD19.2626	26X1.5
KBGD19.2828	28X1.5
KBGD19.3030	30X1.5

**REDUÇÃO MACHO BSPP -**  
**MACHO MÉTRICO**  
 REDUCING ADAPTOR  
 MALE BSPP - METRIC MALE

**CÓDIGO**  
 CODE

**ROSCA**  
 THREAD

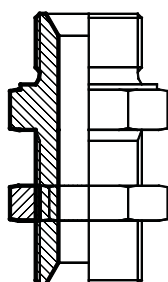
**ROSCA**  
 THREAD

KBGD11.0210	1/8"	10X1
KBGD11.0212	1/8"	12X1.5
KBGD11.0410	1/4"	10X1
KBGD11.0412	1/4"	12X1.5
KBGD11.0414	1/4"	14X1.5
KBGD11.0416	1/4"	16X1.5
KBGD11.0418	1/4"	18X1.5
KBGD11.0422	1/4"	22X1.5
KBGD11.0612	3/8"	12X1.5
KBGD11.0614	3/8"	14X1.5
KBGD11.0616	3/8"	16X1.5
KBGD11.0618	3/8"	18X1.5
KBGD11.0620	3/8"	20X1.5
KBGD11.0622	3/8"	22X1.5
KBGD11.0812	1/2"	12X1.5
KBGD11.0814	1/2"	14X1.5
KBGD11.0816	1/2"	16X1.5
KBGD11.0818	1/2"	18X1.5
KBGD11.0820	1/2"	20X1.5
KBGD11.0822	1/2"	22X1.5
KBGD11.0824	1/2"	24X1.5
KBGD11.0826	1/2"	26X1.5
KBGD11.1018	5/8"	18X1.5
KBGD11.1020	5/8"	20X1.5
KBGD11.1022	5/8"	22X1.5
KBGD11.1218	3/4"	18X1.5
KBGD11.1220	3/4"	20X1.5
KBGD11.1222	3/4"	22X1.5
KBGD11.1226	3/4"	26X1.5
KBGD11.1230	3/4"	30X1.5
KBGD11.1622	1"	22X1.5

**UNIÃO PASSA PAREDE**  
**BSPP**  
 STRIGHT BULKHEAD  
 ADAPTOR BSPP

**CÓDIGO**  
 CODE

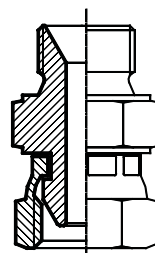
**ROSCA**  
 THREAD

KBGD16.0404	1/4"
KBGD16.0606	3/8"
KBGD16.0808	1/2"
KBGD16.1212	3/4"
KBGD16.1616	1"
KBGD16.2020	1.1/4"
KBGD16.2424	1.1/2"
KBGD16.3232	2"

**UNIÃO PASSA PAREDE**  
**MÉTRICA**  
 METRIC STRAIGHT  
 BULKHEAD ADAPTOR

**CÓDIGO**  
 CODE

**ROSCA**  
 THREAD

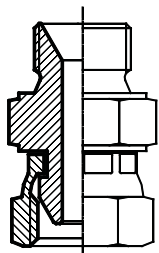
KBGD21.1414	14X1.5
KBGD21.1616	16X1.5
KBGD21.1818	18X1.5
KBGD21.2222	22X1.5

**UNIÃO MACHO BSP -**  
**FÊMEA BSP**  
 METRIC STRAIGHT  
 BULKHEAD ADAPTOR

**CÓDIGO**  
 CODE

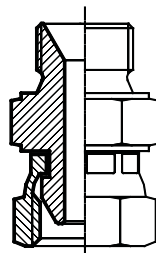
**ROSCA**  
 THREAD

KBGD12.0202	1/8"
KBGD12.0404	1/4"
KBGD12.0606	3/8"
KBGD12.0808	1/2"
KBGD12.1010	5/8"
KBGD12.1212	3/4"
KBGD12.1616	1"
KBGD12.2020	1.1/4"
KBGD12.2424	1.1/2"
KBGD12.3232*	2"

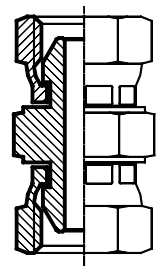
BSP SV 60° • BSP SV 60°

**REDUÇÃO MACHO BSP -  
FÊMEA BSP**  
METRIC STRAIGHT  
BULKHEAD ADAPTOR


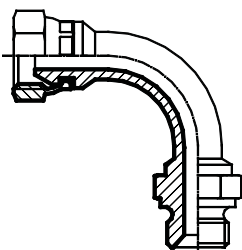
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
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KBGD12.0406	1/4"	3/8"
KBGD12.0408	1/4"	1/2"
KBGD12.0604	3/8"	1/4"
KBGD12.0608	3/8"	1/2"
KBGD12.0612	3/8"	3/4"
KBGD12.0804	1/2"	1/4"
KBGD12.0806	1/2"	3/8"
KBGD12.0812	1/2"	3/4"
KBGD12.1206	3/4"	3/8"
KBGD12.1208	3/4"	1/2"
KBGD12.1216	3/4"	1"
KBGD12.1612	1"	3/4"
KBGD12.1620	1"	1.1/4"
KBGD12.2016	1.1/4"	1"
KBGD12.2024	1.1/4"	1.1/2"
KBGD12.2420	1.1/2"	1.1/4"
KBGD12.2432*	1.1/2"	2"
KBGD12.3224	2"	1.1/2"

**UNIÃO MACHO - FÊMEA  
MÉTRICA**  
ADAPTOR MALE METRIC  
METRIC SWIVEL FEMALE


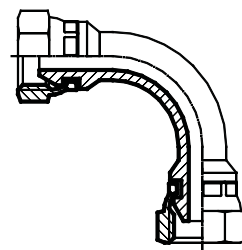
CÓDIGO CODE	ROSCA THREAD
KBGD22.1212	12X1.5
KBGD22.1414	14X1.5
KBGD22.1616	16X1.5
KBGD22.1818	18X1.5
KBGD22.2020	20X1.5
KBGD22.2222	22X1.5
KBGD22.2424	24X1.5
KBGD22.2626	26X1.5
KBGD22.3030	30X1.5

**UNIÃO FÊMEA BSPP  
GIRATÓRIA**  
ADAPTOR BSPP  
SWIVEL FEMALE


CÓDIGO CODE	ROSCA THREAD
KBGD23.0202	10X1
KBGD23.0404	12X1.5
KBGD23.0606	14X1.5
KBGD23.0808	16X1.5
KBGD23.1010	18X1.5
KBGD23.1212	20X1.5
KBGD23.1616	22X1.5
KBGD23.2020	24X1.5
KBGD23.2424	26X1.5

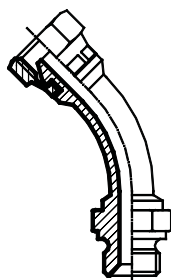
**CURVA 90° FÊMEA BSP**  
90° ADAPTOR MALE BSP  
SWIVEL FEMALE BSP


CÓDIGO CODE	ROSCA THREAD
KBGN40.0202	1/8"
KBGN40.0404	1/4"
KBGN40.0606	3/8"
KBGN40.0808	1/2"
KBGN40.1010	5/8"
KBGN40.1212	3/4"
KBGN40.1616	1"
KBGN40.2020*	1.1/4"
KBGN40.2424*	1.1/2"
KBGN40.3232*	2"

**CURVA 90° FÊMEA BSP**  
90° ADAPTOR FEMALE  
BSP SWIVEL FEMALE BSP


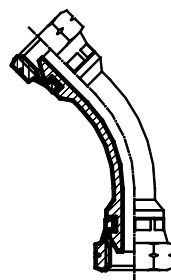
CÓDIGO CODE	ROSCA THREAD
KBGN42.0202	1/8"
KBGN42.0404	1/4"
KBGN42.0606	3/8"
KBGN42.0808	1/2"
KBGN42.1010	5/8"
KBGN42.1212	3/4"
KBGN42.1616	1"
KBGN42.2020*	1.1/4"
KBGN42.2424*	1.1/2"
KBGN42.3232*	2"

**CURVA 45° MACHO  
FÊMEA BSP**  
45° ADAPTOR MALE BSP  
SWIVEL FEMALE BSP



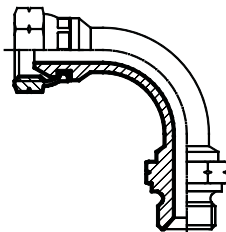
CÓDIGO CODE	ROSCA THREAD
KBGQ20.0202	1/8"
KBGQ20.0404	1/4"
KBGQ20.0606	3/8"
KBGQ20.0808	1/2"
KBGQ20.1010	5/8"
KBGQ20.1212	3/4"
KBGQ20.1616	1"
KBGQ20.2020*	1.1/4"
KBGQ20.2424*	1.1/2"
KBGQ20.3232*	2"

**CURVA 45° FÊMEA BSP**  
45° ADAPTOR FEMALE  
BSP SWIVEL FEMALE BSP



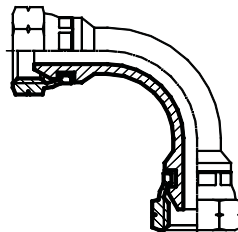
CÓDIGO CODE	ROSCA THREAD
KBGQ22.0202	1/8"
KBGQ22.0404	1/4"
KBGQ22.0606	3/8"
KBGQ22.0808	1/2"
KBGQ22.1010	5/8"
KBGQ22.1212	3/4"
KBGQ22.1616	1"
KBGQ22.2020*	1.1/4"
KBGQ22.2424*	1.1/2"
KBGQ22.3232*	2"

**CURVA 90° MACHO  
FÊMEA MÉTRICA**  
90° ADAPTOR METRIC  
MALE METRIC SWIVEL  
FEMALE



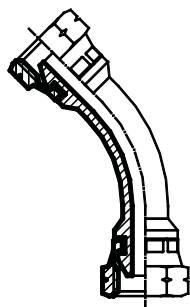
CÓDIGO CODE	ROSCA THREAD
KBGN44.1010	10X1
KBGN44.1212	12x1.5
KBGN44.1414	14X1.5
KBGN44.1616	16X1.5
KBGN44.1818	18X1.5
KBGN44.2020	20X1.5
KBGN44.2222	22X1.5
KBGN44.2424	24X1.5
KBGN44.2626	26X1.5

**CURVA 90° FÊMEA  
FÊMEA MÉTRICA**  
90° ADAPTOR METRIC  
FEMALE METRIC SWIVEL  
FEMALE



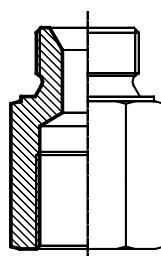
CÓDIGO CODE	ROSCA THREAD
KBGN46.1010	10X1
KBGN46.1212	12x1.5
KBGN46.1414	14X1.5
KBGN46.1616	16X1.5
KBGN46.1818	18X1.5
KBGN46.2020	20X1.5
KBGN46.2222	22X1.5
KBGN46.2424	24X1.5
KBGN46.2626	26X1.5

**CURVA 45° FÊMEA  
MÉTRICA**  
45° ADAPTOR METRIC  
SWIVEL FEMALE



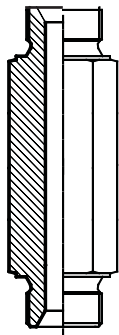
CÓDIGO CODE	ROSCA THREAD
KBGD24.1010	10X1
KBGD24.1212	12X1.5
KBGD24.1414	14X1.5
KBGD24.1616	16X1.5
KBGD24.1818	18X1.5
KBGD24.2020	20X1.5
KBGD24.2222	22X1.5
KBGD24.2424	24X1.5
KBGD24.2626	26X1.5

**PROLONGAMENTO  
MACHO FÊMEA BSP**  
ADAPTOR MALE BSP  
FIXED FEMALE BSP

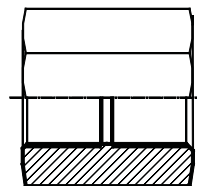


CÓDIGO CODE	ROSCA THREAD	COMPRIMENTO LENGTH
KBGD15.0230.5	1/8"	30.5
KBGD15.0433	1/4"	33
KBGD15.0442	1/4"	42
KBGD15.0450	1/4"	50
KBGD15.0455	1/4"	55
KBGD15.0635	3/8"	35
KBGD15.0642	3/8"	42
KBGD15.0654	3/8"	54
KBGD15.0840	1/2"	40
KBGD15.0845	1/2"	45
KBGD15.0850	1/2"	50
KBGD15.0860	1/2"	60
KBGD15.1248	3/4"	48
KBGD15.1257	3/4"	57
KBGD15.1267	3/4"	67
KBGD15.1272	3/4"	72
KBGD15.1654	1"	54
KBGD15.1660	1"	60
KBGD15.1680	1"	80
KBGD15.2062	1.1/4"	62
KBGD15.2092	1.1/4"	92
KBGD15.2465	1.1/2"	65
KBGD15.2495	1.1/2"	95
KBGD15.3257	2"	57
KBGD15.3262	2"	62

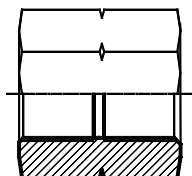
BSP SV 60° • BSP SV 60°

**UNIÃO MACHO BSPP**  
ADAPTOR MALE BSPP**CÓDIGO**  
CODE**ROSCA**  
THREAD

KBGD50.0404	1/4"
KBGD50.0606	3/8"
KBGD50.0808	1/2"
KBGD50.1212	3/4"
KBGD50.1616	1"
KBGD50.2020	1.1/4"

**UNIÃO FÊMEA - FÊMEA**  
**FIXA**  
ADAPTOR FIXED FEMALE  
BSPP**CÓDIGO**  
CODE**ROSCA**  
THREAD

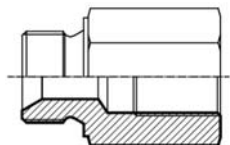
KBGD40.0202	1/8"
KBGD40.0404	1/4"
KBGD40.0606	3/8"
KBGD40.0808	1/2"
KBGD40.1010	5/8"
KBGD40.1212	3/4"
KBGD40.1616	1"
KBGD40.2020	1.1/4"
KBGD40.2424	1.1/2"
KBGD40.3232	2"

**UNIÃO FÊMEA - FÊMEA**  
**MÉTRICA**  
ADAPTOR METRIC FIXED  
FEMALE**CÓDIGO**  
CODE**ROSCA**  
THREAD

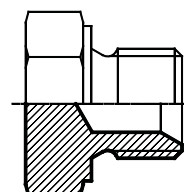
KBGD42.1414	14X1.5
KBGD42.1616	16X1.5
KBGD42.1818	18X1.5
KBGD42.2222	22X1.5

**REDUÇÃO MACHO**  
**FÊMEA BSPP**  
MALE FEMALE STUD  
ADAPTER PACKING RING**CÓDIGO**  
CODE**ROSCA**  
THREAD**ROSCA**  
THREAD

547000.0206	3/8"	1/8"
547000.0208	1/2"	1/8"
547000.0408	1/2"	1/4"
547000.0412	3/4"	1/4"
547000.0612	3/4"	3/8"
547000.0416	1"	1/4"
547000.0616	1"	3/8"
547000.0824	1.1/2"	1/2"
547000.1224	1.1/2"	3/4"
547000.1624	1.1/2"	1"

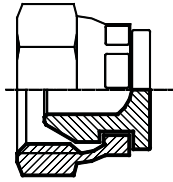
**REDUÇÃO MACHO**  
**FÊMEA BSPP (RI)**  
MALE FEMALE STUD  
ADAPTER PACKING RING**CÓDIGO**  
CODE**ROSCA**  
THREAD**ROSCA**  
THREAD

547000.0204	1/8"	1/4"
547000.0206	1/8"	3/8"
547000.0402	1/4"	1/8"
547000.0406	1/4"	3/8"
547000.0408	1/4"	1/2"
547000.0412	1/4"	3/4"
547000.0604	3/8"	1/4"
547000.0608	3/8"	1/2"
547000.0612	3/8"	3/4"
547000.0806	1/2"	3/8"
547000.0812	1/2"	3/4"
547000.0816	1/2"	1"
547000.1208	3/4"	1/2"
547000.1216	3/4"	1"
547000.1224	3/4"	1.1/2"
547000.1612	1"	3/4"
547000.1620	1"	1.1/4"
547000.1624	1"	1.1/2"
547000.2016	1.1/4"	1"
547000.2024	1.1/4"	1.1/2"
547000.2420	1.1/2"	1.1/4"

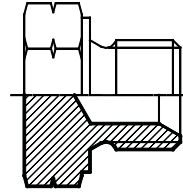
**TACO MACHO BSP**  
MALE PLUG BSPP**CÓDIGO**  
CODE**ROSCA**  
THREAD**ROSCA**  
THREAD

KBGD36.02	1/8"	15
KBGD36.04	1/4"	19
KBGD36.06	3/8"	22
KBGD36.08	1/2"	27
KBGD36.10	5/8"	28
KBGD36.12	3/4"	32
KBGD36.16	1"	38
KBGD36.20	1.1/4"	50
KBGD36.24	1.1/2"	55
KBGD36.32 *	2"	70

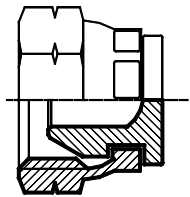


**TACO FÊMEA BSP**  
FEMALE PLUG BSPP

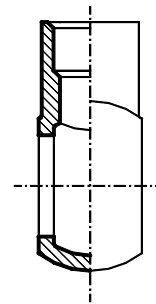
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGD38.02	1/8"	15
KBGD38.04	1/4"	19
KBGD38.06	3/8"	22
KBGD38.08	1/2"	27
KBGD38.10	5/8"	28
KBGD38.12	3/4"	32
KBGD38.16	1"	38
KBGD38.20	1.1/4"	50
KBGD38.24	1.1/2"	55
KBGD38.32 *	2"	70

**TACO MACHO MÉTRICO**  
METRIC MALE PLUG

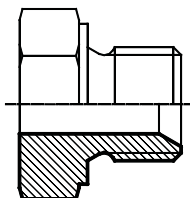
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGD37.08	8X1	9
KBGD37.10	10X1	14
KBGD37.12	12X1.5	17
KBGD37.14	14X1.5	19
KBGD37.16	16X1.5	22
KBGD37.18	18X1.5	24
KBGD37.20	20X1.5	27
KBGD37.22	22X1.5	27
KBGD37.24	24X1.5	30
KBGD37.26	26X1.5	32
KBGD37.28	28X1.5	34
KBGD37.30	30X1.5	38

**TACO FÊMEA MÉTRICA**  
SWIVEL METRIC FEMALE  
PLUG

CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGD39.10	10X1	15
KBGD39.12	12X1.5	17
KBGD39.14	14X1.5	19
KBGD39.16	16X1.5	22
KBGD39.18	18X1.5	22
KBGD39.20	20X1.5	27
KBGD39.22	22X1.5	27
KBGD39.24	24X1.5	30
KBGD39.26	26X1.5	32
KBGD39.28	28X1.5	32
KBGD39.30	30X1.5	36

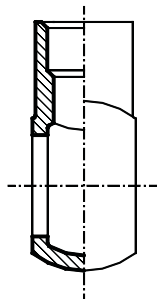
**BANJO SOLDAR BSPP**  
WELDING BANJO BSPP

CÓDIGO CODE	DIÂM Ø	TUBO TUBE
KBGD61.0206	1/8"	6
KBGD61.0406	1/4"	6
KBGD61.0408	1/4"	8
KBGD61.0410	1/4"	10
KBGD61.0412	1/4"	12
KBGD61.0610	3/8"	10
KBGD61.0612	3/8"	12
KBGD61.0614	3/8"	14
KBGD61.0615	3/8"	15
KBGD61.0812	1/2"	12
KBGD61.0814	1/2"	14
KBGD61.0815	1/2"	15
KBGD61.0816	1/2"	16
KBGD61.0818	1/2"	18
KBGD61.1018	5/8"	18
KBGD61.1022	5/8"	22
KBGD61.1218	3/4"	18
KBGD61.1220	3/4"	20
KBGD61.1222	3/4"	22
KBGD61.1625	1"	25
KBGD61.1627	1"	27

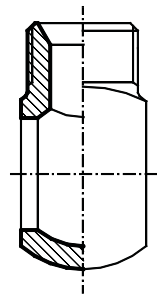
**MACHO SOLDAR BSPP**  
WELDING MALE  
ADAPTOR BSPP

CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGD14.0206	6	1/8"
KBGD14.0406	6	1/4"
KBGD14.0410	10	1/4"
KBGD14.0412	12	1/4"
KBGD14.0610	10	3/8"
KBGD14.0612	12	3/8"
KBGD14.0614	14	3/8"
KBGD14.0616	16	3/8"
KBGD14.0814	14	1/2"
KBGD14.0815	15	1/2"
KBGD14.0816	16	1/2"
KBGD14.0818	18	1/2"
KBGD14.0820	20	1/2"
KBGD14.1016	16	5/8"
KBGD14.1216	16	3/4"
KBGD14.1220	20	3/4"
KBGD14.1225	25	3/4"
KBGD14.1625	25	1"
KBGD14.2038	38	1.1/4"
KBGD14.2442	42	1.1/2"

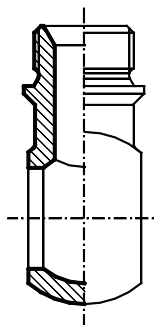
BSP SV 60° • BSP SV 60°

**BANJO MÉTRICO  
SOLDAR**  
METRIC  
WELDING BANJO


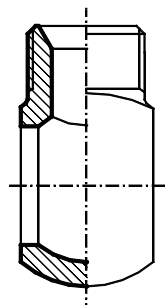
CÓDIGO CODE	DIÂM Ø	TUBO TUBE
KBGD62.0604	6	4
KBGD62.0804	8	4
KBGD62.0805	8	5
KBGD62.0806	8	6
KBGD62.1006	10	6
KBGD62.1008	10	8
KBGD62.1206	12	6
KBGD62.1208	12	8
KBGD62.1210	12	10
KBGD62.1406	14	6
KBGD62.1408	14	8
KBGD62.1410	14	10
KBGD62.1412	14	12
KBGD62.1610	16	10
KBGD62.1612	16	12
KBGD62.1614	16	14
KBGD62.1810	18	10
KBGD62.1812	18	12
KBGD62.1814	18	14
KBGD62.1815	18	15

**BANJO MACHO BSPP**  
BSPP MALE BANJO


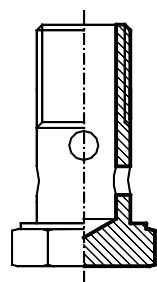
CÓDIGO CODE	DIÂM Ø	TUBO TUBE
KBGD64.0202	1/8"	1/8"
KBGD64.0404	1/4"	1/4"
KBGD64.0604	1/4"	3/8"
KBGD64.0606	3/8"	3/8"
KBGD64.0608	1/2"	3/8"
KBGD64.0804	1/4"	1/2"
KBGD64.0806	3/8"	1/2"
KBGD64.0808	1/2"	1/2"
KBGD64.1208	1/2"	3/4"
KBGD64.1212	3/4"	3/4"
KBGD64.1612	3/4"	1"
KBGD64.1616	1"	1"

**BANJO MACHO BSPP**  
BANJO BSPP - MALE  
BSPP WITH GUIDE


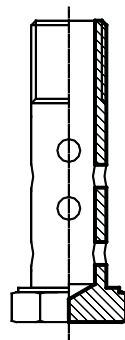
CÓDIGO CODE	DIÂM Ø	TUBO TUBE
KBGD64.0404	1/4"	1/4"
KBGD64.0604	1/4"	3/8"
KBGD64.0606	3/8"	3/8"
KBGD64.0608	1/2"	3/8"
KBGD64.0806	3/8"	1/2"
KBGD64.0808	1/2"	1/2"
KBGD64.1212	3/4"	3/4"
KBGD64.1616	1"	1"

**BANJO MACHO  
MÉTRICO**  
METRIC BANJO - MALE  
BSPP


CÓDIGO CODE	DIÂM Ø	TUBO TUBE
KBGD66.1010	10x1	10x1
KBGD66.1212	12x1.5	12x1.5
KBGD66.1414	14x1.5	14x1.5
KBGD66.1616	16x1.5	16x1.5
KBGD66.1816	18x1.5	16x1.5
KBGD66.1818	18x1.5	18x1.5
KBGD66.1822	18x1.5	22x1.5
KBGD66.2018	20x1.5	18x1.5
KBGD66.2020	20x1.5	20x1.5
KBGD66.2218	22x1.5	18x1.5
KBGD66.2222	22x1.5	22x1.5
KBGD66.2626	26x1.5	26x1.5

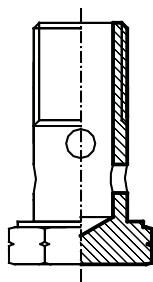
**PARAFUSO BSPP**  
BSPP BOLT


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
401002.02	1/8"	14
401002.04	1/4"	19
401002.06	3/8"	22
401002.08	1/2"	27
401002.10	5/8"	30
401002.12	3/4"	32
401002.16	1"	41
401002.20	1.1/4"	-
401002.24	1.1/2"	-

**PARAFUSO DUPLO BSPP**  
DOUBLE BSPP BOLT


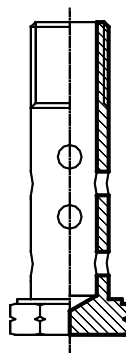
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
401010.02	1/8"	14
401010.04	1/4"	19
401010.06	3/8"	22
401010.08	1/2"	27
401010.10	5/8"	30
401010.12	3/4"	32
401010.16	1"	41
401010.20	1.1/4"	-
401010.24	1.1/2"	-

**PARAFUSO MÉTRICO**  
METRIC BOLT



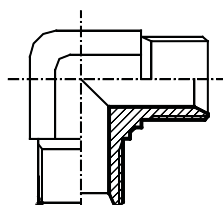
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
401006.06	6X1	10
401006.08	8X1	12
401006.08X1.25	8X1.25	12
401006.08X1.5	8X1.5	12
401006.10	10X1	14
401006.10X1.25	10X1.25	14
401006.10X1.5	10X1.5	14
401006.12	12X1.5	17
401006.12X1	12X1	17
401006.12X1.25	12X1.25	17
401006.14	14X1.5	19
401006.16	16X1.5	22
401006.18	18X1.5	24
401006.20	20X1.5	27
401006.22	22X1.5	27
401006.24	24X1.5	30
401006.24X2	24X2	30
401006.26	26X1.5	32
401006.30	30X1.5	38

**PARAFUSO DUPLO  
MÉTRICO**  
DOUBLE METRIC BOLT



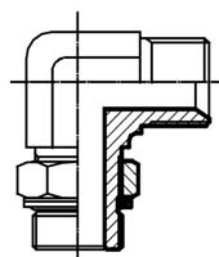
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
401011.M08	8X1	-
401011.08X1.25	8X1.25	-
401011.10	10X1	-
401011.10X1.25	10X1.25	-
401011.12	12X1.5	-
401011.12X1.25	12X1.25	-
401011.14	14X1.5	-
401011.16	16X1.5	-
401011.18	18X1.5	-
401011.20	20X1.5	-
401011.22	22X1.5	-
401011.26	26X1.5	-

**JOELHO MACHO BSP**  
90° ADAPTOR BSP MALE



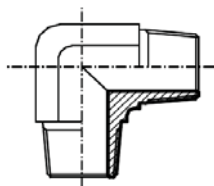
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN10.02	1/8"	1/8"
KBGN10.04	1/4"	1/4"
KBGN10.06	3/8"	3/8"
KBGN10.08	1/2"	1/2"
KBGN10.10	5/8"	5/8"
KBGN10.12	3/4"	3/4"
KBGN10.16	1"	1"
KBGN10.20	1.1/4"	1.1/4"
KBGN10.24	1.1/2"	1.1/2"

**JOELHO MACHO  
ORIENTAVÉL BSP**  
90° ADAPTOR BSP MALE



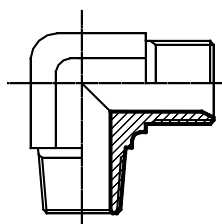
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN16.0202	1/8"	1/8"
KBGN16.0204	1/8"	1/4"
KBGN16.0404	1/4"	1/4"
KBGN16.0406	1/4"	3/8"
KBGN16.0606	3/8"	3/8"
KBGN16.0608	3/8"	1/2"
KBGN16.0808	1/2"	1/2"
KBGN16.0812	1.2"	3/4"
KBGN16.1208	3/4"	1/2"
KBGN16.1212	3/4"	3/4"
KBGN16.1216	3/4"	1"
KBGN16.1616	1"	1"

**JOELHO MACHO NPT**  
90° ADAPTOR  
MALE NPT



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN11.02	1/8"	1/8"
KBGN11.04	1/4"	1/4"
KBGN11.06	3/8"	3/8"
KBGN11.08	1/2"	1/2"
KBGN11.12	3/4"	3/4"
KBGN11.16	1"	1"
KBGN11.20	1.1/4"	1.1/4"

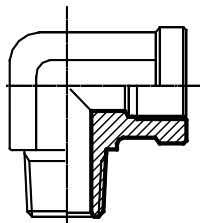
**JOELHO MACHO  
BSP - MACHO NPT**  
90° ADAPTOR  
MALE BSPP- MALE NPT



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN08.02	1/8"	1/8"
KBGN08.04	1/4"	1/4"
KBGN08.06	3/8"	3/8"
KBGN08.08	1/2"	1/2"
KBGN08.10	5/8"	5/8"
KBGN08.12	3/4"	3/4"
KBGN08.16	1"	1"
KBGN08.20	1.1/4"	1.1/4"

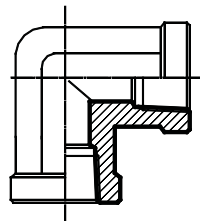
BSP SV 60° • BSP SV 60°

**JOELHO MACHO  
BSPT - FÊMEA BSPP**  
90° ADAPTOR  
MALE BSPT- FEMALE  
BSPP



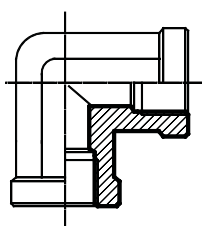
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN05.02	1/8"	1/8"
KBGN05.04	1/4"	1/4"
KBGN05.06	3/8"	3/8"
KBGN05.08	1/2"	1/2"
KBGN05.12	3/4"	3/4"
KBGN05.16	1"	1"

**JOELHO FÊMEA NPT**  
90° ADAPTOR  
FEMALE NPT



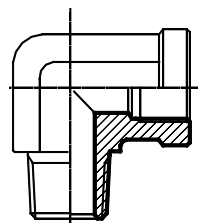
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN07.02	1/8"	1/8"
KBGN07.04	1/4"	1/4"
KBGN07.06	3/8"	3/8"
KBGN07.08	1/2"	1/2"
KBGN07.12	3/4"	3/4"
KBGN07.16	1"	1"

**JOELHO FÊMEA BSPP**  
90° ADAPTOR FIXED  
FEMALE BSPP



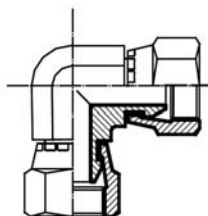
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN06.02	1/8"	1/8"
KBGN06.04	1/4"	1/4"
KBGN06.06	3/8"	3/8"
KBGN06.08	1/2"	1/2"
KBGN06.12	3/4"	3/4"
KBGN06.16	1"	1"

**JOELHO FIXO MACHO  
FÊMEA NPT**  
90° ADAPTOR FIXED  
MALE FIXED  
FEMALE NPT



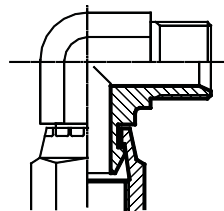
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN04.02	1/8"	1/8"
KBGN04.04	1/4"	1/4"
KBGN04.06	3/8"	3/8"
KBGN04.08	1/2"	1/2"
KBGN04.12	3/4"	3/4"
KBGN04.16	1"	1"

**JOELHO FÊMEA - FÊMEA  
BSP**  
90° ADAPTOR FEMALE  
BSPP SWIVEL FEMALE  
BSPP



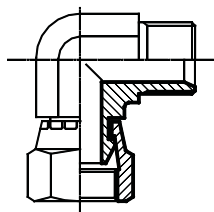
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN13.02	1/8"	1/8"
KBGN13.04	1/4"	1/4"
KBGN13.06	3/8"	3/8"
KBGN13.08	1/2"	1/2"
KBGN13.12	3/4"	3/4"
KBGN13.16	1"	1"
KBGN13.20	1.1/4"	1.1/4"

**JOELHO MACHO  
FÊMEA BSP**  
90° ADAPTOR MALE  
BSPP SWIVEL FEMALE  
BSPP



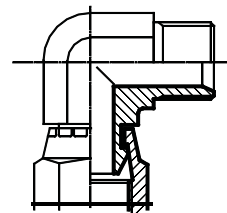
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN12.02	1/8"	1/8"
KBGN12.04	1/4"	1/4"
KBGN12.06	3/8"	3/8"
KBGN12.08	1/2"	1/2"
KBGN12.12	3/4"	3/4"
KBGN12.16	1"	1"
KBGN12.20	1.1/4"	1.1/4"

**JOELHO MACHO  
FÊMEA MÉTRICO**  
90° ADAPTOR METRIC  
MALE - METRIC FEMALE



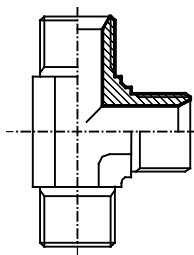
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN20.12	12x1.5	12x1.5
KBGN20.14	14x1.5	14x1.5
KBGN20.16	16x1.5	16x1.5
KBGN20.18	18x1.5	18x1.5
KBGN20.20	20x1.5	20x1.5
KBGN20.22	22x1.5	22x1.5
KBGN20.26	26x1.5	26x1.5
KBGN20.30	30x1.5	30x1.5

**JOELHO MACHO  
FÊMEA NPT**  
90° ADAPTOR MALE NPT  
SWIVEL FEMALE BSPP



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBGN21.02	1/8"	1/8"
KBGN21.04	1/4"	1/4"
KBGN21.06	3/8"	3/8"
KBGN21.08	1/2"	1/2"
KBGN21.12	3/4"	3/4"
KBGN21.16	1"	1"
KBGN21.20	1.1/4"	1.1/4"

**T MACHO BSP**  
ADAPTOR "T" MALE BSP

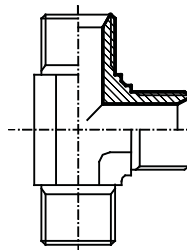


**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT10.02	1/8"
KBGT10.04	1/4"
KBGT10.06	3/8"
KBGT10.08	1/2"
KBGT10.10	5/8"
KBGT10.12	3/4"
KBGT10.16	1"
KBGT10.20	1.1/4"

**T MACHO MÉTRICO**  
ADAPTOR "T" MALE METRIC

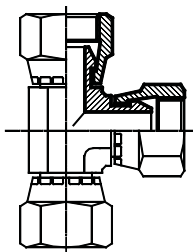


**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT20.10	10x1
KBGT20.12	12x1.5
KBGT20.14	14x1.5
KBGT20.16	16x1.5
KBGT20.18	18x1.5
KBGT20.20	20x1.5
KBGT20.22	22x1.5
KBGT20.26	26x1.5
KBGT20.30	30x1.5

**T FÊMEA GIRATÓRIA BSPP**  
"T" SWIVEL FEMALE ADAPTOR BSPP

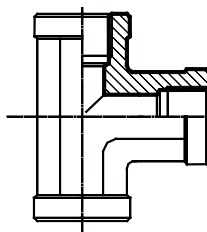


**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT11.02	1/8"
KBGT11.04	1/4"
KBGT11.06	3/8"
KBGT11.08	1/2"
KBGT11.12	3/4"
KBGT11.16	1"
KBGT11.20	1.1/4"

**T FÊMEA FIXA BSP**  
"T" FIXED FEMALE ADAPTOR BSPP

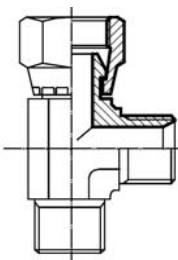


**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT30.02	1/8"
KBGT30.04	1/4"
KBGT30.06	3/8"
KBGT30.08	1/2"
KBGT30.12	3/4"
KBGT30.16	1"

**T FÊMEA LATERAL GIRATÓRIA BSPP**  
"T" SWIVEL FEMALE ADAPTOR BSPP

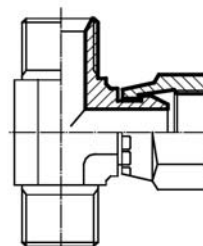


**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT16.02	1/8"
KBGT16.04	1/4"
KBGT16.06	3/8"
KBGT16.08	1/2"
KBGT16.12	3/4"
KBGT16.16	1"
KBGT16.20	1.1/4"

**T FÊMEA CENTRAL GIRATÓRIA BSPP**  
"T" SWIVEL FEMALE ADAPTOR BSPP

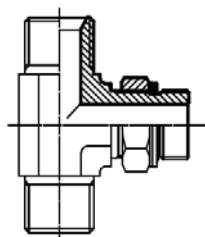


**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT12.02	1/8"
KBGT12.04	1/4"
KBGT12.06	3/8"
KBGT12.08	1/2"
KBGT12.12	3/4"
KBGT12.16	1"
KBGT12.20	1.1/4"

**T BSPP ORIENTÁVEL CENTRAL**  
ADJUSTABLE "T" ADAPTOR MALE BSPP

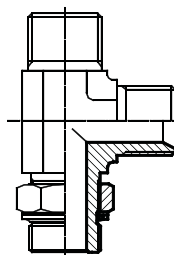


**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT14.0202	1/8"
KBGT14.0404	1/4"
KBGT14.0606	3/8"
KBGT14.0808	1/2"
KBGT14.0812	1/2"
KBGT14.1208	3/4"
KBGT14.1212	3/4"
KBGT14.1216	3/4"
KBGT14.1616	1"

**T BSPP ORIENTÁVEL LATERAL**  
ADJUSTABLE "T" ADAPTOR MALE BSPP



**CÓDIGO**  
CODE

**ROSCA**  
THREAD

KBGT18.0202	1/8"
KBGT18.0404	1/4"
KBGT18.0406	1/4"
KBGT18.0606	3/8"
KBGT18.0608	3/8"
KBGT18.0808	1/2"
KBGT18.0812	1/2"
KBGT18.1208	3/4"
KBGT18.1212	3/4"
KBGT18.2116	3/4"
KBGT18.1616	1"

\* Todos os artigos disponíveis em AISI 316.

\* All items available in AISI 316.

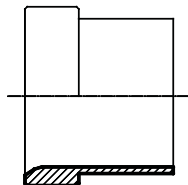


# JIC • JIC



JIC

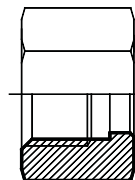
**ANEL  
BUSH**



**CÓDIGO  
CODE**      **TUBO  
HOSE**

KBJD01.04	6-1/4"
KBJD01.05	8-5/16"
KBJD01.06	3/8"
KBJD01.10	10
KBJD01.08	1/2"
KBJD01.12	12
KBJD01.14	14
KBJD01.15	15
KBJD01.16	16-5/8"
KBJD01.18	18
KBJD01.20	20-3/4"
KBJD01.22	22
KBJD01.25	25-1"
KBJD01.30	30
KBJD01.32	32 - 1.1/4"
KBJD01.38	38 - 1.1/2"

**PORCA  
NUT**



**CÓDIGO  
CODE**      **ROSCA  
THREAD**

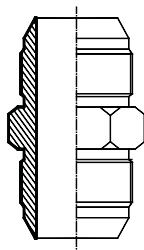
KBJD02.04	7/16"
KBJD02.05	1/2"
KBJD02.06	9/16"
KBJD02.08	3/4"
KBJD02.10	7/8"
KBJD02.12	1".1/16
KBJD02.16	1".5/16
KBJD02.20	1".5/8
KBJD02.24	1".7/8

**UNIÃO JIC - BSPP  
ADAPTOR MALE JIC  
MALE BSPP**

**CÓDIGO  
CODE**      **ROSCA  
THREAD**      **ROSCA  
THREAD**

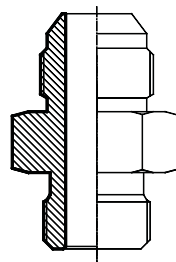
KBJD12.0204	7/16"	1/8"
KBJD12.0404	7/16"	1/4"
KBJD12.0304	7/16"	3/8"
KBJD12.0804	7/16"	1/2"
KBJD12.0205	1/2"	1/8"
KBJD12.0405	1/2"	1/4"
KBJD12.0605	1/2"	3/8"
KBJD12.0805	1/2"	1/2"
KBJD12.0206	9/16"	1/8"
KBJD12.0406	9/16"	1/4"
KBJD12.0606	9/16"	3/8"
KBJD12.0608	9/16"	1/2"
KBJD12.0804	3/4"	1/4"
KBJD12.0806	3/4"	3/8"
KBJD12.0808	3/4"	1/2"
KBJD12.0812	3/4"	3/4"
KBJD12.1006	7/8"	3/8"
KBJD12.1008	7/8"	1/2"
KBJD12.1012	7/8"	3/4"
KBJD12.1016	7/8"	1"
KBJD12.1208	1".1/16	1/2"
KBJD12.1212	1".1/16	3/4"
KBJD12.1216	1".1/16	1"
KBJD12.1612	1".5/16	3/4"
KBJD12.1616	1".5/16	1"
KBJD12.1620	1".5/16	1".1/4
KBJD12.2016	1".5/8	1"
KBJD12.2020	1".5/8	1".1/4
KBJD12.2420	1".5/8	1".1/2
KBJD12.2016	1".7/8	1"
KBJD12.2024	1".7/8	1".1/4
KBJD12.2424	1".7/8	1".1/2

**UNIÃO JIC  
JIC ADAPTOR**

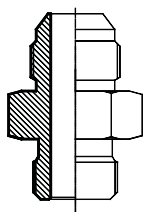


**CÓDIGO  
CODE**      **ROSCA  
THREAD**      **ROSCA  
THREAD**

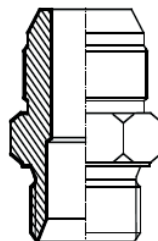
KBJD10.0505	1/2"	1/2"
KBJD10.0606	9/16"	9/16"
KBJD10.0808	3/4"	3/4"
KBJD10.1010	7/8"	7/8"
KBJD10.1212	1".1/16	1".1/16
KBJD10.1616	1".5/16	1".5/16
KBJD10.2020	1".5/8	1".5/8
KBJD10.2424	1".7/8	1".7/8



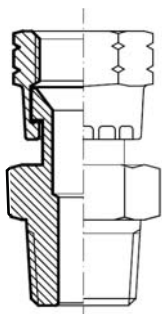


**UNIÃO MACHO JIC - MACHO UNF**  
**ADAPTOR MALE JIC - MALE UNF**


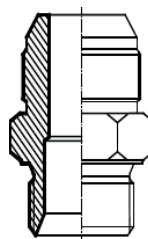
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD11.0404	7/16"	7/16"
KBJD11.0405	7/16"	1/2"
KBJD11.0406	7/16"	9/16"
KBJD11.0408	7/16"	3/4"
KBJD11.0505	1/2"	1/2"
KBJD11.0506	1/2"	9/16"
KBJD11.0604	9/16"	7/16"
KBJD11.0605	9/16"	1/2"
KBJD11.0606	9/16"	9/16"
KBJD11.0608	9/16"	3/4"
KBJD11.0610	9/16"	7/8"
KBJD11.0806	3/4"	9/16"
KBJD11.0808	3/4"	3/4"
KBJD11.0810	3/4"	7/8"
KBJD11.0812	3/4"	1".1/16
KBJD11.1008	7/8"	3/4"
KBJD11.1010	7/8"	7/8"
KBJD11.1012	7/8"	1".1/16
KBJD11.1208	1.1/16"	3/4"
KBJD11.1210	1.1/16"	7/8"
KBJD11.1212	1.1/16"	1.1/16"
KBJD11.1216	1.1/16"	1.5/16"
KBJD11.1610	1.5/16"	7/8"
KBJD11.1612	1.5/16"	1.1/16"
KBJD11.1616	1.5/16"	1.5/16"
KBJD11.1620	1.5/16"	1.5/8"
KBJD11.2016	1.5/8"	1.5/16"
KBJD11.2020	1.5/8"	1.5/8"
KBJD11.2420	1.7/8"	1.5/8"
KBJD11.2424	1.7/8"	1.7/8"

**UNIÃO MACHO JIC - MACHO BSP CONE 60°**  
**ADAPTOR MALE JIC - MALE BSP 60° CONE**


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD22.0402	7/16"	1/8"
KBJD22.0404	7/16"	1/4"
KBJD22.0403	7/16"	3/8"
KBJD22.0408	7/16"	1/2"
KBJD22.0502	1/2"	1/8"
KBJD22.0504	1/2"	1/4"
KBJD22.0506	1/2"	3/8"
KBJD22.0508	1/2"	1/2"
KBJD22.0602	9/16"	1/8"
KBJD22.0604	9/16"	1/4"
KBJD22.0606	9/16"	3/8"
KBJD22.0806	9/16"	1/2"
KBJD22.0408	3/4"	1/4"
KBJD22.0608	3/4"	3/8"
KBJD22.0808	3/4"	1/2"
KBJD22.1208	3/4"	3/4"
KBJD22.0610	7/8"	3/8"
KBJD22.0810	7/8"	1/2"
KBJD22.1210	7/8"	3/4"
KBJD22.1610	7/8"	1"
KBJD22.0812	1".1/16	1/2"
KBJD22.1212	1".1/16	3/4"
KBJD22.1612	1".1/16	1"
KBJD22.1216	1".5/16	3/4"
KBJD22.1616	1".5/16	1"
KBJD22.2016	1".5/16	1".1/4
KBJD22.1620	1".5/8	1"
KBJD22.2020	1".5/8	1".1/4
KBJD22.2024	1".5/8	1".1/2
KBJD22.1620	1".7/8	1"
KBJD22.2420	1".7/8	1".1/4
KBJD22.2424	1".7/8	1".1/2

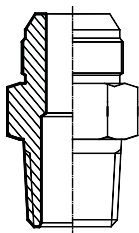
**UNIÃO ORIENTÁVEL FÊMEA JIC - MACHO MÉTRICO CONE 60°**  
**ADAPTOR FEMALE JIC - MALE METRIC 60° CONE**


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD36.0410	7/16"	10X1
KBJD36.0412	7/16"	12X1,5
KBJD36.0510	1/2"	10X1
KBJD36.0512	1/2"	12X1,5
KBJD36.0514	1/2"	14X1,5
KBJD36.0614	9/16"	14X1,5
KBJD36.0616	9/16"	16X1,5
KBJD36.0814	3/4"	14X1,5
KBJD36.0816	3/4"	16X1,5
KBJD36.0818	3/4"	18X1,5
KBJD36.1018	7/8"	18X1,5
KBJD36.1020	7/8"	20X1,5
KBJD36.1022	7/8"	22X1,5
KBJD36.1222	1".1/16	22X1,5
KBJD36.1227	1".1/16	27X2
KBJD36.1629	1".5/16	27X2
KBJD36.2033	1".5/16	33X2
KBJD36.2442	1".5/8	42X2
KBJD36.2448	1".7/8	48X2

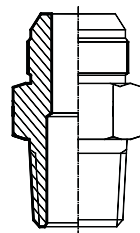
**UNIÃO MACHO JIC - MACHO MÉTRICO**  
**ADAPTOR MALE JIC - MALE METRIC**


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD34.0410	7/16"	10x1
KBJD34.0412	7/16"	12x1.5
KBJD34.0510	1/2"	10x1
KBJD34.0512	1/2"	12x1.5
KBJD34.0514	1/2"	14x1.5
KBJD34.0614	9/16"	14x1.5
KBJD34.0616	9/16"	16x1.5
KBJD34.0814	3/4"	14x1.5
KBJD34.0816	3/4"	16x1.5
KBJD34.0818	3/4"	18x1.5
KBJD34.1018	7/8"	18x1.5
KBJD34.1020	7/8"	20x1.5
KBJD34.1022	7/8"	22x1.5
KBJD34.1222	1.1/16"	22x1.5
KBJD34.1227	1.1/16"	27x2
KBJD34.1633	1.5/16"	33x2
KBJD34.2042	1.5/8"	42x8
KBJD34.2448	1.7/16"	48x2

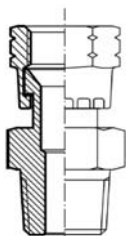
JIC

**UNIÃO MACHO JIC  
- MACHO BSPT  
ADAPTOR MALE  
JIC - MALE BSPT**


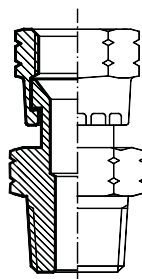
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD18.0402	7/16"	1/8"
KBJD18.0404	7/16"	1/4"
KBJD18.0502	1/2"	1/8"
KBJD18.0504	1/2"	1/4"
KBJD18.0602	9/16"	1/8"
KBJD18.0604	9/16"	1/4"
KBJD18.0606	9/16"	3/8"
KBJD18.0608	9/16"	1/2"
KBJD18.0804	3/4"	1/4"
KBJD18.0806	3/4"	3/8"
KBJD18.0808	3/4"	1/2"
KBJD18.0808	3/4"	3/4"
KBJD18.1006	7/8"	3/8"
KBJD18.1008	7/8"	1/2"
KBJD18.1012	7/8"	3/4"
KBJD18.1208	1".1/16	1/2"
KBJD18.1212	1".1/16	3/4"
KBJD18.1216	1".1/16	1"
KBJD18.1612	1".5/16	3/4"
KBJD18.1616	1".5/16	1"
KBJD18.2020	1".5/8	1".1/4
KBJD18.2420	1".7/8	1".1/4
KBJD18.2424	1".7/8	1".1/2

**UNIÃO MACHO JIC  
- MACHO NPT  
ADAPTOR MALE  
JIC - MALE NPT**


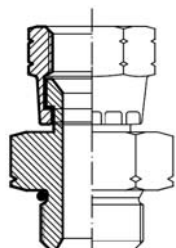
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD19.0402	7/16"	1/8"
KBJD19.0404	7/16"	1/4"
KBJD19.0502	1/2"	1/8"
KBJD19.0504	1/2"	1/4"
KBJD19.0602	9/16"	1/8"
KBJD19.0604	9/16"	1/4"
KBJD19.0606	9/16"	3/8"
KBJD19.0608	9/16"	1/2"
KBJD19.0804	3/4"	1/4"
KBJD19.0806	3/4"	3/8"
KBJD19.0808	3/4"	1/2"
KBJD19.0808	3/4"	3/4"
KBJD19.1006	7/8"	3/8"
KBJD19.1008	7/8"	1/2"
KBJD19.1012	7/8"	3/4"
KBJD19.1208	1".1/16	1/2"
KBJD19.1212	1".1/16	3/4"
KBJD19.1216	1".1/16	1"
KBJD19.1612	1".5/16	3/4"
KBJD19.1616	1".5/16	1"
KBJD19.2020	1".5/8	1".1/4
KBJD19.2420	1".7/8	1".1/4
KBJD19.2424	1".7/8	1".1/2

**UNIÃO FÊMEA JIC -  
MACHO BSPT  
ADAPTOR FEMALE  
JIC - MALE BSPT**


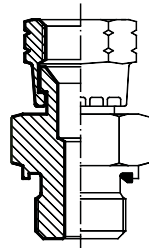
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD36.0402	7/16"	1/8"
KBJD36.0404	7/16"	1/4"
KBJD36.0502	1/2"	1/8"
KBJD36.0504	1/2"	1/4"
KBJD36.0602	9/16"	1/8"
KBJD36.0604	9/16"	1/4"
KBJD36.0606	9/16"	3/8"
KBJD36.0608	9/16"	1/2"
KBJD36.0804	3/4"	1/4"
KBJD36.0806	3/4"	3/8"
KBJD36.0808	3/4"	1/2"
KBJD36.0808	3/4"	3/4"
KBJD36.1006	7/8"	3/8"
KBJD36.1008	7/8"	1/2"
KBJD36.1012	7/8"	3/4"
KBJD36.1208	1".1/16	1/2"
KBJD36.1212	1".1/16	3/4"
KBJD36.1216	1".1/16	1"
KBJD36.1612	1".5/16	3/4"
KBJD36.1616	1".5/16	1"
KBJD36.2020	1".5/8	1".1/4
KBJD36.2420	1".7/8	1".1/4
KBJD36.2424	1".7/8	1".1/2

**UNIÃO FÊMEA JIC -  
MACHO NPT  
ADAPTOR FEMALE  
JIC - MALE NPT**


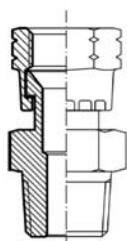
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD38.0402	7/16"	1/8"
KBJD38.0404	7/16"	1/4"
KBJD38.0502	1/2"	1/8"
KBJD38.0504	1/2"	1/4"
KBJD38.0602	9/16"	1/8"
KBJD38.0604	9/16"	1/4"
KBJD38.0606	9/16"	3/8"
KBJD38.0608	9/16"	1/2"
KBJD38.0804	3/4"	1/4"
KBJD38.0806	3/4"	3/8"
KBJD38.0808	3/4"	1/2"
KBJD38.0808	3/4"	3/4"
KBJD38.1006	7/8"	3/8"
KBJD38.1008	7/8"	1/2"
KBJD38.1012	7/8"	3/4"
KBJD38.1208	1".1/16	1/2"
KBJD38.1212	1".1/16	3/4"
KBJD38.1216	1".1/16	1"
KBJD38.1612	1".5/16	3/4"
KBJD38.1616	1".5/16	1"
KBJD38.2020	1".5/8	1".1/4
KBJD38.2420	1".7/8	1".1/4
KBJD38.2424	1".7/8	1".1/2

**UNIÃO FÊMEA JIC -  
MACHO BSPP  
ADAPTOR FEMALE  
JIC - MALE BSPP**


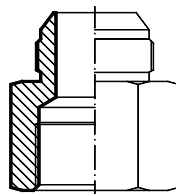
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
.0402	7/16"	7/16"
KBJD16.0404	7/16"	7/16"
KBJD16.0406	7/16"	7/16"
KBJD16.0502	1/2"	1/2"
KBJD16.0504	1/2"	1/2"
KBJD16.0506	1/2"	1/2"
KBJD16.0604	9/16"	9/16"
KBJD16.0608	9/16"	9/16"
KBJD16.0606	9/16"	9/16"
KBJD16.0608	3/4"	3/4"
KBJD16.0804	3/4"	3/4"
KBJD16.0806	3/4"	3/4"
KBJD16.0808	7/8"	7/8"
KBJD16.1006	7/8"	7/8"
KBJD16.1008	7/8"	7/8"
KBJD16.1012	1".1/16	1".1/16
KBJD16.1208	1".1/16	1".1/16
KBJD16.1212	1".1/16	1".1/16
KBJD16.1216	1".5/16	1".5/16
KBJD16.1612	1".5/16	1".5/16
KBJD16.1620	1".5/8	1".5/8
KBJD16.2016	1".5/8	1".5/8
KBJD16.2020	1".7/8	1".7/8
KBJD16.2420	1".7/8	1".7/8
KBJD16.2424	1".7/8	1".1/2

**UNIÃO FÊMEA JIC -  
MACHO SAE  
ADAPTOR SWIVEL  
FEMALE JIC - MALE SAE**


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD14.0404	7/16"	7/16"
KBJD14.0405	7/16"	1/2"
KBJD14.0406	7/16"	9/16"
KBJD14.0505	1/2"	1/2"
KBJD14.0606	9/16"	9/16"
KBJD14.0608	9/16"	3/4"
KBJD14.0808	3/4"	3/4"
KBJD14.0810	3/4"	7/8"
KBJD14.0812	3/4"	1".1/16
KBJD14.1008	7/8"	3/4"
KBJD14.1010	7/8"	7/8"
KBJD14.1012	7/8"	1".1/16
KBJD14.1208	1".1/16	3/4"
KBJD14.1210	1".1/16	7/8"
KBJD14.1212	1".1/16	1".1/16
KBJD14.1216	1".1/16	1".5/16
KBJD14.1612	1".5/16	1".1/16
KBJD14.1616	1".5/16	1".5/16
KBJD14.1620	1".5/16	1".5/8
KBJD14.2020	1".5/8	1".5/8
KBJD14.2424	1".7/8	1".7/8

**UNIÃO FÊMEA JIC -  
MACHO MÉTRICO  
ADAPTOR SWIVEL  
FEMALE JIC -  
METRIC MALE**


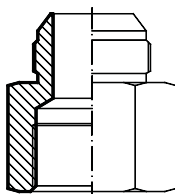
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD40.0410	7/16"	10X1
KBJD40.0412	7/16"	12X1,5
KBJD40.0510	1/2"	10X1
KBJD40.0512	1/2"	12X1,5
KBJD40.0514	1/2"	14X1,5
KBJD40.0614	9/16"	14X1,5
KBJD40.0616	9/16"	16X1,5
KBJD40.0816	3/4"	16X1,5
KBJD40.0818	3/4"	18X1,5
KBJD40.1018	7/8"	18X1,5
KBJD40.1020	7/8"	20X1,5
KBJD40.1022	7/8"	22X1,5
KBJD40.1222	1".1/16	22X1,5
KBJD40.1227	1".1/16	27X2
KBJD40.1627	1".5/16	27X2
KBJD40.1633	1".5/16	33X2
KBJD40.2042	1".5/8	42X2
KBJD40.2448	1".7/8	48X2

**UNIÃO FIXA  
MACHO JIC -  
FÊMEA BSPP  
ADAPTOR SWIVEL  
FEMALE JIC - FIXED  
FEMALE BSPP**


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD20.0402	7/16"	1/8"
KBJD20.0404	7/16"	1/4"
KBJD20.0502	1/2"	1/8"
KBJD20.0504	1/2"	1/4"
KBJD20.0604	9/16"	1/4"
KBJD20.0606	9/16"	3/8"
KBJD20.0804	3/4"	1/4"
KBJD20.0806	3/4"	3/8"
KBJD20.0808	3/4"	1/2"
KBJD20.1008	7/8"	1/2"
KBJD20.1208	1.1/16"	1/2"
KBJD20.1212	1.1/16"	3/4"
KBJD20.1616	1.5/16"	1"
KBJD20.2016	1".5/8"	1"
KBJD20.2020	1.5/8"	1.1/4"
KBJD20.2024	1.7/8"	1.1/4"
KBJD20.2424	1.7/8"	1.1/2"

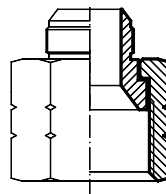
JIC

**UNIÃO FIXA  
MACHO JIC -  
FÊMEA NTP**  
ADAPTOR MALE  
JIC - FIXED FEMALE  
NPT



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD42.0402	7/16"	1/8"
KBJD42.0404	7/16"	1/4"
KBJD42.0502	1/2"	1/8"
KBJD42.0504	1/2"	1/4"
KBJD42.0604	9/16"	1/4"
KBJD42.0606	9/16"	3/8"
KBJD42.0804	3/4"	1/4"
KBJD42.0806	3/4"	3/8"
KBJD42.0808	3/4"	1/2"
KBJD42.1008	7/8"	1/2"
KBJD42.1208	1.1/16"	1/2"
KBJD42.1212	1.1/16"	3/4"
KBJD42.1616	1.5/16"	1"
KBJD42.2016	1".5/8"	1"
KBJD42.2020	1.5/8"	1.1/4"
KBJD42.2024	1.7/8"	1.1/4"
KBJD42.2424	1.7/8"	1.1/2"

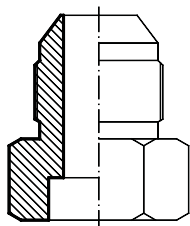
**UNIÃO MACHO JIC -  
FÊMEA JIC  
(GIRATÓRIA E FIXA)**  
ADAPTOR SWIVEL  
AND FIXED FEMALE  
JIC- MALE JIC



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBJD15.0604S	9/16"	7/16"
KBJD15.0405F	9/16"	1/2"
KBJD15.0804S	3/4"	7/16"
KBJD15.0805S	3/4"	1/2"
KBJD15.0806S	3/4"	9/16"
KBJD15.1004S	7/8"	7/16"
KBJD15.1006S	7/8"	9/16"
KBJD15.1008F	7/8"	3/4"
KBJD15.1204S	1".1/16"	7/16"
KBJD15.1206S	1".1/16"	9/16"
KBJD15.1212S	1".1/16"	3/4"
KBJD15.1210F	1".1/16"	7/8"
KBJD15.1612S	1".5/16"	1".1/16"
KBJD15.2012S	1".5/8"	1".1/16"
KBJD15.2016S	1".5/8"	1".5/16"
KBJD15.2420S	1".7/8"	1".5/16"

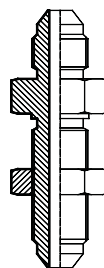
**F- PORCA FIXA**  
F- FIXED NUT  
**S- PORCA GIRATÓRIA**  
S- SWIVEL NUT

**UNIÃO MACHO JIC -  
P/ SOLDAR**  
WELDING ADAPTOR  
MALE JIC



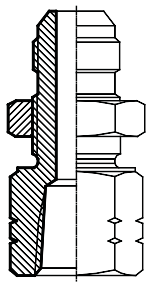
CÓDIGO CODE	ROSCA THREAD	DIAM Ø
KBJD24.0406	7/16"	6
KBJD24.0508	1/2"	8
KBJD24.0610	9/16"	10
KBJD24.0812	3/4"	12
KBJD24.1016	7/8"	16
KBJD24.1220	1".1/16"	20
KBJD24.1625	1".5/16"	25
KBJD24.2032	1".5/8"	32
KBJD24.2438	1".7/8"	38

**UNIÃO  
PASSA-PAREDES JIC**  
STRAIGHT  
BULKHEAD  
ADAPTOR  
MALE JIC - MALE JIC



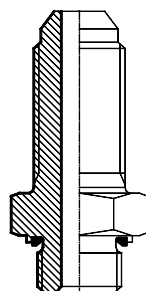
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJD32.04	7/16"	7/16"
KBJD32.05	1/2"	1/2"
KBJD32.06	9/16"	9/16"
KBJD32.08	3/4"	3/4"
KBJD32.10	7/8"	7/8"
KBJD32.12	1".1/16"	1".1/16"
KBJD32.16	1".5/16"	1".5/16"
KBJD32.20	1".5/8"	1".5/8"
KBJD32.24	1".7/8"	1".7/8"

**UNIÃO  
PASSA-PAREDES  
JIC - FÊMEA FIXA NPT  
STRAIGHT BULKHEAD  
ADAPTOR MALE JIC  
FIXED FEMALE NPT**



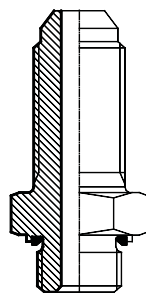
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJD46.0402	7/16"	1/8"
KBJD46.0404	7/16"	1/4"
KBJD46.0502	1/2"	1/8"
KBJD46.0504	1/2"	1/4"
KBJD46.0602	9/16"	1/8"
KBJD46.0604	9/16"	1/4"
KBJD46.0606	9/16"	3/8"
KBJD46.0804	3/4"	1/4"
KBJD46.0806	3/4"	3/8"
KBJD46.0808	3/4"	1/2"
KBJD46.1008	7/8"	1/2"
KBJD46.1208	1".1/16	1/2"
KBJD46.1212	1".1/16	3/4"
KBJD46.1616	1".5/16	1"
KBJD46.2020	1".5/8	1".1/4
KBJD46.2424	1".7/8	1".1/2

**UNIÃO  
PASSA-PAREDES  
JIC - MACHO BSPP  
LONG CONNECTOR  
MALE JIC - MALE BSPP  
FORM E**



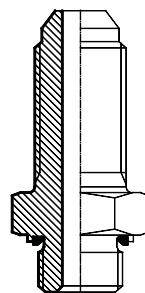
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJD48.0402	7/16"	1/8"
KBJD48.0404	7/16"	1/4"
KBJD48.0502	1/2"	1/8"
KBJD48.0504	1/2"	1/4"
KBJD48.0506	1/2"	3/8"
KBJD48.0604	9/16"	1/4"
KBJD48.0606	9/16"	3/8"
KBJD48.0608	9/16"	1/2"
KBJD48.0804	3/4"	1/4"
KBJD48.0806	3/4"	3/8"
KBJD48.0808	3/4"	1/2"
KBJD48.1006	7/8"	3/8"
KBJD48.1008	7/8"	1/2"
KBJD48.1012	7/8"	3/4"
KBJD48.1208	1".1/16	1/2"
KBJD48.1212	1".1/16	3/4"
KBJD48.1216	1".1/16	1"
KBJD48.1612	1".5/16	3/4"
KBJD48.1616	1".5/16	1"
KBJD48.1620	1".5/16	1".1/4
KBJD48.2016	1".5/8	1"
KBJD48.2020	1".5/8	1".1/4
KBJD48.2420	1".7/8	1".1/4
KBJD48.2424	1".7/8	1".1/2

**UNIÃO  
PASSA-PAREDES  
JIC - MACHO BSP  
CONE 60°  
ADAPTOR  
MALE JIC - MALE BSPP  
WITH 60° CONE**



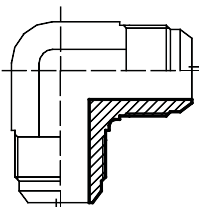
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJD50.0402	7/16"	1/8"
KBJD50.0404	7/16"	1/4"
KBJD50.0502	1/2"	1/8"
KBJD50.0504	1/2"	1/4"
KBJD50.0506	1/2"	3/8"
KBJD50.0604	9/16"	1/4"
KBJD50.0606	9/16"	3/8"
KBJD50.0608	9/16"	1/2"
KBJD50.0804	3/4"	1/4"
KBJD50.0806	3/4"	3/8"
KBJD50.0808	3/4"	1/2"
KBJD50.1006	7/8"	3/8"
KBJD50.1008	7/8"	1/2"
KBJD50.1012	7/8"	3/4"
KBJD50.1208	1".1/16	1/2"
KBJD50.1212	1".1/16	3/4"
KBJD50.1216	1".1/16	1"
KBJD50.1612	1".5/16	3/4"
KBJD50.1616	1".5/16	1"
KBJD50.1620	1".5/16	1".1/4
KBJD50.2016	1".5/8	1"
KBJD50.2020	1".5/8	1".1/4
KBJD50.2420	1".7/8	1".1/4
KBJD50.2424	1".7/8	1".1/2

**UNIÃO  
PASSA-PAREDES  
JIC - MACHO MÉTRICO  
LONG CONNECTOR  
MALE JIC - METRIC  
MALE FORM E**

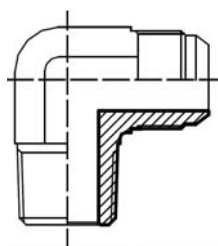


CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJD52.0410	7/16"	10X1
KBJD52.0510	1/2"	10X1
KBJD52.0512	1/2"	12X1.5
KBJD52.0514	1/2"	14X1.5
KBJD52.0614	9/16"	14X1.5
KBJD52.0616	9/16"	16X1.5
KBJD52.0816	3/4"	16X1.5
KBJD52.0818	3/4"	18X1.5
KBJD52.1018	7/8"	18X1.5
KBJD52.1022	7/8"	22X1.5
KBJD52.1222	1".1/16	22X1.5
KBJD52.1227	1".1/16	27X2
KBJD52.1627	1".5/16	27X2
KBJD52.1633	1".5/16	33X2
KBJD52.2042	1".5/8	42X2
KBJD52.2448	1".7/8	48X2

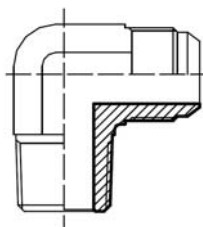
JIC

**JOELHO MACHO JIC**  
90° ADAPTOR MALE  
JIC

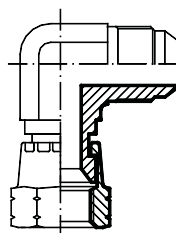
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN10.04	7/16"	7/16"
KBJN10.05	1/2"	1/2"
KBJN10.06	9/16"	9/16"
KBJN10.08	3/4"	3/4"
KBJN10.10	7/8"	7/8"
KBJN10.12	1".1/16	1".1/16
KBJN10.16	1".5/16	1".5/16
KBJN10.20	1".5/8	1".5/8
KBJN10.24	1".7/8	1".7/8

**JOELHO MACHO JIC -  
MACHO BSPT**  
90° ADAPTOR MALE  
JIC - MALE BSPT

CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN20.0402	7/16"	1/8"
KBJN20.0404	7/16"	1/4"
KBJN20.0502	1/2"	1/8"
KBJN20.0504	1/2"	1/4"
KBJN20.0602	9/16"	1/8"
KBJN20.0604	9/16"	1/4"
KBJN20.0606	9/16"	3/8"
KBJN20.0608	9/16"	1/2"
KBJN20.0804	3/4"	1/4"
KBJN20.0806	3/4"	3/8"
KBJN20.0808	3/4"	1/2"
KBJN20.0812	3/4"	3/4"
KBJN20.1006	7/8"	3/8"
KBJN20.1008	7/8"	1/2"
KBJN20.1012	7/8"	3/4"
KBJN20.1208	1".1/16	1/2"
KBJN20.1212	1".1/16	3/4"
KBJN20.1216	1".1/16	1"
KBJN20.1612	1".5/16	3/4"
KBJN20.1616	1".5/16	1"
KBJN20.2016	1".5/8	1"
KBJN20.2020	1".5/8	1".1/4

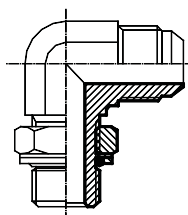
**JOELHO MACHO JIC -  
MACHO NPT**  
90° ADAPTOR MALE  
JIC - MALE NPT

CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN22.0402	7/16"	1/8"
KBJN22.0404	7/16"	1/4"
KBJN22.0502	1/2"	1/8"
KBJN22.0504	1/2"	1/4"
KBJN22.0602	9/16"	1/8"
KBJN22.0604	9/16"	1/4"
KBJN22.0606	9/16"	3/8"
KBJN22.0608	9/16"	1/2"
KBJN22.0804	3/4"	1/4"
KBJN22.0806	3/4"	3/8"
KBJN22.0808	3/4"	1/2"
KBJN22.0812	3/4"	3/4"
KBJN22.1006	7/8"	3/8"
KBJN22.1008	7/8"	1/2"
KBJN22.1012	7/8"	3/4"
KBJN22.1208	1".1/16	1/2"
KBJN22.1212	1".1/16	3/4"
KBJN22.1216	1".1/16	1"
KBJN22.1612	1".5/16	3/4"
KBJN22.1616	1".5/16	1"
KBJN22.2016	1".5/8	1"
KBJN22.2020	1".5/8	1".1/4

**JOELHO MACHO  
FÊMEA JIC**  
90° ADAPTOR MALE  
JIC - SWIVEL FEMALE  
JIC

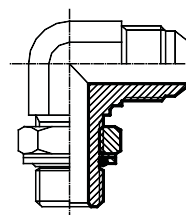
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN12.04	7/16"	7/16"
KBJN12.05	1/2"	1/2"
KBJN12.06	9/16"	9/16"
KBJN12.08	3/4"	3/4"
KBJN12.10	7/8"	7/8"
KBJN12.12	1".1/16	1".1/16
KBJN12.16	1".5/16	1".5/16
KBJN12.20	1".5/8	1".5/8

**JOELHO MACHO JIC - MACHO BSPP ORIENTÁVEL**  
90° ADJUSTABLE ADAPTOR MALE JIC - MALE BSPP WITH O-RING AND RETAINING SEAL



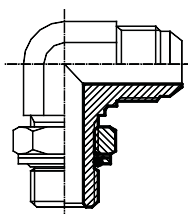
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN18.0204	7/16"	1/8"
KBJN18.0404	7/16"	1/4"
KBJN18.0604	7/16"	3/8"
KBJN18.0205	1/2"	1/8"
KBJN18.0405	1/2"	1/4"
KBJN18.0605	1/2"	3/8"
KBJN18.0206	9/16"	1/8"
KBJN18.0406	9/16"	1/4"
KBJN18.0606	9/16"	3/8"
KBJN18.0806	9/16"	1/2"
KBJN18.0408	3/4"	1/4"
KBJN18.0608	3/4"	3/8"
KBJN18.0808	3/4"	1/2"
KBJN18.0208	3/4"	3/4"
KBJN18.0610	7/8"	3/8"
KBJN18.0810	7/8"	1/2"
KBJN18.1210	7/8"	3/4"
KBJN18.0812	1".1/16	1/2"
KBJN18.1212	1".1/16	3/4"
KBJN18.1612	1".1/16	1"
KBJN18.1216	1".5/16	3/4"
KBJN18.1616	1".5/16	1"
KBJN18.2016	1".5/16	1.1/4"
KBJN18.1620	1".5/8	1"
KBJN18.2020	1".5/8	1.1/4"

**JOELHO MACHO JIC - MACHO UNF ORIENTÁVEL**  
90° ADJUSTABLE ADAPTOR MALE JIC - MALE UNF



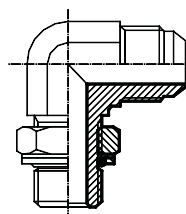
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN16.0404	7/16"	7/16"
KBJN16.0505	1/2"	1/2"
KBJN16.0606	9/16"	9/16"
KBJN16.0808	3/4"	3/4"
KBJN16.1010	7/8"	7/8"
KBJN16.1212	1".1/16	1".1/16
KBJN16.1616	1".5/16	1".5/16
KBJN16.2020	1".5/8	1".5/8

**JOELHO MACHO JIC - MACHO UNF ORIENTÁVEL**  
90° ADJUSTABLE ADAPTOR MALE JIC - UNF MALE WITH O-RING



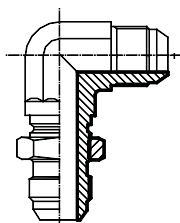
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN17.0405	7/16"	1/2"
KBJN17.0406	7/16"	9/16"
KBJN17.0608	9/16"	3/4"
KBJN17.0810	3/4"	7/8"
KBJN17.0812	3/4"	1.1/16
KBJN17.1008	7/8"	3/4"
KBJN17.1012	7/8"	1".1/16
KBJN17.1208	1".1/16	3/4"
KBJN17.1210	1".1/16	7/8"
KBJN17.1216	1".1/16	1".5/16
KBJN17.1612	1".5/16	1".1/16
KBJN17.1620	1".5/16	1".5/8

**JOELHO MACHO JIC - MACHO MÉTRICO ORIENTÁVEL**  
90° ADJUSTABLE ADAPTOR MALE JIC - MALE METRIC

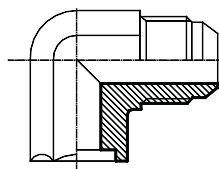


CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN20.0410	7/16"	10X1
KBJN20.0412	7/16"	12X1,5
KBJN20.0510	1/2"	10X1
KBJN20.0512	1/2"	12X1,5
KBJN20.0514	1/2"	14X1,5
KBJN20.0614	9/16"	14X1,5
KBJN20.0616	9/16"	16X1,5
KBJN20.0816	3/4"	16X1,5
KBJN20.0818	3/4"	18X1,5
KBJN20.1018	7/8"	18X1,5
KBJN20.1022	7/8"	22X1,5
KBJN20.1222	1".1/16	22X1,5
KBJN20.1227	1".1/16	27X2
KBJN20.1627	1".5/16	27X2
KBJN20.1633	1".5/16	33X2
KBJN20.1612	1".5/8	42X2

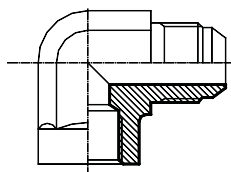
JIC

**JOELHO JIC  
PASSA-PAREDES  
90° BULKHEAD JIC**


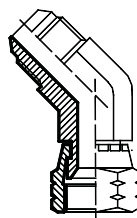
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN22.0204	7/16"	7/16"
KBJN22.0404	1/2"	1/2"
KBJN22.0604	9/16"	9/16"
KBJN22.0205	3/4"	3/4"
KBJN22.0405	7/8"	7/8"
KBJN22.0605	1".1/16	1".1/16
KBJN22.0206	1".5/16	1".5/16
KBJN22.0406	1".5/8	1".5/8

**JOELHO  
MACHO JIC FÊMEA  
FIXA BSPP  
90° ADAPTOR  
MALE JIC - FIXED  
FEMALE BSPP**


CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN24.0402	7/16"	1/8"
KBJN24.0404	7/16"	1/4"
KBJN24.0502	1/2"	1/8"
KBJN24.0504	1/2"	1/4"
KBJN24.0602	9/16"	1/8"
KBJN24.0604	9/16"	1/4"
KBJN24.0606	9/16"	3/8"
KBJN24.0804	3/4"	1/4"
KBJN24.0806	3/4"	3/8"
KBJN24.1008	7/8"	1/2"
KBJN24.1208	1".1/16	1/2"
KBJN24.1212	1".1/16	3/4"
KBJN24.1616	1".5/16	1"
KBJN24.2016	1".5/8	1"

**JOELHO  
MACHO JIC - FÊMEA  
FIXA NPT  
90° ADAPTOR MALE  
JIC - FIXED FEMALE  
NPT**


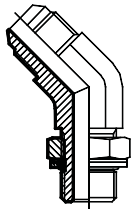
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJN26.0402	7/16"	1/8"
KBJN26.0404	7/16"	1/4"
KBJN26.0502	1/2"	1/8"
KBJN26.0504	1/2"	1/4"
KBJN26.0602	9/16"	1/8"
KBJN26.0604	9/16"	1/4"
KBJN26.0606	9/16"	3/8"
KBJN26.0804	3/4"	1/4"
KBJN26.0806	3/4"	3/8"
KBJN24.1008	7/8"	1/2"
KBJN26.1208	1".1/16	1/2"
KBJN24.1212	1".1/16	3/4"
KBJN26.1616	1".5/16	1"
KBJN26.2016	1".5/8	1"

**JOELHO 45° MACHO  
JIC - FÊMEA JIC  
45° ADAPTOR MALE  
JIC - SWIVEL FEMALE  
JIC**


CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ12.04	7/16"	7/16"
KBJQ12.05	1/2"	1/2"
KBJQ12.06	9/16"	9/16"
KBJQ12.08	3/4"	3/4"
KBJQ12.10	7/8"	7/8"
KBJQ12.12	1".1/16	1".1/16
KBJQ12.16	1".5/16	1".5/16
KBJQ12.20	1".5/8	1".5/8
KBJQ12.24	1".7/8	1".7/8

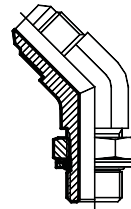


**JOELHO 45° MACHO  
JIC - MACHO BSPP  
ORIENTÁVEL**  
45° ADJUSTABLE  
ADAPTOR MALE  
JIC - MALE BSPP WITH  
O-RING AND  
RETAINING SEAL



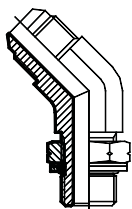
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ10.0204	7/16"	1/8"
KBJQ10.0404	7/16"	1/4"
KBJQ10.0604	7/16"	3/8"
KBJQ10.0804	7/16"	1/2"
KBJQ10.0205	1/2"	1/8"
KBJQ10.0405	1/2"	1/4"
KBJQ10.0605	1/2"	3/8"
KBJQ10.0406	9/16"	1/4"
KBJQ10.0606	9/16"	3/8"
KBJQ10.0806	9/16"	1/2"
KBJQ10.0408	3/4"	1/4"
KBJQ10.0608	3/4"	3/8"
KBJQ10.0808	3/4"	1/2"
KBJQ10.1208	3/4"	3/4"
KBJQ10.0610	7/8"	3/8"
KBJQ10.0810	7/8"	1/2"
KBJQ10.1210	7/8"	3/4"
KBJQ10.0812	1".1/16	1/2"
KBJQ10.1212	1".1/16	3/4"
KBJQ10.1612	1".1/16	1"
KBJQ10.1216	1".5/16	3/4"
KBJQ10.1616	1".5/16	1"
KBJQ10.2016	1".5/16	1".1/4
KBJQ10.1620	1".5/8	1"
KBJQ10.2020	1".5/8	1".1/4

**JOELHO 45° MACHO  
JIC - MACHO UNF  
ORIENTÁVEL**  
45° ADJUSTABLE  
ADAPTOR  
MALE JIC - MALE UNF  
WITH O-RING AND  
RETAINING SEAL



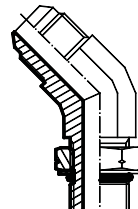
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ11.0404	7/16"	7/16"
KBJQ11.0505	1/2"	1/2"
KBJQ11.0606	9/16"	9/16"
KBJQ11.0808	3/4"	3/4"
KBJQ11.1010	7/8"	7/8"
KBJQ11.1212	1".1/16	1".1/16
KBJQ11.1616	1".5/16	1".5/16
KBJQ11.2020	1".5/8	1".5/8

**JOELHO 45°  
MACHO JIC - MACHO  
MÉTRICO  
ORIENTÁVEL**  
45° ADJUSTABLE  
ADAPTOR  
MALE JIC - METRIC  
MALE WITH O-RING



CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ18.0410	7/16"	10X1
KBJQ18.0412	7/16"	12X1,5
KBJQ18.0510	1/2"	10X1
KBJQ18.0512	1/2"	12X1,5
KBJQ18.0514	1/2"	14X1,5
KBJQ18.0614	9/16"	14X1,5
KBJQ18.0616	9/16"	16X1,5
KBJQ18.0816	3/4"	16X1,5
KBJQ18.0818	3/4"	18X1,5
KBJQ18.1018	7/8"	18X1,5
KBJQ18.1022	7/8"	22X1,5
KBJQ18.1222	1".1/16	22X1,5
KBJQ18.1227	1".1/16	27X2
KBJQ18.1627	1".5/16	27X2
KBJQ18.1633	1".5/16	33X2
KBJQ18.2042	1".5/8	42X2

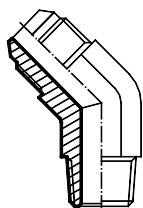
**JOELHO 45° MACHO  
JIC - MACHO UNF  
ORIENTÁVEL**  
45° ADJUSTABLE  
ADAPTOR MALE  
JIC - MALE UNF /  
O-RING AND  
RETAINING SEAL



CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ16.0405	7/16"	1/2"
KBJQ16.0406	7/16"	9/16"
KBJQ16.0608	9/16"	3/4"
KBJQ16.0810	3/4"	7/8"
KBJQ16.0812	3/4"	1".1/16
KBJQ16.1008	7/8"	3/4"
KBJQ16.1012	7/8"	1".1/16
KBJQ16.1208	1".1/16	3/4"
KBJQ16.1210	1".1/16	7/8"
KBJQ16.1216	1".1/16	1".5/16
KBJQ16.1612	1".5/16	1".1/16
KBJQ16.1620	1".5/16	1".5/8

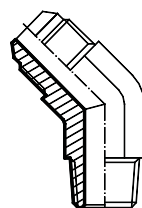
JIC

**JOELHO 45° MACHO**  
**JIC - MACHO BSPT**  
 45° ADJUSTABLE  
 ADAPTOR  
 MALE JIC - MALE BSPT



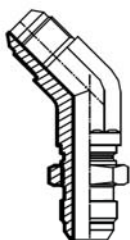
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ14.0402	7/16"	1/8"
KBJQ14.0404	7/16"	1/4"
KBJQ14.0406	7/16"	3/8"
KBJQ14.0408	7/16"	1/2"
KBJQ14.0502	1/2"	1/8"
KBJQ14.0504	1/2"	1/4"
KBJQ14.0506	1/2"	3/8"
KBJQ14.0604	9/16"	1/4"
KBJQ14.0606	9/16"	3/8"
KBJQ14.0608	9/16"	1/2"
KBJQ14.0804	3/4"	1/4"
KBJQ14.0806	3/4"	3/8"
KBJQ14.0808	3/4"	1/2"
KBJQ14.0812	3/4"	3/4"
KBJQ14.1006	7/8"	3/8"
KBJQ14.1008	7/8"	1/2"
KBJQ14.1012	7/8"	3/4"
KBJQ14.1208	1".1/16	1/2"
KBJQ14.1212	1".1/16	3/4"
KBJQ14.1216	1".1/16	1"
KBJQ14.1612	1".5/16	3/4"
KBJQ14.1616	1".5/16	1"
KBJQ14.2016	1".5/8	1"
KBJQ14.2020	1".5/8	1".1/4

**JOELHO 45° MACHO**  
**JIC - MACHO NPT**  
 45° ADJUSTABLE  
 ADAPTOR  
 MALE JIC - MALE NPT



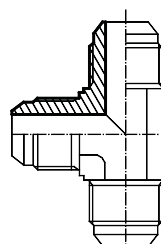
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ15.0402	7/16"	1/8"
KBJQ15.0404	7/16"	1/4"
KBJQ15.0406	7/16"	3/8"
KBJQ15.0408	7/16"	1/2"
KBJQ15.0502	1/2"	1/8"
KBJQ15.0504	1/2"	1/4"
KBJQ15.0506	1/2"	3/8"
KBJQ15.0604	9/16"	1/4"
KBJQ15.0606	9/16"	3/8"
KBJQ15.0608	9/16"	1/2"
KBJQ15.0804	3/4"	1/4"
KBJQ15.0806	3/4"	3/8"
KBJQ15.0808	3/4"	1/2"
KBJQ15.0812	3/4"	3/4"
KBJQ15.1006	7/8"	3/8"
KBJQ15.1008	7/8"	1/2"
KBJQ15.1012	7/8"	3/4"
KBJQ15.1208	1".1/16	1/2"
KBJQ15.1212	1".1/16	3/4"
KBJQ15.1216	1".1/16	1"
KBJQ15.1612	1".5/16	3/4"
KBJQ15.1616	1".5/16	1"
KBJQ15.2016	1".5/8	1"
KBJQ15.2020	1".5/8	1".1/4

**JOELHO 45°**  
**PASSA-PAREDES**  
 45° BULKHEAD  
 ADAPTOR  
 MALE JIC - MALE JIC



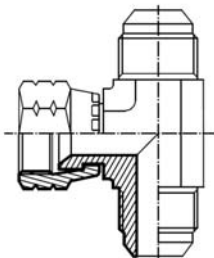
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJQ20.04	7/16"	7/16"
KBJQ20.05	1/2"	1/2"
KBJQ20.06	9/16"	9/16"
KBJQ20.08	3/4"	3/4"
KBJQ20.10	7/8"	7/8"
KBJQ20.12	1".1/16	1".1/16
KBJQ20.16	1".5/16	1".5/16
KBJQ20.20	1".5/8	1".5/8

**T MACHO JIC**  
 "T" MALE ADAPTOR  
 JIC



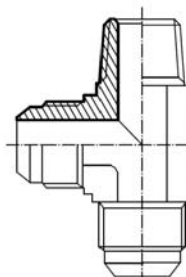
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBGT10.04	7/16"	14
KBGT10.05	1/2"	14
KBGT10.06	9/16"	14
KBGT10.08	3/4"	19
KBGT10.10	7/8"	22
KBGT10.12	1".1/16	27
KBGT10.16	1".5/16	33
KBGT10.20	1".5/8	41

**T JIC MxFxM  
GIRATÓRIA CENTRAL  
BRANCH "T"  
MALE JIC - SWIVEL  
FEMALE JIC**



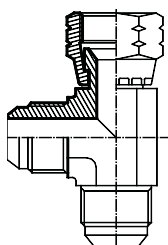
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT12.0402	7/16"	1/8"
KBJT12.0404	7/16"	1/4"
KBJT12.0502	1/2"	1/8"
KBJT12.0504	1/2"	1/4"
KBJT12.0604	9/16"	1/4"
KBJT12.0606	9/16"	3/8"
KBJT12.0806	3/4"	3/8"
KBJT12.0808	3/4"	1/2"
KBJT12.1006	7/8"	3/8"
KBJT12.1008	7/8"	1/2"
KBJT12.1012	7/8"	3/4"
KBJT12.1208	1"1/16	1/2"
KBJT12.1212	1"1/16	3/4"
KBJT12.1612	1"5/16	3/4"
KBJT12.1616	1"5/16	1"
KBJT12.2016	1"5/8	1"
KBJT12.2020	1"5/8	1"1/4"

**T MACHO JIC -  
MACHO BSPT  
LATERAL  
RUN "T"  
MALE JIC - MALE BSPT**



CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT17.0402	7/16"	1/8"
KBJT17.0404	7/16"	1/4"
KBJT17.0502	1/2"	1/8"
KBJT17.0504	1/2"	1/4"
KBJT17.0604	9/16"	1/4"
KBJT17.0606	9/16"	3/8"
KBJT17.0806	3/4"	3/8"
KBJT17.0808	3/4"	1/2"
KBJT17.1006	7/8"	3/8"
KBJT17.1008	7/8"	1/2"
KBJT17.1012	7/8"	3/4"
KBJT17.1208	1"1/16	1/2"
KBJT17.1212	1"1/16	3/4"
KBJT17.1612	1"5/16	3/4"
KBJT17.1616	1"5/16	1"
KBJT17.2016	1"5/8	1"
KBJT17.2020	1"5/8	1"1/4"

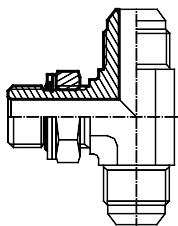
**T JIC FÊMEA  
GIRATÓRIA LATERAL  
BRANCH "T"  
MALE JIC - SWIVEL  
FEMALE JIC**



CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT18.04	7/16"	7/16"
KBJT18.05	1/2"	1/2"
KBJT18.06	9/16"	9/16"
KBJT18.08	3/4"	3/4"
KBJT18.10	7/8"	7/8"
KBJT18.12	1"1/16	1"1/16
KBJT18.16	1"5/16	1"5/16
KBJT18.20	1"5/8	1"5/8

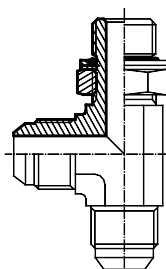
JIC

**T JIC - MACHO  
CENTRAL - BSPP  
ORIENTÁVEL**  
ADJUSTABLE BRANCH  
"T" MALE JIC -MALE  
BSPP



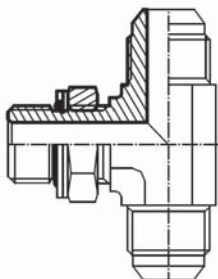
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT14.0402	7/16"	11/8"
KBJT14.0404	7/16"	1/4"
KBJT14.0406	7/16"	3/8"
KBJT14.0408	7/16"	1/2"
KBJT14.0502	1/2"	1/8"
KBJT14.0504	1/2"	1/4"
KBJT14.0506	1/2"	3/8"
KBJT14.0604	9/16"	1/4"
KBJT14.0606	9/16"	3/8"
KBJT14.0608	9/16"	1/2"
KBJT14.0804	3/4"	1/4"
KBJT14.0806	3/4"	3/8"
KBJT14.0808	3/4"	1/2"
KBJT14.0812	3/4"	3/4"
KBJT14.1016	7/8"	3/8"
KBJT14.1008	7/8"	1/2"
KBJT14.1212	7/8"	3/4"
KBJT14.1208	1".1/16	1/2"
KBJT14.1212	1".1/16	3/4"
KBJT14.1216	1".1/16	1"
KBJT14.1612	1".5/16	3/4"
KBJT14.1616	1".5/16	1"
KBJT14.1620	1".5/16	1".1/4
KBJT14.2016	1".5/8	1"
KBJT14.2020	1".5/8	1".1/4

**T JIC - MACHO  
LATERAL - BSP  
ORIENTÁVEL**  
RUN "T" MALE JIC -  
MALE BSPP / ORING  
AND RETAINING SEAL



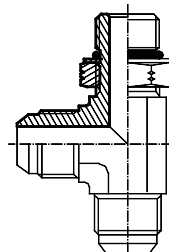
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT20.0402	7/16"	11/8"
KBJT20.0404	7/16"	1/4"
KBJT20.0406	7/16"	3/8"
KBJT20.0408	7/16"	1/2"
KBJT20.0502	1/2"	1/8"
KBJT20.0504	1/2"	1/4"
KBJT20.0506	1/2"	3/8"
KBJT20.0604	9/16"	1/4"
KBJT20.0606	9/16"	3/8"
KBJT20.0608	9/16"	1/2"
KBJT20.0804	3/4"	1/4"
KBJT20.0806	3/4"	3/8"
KBJT20.0808	3/4"	1/2"
KBJT20.0812	3/4"	3/4"
KBJT20.1016	7/8"	3/8"
KBJT20.1008	7/8"	1/2"
KBJT20.1212	7/8"	3/4"
KBJT20.1208	1".1/16	1/2"
KBJT20.1212	1".1/16	3/4"
KBJT20.1216	1".1/16	1"
KBJT20.1612	1".5/16	3/4"
KBJT20.1616	1".5/16	1"
KBJT20.1620	1".5/16	1".1/4
KBJT20.2016	1".5/8	1"
KBJT20.2020	1".5/8	1".1/4

**T JIC - MACHO  
CENTRAL - UNF  
ORIENTÁVEL**  
ADJUSTABLE BRANCH  
"T" MALE JIC -MALE  
UNF



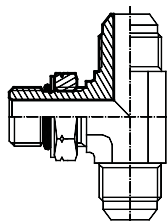
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT26.0404	7/16"	7/16"
KBJT26.0405	7/16"	1/2"
KBJT26.0406	7/16"	9/16"
KBJT26.0505	1/2"	1/2"
KBJT26.0606	9/16"	9/16"
KBJT26.0608	9/16"	3/4"
KBJT26.0808	3/4"	3/4"
KBJT26.0810	3/4"	7/8"
KBJT26.0812	3/4"	1".1/16
KBJT26.1008	7/8"	3/4"
KBJT26.1010	7/8"	7/8"
KBJT26.1012	7/8"	1".1/16
KBJT26.1208	1".1/16	3/4"
KBJT26.1210	1".1/16	7/8"
KBJT26.1212	1".1/16	1".1/16
KBJT26.1216	1".1/16	1".5/16
KBJT26.1612	1".5/16	1".1/16
KBJT26.1616	1".5/16	1".5/16
KBJT26.1620	1".5/16	1".5/8
KBJT26.2020	1".5/8	1".5/8

**T JIC - MACHO  
LATERAL - UNF  
ORIENTÁVEL**  
ADJUSTABLE RUN "T"  
MALE JIC -  
MALE UN F



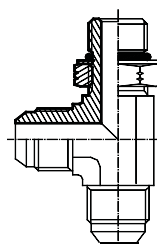
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT28.0404	7/16"	7/16"
KBJT28.0405	7/16"	1/2"
KBJT28.0406	7/16"	9/16"
KBJT28.0505	1/2"	1/2"
KBJT28.0606	9/16"	9/16"
KBJT28.0608	9/16"	3/4"
KBJT28.0808	3/4"	3/4"
KBJT28.0810	3/4"	7/8"
KBJT28.0812	3/4"	1".1/16
KBJT28.1008	7/8"	3/4"
KBJT28.1010	7/8"	7/8"
KBJT28.1012	7/8"	1".1/16
KBJT28.1208	1".1/16	3/4"
KBJT28.1210	1".1/16	7/8"
KBJT28.1212	1".1/16	1".1/16
KBJT28.1216	1".1/16	1".5/16
KBJT28.1612	1".5/16	1".1/16
KBJT28.1616	1".5/16	1".5/16
KBJT28.1620	1".5/16	1".5/8
KBJT28.2020	1".5/8	1".5/8

**T JIC - MACHO  
CENTRAL MÉTRICO  
ORIENTÁVEL**  
ADJUSTABLE BRANCH  
"T" MALE JIC -  
METRIC MALE WITH  
O-RING



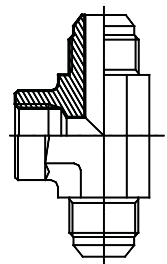
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT30.0410	7/16"	10X1
KBJT30.0412	7/16"	12X1,5
KBJT30.0510	1/2"	10X1
KBJT30.0512	1/2"	12X1,5
KBJT30.0514	1/2"	14X1,5
KBJT30.0614	9/16"	14X1,5
KBJT30.0616	9/16"	16X1,5
KBJT30.0816	3/4"	16X1,5
KBJT30.0818	3/4"	18X1,5
KBJT30.1018	7/8"	18X1,5
KBJT30.1020	7/8"	20X1,5
KBJT30.1022	7/8"	22X1,5
KBJT30.1222	1".1/16	22X1,5
KBJT30.1227	1".1/16	27X2
KBJT30.1627	1".5/16	27X2
KBJT30.1633	1".5/16	33X2
KBJT30.2042	1".5/8	42X2

**T JIC - MACHO  
LATERAL MÉTRICO  
ORIENTÁVEL**  
ADJUSTABLE RUN "T"  
MALE JIC - METRIC  
MALE / O-RING AND  
RETAINING SEAL



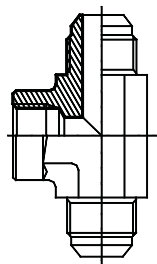
CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT32.0410	7/16"	10X1
KBJT32.0412	7/16"	12X1,5
KBJT32.0510	1/2"	10X1
KBJT32.0512	1/2"	12X1,5
KBJT32.0514	1/2"	14X1,5
KBJT32.0614	9/16"	14X1,5
KBJT32.0616	9/16"	16X1,5
KBJT32.0816	3/4"	16X1,5
KBJT32.0818	3/4"	18X1,5
KBJT32.1018	7/8"	18X1,5
KBJT32.1020	7/8"	20X1,5
KBJT32.1022	7/8"	22X1,5
KBJT32.1222	1".1/16	22X1,5
KBJT32.1227	1".1/16	27X2
KBJT32.1627	1".5/16	27X2
KBJT32.1633	1".5/16	33X2
KBJT32.2042	1".5/8	42X2

**T MxMxFÊMEA  
JIC CENTRAL FIXA**  
BRANCH "T" MALE  
JIC - FIXED FEMALE  
BSPP



CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT36.0402	7/16"	1/8"
KBJT36.0404	7/16"	1/4"
KBJT36.0406	7/16"	3/8"
KBJT36.0502	1/2"	1/8"
KBJT36.0504	1/2"	1/4"
KBJT36.0604	9/16"	1/4"
KBJT36.0606	9/16"	3/8"
KBJT36.0808	3/4"	1/4"
KBJT36.0806	3/4"	3/8"
KBJT36.0808	3/4"	1/2"
KBJT36.1008	7/8"	1/2"
KBJT36.1208	1".1/16	1/2"
KBJT36.1212	1".1/16	3/4"
KBJT36.1616	1".5/16	1"
KBJT36.2016	1".5/8	1"

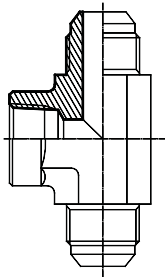
**T MxMxFÊMEA  
JIC CENTRAL FIXA**  
ADJUSTABLE BRANCH  
"T" MALE JIC -  
NPT MALE / O-RING  
AND RETAINING SEAL



CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT34.0402	7/16"	1/8"
KBJT34.0404	7/16"	1/4"
KBJT34.0406	7/16"	3/8"
KBJT34.0502	1/2"	1/8"
KBJT34.0504	1/2"	1/4"
KBJT34.0604	9/16"	1/4"
KBJT34.0606	9/16"	3/8"
KBJT34.0808	3/4"	1/4"
KBJT34.0806	3/4"	3/8"
KBJT34.0808	3/4"	1/2"
KBJT34.1008	7/8"	1/2"
KBJT34.1208	1".1/16	1/2"
KBJT34.1212	1".1/16	3/4"
KBJT34.1616	1".5/16	1"
KBJT34.2016	1".5/8	1"

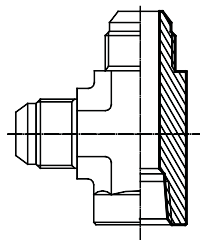
JIC

**T MxM JIC - FÊMEA  
NPT CENTRAL FIXA  
BRANCH "T" MALE  
JIC - FIXED FEMALE  
NPT**



CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT38.0402	7/16"	1/8"
KBJT38.0404	7/16"	1/4"
KBJT38.0406	7/16"	3/8"
KBJT38.0502	1/2"	1/8"
KBJT38.0504	1/2"	1/4"
KBJT38.0604	9/16"	1/4"
KBJT38.0606	9/16"	3/8"
KBJT38.0808	3/4"	1/4"
KBJT38.0806	3/4"	3/8"
KBJT38.0808	3/4"	1/2"
KBJT38.1008	7/8"	1/2"
KBJT38.1208	1".1/16	1/2"
KBJT38.1212	1".1/16	3/4"
KBJT38.1616	1".5/16	1"
KBJT38.2016	1".5/8	1"

**T MxM JIC - FÊMEA  
JIC LATERAL FIXA  
RUN "T" MALE JIC -  
FIXED FEMALE BSPP**

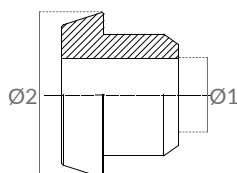


CÓDIGO CODE	TUBO HOSE	ROSCA THREAD
KBJT40.0402	7/16"	1/8"
KBJT40.0404	7/16"	1/4"
KBJT40.0406	7/16"	3/8"
KBJT40.0502	1/2"	1/8"
KBJT40.0504	1/2"	1/4"
KBJT40.0604	9/16"	1/4"
KBJT40.0606	9/16"	3/8"
KBJT40.0808	3/4"	1/4"
KBJT40.0806	3/4"	3/8"
KBJT40.0808	3/4"	1/2"
KBJT40.1008	7/8"	1/2"
KBJT40.1208	1".1/16	1/2"
KBJT40.1212	1".1/16	3/4"
KBJT40.1616	1".5/16	1"
KBJT40.2016	1".5/8	1"

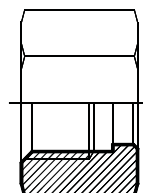
# ORFS • ORFS



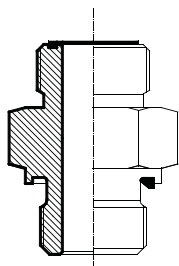
ORFS

ANEL  
BUSHCÓDIGO  
CODEDIAM1  
Ø1DIAM2  
Ø2PORCA ORFS  
ORFS NUTCÓDIGO  
CODEROSCA  
THREADROSCA  
THREAD

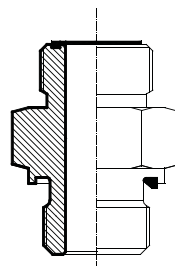
KBOD04.06	1/4	6
KBOD04.08	5/16	8
KBOD04.10	3/8	10
KBOD04.12	1/2	12
KBOD04.14	-	14
KBOD04.15	-	15
KBOD04.16	5/8	16
KBOD04.18	-	18
KBOD04.20	3/4	20
KBOD04.22	7/8	22
KBOD04.25	1	25
KBOD04.28	-	28
KBOD04.30	1.1/4	30
KBOD04.32	-	32
KBOD04.35	-	35
KBOD04.38	1.1/2	38



KBOD06.06	9/16"	17
KBOD06.08	11/16"	22
KBOD04.10	13/16"	24
KBOD04.12	1"	30
KBOD04.14	1.3/16"	36
KBOD04.15	1.7/16"	41
KBOD04.16	1.11/16"	50
KBOD04.18	2"	60

UNIÃO MACHO ORFS  
- MACHO BSPP  
ADAPTOR MALE ORFS  
- MALE BSPP FORM ECÓDIGO  
CODEROSCA  
THREADROSCA  
THREAD

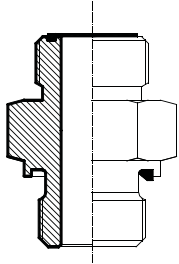
KBOD14.0402	9/16"	1/8"
KBOD14.0604	11/16"	1/4"
KBOD14.0806	13/16"	3/8"
KBOD14.1008	1"	1/2"
KBOD14.1212	1.3/16"	3/4"
KBOD14.1616	1.7/16"	1"
KBOD14.2020	1.11/16"	1.1/4"
KBOD14.2424	2"	1.1/2"
KBOD14.0404	9/16"	1/4"
KBOD14.0406	9/16"	3/8"
KBOD14.0408	9/16"	1/2"
KBOD14.0602	11/16"	1/8"
KBOD14.0606	11/16"	3/8"
KBOD14.0608	11/16"	1/2"
KBOD14.0612	11/16"	3/4"
KBOD14.0804	1.3/16"	1/4"
KBOD14.0808	1.3/16"	1/2"
KBOD14.0812	1.3/16"	3/4"
KBOD14.1004	1"	1/4"
KBOD14.1006	1"	3/8"
KBOD14.1012	1"	3/4"
KBOD14.1016	1"	1"
KBOD14.1204	1.3/16"	1/4"
KBOD14.1208	1.3/16"	1/2"
KBOD14.1216	1.3/16"	1"
KBOD14.1220	1.3/16"	1.1/4"
KBOD14.1604	1.7/16"	1/4"
KBOD14.1606	1.7/16"	3/4"
KBOD14.1620	1.7/16"	1.1/4"
KBOD14.1624	1.7/16"	1.1/2"
KBOD14.2016	1.11/16"	1"
KBOD14.2024	1.11/16"	1.1/2"

UNIÃO MACHO ORFS  
- MACHO MÉTRICO  
ADAPTOR MALE ORFS  
- MALE METRICCÓDIGO  
CODEROSCA  
THREADROSCA  
THREAD

KBOD16.0412	9/16"	12x1.5
KBOD16.0614	11/16"	14x1.5
KBOD16.0818	13/16"	18x1.5
KBOD16.1022	1"	22x1.5
KBOD16.1227	1.3/16"	27x1.5
KBOD16.1633	1.7/16"	33x1.5
KBOD16.2042	1.11/16"	42x1.5
KBOD16.2448	2"	48x1.5
KBOD16.0410	9/16"	10x1
KBOD16.0414	9/16"	14x1.5
KBOD16.0612	11/16"	12x1.5
KBOD16.0616	11/16"	16x1.5
KBOD16.0618	11/16"	18x1.5
KBOD16.0814	13/16"	14x1.5
KBOD16.0816	13/16"	16x1.5
KBOD16.0822	13/16"	22x1.5
KBOD16.1018	1"	18x1.5
KBOD16.1027	1"	27x2
KBOD16.1222	1.3/16"	22x1.5
KBOD16.1233	1.3/16"	33x2
KBOD16.1627	1.7/16"	27x2
KBOD16.1642	1.7/16"	42x2
KBOD16.2033	1.11/16"	33x2
KBOD16.2048	1.11/16"	48x2

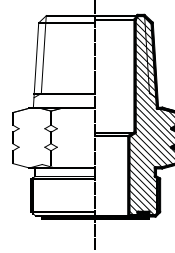


**UNIÃO MACHO ORFS  
- MACHO UNF  
ADAPTOR MALE ORFS  
- MALE UNF**



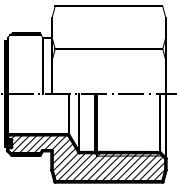
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
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KBOD18.0606	11/16"	9/16"
KBOD18.0808	13/16"	3/4"
KBOD18.1010	1"	7/8"
KBOD18.1212	1.3/16"	1".1/16
KBOD18.1616	1.7/16"	1".5/16
KBOD18.2020	1.11/16"	1".5/8
KBOD18.2424	2"	1".7/8
KBOD18.0405	9/16"	1/2"
KBOD18.0406	9/16"	9/16"
KBOD18.0408	9/16"	3/4"
KBOD18.0604	11/16"	7/16"
KBOD18.0605	11/16"	1/2"
KBOD18.0608	11/16"	3/4"
KBOD18.0610	11/16"	7/8"
KBOD18.0612	11/16"	1.1/16"
KBOD18.0806	3/16"	9/16"
KBOD18.0810	13/16"	7/8"
KBOD18.0812	13/16"	1.1/16
KBOD18.0816	13/16"	1.5/16"
KBOD18.1008	1"	3/4"
KBOD18.1012	1"	1.1/16"
KBOD18.1208	1.3/16"	3/4"
KBOD18.1210	1.3/16"	7/8"
KBOD18.1216	1.3/16"	1.5/16"
KBOD18.1612	1.7/16"	1.1/16"
KBOD18.1620	1.7/16"	1.5/8"
KBOD18.1216	1.11/16"	1.5/16"
KBOD18.2020	1.11/16"	1.7/8"
KBOD18.2420	2"	1.5/8"

**UNIÃO MACHO ORFS  
- MACHO NPTF  
ADAPTOR MALE ORFS  
- MALE NPTF**



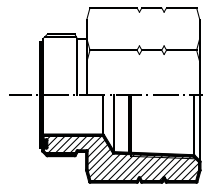
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD20.0402	9/16"	1/8"
KBOD20.0604	11/16"	1/4"
KBOD20.0806	13/16"	3/8"
KBOD20.1008	1"	1/2"
KBOD20.1212	1.3/16	3/4"
KBOD20.1616	1.7/16	1"
KBOD20.2020	1.1/16"	1.1/4"
KBOD20.2424	2"	1.1/2"
KBOD20.0404	9/16"	1/4"
KBOD20.0406	9/16"	3/8"
KBOD20.0606	11/16"	3/8"
KBOD20.0608	11/16"	1/2"
KBOD20.0804	13/16"	1/4"
KBOD20.0808	13/16"	1/2"
KBOD20.812	13/16"	3/4"
KBOD20.1006	1"	3/8"
KBOD20.1012	1"	3/4"
KBOD20.1208	1.3/16"	1/2"
KBOD20.1216	1.3/16"	1"
KBOD20.1612	1.7/16"	3/4"
KBOD20.2016	1.11/16"	1"
KBOD20.2424	2"	1.1/4"

**UNIÃO MACHO ORFS  
- FÊMEA BSPP FIXA  
ADAPTOR MALE ORFS  
- FIXED FEMALE BSPP**



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD22.0404	9/16"	1/4"
KBOD22.0604	11/16"	1/4"
KBOD22.0806	13/16"	3/8"
KBOD22.1008	1"	1/2"
KBOD22.1212	1.3/16"	3/4"
KBOD22.1616	1.7/16"	1"
KBOD22.2020	1.11/16"	1.1/4"
KBOD22.2424	2"	1.1/2"
KBOD22.0604	1.3/16"	1/4"
KBOD22.1208	1.3/16"	1/2"

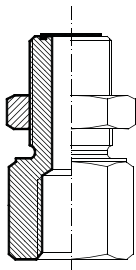
**UNIÃO FÊMEA ORFS -  
FÊMEA NPTF FIXA  
ADAPTOR MALE ORFS  
- FIXED FEMALE NPT**



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD24.0404	9/16"	1/4"
KBOD24.0604	11/16"	1/4"
KBOD24.0806	13/16"	3/8"
KBOD24.1008	1"	1/2"
KBOD24.1212	1.3/16"	3/4"
KBOD24.1616	1.7/16"	1"
KBOD24.2020	1.11/16"	1.1/4"
KBOD24.2424	2"	1.1/2"
KBOD24.0604	1.3/16"	1/4"
KBOD24.1208	1.3/16"	1/2"

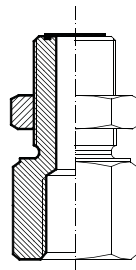
ORFS

**UNIÃO PASSA-  
-PAREDES MACHO  
ORFS - FÊMEA BSPP**  
STRAIGHT BULKHEAD  
ADAPTOR MALE ORFS  
- FEMALE BSPP



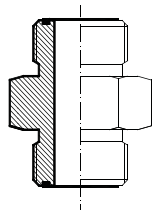
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD26.0404	9/16"	1/4"
KBOD26.0604	11/16"	1/4"
KBOD26.0806	13/16"	3/8"
KBOD26.1008	1"	1/2"
KBOD26.1212	1.3/16"	3/4"
KBOD26.1616	1.7/16"	1"
KBOD26.2020	1.11/16"	1.1/4"
KBOD26.2424	2"	1.1/2"

**UNIÃO PASSA-  
-PAREDES MACHO  
ORFS - FÊMEA NPTF**  
STRAIGHT BULKHEAD  
ADAPTOR MALE ORFS  
- FEMALE NPTF



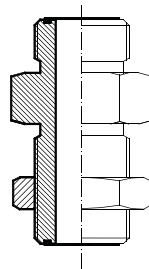
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD28.0404	9/16"	1/4"
KBOD28.0604	11/16"	1/4"
KBOD28.0806	13/16"	3/8"
KBOD28.1008	1"	1/2"
KBOD28.1212	1.3/16"	3/4"
KBOD28.1616	1.7/16"	1"
KBOD28.2020	1.11/16"	1.1/4"
KBOD28.2424	2"	1.1/2"

**UNIÃO MACHO -  
MACHO ORFS**  
ADAPTOR MALE ORFS  
- MALE ORFS



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD10.0404	9/16"	9/16"
KBOD10.0606	11/16"	11/16"
KBOD10.0808	13/16"	13/16"
KBOD10.1010	1"	1"
KBOD10.1212	1.3/16"	1.3/16"
KBOD10.1616	1.7/16"	1.7/16"
KBOD10.2020	1.11/16"	1.11/16"
KBOD10.2424	2"	2"
KBOD10.0604	11/16"	9/16"
KBOD10.0806	13/16"	11/16"
KBOD10.1008	1"	13/16"
KBOD10.1206	1.3/16"	11/16"
KBOD10.1208	1.3/16"	13/16"
KBOD10.1210	1.3/16"	1"
KBOD10.1612	1.7/16"	1.3/16"

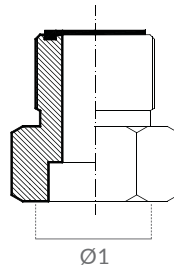
**UNIÃO PASSA-  
-PAREDES ORFS**  
STRAIGHT  
BULKHEAD ORFS



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD30.0404	9/16"	9/16"
KBOD30.0606	11/16"	11/16"
KBOD30.0808	13/16"	13/16"
KBOD30.1010	1"	1"
KBOD30.1212	1.3/16"	1.3/16"
KBOD30.1616	1.7/16"	1.7/16"
KBOD30.2020	1.11/16"	1.11/16"
KBOD30.2424	2"	2"

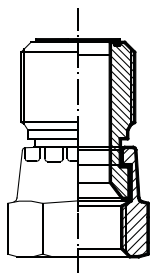
**UNIÃO ORFS**  
**MACHO FÊMEA**  
 ADAPTOR SWIVEL  
 FEMALE ORFS- MALE  
 ORFS

CÓDIGO CODE	ROSCA THREAD	DIAM1 Ø1
KBOD32.0406	9/16"	6
KBOD32.0610	11/16"	10
KBOD32.0812	13/16"	12
KBOD32.1016	1"	16
KBOD32.1220	1.3/16"	20
KBOD32.1625	1.7/16"	25
KBOD32.2030	1.1/16"	30
KBOD32.2438	2"	38
KBOD32.0408	9/16"	8
KBOD32.0410	9/16"	10
KBOD32.0412	9/16"	12
KBOD32.0608	11/16"	8
KBOD32.0612	11/16"	12
KBOD32.0614	11/16"	14
KBOD32.0612	11/16"	15
KBOD32.0616	11/16"	16
KBOD32.0806	13/16"	6
KBOD32.0808	13/16"	8
KBOD32.0810	13/16"	10
KBOD32.0814	13/16"	14
KBOD32.1015	13/16"	15
KBOD32.0816	13/16"	16
KBOD32.0818	13/16"	18
KBOD32.1820	13/16"	20
KBOD32.0822	13/16"	22
KBOD32.0825	13/16"	25
KBOD32.1010	1"	10
KBOD32.1012	1"	12
KBOD32.1014	1"	14
KBOD32.1015	1"	15
KBOD32.0402	1"	18

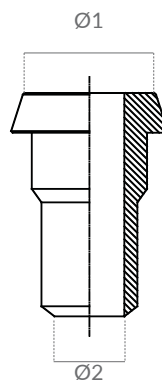


CÓDIGO CODE	ROSCA THREAD	DIAM1 Ø1
KBOD32.1018	1"	18
KBOD32.1020	1"	20
KBOD32.1212	1.3/16"	12
KBOD32.1214	1.3/16"	14
KBOD32.1215	1.3/16"	15
KBOD32.1216	1.3/16"	16
KBOD32.1218	1.3/16"	18
KBOD32.1222	1.3/16"	22
KBOD32.1225	1.3/16"	25
KBOD32.1612	1.7/16"	12
KBOD32.1614	1.7/16"	14
KBOD32.1615	1.7/16"	15
KBOD32.1616	1.7/16"	16
KBOD32.1618	1.7/16"	18
KBOD32.1620	1.7/16"	20
KBOD32.1622	1.7/16"	22
KBOD32.1628	1.7/16"	28
KBOD32.1630	1.7/16"	30
KBOD32.1632	1.7/16"	32
KBOD32.2018	1.11/16"	18
KBOD32.2020	1.11/16"	20
KBOD32.2022	1.11/16"	22
KBOD32.2025	1.11/16"	25
KBOD32.2028	1.11/16"	28
KBOD32.2032	1.11/16"	32
KBOD32.2035	1.11/16"	35
KBOD32.2038	1.11/16"	38
KBOD32.2425	2"	25
KBOD32.2428	2"	28
KBOD32.2430	2"	30
KBOD32.2432	2"	32
KBOD32.2435	2"	35

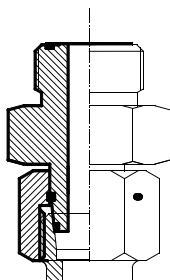
## ORFS

**UNIÃO ORFS  
MACHO FÊMEA**  
 ADAPTOR SWIVEL  
 FEMALE ORFS- MALE  
 ORFS


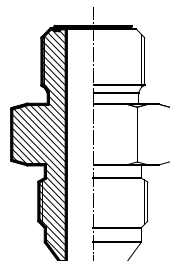
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD12.0402	11/16"	9/16"
KBOD12.0604	13/16"	9/16"
KBOD12.0806	1"	9/16"
KBOD12.1008	1.3/16"	9/16"
KBOD12.1212	1.7/16"	9/16"
KBOD12.1616	1.11/16"	9/16"
KBOD12.2020	2"	9/16"
KBOD12.2424	13/16"	11/16"
KBOD12.0404	1"	11/16"
KBOD12.0406	1.3/16"	11/16"
KBOD12.0408	1.7/16"	11/16"
KBOD12.0602	1.11/16"	11/16"
KBOD12.0606	2"	11/16"
KBOD12.0608	1"	13/16"
KBOD12.0612	1.3/16"	13/16"
KBOD12.0804	1.3/16"	1.7/16"
KBOD12.0808	1.7/16"	13/16"
KBOD12.0812	1.7/16"	1.11/16"
KBOD12.1004	1.11/16"	13/16"
KBOD12.1006	2"	13/16"
KBOD12.1012	1.3/16"	1"
KBOD12.1016	1.7/16"	1"
KBOD12.1204	1.11/16"	1"
KBOD12.1208	2"	1"
KBOD12.1216	1.7/16"	1.3/16"
KBOD12.1220	1.11/16"	1.3/16"
KBOD12.1604	2"	1.3/16"
KBOD12.1606	1.11/16"	1.7/16"
KBOD12.1620	2"	1.7/16"
KBOD12.1624	2"	1.11/16"

**UNIÃO SOLDAR**  
 WELDING UNION


CÓDIGO CODE	DIAM1 Ø1	DIAM1 Ø2
KBOD34.06	12.75	6
KBOD34.10	15.75	10
KBOD34.12	18.9	12
KBOD34.16	23.45	16
KBOD34.20	17.85	20
KBOD34.25	34.2	25
KBOD34.30	40.55	30
KBOD34.38	48.5	38
KBOD34.08	15.75	8
KBOD34.14	23.45	14
KBOD34.15	23.45	15
KBOD34.18	17.85	18
KBOD34.22	34.2	22
KBOD34.28	40.55	28
KBOD34.32	40.55	32
KBOD34.35	48.5	35

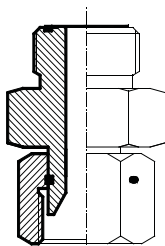
**UNIÃO MACHO ORFS  
FÊMEA DIN GIRATÓRIA**  
 ADAPTOR MALE ORFS -  
 FEMALE DIN  
 (THRUST-WIRE NUT)


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD38.0406L	9/16"	12X1.5
KBOD38.0408L	9/16"	14X1.5
KBOD38.0610L	11/16"	16X1.5
KBOD38.0812L	13/16"	18X1.5
KBOD38.1015L	1"	22X1.5
KBOD38.1218L	1.3/16"	26X1.5
KBOD38.1622L	1.7/16"	30X2
KBOD38.2028L	1.11/16"	36X2
KBOD38.2435L	2"	45X2
KBOD38.2442L	2"	52X2
KBOD38.0406S	9/16"	14X1.5
KBOD38.0408S	9/16"	16X1.5
KBOD38.0610S	11/16"	18X1.5
KBOD38.0812S	13/16"	20X1.5
KBOD38.1014S	1"	22X1.5
KBOD38.1016S	1"	24X1.5
KBOD38.01220S	1.3/16"	30X2
KBOD38.1625S	1.7/16"	36X2
KBOD38.1230S	1.11/16"	42X2
KBOD38.2438S	2"	52X2

**UNIÃO MACHO ORFS  
MACHO JIC**  
 ADAPTOR MALE ORFS  
 - MALE JIC


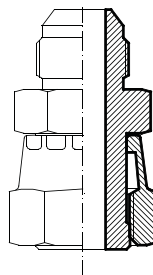
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD40.0404	9/16"	7/16"
KBOD40.0606	11/16"	9/16"
KBOD40.0808	13/16"	3/4"
KBOD40.1010	1"	7/8"
KBOD40.1212	1.3/16"	1.1/16"
KBOD40.1616	1.7/16"	1.5/16"
KBOD40.2020	1.11/16"	1.5/8"
KBOD40.2424	2"	1.7/8"
KBOD40.0605	11/16"	1/2"

**UNIÃO MACHO ORFS  
FÊMEA JIC GIRATÓRIA**  
ADAPTOR MALE ORFS -  
FEMALE JIC  
(THRUST-WIRE NUT)



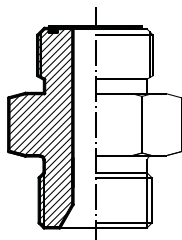
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD42.0404	9/16"	7/16"
KBOD42.0606	11/16"	9/16"
KBOD42.0808	13/16"	3/4"
KBOD42.1010	1"	7/8"
KBOD42.1212	1.3/16"	1".1/16
KBOD42.1616	1.7/16"	1".5/16
KBOD42.2020	1.11/16"	1".5/8
KBOD42.2424	2"	1".7/8
KBOD42.0605	11/16"	1/2"

**UNIÃO FÊMEA ORFS  
GIRATÓRIA - MACHO  
JIC**  
ADAPTOR FEMALE  
ORFS - MALE JIC



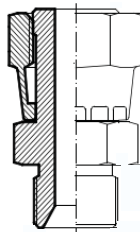
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD44.0404	9/16"	7/16"
KBOD44.0606	11/16"	9/16"
KBOD44.0808	13/16"	3/4"
KBOD44.1010	1"	7/8"
KBOD44.1212	1.3/16"	1.1/16"
KBOD44.1616	1".7/16"	1.5/16"
KBOD44.2020	1".11/16"	1.5/8"
KBOD44.2424	2"	1.7/8"
KBOD44.0605	11/16"	1/2"

**UNIÃO MACHO ORFS  
MACHO BSPP CONE 60°**  
ADAPTOR MALE ORFS -  
MALE BSPP  
(THRUST WIRE NUT)



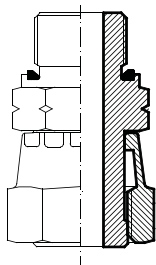
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD42.0402	9/16"	1/8"
KBOD42.0604	11/16"	1/4"
KBOD42.0806	13/16"	3/8"
KBOD42.1008	1"	1/2"
KBOD42.1212	1.3/16"	3/4"
KBOD42.1616	1.7/16"	1"
KBOD42.2020	1.11/16"	1".1/4
KBOD42.2424	2"	1".1/2
KBOD42.0404	9/16"	1/4"
KBOD42.0406	9/16"	3/8"
KBOD42.0606	11/16"	3/8"
KBOD42.0608	11/16"	1/2"
KBOD42.0804	13/16"	1/4"
KBOD42.0808	13/16"	1/2"
KBOD42.0812	13/16"	3/4"
KBOD42.1006	1"	3/8"
KBOD42.1010	1"	5/8"
KBOD42.1012	1"	3/4"
KBOD42.1208	1.3/16"	1/2"
KBOD42.1216	1.3/16"	1"
KBOD42.1612	1.7/16"	3/4"
KBOD42.1620	1.7/16"	1".1/4

**UNIÃO FÊMEA ORFS  
GIRATÓRIA MACHO  
BSPP CONE 60°**  
ADAPTOR FEMALE  
ORFS - MALE BSP  
WITH 60° CONE

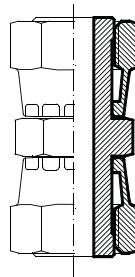


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD48.0402	9/16"	1/8"
KBOD48.0604	11/16"	1/4"
KBOD48.0806	13/16"	3/8"
KBOD48.1008	1"	1/2"
KBOD48.1212	1.3/16"	3/4"
KBOD48.1616	1.7/16"	1"
KBOD48.2020	1.11/16"	1.1/4"
KBOD48.2424	2"	1.1/2"
KBOD48.0404	9/16"	1/4"
KBOD48.0406	9/16"	3/8"
KBOD48.0606	11/16"	3/8"
KBOD48.0608	11/16"	1/2"
KBOD48.0804	13/16"	1/4"
KBOD48.0808	13/16"	1/2"
KBOD48.0812	13/16"	3/4"
KBOD48.1006	1"	3/8"
KBOD48.1010	1"	5/8"
KBOD48.1012	1"	3/4"
KBOD48.1208	1.3/16"	1/2"
KBOD48.1216	1.3/16"	1"
KBOD48.1612	1.7/16"	3/4"
KBOD48.1620	1.7/16"	1.1/4"

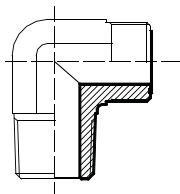
## ORFS

**UNIÃO FÊMEA ORFS  
GIRATÓRIA - MACHO  
MÉTRICO**  
 ADAPTOR FEMALE  
 ORFS - MALE METRIC


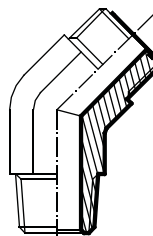
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD50.0412	9/16"	12X1.5
KBOD50.0614	11/16"	14X1.5
KBOD50.0818	13/16"	18X1.5
KBOD50.1022	1"	22X1.5
KBOD50.1227	1.3/16"	27X2
KBOD50.1633	1.7/16"	33X2
KBOD50.2042	1.11/16"	42X2
KBOD50.2448	2"	48X2
KBOD50.0410	9/16"	10X1
KBOD50.0616	11/16"	16X1.5
KBOD50.0816	13/16"	16X1.5
KBOD50.1018	1"	18X1.5
KBOD50.1222	1.3/16"	22X1.5
KBOD50.1627	1.7/16"	27X2

**UNIÃO FÊMEA FÊMEA  
ORFS GIRATÓRIA**  
 ADAPTOR FEMALE  
 ORFS - FEMALE ORFS


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOD52.0404	9/16"	9/16
KBOD52.0606	11/16"	11/16
KBOD52.0808	13/16	13/16
KBOD52.1010	1"	1
KBOD52.1212	1.3/16"	1.3/16
KBOD52.1616	1.7/16"	1.7/16
KBOD52.2020	1.11/16"	1.11/16
KBOD52.2424	2"	2

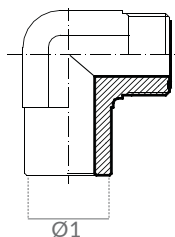
**JOELHO MACHO ORFS  
- MACHO NPTF**  
 90° ADAPTOR MALE  
 ORFS - MALE NPTF


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON16.0412	9/16"	1/8"
KBON16.0614	11/16"	1/4"
KBON16.0818	13/16"	3/8"
KBON16.1022	1"	1/2"
KBON16.1227	1.3/16	3/4"
KBON16.1633	1.7/16	1"
KBON16.2042	1.11/16	1.1/4"
KBON16.2448	2"	1.1/2"
KBON16.0410	9/16"	1/4"
KBON16.0616	9/16"	3/8"
KBON16.0816	11/16"	3/8"
KBON16.1018	11/16"	1/2"
KBON16.1222	13/16"	1/4"
KBON16.1627	13/16"	1/2"
KBON16.0410	13/16"	3/4"
KBON16.0616	1"	3/8"
KBON16.0816	1"	3/4"
KBON16.1018	1.3/16"	1/2"
KBON16.1222	1.3/16"	1"
KBON16.1627	1.7/16"	3/4"
KBON16.1222	1.11/16"	1"
KBON16.1627	2"	1.1/4"

**JOELHO MACHO 45°  
ORFS - MACHO NPTF**  
 45° ADAPTOR MALE  
 ORFS - MALE NPTF


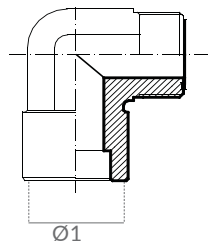
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOQ16.0412	9/16"	1/8"
KBOQ16.0614	11/16"	1/4"
KBOQ16.0818	13/16"	3/8"
KBOQ16.1022	1"	1/2"
KBOQ16.1227	1.3/16"	3/4"
KBOQ16.1633	1.7/16"	1"
KBOQ16.2042	1.11/16"	1.1/4"
KBOQ16.2448	2"	1.1/2"
KBOQ16.0410	9/16"	1/4"
KBOQ16.0616	9/16"	3/8"
KBOQ16.0816	11/16"	3/8"
KBOQ16.1018	11/16"	1/2"
KBOQ16.1222	13/16"	1/4"
KBOQ16.1627	13/16"	1/2"
KBOQ16.0410	13/16"	3/4"
KBOQ16.0616	1"	3/8"
KBOQ16.0816	1"	3/4"
KBOQ16.1018	1.3/16"	1/2"
KBOQ16.1222	1.3/16"	1"
KBOQ16.1627	1.7/16"	3/4"
KBOQ16.1222	1.11/16"	1"
KBOQ16.1627	2"	1.1/4"

**JOELHO MACHO ORFS  
SOLDAR**  
90° ADAPTOR MALE  
ORFS - BUTTWELD



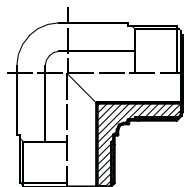
CÓDIGO CODE	ROSCA THREAD	DIAM1 Ø1
KBON12.06	9/16"	6
KBON12.10	11/16"	10
KBON12.12	13/16"	12
KBON12.16	1"	16
KBON12.20	1.3/16"	20
KBON12.25	1.7/16"	25
KBON12.30	1.11/16"	30
KBON12.38	2"	38
KBON12.08	11/16"	8
KBON12.14	1"	14
KBON12.15	1"	15
KBON12.18	1.3/16"	18
KBON12.22	1.7/16"	22
KBON12.28	1.11/16"	28
KBON12.32	1.11/16"	32
KBON12.35	2"	35

**JOELHO MACHO ORFS  
SOLDAR**  
90° ADAPTOR ORFS -  
MALE BUTTWELD



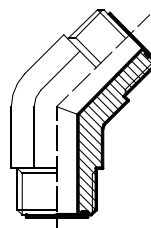
CÓDIGO CODE	ROSCA THREAD	DIAM1 Ø1
KBON14.06	9/16"	6
KBON14.10	11/16"	10
KBON14.12	13/16"	12
KBON14.16	1"	16
KBON14.20	1.3/16"	20
KBON14.25	1.7/16"	25
KBON14.30	1.11/16"	30
KBON14.38	2"	38
KBON14.08	11/16"	8
KBON14.14	1"	14
KBON14.15	1"	15
KBON14.18	1.3/16"	18
KBON14.22	1.7/16"	22
KBON14.28	1.11/16"	28
KBON14.32	1.11/16"	32
KBON14.35	2"	35

**JOELHO MACHO  
MACHO ORFS**  
90° ADAPTOR MALE  
ORFS - MALE ORFS



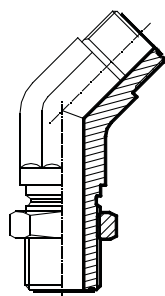
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON10.0404	9/16"	9/16"
KBON10.0606	11/16"	11/16"
KBON10.0808	13/16"	13/16"
KBON10.1010	1"	1"
KBON10.1212	1.3/16"	1.3/16"
KBON10.1616	1.7/16"	1.7/16"
KBON10.2020	1.11/16"	1.11/16"
KBON10.2424	2"	2"
KBON10.0406	9/16"	11/16"
KBON10.0608	11/16"	13/16"
KBON10.0810	13/16"	1"
KBON10.0612	11/16"	1.3/16"
KBON10.0812	13/16"	1.3/16"
KBON10.1012	1"	1.3/16"
KBON10.1216	1.3/16"	1.7/16"
KBON10.1620	1.7/16"	1.11/16"

**JOELHO 45° MACHO  
MACHO ORFS**  
45° ADAPTOR MALE  
ORFS - MALE ORFS



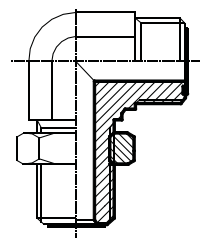
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOQ10.0404	9/16"	9/16"
KBOQ10.0606	11/16"	11/16"
KBOQ10.0808	13/16"	13/16"
KBOQ10.1010	1"	1"
KBOQ10.1212	1.3/16"	1.3/16"
KBOQ10.1616	1.7/16"	1.7/16"
KBOQ10.2020	1.11/16"	1.11/16"
KBOQ10.2424	2"	2"

**JOELHO 45° ORFS  
PASSA-PAREDES**  
45° BULKHEAD  
ADAPTOR MALE ORFS -  
MALE ORFS



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOQ12.0404	9/16"	9/16"
KBOQ12.0606	11/16"	11/16"
KBOQ12.0808	13/16"	13/16"
KBOQ12.1010	1"	1"
KBOQ12.1212	1.3/16"	1.3/16"
KBOQ12.1616	1.7/16"	1.7/16"
KBOQ12.2020	1.11/16"	1.11/16"
KBOQ12.2424	2"	2"

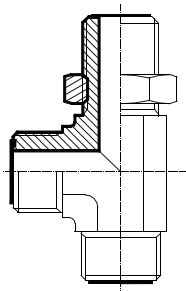
**JOELHO ORFS  
PASSA-PAREDES**  
90° BULKHEAD  
ADAPTOR MALE ORFS -  
MALE ORFS



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON18.0404	9/16"	9/16"
KBON18.0606	11/16"	11/16"
KBON18.0808	13/16"	13/16"
KBON18.1010	1"	1"
KBON18.1212	1.3/16"	1.3/16"
KBON18.1616	1.7/16"	1.7/16"
KBON18.2020	1.11/16"	1.11/16"
KBON18.2424	2"	2"

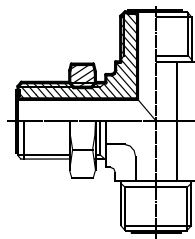
## ORFS

**T ORFS  
PASSA-PAREDES  
LATERAL**  
RUN "T" BULKHEAD  
ADAPTOR MALE ORFS  
- MALE ORFS



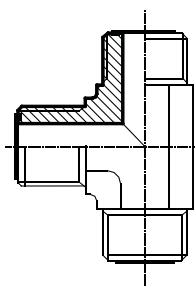
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT16.0404	9/16"	9/16"
KBOT16.0606	11/16"	11/16"
KBOT16.0808	13/16"	13/16"
KBOT16.1010	1"	1"
KBOT16.1212	1.3/16"	1.3/16"
KBOT16.1616	1.7/16"	1.7/16"
KBOT16.2020	1.11/16"	1.11/16"
KBOT16.2424	2"	2"

**T ORFS  
PASSA-PAREDES  
CENTRAL**  
BRANCH "T" BULKHEAD  
ADAPTOR MALE ORFS -  
MALE ORFS



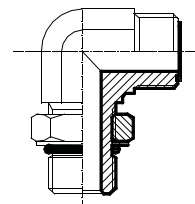
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT18.0404	9/16"	9/16"
KBOT18.0606	11/16"	11/16"
KBOT18.0808	13/16"	13/16"
KBOT18.1010	1"	1"
KBOT18.1212	1.3/16"	1.3/16"
KBOT18.1616	1.7/16"	1.7/16"
KBOT18.2020	1.11/16"	1.11/16"
KBOT18.2424	2"	2"

**T MACHO ORFS  
"T" ADAPTOR MALE  
ORFS**



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT10.0404	9/16"	9/16"
KBOT10.0606	11/16"	11/16"
KBOT10.0808	13/16"	13/16"
KBOT10.1010	1"	1"
KBOT10.1212	1.3/16"	1.3/16"
KBOT10.1616	1.7/16"	1.7/16"
KBOT10.2020	1.11/16"	1.11/16"
KBOT10.2424	2"	2"

**JOELHO MACHO  
ORFS - MACHO UNF  
ORIENTÁVEL**  
90° ADJUSTABLE  
ADAPTOR MALE ORFS  
- MALE UNF WITH  
O-RING AND  
RETAINING SEAL

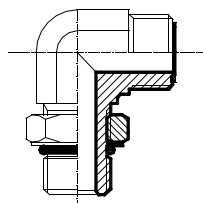


CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON22.0404	9/16"	7/16"
KBON22.0606	11/16"	9/16"
KBON22.0808	13/16"	3/4"
KBON22.1010	1"	7/8"
KBON22.1212	1.3/16"	1.1/16"
KBON22.1616	1.7/16"	1.5/16"
KBON22.2020	1.11/16"	1.5/8"
KBON22.2424	2"	1.7/8"
KBON22.0406	9/16"	9/16"
KBON22.0408	9/16"	3/4"
KBON22.0604	11/16"	7/16"
KBON22.0608	11/16"	3/4"
KBON22.0610	11/16"	7/8"
KBON22.0612	11/16"	1.1/16"
KBON22.0806	13/16"	9/16"
KBON22.0810	13/16"	7/8"
KBON22.0812	13/16"	1.1/16"
KBON22.1008	1"	3/4"
KBON22.1012	1"	1.1/16"
KBON22.1208	1.3/16"	3/4"
KBON22.1210	1.3/16"	7/8"
KBON22.1216	1.3/16"	1.5/16"
KBON22.1612	1.7/16"	1.1/16"
KBON22.1620	1.7/16"	1.5/8"
KBON22.2016	1.11/16"	1.5/16"
KBON22.2024	1.11/16"	1.7/8"
KBON22.2420	2"	1.5/8"



**JOELHO MACHO  
ORFS - MACHO BSPP  
ORIENTÁVEL**

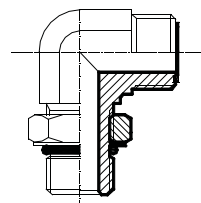
90° ADJUSTABLE  
ADAPTOR MALE ORFS  
- MALE BSPP WITH  
O-RING AND  
RETAINING SEAL



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON20.0402	9/16"	1/8"
KBON20.0604	11/16"	1/4"
KBON20.0806	13/16"	3/8"
KBON20.1008	1"	1/2"
KBON20.1212	1.3/16"	3/4"
KBON20.1616	1.7/16"	1"
KBON20.2020	1.11/16"	1.1/4"
KBON20.2424	2"	1.1/2"
KBON20.0404	9/16"	1/4"
KBON20.0406	9/16"	3/8"
KBON20.0606	11/16"	3/8"
KBON20.0608	11/16"	1/2"
KBON20.0804	13/16"	1/4"
KBON20.0808	13/16"	1/2"
KBON20.0812	13/16"	3/4"
KBON20.1004	1"	1/4"
KBON20.1006	1"	3/8"
KBON20.1212	1.3/16"	3/4"
KBON20.1204	1.3/16"	1/4"
KBON20.1208	1.3/16"	1/2"
KBON20.1612	1.7/16"	3/4"
KBON20.1620	1.7/16"	1.1/4"
KBON20.2016	1.11/16"	1"
KBON20.2024	1.11/16"	1.1/2"

**JOELHO MACHO ORFS  
- MACHO MÉTRICO  
ORIENTÁVEL**

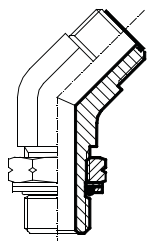
90° ADJUSTABLE  
ADAPTOR MALE ORFS  
- MALE METRIC WITH  
O-RING



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON24.0412	9/16"	12X1.5
KBON24.0614	11/16"	14X1.5
KBON24.0818	13/16"	18X1.5
KBON24.1022	1"	22X1.5
KBON24.1227	1.3/16"	27X2
KBON24.1633	1.7/16"	33X2
KBON24.2042	1.11/16"	42X2
KBON24.2448	2"	48X2
KBON24.0410	9/16"	10X1
KBON24.0616	11/16"	16X1.5
KBON24.0816	13/16"	16X1.5
KBON24.0822	13/16"	22X1.5
KBON24.1018	1"	18X1.5
KBON24.1027	1"	27X2
KBON24.1222	1.3/16"	22X1.5
KBON24.1233	1.3/16"	33X2
KBON24.1627	1.7/16"	27X2
KBON24.1642	1.7/16"	42X2
KBON24.2048	1.11/16"	48X2

**JOELHO 45° MACHO  
ORFS - MACHO  
MÉTRICO ORIENTÁVEL**

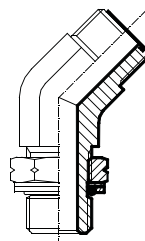
45° ADJUSTABLE  
ADAPTOR MALE ORFS  
- MALE METRIC WITH  
O-RING AND  
RETAINING SEAL



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOQ18.0412	9/16"	12X1.5
KBOQ18.0614	11/16"	14X1.5
KBOQ18.0818	13/16"	18X1.5
KBOQ18.1022	1"	22X1.5
KBOQ18.1227	1.3/16"	27X2
KBOQ18.1633	1.7/16"	33X2
KBOQ18.2042	1.11/16"	42X2
KBOQ18.2448	2"	48X2
KBOQ18.0410	9/16"	10X1
KBOQ18.0616	11/16"	16X1.5
KBOQ18.0816	13/16"	16X1.5
KBOQ18.0822	13/16"	22X1.5
KBOQ18.1018	1"	18X1.5
KBOQ18.1027	1"	27X2
KBOQ18.1222	1.3/16"	22X1.5
KBOQ18.1233	1.3/16"	33X2
KBOQ18.1627	1.7/16"	27X2
KBOQ18.1642	1.7/16"	42X2
KBOQ18.2048	1.11/16"	48X2

**JOELHO 45° MACHO  
ORFS - MACHO BSPP  
ORIENTÁVEL**

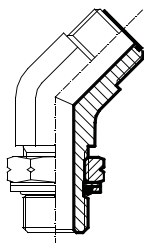
45° ADJUSTABLE  
ADAPTOR  
MALE ORFS - MALE  
BSPP WITH O-RING  
AND RETAINING SEAL



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOQ14.0402	9/16"	1/8"
KBOQ14.0604	11/16"	1/4"
KBOQ14.0806	13/16"	3/8"
KBOQ14.1008	1"	1/2"
KBOQ14.1212	1.3/16"	3/4"
KBOQ14.1616	1.7/16"	1"
KBOQ14.2020	1.11/16"	1.1/4"
KBOQ14.2424	2"	1.1/2"
KBOQ14.0404	9/16"	1/4"
KBOQ14.0406	9/16"	3/8"
KBOQ14.0606	11/16"	3/8"
KBOQ14.0608	11/16"	1/2"
KBOQ14.0804	13/16"	1/4"
KBOQ14.0808	13/16"	1/2"
KBOQ14.0812	13/16"	3/4"
KBOQ14.1004	1"	1/4"
KBOQ14.1006	1"	3/8"
KBOQ14.1212	1.3/16"	3/4"
KBOQ14.1204	1.3/16"	1/4"
KBOQ14.1208	1.3/16"	1/2"
KBOQ14.1612	1.7/16"	3/4"
KBOQ14.1620	1.7/16"	1.1/4"
KBOQ14.2016	1.11/16"	1"
KBOQ14.2024	1.11/16"	1.1/2"

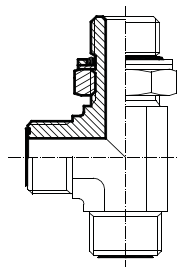
ORFS

**JOELHO 45° MACHO  
ORFS - MACHO UNF  
ORIENTÁVEL**  
45° ADJUSTABLE  
ADAPTOR MALE ORFS  
- MALE UNF WITH  
O-RING



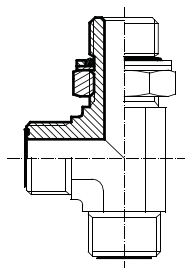
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOQ20.0404	9/16"	7/16"
KBOQ20.0606	11/16"	9/16"
KBOQ20.0808	13/16"	3/4"
KBOQ20.1010	1"	7/8"
KBOQ20.1212	1.3/16"	1.1/16"
KBOQ20.1616	1.7/16"	1.5/16"
KBOQ20.2020	1.11/16"	1.5/8"
KBOQ20.2424	2"	1.7/8"
KBOQ20.0406	9/16"	9/16"
KBOQ20.0408	9/16"	3/4"
KBOQ20.0604	11/16"	7/16"
KBOQ20.0608	11/16"	3/4"
KBOQ20.0610	11/16"	7/8"
KBOQ20.0612	11/16"	1.1/16"
KBOQ20.0806	13/16"	9/16"
KBOQ20.0810	13/16"	7/8"
KBOQ20.0812	13/16"	1.1/16"
KBOQ20.1008	1"	3/4"
KBOQ20.1012	1"	1.1/16"
KBOQ20.1208	1.3/16"	3/4"
KBOQ20.1210	1.3/16"	7/8"
KBOQ20.1216	1.3/16"	1.5/16"
KBOQ20.1612	1.7/16"	1.1/16"
KBOQ20.1620	1.7/16"	1.5/8"
KBOQ20.2016	1.11/16"	1.5/16"
KBOQ20.2024	1.11/16"	1.7/8"
KBOQ20.2420	2"	1.5/8"

**T MACHO ORFS -  
MACHO BSPP  
ORIENTÁVEL LATERAL**  
RUN "T" MALE ORFS  
- SIDE ADJUSTABLE  
MALE BSPP WITH  
O-RING AND  
RETAINING SEAL



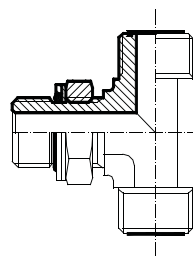
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT20.0402	9/16"	1/8"
KBOT20.0604	11/16"	1/4"
KBOT20.0806	13/16"	3/8"
KBOT20.1008	1"	1/2"
KBOT20.1212	1.3/16"	3/4"
KBOT20.1616	1.7/16"	1"
KBOT20.2020	1.11/16"	1.1/4"
KBOT20.2424	2"	1.1/2"
KBOT20.0404	9/16"	1/4"
KBOT20.0406	9/16"	3/8"
KBOT20.0606	11/16"	3/8"
KBOT20.0608	11/16"	1/2"
KBOT20.0804	13/16"	1/4"
KBOT20.0808	13/16"	1/2"
KBOT20.0812	13/16"	3/4"
KBOT20.1004	1"	1/4"
KBOT20.1006	1"	3/8"
KBOT20.1012	1"	3/4"
KBOT20.1016	1"	1"
KBOT20.1204	1.3/16"	1/4"
KBOT20.1208	1.3/16"	1/2"
KBOT20.1216	1.3/16"	1"
KBOT20.1604	1.7/16"	1/4"
KBOT20.1612	1.7/16"	3/4"
KBOT20.1620	1.7/16"	1.1/4"
KBOT20.2016	1.11/16"	1"
KBOT20.2024	1.11/16"	1.1/2"

**T MACHO ORFS -  
MACHO UNF  
ORIENTÁVEL LATERAL**  
RUN "T" MALE ORFS -  
MALE UNF  
WITH O-RING



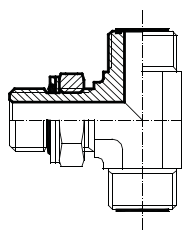
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT24.0412	9/16"	7/16"
KBOT24.0614	11/16"	9/16"
KBOT24.0818	13/16"	3/4"
KBOT24.1022	1"	7/8"
KBOT24.1227	1.3/16"	1.1/16"
KBOT24.1633	1.7/16"	1.5/16"
KBOT24.2042	1.11/16"	1.5/8"
KBOT24.2448	2"	1.7/8"
KBOT24.0410	9/16"	9/16"
KBOT24.0616	9/16"	3/4"
KBOT24.0816	11/16"	7/16"
KBOT24.0822	11/16"	3/4"
KBOT24.1018	11/16"	7/8"
KBOT24.1027	11/16"	1.1/16"
KBOT24.1222	13/16"	9/16"
KBOT24.1233	13/16"	7/8"
KBOT24.1627	13/16"	1.1/16"
KBOT24.1642	1"	3/4"
KBOT24.2048	1"	1.1/16"
KBOT24.2048	1.3/16"	3/4"
KBOT24.2048	1.3/16"	7/8"
KBOT24.2048	1.3/16"	1.5/16"
KBOT24.2048	1.7/16"	1.1/16"
KBOT24.2048	1.7/16"	1.15/8"
KBOT24.2048	1.11/16"	1.5/16"
KBOT24.2048	1.11/16"	1.7/8"
KBOT24.2048	2"	1.5/8"

**T MACHO ORFS  
ORIENTÁVEL CENTRAL**  
BRANCH "T" MALE  
ORFS - ADJUSTABLE  
MALE BSPP WITH  
O-RING AND  
RETAINING SEAL



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT26.0402	9/16"	1/8"
KBOT26.0604	11/16"	1/4"
KBOT26.0806	13/16"	3/8"
KBOT26.1008	1"	1/2"
KBOT26.1212	1.3/16"	3/4"
KBOT26.1616	1.7/16"	1"
KBOT26.2020	1.11/16"	1.1/4"
KBOT26.2424	2"	1.1/2"
KBOT26.0404	9/16"	1/4"
KBOT26.0406	9/16"	3/8"
KBOT26.0606	11/16"	3/8"
KBOT26.0608	11/16"	1/2"
KBOT26.0804	13/16"	1/4"
KBOT26.0808	13/16"	1/2"
KBOT26.0812	13/16"	3/4"
KBOT26.1004	1"	1/4"
KBOT26.1006	1"	3/8"
KBOT26.1012	1"	3/4"
KBOT26.1016	1"	1"
KBOT26.1204	1.3/16"	1/4"
KBOT26.1208	1.3/16"	1/2"
KBOT26.1216	1.3/16"	1"
KBOT26.1604	1.7/16"	1/4"
KBOT26.1612	1.7/16"	3/4"
KBOT26.1620	1.7/16"	1.1/4"
KBOT26.2016	1.11/16"	1"
KBOT26.2024	1.11/16"	1.1/2"

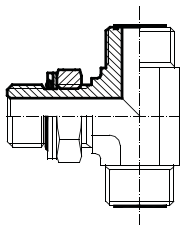
**T MACHO ORFS -  
MACHO MÉTRICO  
ORIENTÁVEL CENTRAL**  
BRANCH "T" MALE ORFS  
- ADJUSTABLE METRIC  
MALE WITH O-RING AND  
RETAINING SEAL



CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT28.0412	9/16"	12X1.5"
KBOT28.0614	11/16"	14X1.5"
KBOT28.0818	13/16"	18X1.5"
KBOT28.1022	1"	22X1.5"
KBOT28.1227	1.3/16"	27X2"
KBOT28.1633	1.7/16"	33X2"
KBOT28.2042	1.11/16"	42X2"
KBOT28.2448	2"	48X2"
KBOT28.0410	9/16"	10X1"
KBOT28.0616	11/16"	16X1.5"
KBOT28.0816	13/16"	16X1.5"
KBOT28.0822	13/16"	22X1.5"
KBOT28.1018	1"	18X1.5"
KBOT28.1027	1"	27X2"
KBOT28.1222	1.3/16"	22X1.5"
KBOT28.1233	1.3/16"	33X2"
KBOT28.1627	1.7/16"	27X2"
KBOT28.1642	1.7/16"	42X2"
KBOT28.2048	1.11/16"	48X2"

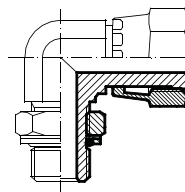
## ORFS

**T MACHO ORFS -  
MACHO UNF  
ORIENTÁVEL CENTRAL  
ADJUSTABLE BRANCH  
"T" MALE ORFS - MALE  
UNF WITH O-RING**



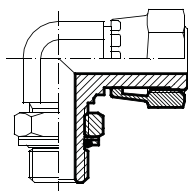
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT30.0412	9/16"	7/16"
KBOT30.0614	11/16"	9/16"
KBOT30.0818	13/16"	3/4"
KBOT30.1022	1"	7/8"
KBOT30.1227	1.3/16"	1.1/16"
KBOT30.1633	1.7/16"	1.5/16"
KBOT30.2042	1.11/16"	1.5/8"
KBOT30.2448	2"	1.7/8"
KBOT30.0410	9/16"	9/16"
KBOT30.0616	9/16"	3/4"
KBOT30.0816	11/16"	7/16"
KBOT30.0822	11/16"	3/4"
KBOT30.1018	11/16"	7/8"
KBOT30.1027	11/16"	1.1/16"
KBOT30.1222	13/16"	9/16"
KBOT30.1233	13/16"	7/8"
KBOT30.1627	13/16"	1.1/16"
KBOT30.1642	1"	3/4"
KBOT30.2048	1"	1.1/16"
KBOT30.2048	1.3/16"	3/4"
KBOT30.2048	1.3/16"	7/8"
KBOT30.2048	1.3/16"	1.5/16"
KBOT30.2048	1.7/16"	1.1/16"
KBOT30.2048	1.7/16"	1.15/8"
KBOT30.2048	1.11/16"	1.5/16"
KBOT30.2048	1.11/16"	1.7/8"
KBOT30.2048	2"	1.5/8"

**JOELHO FÊMEA ORFS -  
MACHO BSPP  
ORIENTÁVEL  
90° ADAPTOR FEMALE  
ORFS - ADJUSTABLE  
MALE BSPP WITH  
O-RING AND  
RETAINING SEAL**



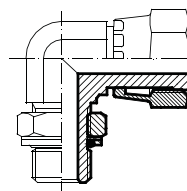
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON26.0402	9/16"	1/8"
KBON26.0604	11/16"	1/4"
KBON26.0806	13/16"	3/8"
KBON26.1008	1"	1/2"
KBON26.1212	1.3/16"	3/4"
KBON26.1616	1.7/16"	1"
KBON26.2020	1.11/16"	1.1/4"
KBON26.2424	2"	1.1/2"

**JOELHO FÊMEA ORFS -  
MACHO MÉTRICO  
ORIENTÁVEL  
90° ADAPTOR FEMALE  
ORFS - ADJUSTABLE  
MALE METRIC WITH  
O-RING AND RETAINING  
SEAL**



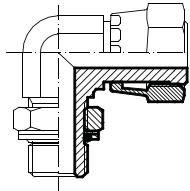
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON28.0412	9/16"	12X1.5
KBON28.0614	11/16"	14X1.5
KBON28.0818	13/16"	18X1.5
KBON28.1022	1"	22X1.5
KBON28.1227	1.3/16"	27X2
KBON28.1633	1.7/16"	33X2
KBON28.2042	1.11/16"	42X2
KBON28.2448	2"	48X2

**JOELHO FÊMEA ORFS -  
MACHO UNF  
ORIENTÁVEL  
90° ADAPTOR FEMALE  
ORFS - MALE UNF WITH  
O-RING**



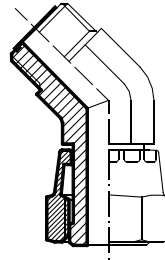
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON30.0404	9/16"	7/16
KBON30.0606	11/16"	9/16
KBON30.0808	13/16"	3/4
KBON30.1010	1"	7/8
KBON30.1212	1.3/16"	1.1/16
KBON30.1616	1.7/16"	1.5/16
KBON30.2020	1.11/16"	1.5/8
KBON30.2424	2"	1.7/8

**JOELHO MACHO FÊMEA**  
90° ADAPTOR FEMALE  
ORFS - MALE ORFS



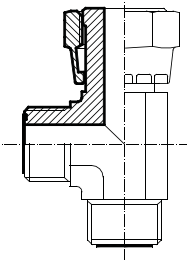
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBON32.0404	9/16"	9/16"
KBON32.0606	11/16"	11/16"
KBON32.0808	13/16"	13/16"
KBON32.1010	1"	1"
KBON32.1212	1.3/16"	1.3/16"
KBON32.1616	1.7/16"	1.7/16"
KBON32.2020	1.11/16"	1.11/16"
KBON32.2424	2"	2"

**JOELHO 45° MACHO  
FÊMEA ORFS**  
45° ADAPTOR  
FEMALE ORFS - MALE  
ORFS



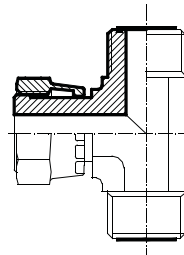
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOQ22.0404	9/16"	9/16"
KBOQ22.0606	11/16"	11/16"
KBOQ22.0808	13/16"	13/16"
KBOQ22.1010	1"	1"
KBOQ22.1212	1.3/16"	1.3/16"
KBOQ22.1616	1.7/16"	1.7/16"
KBOQ22.2020	1.11/16"	1.11/16"
KBOQ22.2424	2"	2"

**T ORFS FÊMEA  
LATERAL**  
RUN "T" MALE  
ORFS - FEMALE ORFS



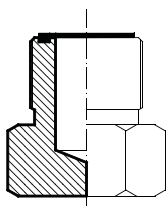
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT14.0404	9/16"	9/16"
KBOT14.0606	11/16"	11/16"
KBOT14.0808	13/16"	13/16"
KBOT14.1010	1"	1"
KBOT14.1212	1.3/16"	1.3/16"
KBOT14.1616	1.7/16"	1.7/16"
KBOT14.2020	1.11/16"	1.11/16"
KBOT14.2424	2"	2"

**T ORFS FÊMEA  
CENTRAL**  
BRANCH "T" MALE  
ORFS - FEMALE ORFS



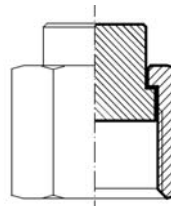
CÓDIGO CODE	ROSCA THREAD	ROSCA THREAD
KBOT12.0404	9/16"	9/16"
KBOT12.0606	11/16"	11/16"
KBOT12.0808	13/16"	13/16"
KBOT12.1010	1"	1"
KBOT12.1212	1.3/16"	1.3/16"
KBOT12.1616	1.7/16"	1.7/16"
KBOT12.2020	1.11/16"	1.11/16"
KBOT12.2424	2"	2"

**TACO MACHO ORFS**  
MALE PLUG UNF  
UN-2A



CÓDIGO CODE	TUBO HOSE
KBOD01.04	9/16"
KBOD01.06	11/16"
KBOD01.08	13/16"
KBOD01.10	1"
KBOD01.12	1.3/16"
KBOD01.16	1.7/16"
KBOD01.20	1.11/16"
KBOD01.24	2"

**TACO FÊMEA ORFS**  
SWIVEL FEMALE PLUG  
UNF/UN-2B



CÓDIGO CODE	TUBO HOSE
KBOD02.04	9/16"
KBOD02.06	11/16"
KBOD02.08	13/16"
KBOD02.10	1"
KBOD02.12	1.3/16"
KBOD02.16	1.7/16"
KBOD02.20	1.11/16"
KBOD02.24	2"

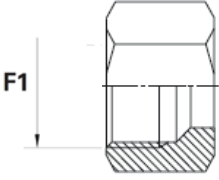
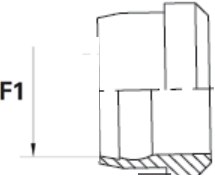
ORFS



DIN 2353 24° • DIN 2353 24°



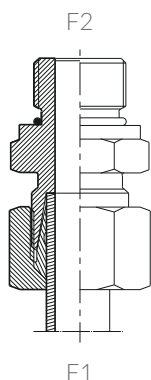
DIN 2353 24°

PORCA NUT	CÓDIGO CODE	F1	SÉRIE SERIE	ANEL BICONE DOUBLE CUTTING RING	CÓDIGO CODE	F1	SÉRIE SERIE
	540010.06	12X1,5	L		540050.06	6	L/S
	540010.08	14X1,5	L		540050.08	8	L/S
	540010.10	16X1,5	L		540050.10	10	L/S
	540010.12	18X1,5	L		540050.12	12	L/S
	540010.15	22X1,5	L		540050.15	15	L
	540010.18	26X1,5	L		540050.14	14	S
	540010.22	30X2	L		540050.16	16	S
	540010.28	36X2	L		540050.18	18	L
	540010.35	45X2	L		540050.22	22	L
	540010.42	52X2	L		540050.28	28	L
	540020.06	14X1,5	S		540050.35	35	L
	540020.08	16X1,5	S		540050.42	42	L
	540020.10	18X1,5	S		540050.20	20	S
	540020.12	20X1,5	S		540050.25	25	S
	540020.14	22X1,5	S		540050.30	30	S
	540020.16	24X1,5	S		540050.38	38	S
	540020.20	30X2	S				
	540020.25	36X2	S				
	540020.30	42X2	S				
	540020.38	52X2	S				



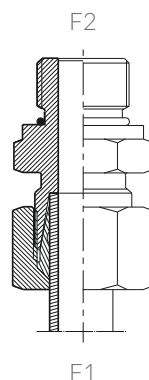
**UNIÃO TUBO  
ROSCA BSPP  
MALE STUD  
COUPLING FORM B  
DIN 3852**

CÓDIGO CODE	F1	F2
543000.0602	06L	1/8"
543000.0604	06L	1/4"
543000.0606	06L	3/8"
543000.0608	06L	1/2"
543000.0802	08L	1/8"
543000.0804	08L	1/4"
543000.0806	08L	3/8"
543000.0808	08L	1/2"
543000.1002	10L	1/8"
543000.1004	10L	1/4"
543000.1006	10L	3/8"
543000.1008	10L	1/2"
543000.1204	12L	1/4"
543000.1206	12L	3/8"
543000.1208	12L	1/2"
543000.1212	12L	3/4"
543000.1506	15L	3/8"
543000.1508	15L	1/2"
543000.1512	15L	3/4"
543000.1806	18L	3/8"
543000.1808	18L	1/2"
543000.1812	18L	3/4"
543000.2208	22L	1/2"
543000.2212	22L	3/4"
543000.2216	22L	1"
543000.2812	28L	3/4"
543000.2816	28L	1"
543000.3516	35L	1"
543000.3520	35L	1.1/4"
543000.4220	42L	1.1/4"
543000.4224	42L	1.1/2"
543500.0604	06S	1/4"
543500.0608	06S	1/2"
543500.0804	08S	1/4"
543500.0806	08S	3/8"
543500.1004	10S	1/4"
543500.1006	10S	3/8"
543500.1008	10S	1/2"
543500.1204	12S	1/4"
543500.1206	10S	3/8"
543500.1208	12S	1/2"
543500.1406	14S	3/8"
543500.1408	14S	1/2"
543500.1606	16S	3/8"
543500.1608	16S	1/2"
543500.1612	16S	3/4"
543500.2008	20S	1/2"
543500.2012	20S	3/4"
543500.2016	20S	1"
543500.2512	25S	3/4"
543500.2516	25S	1"
543500.3016	30S	1"
543500.3020	30S	1.1/4"
543500.3820	38S	1.1/4"
543500.3824	38S	1.1/2"



**UNIÃO TUBO  
ROSCA BSPP  
COM O-RING  
MALE STUD  
COUPLING WITH  
RUBBER SEAL FORM  
E DIN 3852**

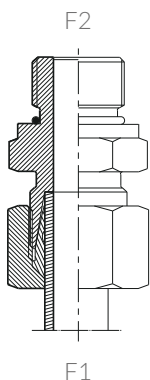
CÓDIGO CODE	F1	F2
543000.0602OR	06L	1/8"
543000.0604OR	06L	1/4"
543000.0606OR	06L	3/8"
543000.0802OR	08L	1/8"
543000.0804OR	08L	1/4"
543000.0806OR	08L	3/8"
543000.0808OR	08L	1/2"
543000.1002OR	10L	1/8"
543000.1004OR	10L	1/4"
543000.1006OR	10L	3/8"
543000.1008OR	10L	1/2"
543000.1204OR	12L	1/4"
543000.1206OR	12L	3/8"
543000.1208OR	12L	1/2"
543000.1506OR	12L	3/8"
543000.1508OR	15L	1/2"
543000.1512OR	15L	3/4"
543000.1808OR	18L	1/2"
543000.1812OR	18L	3/4"
543000.2208OR	22L	1/2"
543000.2212OR	22L	3/4"
543000.2216OR	22L	1"
543000.2812OR	28L	3/4"
543000.2816OR	28L	1"
543000.3516OR	35L	1"
543000.3520OR	35L	1.1/4"
543000.4224OR	42L	1.1/2"
543500.0604OR	06S	1/4"
543500.0804OR	08S	1/4"
543500.0806OR	08S	3/8"
543500.1004OR	10S	1/4"
543500.1006OR	10S	3/8"
543500.1008OR	10S	1/2"
543500.1204OR	12S	1/4"
543500.1206OR	12S	3/8"
543500.1208OR	12S	1/2"
543500.1406OR	14S	3/8"
543500.1408OR	14S	1/2"
543500.1606OR	16S	3/8"
543500.1608OR	16S	1/2"
543500.1612OR	16S	3/4"
543500.2008OR	20S	1/2"
543500.2012OR	20S	3/4"
543500.2016OR	20S	1"
543500.2512OR	25S	3/4"
543500.2516OR	25S	1"
543500.3016OR	30S	1"
543500.3020OR	30S	1.1/4"
543500.3820OR	38S	1.1/4"
543500.3824OR	38S	1.1/2"



DIN 2353 24°

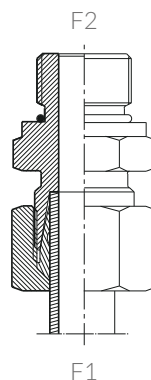
**UNIÃO TUBO ROSCA  
BSPP COM O-RING**  
BSPP MALE STUD  
COUPLING WITH  
RUBBER SEAL FORM  
E DIN 3852

CÓDIGO CODE	F1	F2
543200.0610	06L	10x1
543200.0812	08L	12x1,5
543200.0814	08L	14x1,5
543200.0816	08L	16x1,5
543200.0818	08L	18x1,5
543200.1014	10L	14x1,5
543200.1016	10L	16x1,5
543200.1018	10L	18x1,5
543200.1022	10L	22x1,5
543200.1214	12L	14x1,5
543200.1216	12L	16x1,5
543200.1218	12L	18x1,5
543200.1222	12L	22x1,5
543200.1516	15L	16x1,5
543200.1518	15L	18x1,5
543200.1522	15L	22x1,5
543200.1818	18L	18x1,5
543200.1822	18L	22x1,5
543200.1826	18L	26x1,5
543200.2222	22L	22x1,5
543200.2226	22L	26x1,5
543200.2833	28L	33x2
543200.3542	35L	42x2
543200.4248	42L	48x2
543250.0612	06S	12x1,5
543250.0814	08S	14x1,5
543250.1016	10S	16x1,5
543250.1018	10S	18x1,5
543250.1218	12S	18x1,5
543250.1222	12S	22x1,5
543250.1420	08S	20x1,5
543250.1618	16S	18x1,5
543250.1622	16S	22x1,5
543250.2027	20S	27x2
543250.2527	25S	27x2
543250.2533	25S	33x2
543250.3042	30S	42x2
543250.3848	38S	48x2



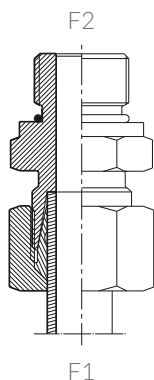
**UNIÃO TUBO ROSCA  
MÉTRICA COM  
ORING**  
MÉTRIC MALE STUD  
COUPLING WITH  
RUBBER SEAL FORM E  
DIN 3852

CÓDIGO CODE	F1	F2
543201.0610OR	06L	10x1
543201.0812OR	08L	12x1,5
543201.1014OR	10L	14x1,5
543201.1016OR	10L	16x1,5
543201.1018OR	10L	18x1,5
543201.1022OR	10L	22x1,5
543201.1214OR	12L	14x1,5
543201.1216OR	12L	16x1,5
543201.1218OR	12L	18x1,5
543201.1222OR	12L	22x1,5
543201.1516OR	15L	16x1,5
543201.1518OR	15L	18x1,5
543201.1522OR	15L	22x1,5
543201.1818OR	18L	18x1,5
543201.1822OR	18L	22x1,5
543201.2222OR	22L	26x1,5
543201.2226OR	22L	26x1,5
543201.2833OR	28L	33x2
543201.3542OR	35L	42x2
543201.4248OR	42L	48x2
543501.0612OR	06S	12x1,5
543501.0814OR	08S	14x1,5
543501.1016OR	10S	16x1,5
543501.1218OR	12S	18x1,5
543501.1222OR	12S	22x1,5
543501.1420OR	14S	20x1,5
543501.1618OR	16S	18x1,5
543501.1622OR	16S	22x1,5
543501.2027OR	20S	27x2
543501.2533OR	25S	33x2
543501.3042OR	30S	42x2
543501.3848OR	38S	48x2

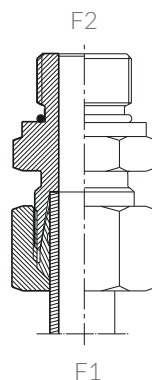


**UNIÃO TUBO  
ROSCA UNF  
UNF MALE STUD  
COUPLING**

CÓDIGO CODE	F1	F2
543150.0604	06L	7/16"
543150.0804	08L	7/16"
543150.0805	08L	1/2"
543150.1004	10L	7/16"
543150.1005	10L	1/2"
543150.1206	12L	9/16"
543150.1208	12L	3/4"
543150.1210	12L	7/8"
543150.1508	15L	3/4"
543150.1808	18L	3/4"
543150.1810	18L	7/8"
543150.2210	22L	7/8"
543150.2212	22L	1.1/16"
543150.2216	22L	1.5/16"
543150.2812	28L	1.1/16"
543150.2816	28L	1.5/16"
543150.3516	35L	1.5/16"
543150.3520	35L	1.5/8"
543150.4220	42L	1.5/8"
543150.4224	42L	1.7/8"
543155.0605	06S	1/2"
543155.0804	08S	7/16"
543155.0805	10S	1/2"
543155.1006	12S	9/16"
543155.1206	12S	9/16"
543155.1208	14S	3/4"
543155.1608	16S	3/4"
543155.1408	16S	3/4"
543155.1610	20S	7/8"
543155.2008	25S	3/4"
543155.2010	30S	7/8"
543155.2012	38S	1.1/16"
543155.2512	16S	1.1/16"
543155.2516	20S	1.5/16"
543155.3016	25S	1.5/16"
543155.3020	30S	1.5/8"
543155.3820	38S	1.5/8"
543155.3824	38S	1.7/8"


**UNIÃO TUBO ROSCA  
BSPP (CÓNICA)  
BSPP MALE STUD  
COUPLING**

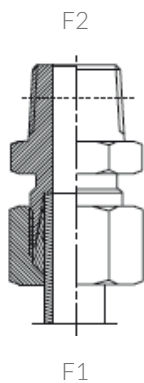
CÓDIGO CODE	F1	F2
543540.0602	06L	1/8"
543540.0604	06L	1/4"
543540.0802	08L	1/8"
543540.0804	08L	1/4"
543540.0806	08L	3/8"
543540.0808	08L	1/2"
543540.1002	10L	1/8"
543540.1004	10L	1/4"
543540.1006	10L	3/8"
543540.1008	10L	1/2"
543540.1204	12L	1/4"
543540.1206	12L	3/8"
543540.1208	12L	1/2"
543540.1506	15L	3/8"
543540.1508	15L	1/2"
543540.1806	18L	3/8"
543540.1808	18L	1/2"
543540.1812	18L	3/4"
543540.2212	22L	3/4"
543540.2816	28L	1"
543540.3516	35L	1"
543540.3520	35L	1.1/4"
543540.4224	42L	1.1/2"
543545.0604	06S	1/4"
543545.0804	08S	1/4"
543545.1004	10S	1/4"
543545.1006	10S	3/8"
543545.1204	12S	1/4"
543545.1206	12S	3/8"
543545.1208	12S	1/2"
543545.1408	14S	1/2"
543545.1606	16S	3/8"
543545.1608	16S	1/2"
543545.2008	20S	1/2"
543545.2012	20S	3/4"
543545.2512	25S	3/4"
543545.2516	25S	1"
543545.3016	30S	1"
543545.3020	30S	1.1/4"
543545.3820	38S	1.1/4"
543545.3824	38S	1.1/2"



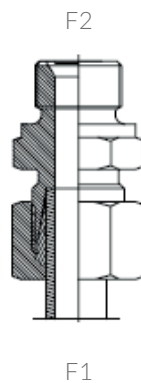
DIN 2353 24°

**UNIÃO TUBO  
ROSCA NPT  
CONE 60° MALE  
STUD COUPLING  
SV 60°**

CÓDIGO CODE	F1	F2
543550.0602	06L	1/8"
543550.0604	06L	1/4"
543550.0802	08L	1/8"
543550.0804	08L	1/4"
543550.0806	08L	3/8"
543550.1002	10L	1/8"
543550.1004	10L	1/4"
543550.1006	10L	3/8"
543550.1008	10L	1/2"
543550.1204	12L	1/4"
543550.1206	12L	3/8"
543550.1208	12L	1/2"
543550.1506	15L	3/8"
543550.1508	15L	1/2"
543550.1808	18L	1/2"
543550.1812	18L	3/4"
543550.2212	22L	3/4"
543550.2816	28L	1"
543550.3520	35L	1.1/4"
543550.4224	42L	1.1/2"
543552.0604	06S	1/4"
543552.0804	08S	1/4"
543552.1004	10S	1/4"
543552.1006	10S	3/8"
543552.1204	12S	1/4"
543552.1206	12S	3/8"
543552.1208	12S	1/2"
543552.1406	14S	3/8"
543552.1408	14S	1/2"
543552.1606	16S	3/8"
543552.1608	16S	1/2"
543552.2008	20S	1/2"
543552.2012	20S	3/4"
543552.2512	25S	3/4"
543552.2516	25S	1"
543552.3016	30S	1"
543552.3020	30S	1.1/4"
543552.3824	38S	1.1/2"


**UNIÃO TUBO ROSCA  
BSPP CONE 60°  
CONE 60° MALE  
STUD COUPLING  
SV 60°**

CÓDIGO CODE	F1	F2
543100.0602	06L	1/8"
543100.0604	06L	1/4"
543100.0802	08L	1/8"
543100.0804	08L	1/4"
543100.0806	08L	3/8"
543100.0808	08L	1/2"
543100.1002	10L	1/8"
543100.1004	10L	1/4"
543100.1006	10L	3/8"
543100.1008	10L	1/2"
543100.1204	12L	1/4"
543100.1206	12L	3/8"
543100.1208	12L	1/2"
543100.1506	15L	3/8"
543100.1508	15L	1/2"
543100.1806	18L	3/8"
543100.1808	18L	1/2"
543100.1812	18L	3/4"
543100.2212	22L	3/4"
543100.2816	28L	1"
543100.3516	35L	1"
543100.3520	35L	1.1/4"
543100.4224	42L	1.1/2"
543600.0604	06S	1/4"
543600.0804	08S	1/4"
543600.1004	10S	1/4"
543600.1006	10S	3/8"
543600.1204	12S	1/4"
543600.1206	12S	3/8"
543600.1208	12S	1/2"
543600.1408	14S	1/2"
543600.1606	16S	3/8"
543600.1608	16S	1/2"
543600.2008	20S	1/2"
543600.2012	20S	3/4"
543600.2512	25S	3/4"
543600.2516	25S	1"
543600.3016	30S	1"
543600.3020	30S	1.1/4"
543600.3820	38S	1.1/4"
543600.3824	38S	1.1/2"



**UNIÃO TUBO - TUBO**  
 STRAIGHT  
 COUPLING


CÓDIGO CODE	F1	F2
540100.0606	06L	06L
540100.0808	08L	08L
540100.1010	10L	10L
540100.1212	12L	12L
540100.1515	15L	15L
540100.1818	18L	18L
540100.2222	22L	22L
540100.2828	28L	28L
540100.3535	35L	35L
540100.4242	42L	42L
540500.0606	06S	06S
540500.0808	08S	08S
540500.1010	10S	10S
540500.1212	12S	12S
540500.1414	14S	14S
540500.1616	16S	16S
540500.2020	20S	20S
540500.2525	25S	25S
540500.3030	30S	30S
540500.3838	38S	38S

**UNIÃO REDUÇÃO**  
 TUBO - TUBO  
 REDUCED STRAIGHT  
 COUPLING

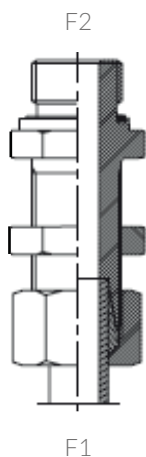

CÓDIGO CODE	F1	F2
545100.0806L	08L	06L
545100.1006L	10L	06L
545100.1008L	10L	08L
545100.1206L	12L	06L
545100.1208L	12L	08L
545100.1210L	12L	10L
545100.1510L	15L	10L
545100.1512L	15L	12L
545100.1810L	18L	10L
545100.1812L	18L	12L
545100.1815L	18L	15L
545100.2212L	22L	12L
545100.2215L	22L	15L
545100.2218L	22L	18L
545100.2818L	28L	18L
545100.2822L	28L	22L
545100.3522L	35L	22L
545100.3528L	35L	28L

545100.0806S	08S	06S
545100.1006S	10S	06S
545100.1008S	10S	08S
545100.1206S	12S	06S
545100.1208S	12S	08S
545100.1210S	12S	10S
545100.1410S	14S	10S
543100.1412S	14S	12S
545100.1612S	16S	12S
545100.1614S	16S	14S
545100.2010S	20S	10S
545100.2012S	20S	12S
545100.2014S	20S	14S
545100.2016S	20S	16S
545100.2516S	25S	16S
545100.2520S	25S	20S
545100.3020S	30S	20S
545100.3025S	30S	25S
545100.3825S	30S	25S

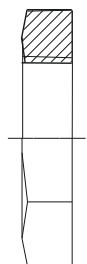
**UNIÃO PASSA**  
 PAREDES  
 BULKHEAD  
 CONNECTION


CÓDIGO CODE	F1	F2
540200.06	06L	06L
540200.08	08L	08L
540200.10	10L	10L
540200.12	12L	12L
540200.15	15L	15L
540200.18	18L	18L
540200.22	22L	22L
540200.28	28L	28L
540200.35	35L	35L
540200.42	42L	42L
540300.06	06S	06S
540300.08	08S	08S
540300.10	10S	10S
540300.12	12S	12S
540300.14	14S	14S
540300.16	16S	16S
540300.20	20S	20S
540300.25	25S	25S
540300.30	30S	30S
540300.38	38S	38S

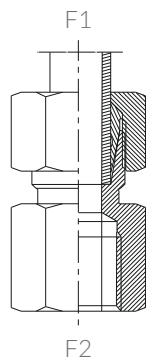
DIN 2353 24°

**UNIÃO  
PASSA-PAREDES  
BULKHEAD  
CONNECTION**


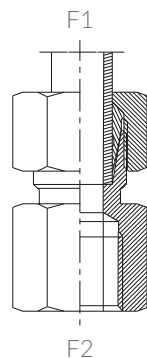
CÓDIGO CODE	F1	F2
540205.0602	06L	1/8"
540205.0804	08L	1/4"
540205.1004	10L	1/4"
540205.1206	12L	3/8"
540205.1508	15L	1/2"
540205.1808	18L	1/2"
540205.2212	22L	3/4"
540205.2816	28L	1"
540205.3520	35L	1.1/4"
540205.4224	42L	1.1/2"
540305.0604	06S	1/4"
540305.0804	08S	1/4"
540305.1006	10S	3/8"
540305.1206	12S	3/8"
540305.1408	14S	1/2"
540305.1608	16S	1/2"
540305.2012	20S	3/4"
540305.2516	25S	1"
540305.3020	30S	1.1/4"
540305.3824	38S	1.1/2"

**PORCA  
PASSA-PAREDES  
BULKHEAD NUT**


CÓDIGO CODE	F1
543710.06	12X1,5
543710.08	14X1,5
543710.10	16X1,5
543710.12	18X1,5
543710.15	22X1,5
543710.18	26X1,5
543710.22	30X2
543710.28	36X2
543710.35	45X2
543710.42	52X2
543715.06	14X1,5
543715.08	16X1,5
543715.10	18X1,5
543715.12	20X1,5
543715.14	22X1,5
543715.16	24X1,5
543715.20	30X2
543715.25	36X2
543715.30	42X2
543715.38	52X2

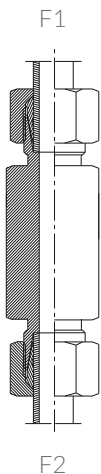
**UNIÃO TUBO FÊMEA  
FIXA BSPP  
FEMALE STUD  
COUPLING**


CÓDIGO CODE	F1	F2
543700.0602	06L	1/8"
543700.0804	08L	1/4"
543700.1004	10L	1/4"
543700.1206	12L	3/8"
543700.1508	15L	1/2"
543700.1808	18L	1/2"
543700.2212	22L	3/4"
543700.2816	28L	1"
543700.3520	35L	1.1/4"
543700.4224	42L	1.1/2"
543701.0604	06S	1/4"
543701.0804	08S	1/4"
543701.1006	10S	3/8"
543701.1206	12S	3/8"
543701.1408	14S	1/2"
543701.1608	16S	1/2"
543701.2012	20S	3/4"
543701.2516	25S	1"
543701.3020	30S	1.1/4"
543701.3824	38S	1.1/2"

**UNIÃO TUBO FÊMEA  
FIXA MÉTRICA  
FEMALE STUD  
COUPLING**


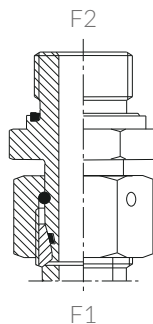
CÓDIGO CODE	F1	F2
543702.0610	06L	10X1
543702.0812	08L	12X1,5
543702.1014	10L	14X1,5
543702.1016	10L	16X1,5
543702.1216	12L	16X1,5
543702.1518	15L	18X1,5
543702.1822	18L	22X1,5
543702.2226	22L	26X1,5
543702.2833	28L	33X2
543702.3542	35L	42X2
543702.4248	42L	48X2
543703.0612	06S	12X1,5
543703.0814	08S	14X1,5
543703.1016	10S	16X1,5
543703.1218	12S	18X1,5
543703.1420	14S	20X1,5
543703.1622	16S	22X1,5
543703.2027	20S	27X2
543703.2533	25S	33X2
543703.3042	30S	42X2
543703.3848	38S	48X2

**PROLONGAMENTO TUBO-TUBO SOLDAR WELDING BILKHEAD CONNECTION**



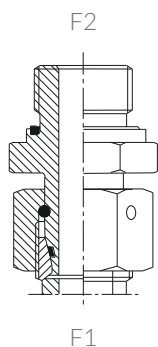
CÓDIGO CODE	F1	F2
543715.06	06L	06L
543715.08	08L	08L
543715.10	10L	10L
543715.12	12L	12L
543715.15	15L	15L
543715.18	18L	18L
543715.22	22L	22L
543715.28	28L	28L
543715.35	35L	35L
543715.42	42L	42L
543715.06	06S	06S
543715.08	08S	08S
543715.10	10S	10S
543715.12	12S	12S
543715.14	14S	14S
543715.16	16S	16S
543715.20	20S	20S
543715.25	25S	25S
543715.30	30S	30S
543715.38	38S	38S

**UNIÃO ORIENTÁVEL BSPP STRAIGHT STUD STANDPIPE ADAPTER WITH CAPTIVE SEAL AND O-RING FORM E DIN 3852**



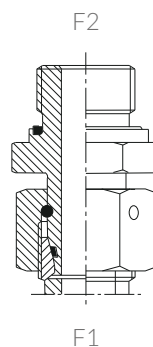
CÓDIGO CODE	F1	F2
542001.0602	06L	1/8"
542001.0804	08L	1/4"
542001.1004	10L	1/4"
542001.1206	12L	3/8"
542001.1508	15L	1/2"
542001.1808	18L	1/2"
542001.2212	22L	3/4"
542001.2816	28L	1"
542001.3520	35L	1.1/4"
542001.4224	42L	1.1/2"
542001.0406S	06S	1/4"
542001.0408S	08S	1/4"
542001.0610S	10S	3/8"
542001.0612S	12S	3/8"
542001.0814S	14S	1/2"
542001.0816S	16S	1/2"
542001.1220S	20S	3/4"
542001.1625S	25S	1"
542001.2030S	30S	1.1/4"
542001.2438S	38S	1.1/2"

**UNIÃO ORIENTÁVEL MÉTRICA STRAIGHT STUD STANDPIPE ADAPTER WITH CAPTIVE SEAL AND O-RING FORM E DIN 3852**



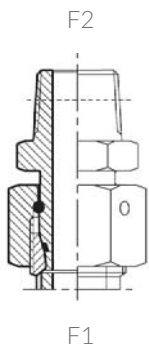
CÓDIGO CODE	F1	F2
542002.0610	06L	10x1
542002.0812	08L	12x1,5
542002.1014	10L	14x1,5
542002.1216	12L	16x1,5
542002.1518	15L	18x1,5
542002.1822	18L	22x1,5
542002.2226	22L	26x1,5
542002.2833	28L	33x2
542002.3542	35L	42x2
542002.4248	42L	48x2
542002.0612S	06S	12x1,5
542002.0814S	08S	14x1,5
542002.1016S	10S	16x1,5
542002.1218S	12S	18x1,5
542002.1420S	14S	20x1,5
542002.1622S	16S	22x1,5
542002.2027S	20S	27x2
542002.2533S	25S	33x2
542002.3042S	30S	42x2
542002.3848S	38S	48x2

**UNIÃO ORIENTÁVEL UNF STRAIGHT STUD STANDPIPE ADAPTER WITH O-RING**

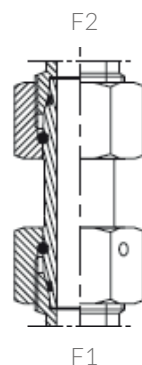


CÓDIGO CODE	F1	F2
542004.0604	06L	7/16"
542004.0804	08L	7/16"
542004.1006	10L	9/16"
542004.1208	12L	3/4"
542004.1510	15L	7/8"
542004.1810	18L	7/8"
542004.2212	22L	1.1/16"
542004.2816	28L	1.5/16"
542004.3520	35L	1.5/8"
542004.4224	42L	1.7/8"
542004.0604S	06S	7/16"
542004.0806S	08S	9/16"
542004.1006S	10S	9/16"
542004.1208S	12S	3/4"
542004.1410S	14S	7/8"
542004.1610S	16S	7/8"
542004.2012S	20S	1.1/16"
542004.2516S	25S	1.5/16"
542004.3020S	30S	1.5/8"
542004.3824S	38S	1.7/8"

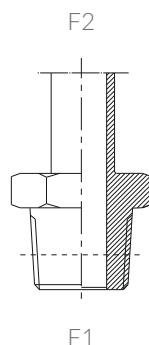
DIN 2353 24°

**UNIÃO ORIENTÁVEL  
NPT  
STUD STANDPIPE  
ADAPTER**


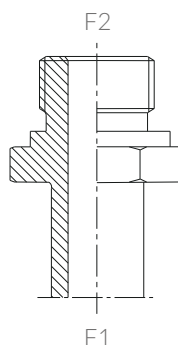
CÓDIGO CODE	F1	F2
542005.0602	06L	1/8"
542005.0804	08L	1/4"
542005.1004	10L	1/4"
542005.1206	12L	3/8"
542005.1508	15L	1/2"
542005.1808	18L	1/2"
542005.2212	22L	3/4"
542005.2816	28L	1"
542005.3520	35L	1.1/4"
542005.4224	42L	1.1/2"
542005.0604S	06S	1/4"
542005.0804S	08S	1/4"
542005.1006S	10S	3/8"
542005.1206S	12S	3/8"
542005.1408S	14S	1/2"
542005.1608S	16S	1/2"
542005.2012S	20S	3/4"
542005.2516S	25S	1"
542005.3020S	30S	1.1/4"
542005.3824S	38S	1.1/2"

**UNIÃO FÊMEA-  
FÊMEA  
STRAIGHT  
COUPLING WITH  
O-RING**


CÓDIGO CODE	F1	F2
546295.06	06L	06L
546295.08	08L	08L
546295.10	10L	10L
546295.12	12L	12L
546295.15	15L	15L
546295.18	18L	18L
546295.22	22L	22L
546295.28	28L	28L
546295.35	35L	35L
546295.42	42L	42L
546300.06	06S	06S
546300.08	08S	08S
546300.10	10S	10S
546300.12	12S	12S
546300.14	14S	14S
546300.16	16S	16S
546300.20	20S	20S
546300.25	25S	25S
546300.30	30S	30S
546300.38	38S	38S

**UNIÃO ORIENTÁVEL  
NPT  
STUD STANDPIPE  
ADAPTER**


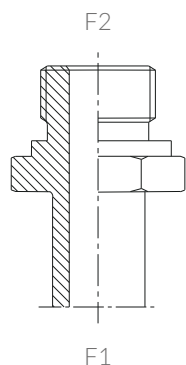
CÓDIGO CODE	F1	F2
546165.0602	1/8"	06
546165.0804	1/4"	08
546165.1004	1/4"	10
546165.1206	3/8"	12
546165.1508	1/2"	15
546165.1808	1/2"	18
546165.2212	3/4"	22
546165.2816	1"	28
546165.3520	1.1/4"	35
546165.4224	1.1/2"	42
546166.0604	1/4"	06
546166.0804	1/4"	08
546166.1006	3/8"	10
546166.1408	1/2"	14
546166.1608	1/2"	16
546166.2012	3/4"	20
546166.2516	1"	25
546166.3020	1.1/4"	30
546166.3824	1.1/2"	38

**UNIÃO ORIENTÁVEL  
MACHO BSPP  
STUD STANDPIPE  
ADAPTER**


CÓDIGO CODE	F1	F2
546167.0602	06	1/8"
546167.0804	08	1/4"
546167.1004	10	1/4"
546167.1206	12	3/8"
546167.1508	15	1/2"
546167.1808	18	1/2"
546167.2212	22	3/4"
546167.2816	28	1"
546167.3520	35	1.1/4"
546167.4224	42	1.1/2"
546168.0604	06	1/4"
546168.0804	08	1/4"
546168.1006	10	3/8"
546168.1408	14	1/2"
546168.1608	16	1/2"
546168.2012	20	3/4"
546168.2516	25	1"
546168.3020	30	1.1/4"
546168.3824	38	1.1/2"

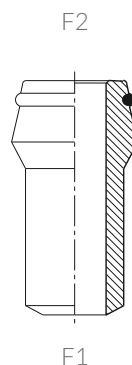


**UNIÃO ORIENTÁVEL  
MACHO MÉTRICO**  
STUD STANDPIPE  
ADAPTER FORM B  
DIN 3852



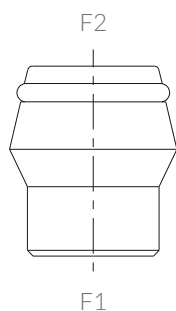
CÓDIGO CODE	F1	F2
546169.0610	10X1	06L
546169.0812	12X1,5	08L
546169.1014	14X1,5	10L
546169.1216	16X1,5	12L
546169.1518	18X1,5	15L
546169.1822	22X1,5	18L
546169.2226	26X1,5	22L
546169.2833	33X2	28L
546169.3542	42X2	35L
546169.4248	48X2	42L
546170.0612	12X1,5	06S
546170.0814	14X1,5	08S
546170.1016	16X1,5	10S
546170.1218	18X1,5	12S
546170.1420	20X1,5	14S
546170.1622	22X1,5	16S
546170.2027	27X2	20S
546170.2533	33X2	25S
546170.3042	42X2	30S
546170.3848	48X2	38S

**PONTEIRA DIN P/  
SOLDAR**  
WELDING NIPPLES  
WITH O-RING SEAL  
DIN 3865 A-ISO  
8434-4



CÓDIGO CODE	F1	SÉRIE SERIE
540009.06	06	L/S
540009.08	08	L/S
540009.10	10	L/S
540009.12	12	L/S
540009.15	15	L
540009.18	18	L
540009.22	22	L
540009.28	28	L
540009.35	35	L
540009.42	42	L
540009.14	14	S
540009.16	16	S
540009.20	20	S
540009.25	25	S
540009.30	30	S

**TACO P/PORCA**  
PIPE PLUG DIN



CÓDIGO CODE	F1	F2
540060.06	06	L
540060.08	08	L
540060.10	10	L
540060.12	12	L
540060.15	15	L
540060.18	18	L
540060.22	22	L
540060.28	28	L
540060.35	35	L
540060.42	42	L
540065.06	6	S
540065.08	8	S
540065.10	10	S
540065.12	12	S
540065.14	14	S
540065.16	16	S
540065.20	20	S
540065.25	25	S
540065.30	30	S
540065.38	38	S

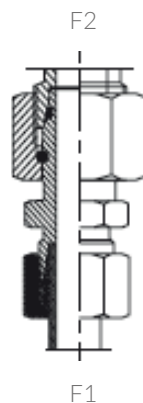
DIN 2353 24°

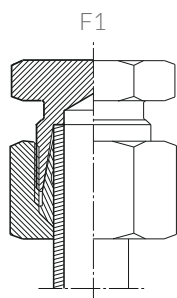
**REDUÇÃO TUBO-  
ORIENTÁVEL  
STANDPIPE/TUBE  
REDUCER**

CÓDIGO CODE	F1	F2
546150.0608	06L	08L
546150.0610	06L	10L
546150.0612	06L	12L
546150.0615	06L	15L
546150.0618	06L	18L
546150.0622	06L	22L
546150.0628	06L	28L
546150.0635	06L	35L
546150.0642	06L	42L
546150.0810	08L	10L
546150.0812	08L	12L
546150.0815	08L	15L
546150.0818	08L	18L
546150.0822	08L	22L
546150.0828	08L	28L
546150.0835	08L	35L
546150.0842	08L	42L
546150.1012	10L	12L
546150.1015	10L	15L
546150.1018	10L	18L
546150.1022	10L	22L
546150.1028	10L	28L
546150.1035	10L	35L
546150.1042	10L	42L
546150.1215	12L	15L
546150.1218	12L	18L
546150.1222	12L	22L
546150.1228	12L	28L
546150.1235	12L	35L
546150.1242	12L	42L
546150.1518	15L	18L
546150.1522	15L	22L
546150.1528	15L	28L
546150.1535	15L	35L
546150.1542	15L	42L
546150.1822	18L	22L
546150.1828	18L	28L
546150.1835	18L	35L
546150.1842	18L	42L
546150.2228	22L	12L
546150.2235	22L	35L
546150.2242	22L	42L
546150.2835	28L	35L
546150.2842	28L	42L
546150.3542	35L	42L

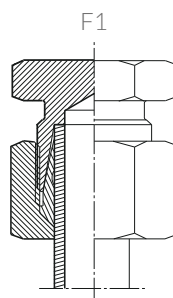

**REDUÇÃO TUBO-  
ORIENTÁVEL  
STANDPIPE/TUBE  
REDUCER**

CÓDIGO CODE	F1	F2
546160.0608	06S	08S
546160.0610	06S	10S
546160.0612	06S	12S
546160.0614	06S	14S
546160.0616	06S	16S
546160.0620	06S	20S
546160.0625	06S	25S
546160.0630	06S	30S
546160.0638	06S	38S
546160.0810	08S	10S
546160.0812	08S	12S
546160.0814	08S	14S
546160.0816	08S	16S
546160.0820	08S	20S
546160.0825	08S	25S
546160.0830	08S	30S
546160.0838	08S	38S
546160.1012	10S	12S
546160.1014	10S	14S
546160.1016	10S	16S
546160.1020	10S	20S
546160.1025	10S	25S
546160.1030	10S	30S
546160.1038	10S	38S
546160.1214	12S	14S
546160.1216	12S	16S
546160.1220	12S	20S
546160.1225	12S	25S
546160.1230	12S	30S
546160.1238	12S	38S
546160.1416	14S	16S
546160.1420	14S	20S
546160.1425	14S	25S
546160.1430	14S	30S
546160.1438	14S	38S
546160.1620	16S	20S
546160.1625	16S	25S
546160.1630	16S	30S
546160.1638	16S	38S
546160.2025	20S	25S
546160.2030	20S	30S
546160.2038	20S	38S
546160.2530	25S	30S
546160.2538	25S	38S
546160.3038	30S	38S



**TACO MACHO**  
PIPE PLUG DIN 24°**CÓDIGO**  
CODE**F1**

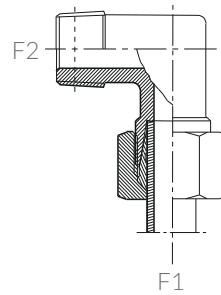
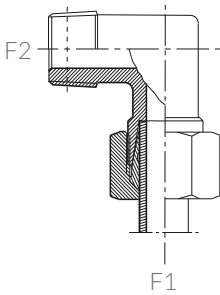
540075.06	06L
540075.08	08L
540075.10	10L
540075.12	12L
540075.15	15L
540075.18	18L
540075.22	22L
540075.28	28L
540075.35	35L
540075.42	42L
540075.06	42L
540076.06	06S
540076.08	08S
540076.10	10S
540076.12	12S
540076.14	14S
540076.16	16S
540076.20	20S
540076.25	25S
540076.30	30S
540076.38	38S

**TACO MACHO**  
**MÉTRICO CHAVE**  
**UNBRAKO**  
INNER HEXAGON  
PLUG PACKING RING  
FORM E DIN 3852**CÓDIGO**  
CODE**F1**

540072.10	10X1
540072.12	12X1,5
540072.14	14X1,5
540072.16	16X1,5
540072.18	18X1,5
540072.20	20X1,5
540072.22	22X1,5
540072.26	26X1,5
540072.27	27X2
540072.33	33X2
540072.42	42X2
540072.48	48X2

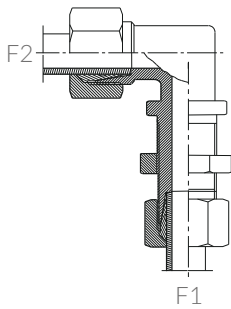
DIN 2353 24°

JOELHO TUBO-ROSCA BSPT STUD ELBOW	CÓDIGO CODE	F1	F2	JOELHO TUBO-ROSCA NPT STUD ELBOW	CÓDIGO CODE	F1	F2
	544101.0602	06L	1/8"		544100.0602	06L	1/8"
	544101.0604	06L	1/4"		544100.0604	06L	1/4"
	544101.0802	08L	1/8"		544100.0802	08L	1/8"
	544101.0804	08L	1/4"		544100.0804	08L	1/4"
	544101.0806	08L	3/8"		544100.0806	08L	3/8"
	544101.0808	08L	1/2"		544100.0808	08L	1/2"
	544101.1002	10L	1/8"		544100.1002	10L	1/8"
	544101.1004	10L	1/4"		544100.1004	10L	1/4"
	544101.1006	10L	3/8"		544100.1006	10L	3/8"
	544101.1008	10L	1/2"		544100.1008	10L	1/2"
	544101.1204	12L	1/4"		544100.1204	12L	1/4"
	544101.1206	12L	3/8"		544100.1206	12L	3/8"
	544101.1208	12L	1/2"		544100.1208	12L	1/2"
	544101.1506	15L	3/8"		544100.1506	15L	3/8"
	544101.1508	15L	1/2"		544100.1508	15L	1/2"
	544101.1808	18L	1/2"		544100.1808	18L	1/2"
	544101.1812	18L	3/4"		544100.1812	18L	3/4"
	544101.2212	22L	3/4"		544100.2212	22L	3/4"
	544101.2816	28L	1"		544100.2816	28L	1"
	544101.3520	35L	1.1/4"		544100.3520	35L	1.1/4"
	544101.4224	42L	1.1/2"		544100.4224	42L	1.1/2"
	544501.0604	06S	1/4"		544500.0604	06S	1/4"
	544501.0804	08S	1/4"		544500.0804	08S	1/4"
	544501.1006	10S	3/8"		544500.1006	10S	3/8"
	544501.1206	12S	3/8"		544500.1206	12S	3/8"
	544501.1208	12S	1/2"		544500.1208	12S	1/2"
	544501.1406	14S	3/8"		544500.1406	14S	3/8"
	544501.1408	14L	1/2"		544500.1408	14L	1/2"
	544501.1606	16L	3/8"		544500.1606	16L	3/8"
	544501.1608	16L	1/2"		544500.1608	16L	1/2"
	544501.2008	20L	1/2"		544500.2008	20L	1/2"
	544501.2012	20L	3/4"		544500.2012	20L	3/4"
	544501.2512	25L	3/4"		544500.2512	25L	3/4"
	544501.2516	25L	1"		544500.2516	25L	1"
	544501.3016	30L	1"		544500.3016	30L	1"
	544501.3020	30L	1.1/4"		544500.3020	30L	1.1/4"
	544501.3824	38L	1.1/2"		544500.3824	38L	1.1/2"



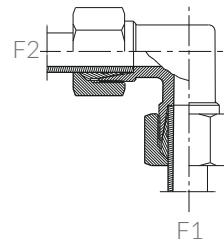
**JOELHO  
PASSA-PAREDES  
BULKHEAD ELBOW**

CÓDIGO CODE	F1	F2
540350.06	12X1,5	12X1,5
540350.08	14X1,5	14X1,5
540350.10	16X1,5	16X1,5
540350.12	18X1,5	18X1,5
540350.15	22X1,5	22X1,5
540350.18	26X1,5	26X1,5
540350.22	30X2	30X2
540350.28	36X2	36X2
540350.35	45X2	45X2
540350.42	52X2	52X2
540352.06	14X1,5	14X1,5
540352.08	16X1,5	16X1,5
540352.10	18X1,5	18X1,5
540352.12	20X1,5	20X1,5
540352.14	22X1,5	22X1,5
540352.16	24X1,5	24X1,5
540352.20	30X2	30X2
540352.25	36X2	36X2
540352.30	42X2	42X2
540352.38	52X2	52X2



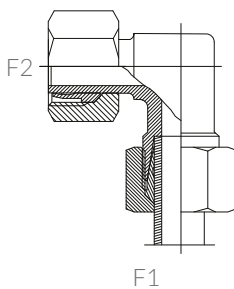
**JOELHO  
TUBO-TUBO  
EQUAL ELBOW**

CÓDIGO CODE	F1	F2
540800.06	06L	06L
540800.08	08L	08L
540800.10	10L	10L
540800.12	12L	12L
540800.15	15L	15L
540800.18	18L	18L
540800.22	22L	22L
540800.28	28L	28L
540800.35	35L	35L
540800.42	42L	42L
541000.06	06S	06S
541000.08	08S	08S
541000.10	10S	10S
541000.12	12S	12S
541000.14	14S	14S
541000.16	16S	16S
541000.20	20S	20S
541000.25	25S	25S
541000.30	30S	30S
541000.38	38S	38S



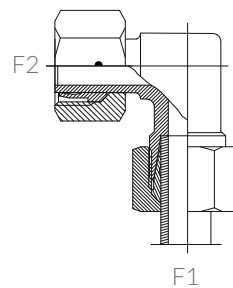
**JOELHO  
ORIENTÁVEL  
ANGULAR ROTARY  
FITTING**

CÓDIGO CODE	F1	F2
541800.0606	06L	06L
541800.0808	08L	08L
541800.1010	10L	10L
541800.1212	12L	12L
541800.1515	15L	15L
541800.1818	18L	18L
541800.2222	22L	22L
541800.2828	28L	28L
541800.3535	35L	35L
541800.4242	42L	42L
542000.0606	06S	06S
542000.0808	08S	08S
542000.1010	10S	10S
542000.1212	12S	12S
542000.1414	14S	14S
542000.1616	16S	16S
542000.2020	20S	20S
542000.2525	25S	25S
542000.3030	30S	30S
542000.3838	38S	38S



**JOELHO  
ORIENTÁVEL  
COM FREIO  
ANGULAR ROTARY  
FITTING WITH  
O-RING SEAL**

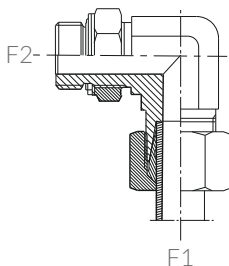
CÓDIGO CODE	F1	F2
541801.0606	06L	06L
541801.0808	08L	08L
541801.1010	10L	10L
541801.1212	12L	12L
541801.1515	15L	15L
541801.1818	18L	18L
541801.2222	22L	22L
541801.2828	28L	28L
541801.3535	35L	35L
541801.4242	42L	42L
542001.0606	06S	06S
542001.0808	08S	08S
542001.1010	10S	10S
542001.1212	12S	12S
542001.1414	14S	14S
542001.1616	16S	16S
542001.2020	20S	20S
542001.2525	25S	25S
542001.3030	30S	30S
542001.3838	38S	38S



DIN 2353 24°

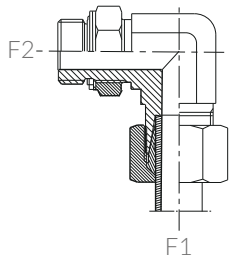
**JOELHO TUBO-ROSCA ORIENTÁVEL**  
ANGULAR ROTARY FITTING WITH BULKHEAD NUT

CÓDIGO CODE	F1	F2
544510.0602	06L	1/8"
544510.0804	08L	1/4"
544510.1004	10L	1/4"
544510.1206	12L	3/8"
544510.1508	15L	1/2"
544510.1808	18L	1/2"
544510.2212	22L	3/4"
544510.2816	28L	1"
544510.3520	35L	1.1/4"
544510.4224	42L	1.1/2"
544511.0604	06S	1/4"
544511.0804	08S	1/4"
544511.1006	10S	3/8"
544511.1206	12S	3/8"
544511.1408	14S	1/2"
544511.1608	16S	1/2"
544511.2012	20S	3/4"
544511.2516	25S	1"
544511.3020	30S	1.1/4"
544511.3824	38S	1.1/2"



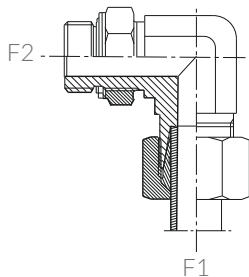
**JOELHO TUBO-ROSCA UNF ORIENTÁVEL**  
ANGULAR ROTARY FITTING WITH BULKHEAD NUT

CÓDIGO CODE	F1	F2
544102.0604	06L	7/16"
544102.0804	08L	7/16"
544102.1006	10L	9/16"
544102.1206	12L	9/16"
544102.1208	12L	3/4"
544102.1508	15L	3/4"
544102.1510	15L	7/8"
544102.1810	18L	7/8"
544102.1812	18L	1.1/16"
544102.2212	22L	1.1/16"
544102.2816	28L	1.5/16"
544102.3520	35L	1.5/8"
544102.4224	42L	1.7/8"
544103.0604	06S	7/16"
544103.0806	08S	9/16"
544103.1006	10S	9/16"
544103.1208	12S	3/4"
544103.1410	14S	7/8"
544103.1610	16S	7/8"
544103.2012	20S	1.1/16"
544103.2512	25S	1.1/16"
544103.3020	30S	1.5/8"
544103.3824	38S	1.7/8"



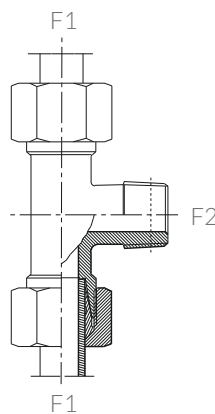
**JOELHO TUBO-ROSCA MÉTRICO ORIENTÁVEL**  
METRIC ANGULAR ROTARY FITTING WITH BULKHEAD NUT WITH O-RING SEAL

CÓDIGO CODE	F1	F2
544104.0610	06L	10X1
544104.0812	08L	12X1,5
544104.1014	10L	14X1,5
544104.1216	12L	16X1,5
544104.1518	15L	18X1,5
544104.1822	18L	22X1,5
544104.2227	22L	27X2
544104.2833	28L	33X2
544104.3542	35L	42X2
544104.4248	42L	48X2
544105.0612	06S	12X1,5
544105.0814	08S	14X1,5
544105.1016	10S	16X1,5
544105.1218	12S	18X1,5
544105.1622	16S	22X1,5
544105.2027	20S	27X2
544105.2533	25S	33X2
544105.3042	30S	42X2
544105.3848	38S	48X2



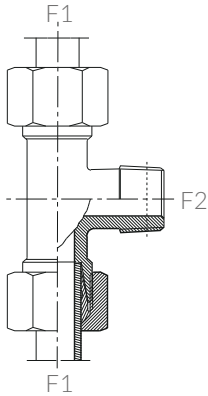
**T TUBO-ROSCA CENTRAL BSPT**  
BSPT STUD BRANCH "T"

CÓDIGO CODE	F1	F2
541510.0602	06L	1/8"
541510.0804	08L	1/4"
541510.1004	10L	1/4"
541510.1206	12L	3/8"
541510.1508	15L	1/2"
541510.1808	18L	1/2"
541510.2212	22L	3/4"
541510.2816	28L	1"
541510.3520	35L	1.1/4"
541510.4224	42L	1.1/2"
541511.0604	06S	1/4"
541511.0804	08S	1/4"
541511.1006	10S	3/8"
541511.1206	12S	3/8"
541511.1408	14S	1/2"
541511.1608	16S	1/2"
541511.2012	20S	3/4"
541511.2516	25S	1"
541511.3020	30S	1.1/4"
541511.3824	38S	1.1/2"



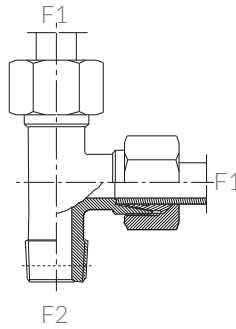
**T TUBO ROSCA CENTRAL NPT**  
NPT STUD BRANCH "T"

CÓDIGO CODE	F1	F2
541512.0602	06L	1/8"
541512.0804	08L	1/4"
541512.1004	10L	1/4"
541512.1206	12L	3/8"
541512.1508	15L	1/2"
541512.1808	18L	1/2"
541512.2212	22L	3/4"
541512.2816	28L	1"
541512.3520	35L	1.1/4"
541512.4224	42L	1.1/2"
541513.0604	06S	1/4"
541513.0804	08S	1/4"
541513.1006	10S	3/8"
541513.1206	12S	3/8"
541513.1408	14S	1/2"
541513.1608	16S	1/2"
541513.2012	20S	3/4"
541513.2516	25S	1"
541513.3020	30S	1.1/4"
541513.3824	38S	1.1/2"



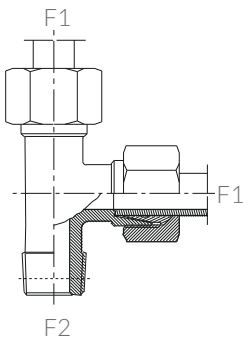
**T TUBO ROSCA LATERAL BSPT**  
STUD BARREL "T"

CÓDIGO CODE	F1	F2
541520.0602	06L	1/8"
541520.0804	08L	1/4"
541520.1004	10L	1/4"
541520.1206	12L	3/8"
541520.1508	15L	1/2"
541520.1808	18L	1/2"
541520.2212	22L	3/4"
541520.2816	28L	1"
541520.3520	35L	1.1/4"
541520.4224	42L	1.1/2"
541521.0604	06S	1/4"
541521.0804	08S	1/4"
541521.1006	10S	3/8"
541521.1206	12S	3/8"
541521.1408	14S	1/2"
541521.1608	16S	1/2"
541521.2012	20S	3/4"
541521.2516	25S	1"
541521.3020	30S	1.1/4"
541521.3824	38S	1.1/2"



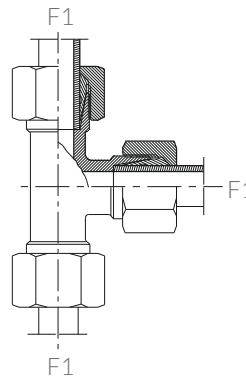
**T TUBO ROSCA LATERAL NPT**  
NPT STUD BARREL "T"

CÓDIGO CODE	F1	F2
541522.0602	06L	1/8"
541522.0804	08L	1/4"
541522.1004	10L	1/4"
541522.1206	12L	3/8"
541522.1508	15L	1/2"
541522.1808	18L	1/2"
541522.2212	22L	3/4"
541522.2816	28L	1"
541522.3520	35L	1.1/4"
541522.4224	42L	1.1/2"
541523.0604	06S	1/4"
541523.0804	08S	1/4"
541523.1006	10S	3/8"
541523.1206	12S	3/8"
541523.1408	14S	1/2"
541523.1608	16S	1/2"
541523.2012	20S	3/4"
541523.2516	25S	1"
541523.3020	30S	1.1/4"
541523.3824	38S	1.1/2"



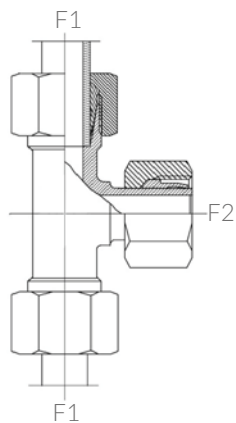
**T TUBO-TUBO EQUAL "T"**

CÓDIGO CODE	F1
541200.0606	06L
541200.0808	08L
541200.1010	10L
541200.1212	12L
541200.1515	15L
541200.1818	18L
541200.2222	22L
541200.2828	28L
541200.3535	35L
541200.4242	42L
541523.0604	06S
541523.0804	08S
541523.1006	10S
541523.1206	12S
541523.1408	14S
541523.1608	16S
541523.2012	20S
541523.2516	25S
541523.3020	30S
541523.3824	38S

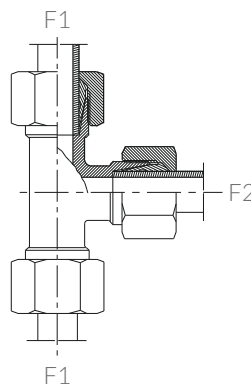


\* Todos os artigos disponíveis em AISI 316.  
\* All items available in AISI 316.

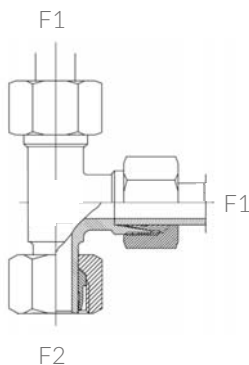
DIN 2353 24°

**T ORIENTÁVEL  
CENTRAL**  
"T" ROTARY FITTING

CÓDIGO CODE	F1	F2
541505.0606	06L	06L
541505.0808	08L	08L
541505.1010	10L	10L
541505.1212	12L	12L
541505.1515	15L	15L
541505.1818	18L	18L
541505.2222	22L	22L
541505.2828	28L	28L
541505.3535	35L	35L
541505.4242	42L	42L
541506.0606	06S	06S
541506.0808	08S	08S
541506.1010	10S	10S
541506.1212	12S	12S
541506.1414	14S	14S
541506.1616	16S	16S
541506.2020	20S	20S
541506.2525	25S	25S
541506.3030	30S	30S
541506.3838	38S	38S

**T REDUÇÃO  
REDUCED "T"**

CÓDIGO CODE	F1	F2
541530.0608	06L	08L
541530.0806	08L	06L
541530.0610	06L	10L
541530.0810	08L	10L
541530.1006	10L	06L
541530.1008	10L	08L
541530.0812	08L	12L
541530.1206	12L	06L
541530.1208	12L	08L
541530.1210	12L	10L
541530.1015	10L	15L
541530.1215	12L	15L
541530.1506	15L	06L
541530.1510	15L	10L
541530.1512	15L	12L
541530.1218	12L	18L
541530.1810	18L	10L
541530.1812	18L	12L
541530.1815	18L	15L
541530.2210	22L	10L
541530.2212	22S	12S
541530.2215	22L	15L
541530.2218	22L	18L
541530.2810	28L	10L
541530.2812	28L	12L
541530.2815	28L	15L
541530.2818	28L	18L
541530.2822	28L	22L

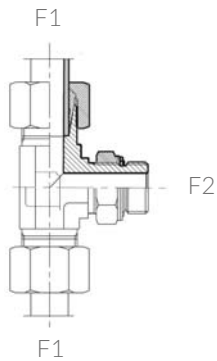
**T ORIENTÁVEL  
LATERAL**  
"T" ROTARY FITTING

CÓDIGO CODE	F1	F2
541504.0606	06L	06L
541504.0808	08L	08L
541504.1010	10L	10L
541504.1212	12L	12L
541504.1515	15L	15L
541504.1818	18L	18L
541504.2222	22L	22L
541504.2828	28L	28L
541504.3535	35L	35L
541504.4242	42L	42L
541504.0606S	06S	06S
541504.0808S	08S	08S
541504.1010S	10S	10S
541504.1212S	12S	12S
541504.1414S	14S	14S
541504.1616S	16S	16S
541504.2020S	20S	20S
541504.2525S	25S	25S
541504.3030S	30S	30S
541504.3838S	38S	38S

541531.1006	10S	06S
541531.1208	12S	08S
541531.1210	12S	10S
541531.1216	12S	16S
541531.1606	16S	06S
541531.1608	16S	08S
541531.1610	16S	10S
541531.1612	28L	12L
541531.1620	16S	20S
541531.2010	20S	10S
541531.2012	20S	12S
541531.2016	20S	16S
541531.2025	20S	25S
541531.2516	25S	16S
541531.2520	25S	20S
541531.2530	25S	30S

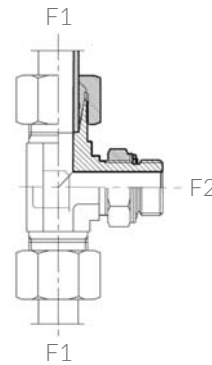


**T ORIENTÁVEL  
CENTRAL BSP  
BSP "T" ROTARY  
FITTING WITH  
BULKHEAD NUT**



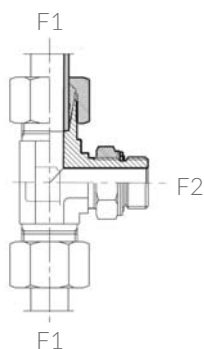
CÓDIGO CODE	F1	F2
541535.0602	06L	1/8"
541535.0804	08L	1/4"
541535.1004	10L	1/4"
541535.1206	12L	3/8"
541535.1508	15L	1/2"
541535.1808	18L	1/2"
541535.2212	22L	3/4"
541535.2816	28L	1"
541535.3520	35L	1.1/4"
541535.4224	42L	1.1/2"
541536.0604	06S	1/4"
541536.0804	08S	1/4"
541536.1006	10S	3/8"
541536.1206	12S	3/8"
541536.1408	14S	1/2"
541536.1608	16S	1/2"
541536.2012	20S	3/4"
541536.2516	25S	1"
541536.3020	30S	1.1/4"
541536.3824	38S	1.1/2"

**T ORIENTÁVEL  
CENTRAL UNF  
UNF "T" ROTARY  
FITTING WITH  
BULKHEAD NUT**



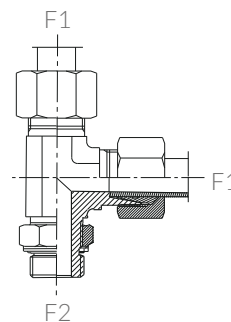
CÓDIGO CODE	F1	F2
541537.0604	06L	7/16"
541537.0804	08L	7/16"
541537.1006	10L	9/16"
541537.1206	12L	9/16"
541537.1208	12L	3/4"
541537.1508	15L	3/4"
541537.1510	15L	7/8"
541537.1810	18L	7/8"
541537.1812	18L	1.1/16"
541537.2212	22L	1.1/16"
541537.2816	28L	1.5/16"
541537.3520	35L	1.5/8"
541537.4224	42L	1.7/8"
541538.0604	06S	7/16"
541538.0806	08S	9/16"
541538.1006	10S	9/16"
541538.1208	12S	3/4"
541538.1410	14S	7/8"
541538.1610	16S	7/8"
541538.2012	20S	1.1/16"
541538.2516	25S	1.5/16"
541538.3020	30S	1.5/8"
541538.3824	38S	1.7/8"

**T ORIENTÁVEL  
CENTRAL MÉTRICO  
"T" ROTARY FITTING  
WITH BULKHEAD NUT**



CÓDIGO CODE	F1	F2
541539.0610	06L	10X1
541539.0812	08L	12X1,5
541539.1014	10L	14X1,5
541539.1216	12L	16X1,5
541539.1518	15L	18X1,5
541539.1822	18L	22X1,5
541539.2227	22L	27X2
541539.2833	28L	33X2
541539.3542	35L	42X2
541539.4248	42L	48X2
541540.0612	06S	12X1,5
541540.0814	08S	14X1,5
541540.1016	10S	16X1,5
541540.1218	12S	18X1,5
541540.1622	16S	22X1,5
541540.2027	20S	27X2
541540.2533	25S	33X2
541540.3042	30S	42X2
541540.3848	38S	48X2

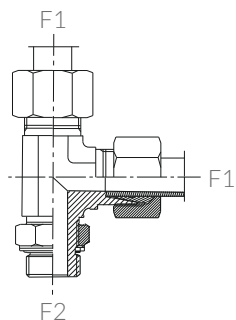
**T ORIENTÁVEL  
CENTRAL BSP  
"T" ROTARY BSP  
FITTING WITH  
BULKHEAD NUT**



CÓDIGO CODE	F1	F2
541543.0602	06L	1/8"
541543.0804	08L	1/4"
541543.1004	10L	1/4"
541543.1206	12L	3/8"
541543.1508	15L	1/2"
541543.1808	18L	1/2"
541543.2212	22L	3/4"
541543.2816	28L	1"
541543.3520	35L	1.1/4"
541543.4224	42L	1.1/2"
541544.0604	06S	1/4"
541544.0804	08S	1/4"
541544.1006	10S	3/8"
541544.1206	12S	3/8"
541544.1408	16S	1/2"
541544.1608	20S	1/2"
541544.2012	25S	3/4"
541544.2516	25S	1"
541544.3020	30S	1.1/4"
541544.3824	38S	1.1/2"

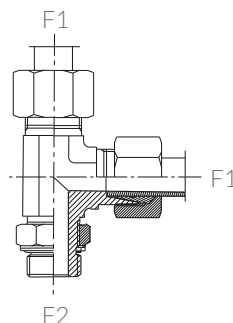
DIN 2353 24°

**T ORIENTÁVEL  
CENTRAL UNF  
"T" ROTARY UNF  
FITTING WITH  
BULKHEAD NUT**



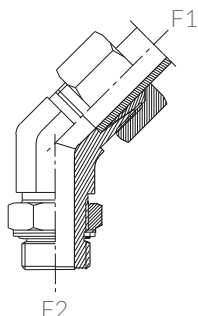
CÓDIGO CODE	F1	F2
541545.0604	06L	7/16"
541545.0804	08L	7/16"
541545.1006	10L	9/16"
541545.1206	12L	9/16"
541545.1208	12L	3/4"
541545.1508	15L	3/4"
541545.1510	15L	7/8"
541545.1810	18L	7/8"
541545.1812	18L	1.1/16"
541545.2212	22L	1.1/16"
541545.2816	28L	1.5/16"
541545.3520	35L	1.5/8"
541545.4224	42L	1.7/8"
541546.0604	06S	7/16"
541546.0806	08S	9/16"
541546.1006	10S	9/16"
541546.1208	12S	3/4"
541546.1410	14S	7/8"
541546.1610	16S	7/8"
541546.2012	20S	1.1/16"
541546.2516	25S	1.5/16"
541546.3020	30S	1.5/8"
541546.3824	38S	1.7/8"

**T ORIENTÁVEL  
LATERAL MÉTRICO  
METRIC "T"  
ROTARY FITTING WITH  
BULKHEAD NUT**



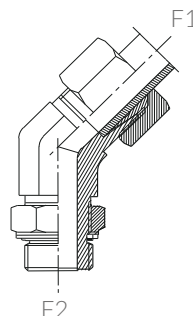
CÓDIGO CODE	F1	F2
541547.0610	06L	10X1
541547.0812	08L	12X1,5
541547.1014	10L	14X1,5
541547.1216	12L	16X1,5
541547.1518	15L	18X1,5
541547.1822	18L	22X1,5
541547.2227	22L	27X2
541547.2833	28L	33X2
541547.3542	35L	42X2
541547.4248	42L	48X2
541548.0612	06S	12X1,5
541548.0814	08S	14X1,5
541548.1016	10S	16X1,5
541548.1218	12S	18X1,5
541548.1622	16S	22X1,5
541548.2027	20S	27X2
541548.2533	25S	33X2
541548.3042	30S	42X2
541548.3848	38S	48X2

**JOELHO 45° TUBO  
ROSCA ORIENTÁVEL  
BSP  
ROTARY 45° FITTING  
WITH BSP BULKHEAD  
NUT**



CÓDIGO CODE	F1	F2
541855.0602	06L	1/8"
541855.0804	08L	1/4"
541855.1004	10L	1/4"
541855.1206	12L	3/8"
541855.1508	15L	1/2"
541855.1808	18L	1/2"
541855.2212	22L	3/4"
541855.2816	28L	1"
541855.3520	35L	1.1/4"
541855.4224	42L	1.1/2"
541856.0604	06S	1/4"
541856.0804	08S	1/4"
541856.1006	10S	3/8"
541856.1206	12S	3/8"
541856.1408	14S	1/2"
541856.1608	16S	1/2"
541856.2012	20S	3/4"
541856.2516	25S	1"
541856.3020	30S	1.1/4"
541856.3824	38S	1.1/2"

**JOELHO 45° TUBO  
ROSCA ORIENTÁVEL  
MÉTRICO  
ROTARY 45°  
FITTING WITH METRIC  
BULKHEAD NUT**



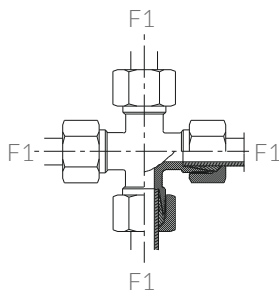
CÓDIGO CODE	F1	F2
541859.0610	06L	10X1
541859.0812	08L	12X1,5
541859.1014	10L	14X1,5
541859.1216	12L	16X1,5
541859.1518	15L	18X1,5
541859.1822	18L	22X1,5
541859.2227	22L	27X2
541859.2833	28L	33X2
541859.3542	35L	42X2
541859.4248	42L	48X2
541860.0612	06S	12X1,5
541860.0814	08S	14X1,5
541860.1016	10S	16X1,5
541860.1218	12S	18X1,5
541860.1622	16S	22X1,5
541860.2027	20S	27X2
541860.2533	25S	33X2
541860.3042	30S	42X2
541860.3848	38S	48X2

**CRUZETA**  
EQUAL CROSS

**CÓDIGO**  
CODE

**F1**

540000.0606	06L
540000.0808	08L
540000.1010	10L
540000.1212	12L
540000.1515	15L
540000.1818	18L
540000.2222	22L
540000.2828	28L
540000.3535	35L
540000.4242	42L
540001.0606	06S
540001.0808	08S
540001.1010	10S
540001.1212	12S
540001.1414	14S
540001.1616	16S
540001.2020	20S
540001.2525	25S
540001.3030	30S
540001.3838	38S



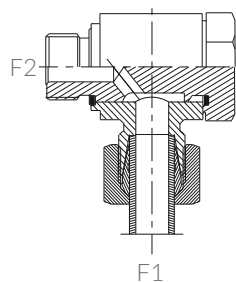
**JOELHO BANJO BSP**  
BSP BANJO

**CÓDIGO**  
CODE

**F1**

**F2**

541700.0602	06L	1/8"
541700.0804	08L	1/4"
541700.1004	10L	1/4"
541700.1206	12L	3/8"
541700.1508	15L	1/2"
541700.1808	18L	1/2"
541700.2212	22L	3/4"
541700.2816	28L	1"
541700.3520	35L	1.1/4"
541700.4224	42L	1.1/2"
541710.0604	06S	1/4"
541710.0804	08S	1/4"
541710.1006	10S	3/8"
541710.1206	12S	3/8"
541710.1408	14S	1/2"
541710.1608	16S	1/2"
541710.2012	20S	3/4"
541710.2516	25S	1"
541710.3020	30S	1.1/4"
541710.3824	38S	1.1/2"



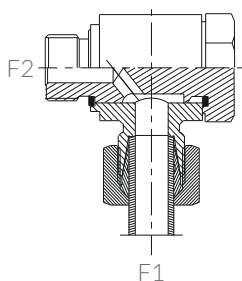
**JOELHO BANJO MÉTRICO**  
METRIC BANJO

**CÓDIGO**  
CODE

**F1**

**F2**

541730.0610	06L	10X1
541730.0812	08L	12X1,5
541730.1014	10L	14X1,5
541730.1216	12L	16X1,5
541730.1518	15L	18X1,5
541730.1822	18L	22X1,5
541730.2226	22L	26X1,5
541730.2833	28L	33X2
541730.3542	35L	42X2
541730.4248	42L	48X2
541735.0612	06S	12X1,5
541735.0814	08S	14X1,5
541735.1016	10S	16X1,5
541735.1218	12S	18X1,5
541735.1420	14S	20X1,5
541735.1622	16S	22X1,5
541735.2027	20S	27X2
541735.2533	25S	33X2
541735.3042	30S	42X2
541735.3848	38S	48X2



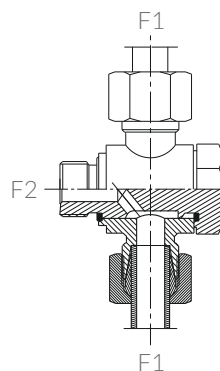
**T BANJO BSP**  
DOUBLE ORIENTABLE  
FITTING

**CÓDIGO**  
CODE

**F1**

**F2**

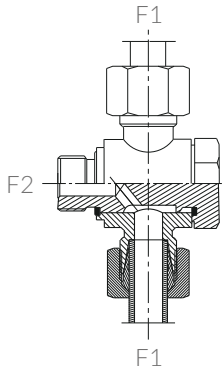
541740.0602	06L	1/8"
541740.0804	08L	1/4"
541740.1004	10L	1/4"
541740.1206	12L	3/8"
541740.1508	15L	1/2"
541740.1808	18L	1/2"
541740.2212	22L	3/4"
541740.2816	28L	1"
541740.3520	35L	1.1/4"
541740.4224	42L	1.1/2"
541735.0612	06S	1/4"
541735.0814	08S	1/4"
541735.1016	10S	3/8"
541735.1218	12S	3/8"
541735.1420	14S	1/2"
541735.1622	16S	1/2"
541735.2027	20S	3/4"
541735.2533	25S	1"
541735.3042	30S	1.1/4"
541735.3848	38S	1.1/2"



DIN 2353 24°

**T BANJO MÉTRICO**  
DOUBLE ORIENTABLE  
FITTING

**CÓDIGO**  
CODE

**F1****F2**

541750.0610	12X1,5	10X1
541750.0812	14X1,5	12X1,5
541750.1014	16X1,5	14X1,5
541750.1216	18X1,5	16X1,5
541750.1518	22X1,5	18X1,5
541750.1822	26X1,5	22X1,5
541750.2226	30X2	26X1,5
541750.2833	36X2	33X2
541750.3542	45X2	42X2
541750.4248	52X2	48X2
541755.0612	14X1,5	12X1,5
541755.0814	16X1,5	14X1,5
541755.1016	18X1,5	16X1,5
541755.1218	20X1,5	18X1,5
541755.1420	22X1,5	20X1,5
541755.1622	24X1,5	22X1,5
541755.2027	30X2	27X2
541755.2533	36X2	33X2
541755.3042	42X2	42X2
541755.3848	52X2	48X2