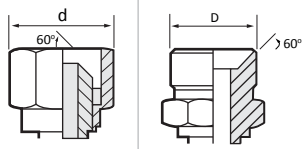
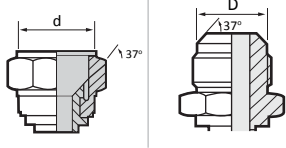


ROSCA BSP



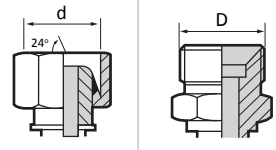
ROSCA	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"				
d (mm)	08.60	11.60	15.10	18.90	20.90	24.40	30.60	39.30	45.10	56.70				
D (mm)	09.73	13.16	16.66	21.96	22.91	26.44	33.25	41.91	47.80	59.60				
FIOS	28	19	19	14	14	14	11	11	11	11				

ROSCA JIC/SAE



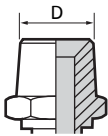
ROSCA	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1.1/16"	1.1/16"	1.3/16"	1.5/16"	1.5/8"	1.7/8"	2.1/2"
d (mm)	10.00	11.60	13.00	14.70	17.60	20.50	25.00	25.30	27.95	31.30	39.20	45.00	61.50
D (mm)	11.07	12.70	14.25	15.85	19.00	22.17	26.95	26.95	30.12	33.30	41.22	47.27	63.45
FIOS	20	20	18	18	16	14	12	14	12	12	12	12	12

ROSCA MÉTRICA



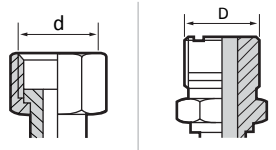
ROSCA	M10x1.0	M12x1.5	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5	M26x1.5	M30x2.0	M36x2.0	M42x2.0	M45x2.0	M52x2.0
d (mm)	09.00	10.50	12.50	14.50	16.50	18.50	20.50	22.50	24.50	28.00	34.00	40.00	43.00	50.00
D (mm)	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	30.00	36.00	42.00	45.00	52.00
Ø TUBO L(MM)	4	6	8	10	12	-	15	-	18	22	28	-	35	42
Ø TUBO S(MM)	-	-	6	8	10	12	14	16	-	20	25	30	-	38

ROSCA NPT



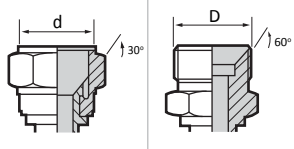
ROSCA	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"				
D (mm)	10.00	13.60	17.00	21.00	26.00	33.50	42.10	47.80	59.60				
FIOS	27	18	18	14	14	11 1/2"	11 1/2"	11 1/2"	11 1/2"				

ROSCA ORFS



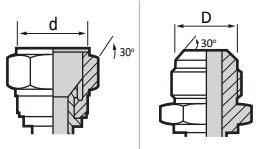
ROSCA	9/16"	11/16"	13/16"	1"	1.3/16"	1.7/16"	1.11/16"	2"					
d (mm)	12.70	15.87	19.05	23.81	27.78	34.13	40.48	48.41					
D (mm)	14.28	17.46	20.63	25.40	30.16	36.51	42.86	50.80					
FIOS	18	16	16	14	12	12	12	12					

ROSCA JIS (MÉTRICA)



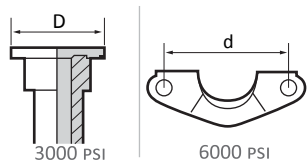
ROSCA	M14x1.5	M16x1.5	M18x1.5	M22x1.5	M24x1.5	M30x1.5	M33x1.5	M42x1.5					
d (mm)	12.5	14.5	16.4	20.5	22.5	28.5	31.5	40.5					
D (mm)	14	16	18	22	24	30	33	42					
FIOS	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5					

ROSCA JIS (BSP)



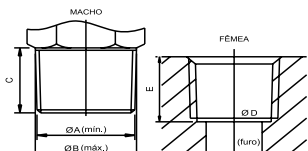
ROSCA	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"			
d (mm)	08.70	11.70	15.15	18.80	20.90	24.30	30.60	39.30	45.15	57.00			
D (mm)	09.72	13.20	16.70	21.00	22.90	26.40	33.24	41.90	47.80	59.60			
FIOS	28	19	19	14	14	14	11	11	11	11			

FLANGES



d (mm)	1/2" - 30.16	3/4" - 36.10	1" - 44.45	1.1/4" - 50.80	1.1/2" - 60.32	2" - 71.43
D (mm)	38.18	47.62	52.38	58.73	69.85	77.78
d (mm)	1/2" - 31.75	3/4" - 41.27	1" - 47.62	1.1/4" - 53.97	1.1/2" - 63.50	2" - 79.37
D (mm)	40.48	50.80	57.15	66.67	79.37	96.83

ROSCA BSPT



ROSCA	1/8 BSPT	1/4 BSPT	3/8 BSPT	1/2 BSPT	3/4 BSPT	1 BSPT
FIOS P/ POL.	28	19	19	14	14	11
O A (MIN.)	09.4	12.7	16.2	20.3	25.7	32.5
O B (MÁX.)	09.8	13.4	16.8	21.1	26.7	33.5
C	09.0	13.5	13.5	18.0	18.0	18.0
O D (FURO)	08.8	11.8	15.3	19.0	24.5	30.8
E	09.0	13.5	13.5	18.0	18.0	18.0