



Estas guarniciones se diferencian por estar realizadas en elastómeros a base de poliuretanos. Por lo tanto resuelven problemas de tenuta en pistones y cilindros hidráulicos. Su buena deformabilidad elástica permite ante presencia de vibraciones un buen deslizamiento, soportando presiones de hasta 300 kg/cm² y temperaturas hasta 80°C continuos.

Estas gaxetas se diferenciam por serem desenvolvidas em elastômeros a base de poliuretano, portanto, resolvem problemas de retenção em pistões e cilindros hidráulicos. Sua boa flexibilidade elástica permite a presença de vibrações e um bom deslizamento suportando pressões de até 300 kg/cm² e temperaturas de até 80°C contínuos.

This seal differs for being made in elastomers in base of polyurethanes. So it solves retention problems in pistons and hydraulic cylinders. Besides its property of stretch deforming, allows a good slipping in presence of vibrations, supporting working pressures up to 300 kg/cm² and working temperatures up to 80°C continuous, reducing the slow waste.

ESPAÑOL

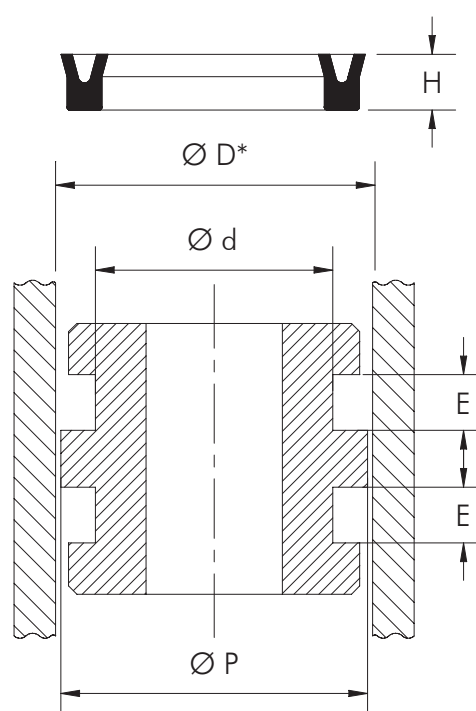
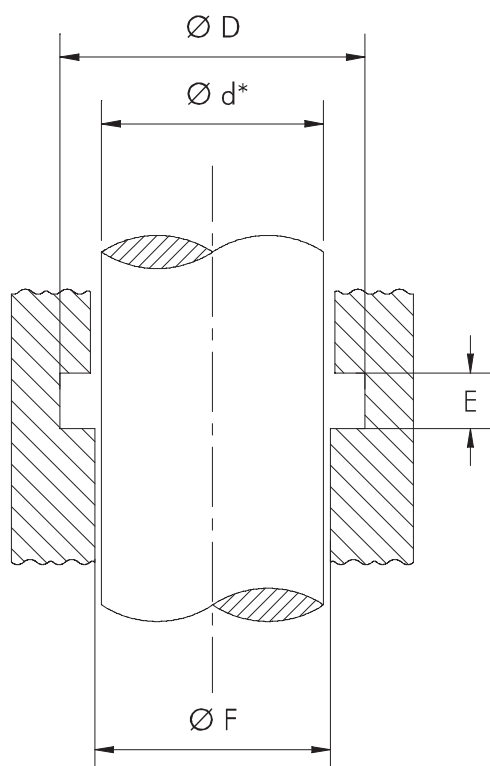
PORTUGUES

ENGLISH

Tabla de Alojamientos y Tolerancias

Tabela de Alojamentos e Tolerâncias / Tolerances and Grooves Chart

Ø D Nominal	D	d	D*	d*	E Alojamiento Alojamento Groove	F Tolerancia máx. Tolerância máx. Greatest Tolerance	P Diámetro del Pistón Diâmetro do Pistão Greatest Tolerance
0 + 50	± 0,04		Diámetro del Vástago Diâmetro do haste Rod Diameter Diámetro del Cilindro Diâmetro do Cilindro Cylinder Diameter		H + 10%	d* máx. + 0,2	D* mín. -0,2
51 + 100	± 0,06						
más de 100 mais de 100 more than 100	± 0,08						



Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm
4,0	10,0	4,0	18,0	30,0	10,0	28,0	40,0	10,0	40,0	50,0	6,0	50,8	76,2	15,0
4,0	11,0	5,0	18,0	30,0	10,0	28,0	46,0	12,0	40,0	50,0	7,0	51,0	58,0	13,0
4,0	12,0	6,0	18,0	38,0	13,0	28,0	47,0	11,0	40,0	50,0	9,8	52,0	60,0	8,0
4,9	10,9	4,0	18,5	26,0	5,4	28,0	50,8	12,0	40,0	50,0	10,0	52,0	67,0	10,0
6,0	11,5	3,5	19,0	28,0	10,0	29,0	43,0	10,0	40,0	52,0	6,0	53,0	63,0	10,0
6,0	16,0	5,7	19,0	32,5	7,0	30,0	40,0	6,0	40,0	55,0	12,0	53,0	73,0	13,0
6,3	12,7	6,3	19,5	37,1	12,0	30,0	40,0	9,0	40,0	56,0	12,0	53,0	75,0	15,0
8,0	15,8	6,0	20,0	26,0	7,0	30,0	42,0	10,0	40,0	58,0	12,0	53,5	63,0	10,0
8,0	22,0	10,0	20,0	28,0	4,0	30,0	45,0	10,0	40,0	60,0	13,0	53,9	66,6	9,5
9,0	16,0	6,5	20,0	30,0	10,0	30,0	47,5	12,0	40,0	65,0	13,0	54,0	76,2	15,0
9,5	16,5	4,0	20,0	32,0	10,0	30,0	50,0	13,0	40,0	75,0	10,6	54,0	78,0	15,0
9,5	16,5	6,0	20,0	36,0	10,0	31,7	40,0	10,0	40,0	50,0	7,5	54,2	69,8	10,0
11,0	28,4	8,5	20,1	28,5	8,0	31,7	41,2	10,0	41,7	50,8	10,0	54,9	63,5	13,0
11,0	30,0	7,0	21,0	34,9	10,0	31,7	44,4	6,3	42,5	57,5	10,0	55,0	65,0	13,0
12,0	17,0	3,7	21,0	40,0	12,0	31,7	44,4	10,0	44,0	36,0	6,0	55,0	66,0	13,0
12,0	18,0	6,0	22,0	30,0	8,0	32,0	40,0	5,5	44,4	53,9	6,3	55,0	70,0	13,0
12,0	20,0	6,0	22,0	35,0	10,0	32,0	42,0	7,0	44,4	53,9	7,0	55,0	75,0	13,0
12,0	22,0	7,0	22,0	42,0	10,0	32,0	45,0	10,0	44,4	55,6	9,0	55,0	76,0	13,0
12,0	25,0	9,0	22,2	28,5	7,0	32,0	47,0	10,0	44,4	57,1	9,5	55,0	80,0	15,0
13,0	22,0	7,0	22,2	31,8	7,9	32,0	48,0	10,0	44,4	57,1	10,0	55,5	64,0	8,0
14,0	20,8	7,0	23,8	33,3	7,0	32,5	40,0	10,0	44,4	63,5	10,0	56,0	66,0	7,5
14,0	22,0	3,0	24,0	30,0	6,0	34,9	42,8	7,0	45,0	54,0	9,0	56,0	72,5	12,0
14,0	22,0	5,0	24,0	32,0	6,0	34,9	42,8	10,0	45,0	55,0	6,3	56,0	76,0	13,0
14,0	22,2	9,0	24,0	32,0	9,0	34,9	44,4	10,0	45,0	55,0	7,0	56,0	78,0	13,0
14,0	25,0	10,0	24,0	37,0	6,0	35,0	41,0	10,0	45,0	55,0	10,0	56,0	83,0	15,0
14,0	30,0	12,0	24,0	40,0	11,0	35,0	45,0	6,0	45,0	60,0	8,0	57,0	72,0	12,0
14,3	18,7	3,2	24,0	43,0	8,3	35,0	45,0	9,0	45,0	65,0	12,0	57,0	74,0	14,0
15,0	19,3	7,0	25,0	31,0	3,0	35,0	50,0	10,0	46,0	60,0	10,0	57,0	84,0	15,0
15,0	20,0	7,0	25,0	33,0	6,0	35,0	55,0	10,0	47,0	60,0	10,0	57,1	65,4	5,3
15,0	25,0	10,0	25,0	35,0	10,0	36,0	70,0	10,0	47,0	74,0	15,0	57,1	66,5	12,0
15,0	25,0	12,0	25,0	35,7	4,0	36,5	54,4	12,0	47,6	57,1	7,9	57,1	68,3	9,5
15,0	29,0	10,0	25,0	40,0	10,0	37,0	46,0	12,0	47,6	57,1	9,0	57,1	68,3	12,0
15,0	30,0	8,0	25,4	31,7	7,0	37,0	47,0	10,0	47,6	73,0	15,0	57,1	76,2	13,0
16,0	22,0	7,0	25,4	33,3	5,5	37,0	47,0	8,0	48,0	63,5	12,0	57,1	76,2	15,8
16,0	23,0	7,0	25,4	33,3	7,0	38,0	50,0	10,0	48,0	70,0	15,0	57,1	77,8	13,0
16,0	24,0	5,5	25,4	34,9	7,9	38,0	53,0	10,0	48,0	72,4	15,0	57,9	77,9	12,0
16,3	25,4	7,0	25,4	38,1	10,0	38,0	54,0	12,0	49,0	74,0	15,0	58,0	72,0	13,0
16,3	33,3	12,0	25,4	44,4	12,0	38,0	58,0	10,0	50,0	58,0	8,0	58,0	80,0	14,0
17,0	25,0	9,5	26,0	32,0	3,0	38,0	58,0	13,0	50,0	60,0	6,0	58,7	87,3	13,0
17,5	26,0	5,0	26,0	47,0	11,0	38,1	47,0	9,0	50,0	60,0	7,0	59,0	69,0	13,0
18,0	25,0	4,5	26,0	47,0	13,0	38,1	47,6	6,3	55,0	63,0	8,0	59,0	75,0	12,0
18,0	25,0	10,0	26,3	36,4	8,0	38,1	48,0	9,0	50,0	65,0	13,0	59,0	77,5	12,0
18,0	25,5	5,5	26,5	46,5	12,0	38,1	50,8	11,0	50,0	67,0	13,0	60,0	70,0	6,2
18,0	26,0	7,5	27,0	33,5	7,0	39,0	52,5	12,0	50,0	70,0	10,0	60,0	70,0	7,0
18,0	26,0	10,0	27,0	41,0	9,0	39,5	48,0	13,0	50,0	70,0	13,0	60,0	72,0	13,0
18,0	27,5	10,0	27,5	38,5	9,0	40,0	47,0	11,0	50,8	60,3	12,0	60,0	75,0	9,7
18,0	28,0	8,0	28,0	36,0	6,3	40,0	49,7	10,0	50,8	63,5	9,5	60,0	80,0	13,0
18,0	30,0	9,0	28,0	36,0	7,0	40,0	50,0	6,2	50,8	63,5	13,0	60,3	73,0	9,5

Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm	Ø d mm	Ø D mm	H mm
60,3	76,2	12,0	72,5	88,0	13,0	89,0	110,0	14,0	115,0	145,0	18,0	165,0	195,0	16,0
61,0	71,0	6,1	74,0	98,0	15,0	90,0	100,0	12,5	117,0	125,0	14,0	166,0	182,0	16,0
61,0	72,0	12,0	75,0	85,0	6,5	90,0	103,0	13,0	118,0	128,0	14,0	166,0	203,0	19,0
62,0	78,0	13,0	75,0	85,0	12,0	90,7	106,7	12,0	118,0	144,0	16,0	167,0	180,0	15,0
63,0	87,0	15,0	75,0	85,0	12,0	92,4	114,3	15,0	119,0	135,0	16,0	168,0	202,0	16,0
63,0	90,0	16,0	75,0	90,0	12,0	93,0	113,0	16,0	120,0	130,0	15,0	171,5	186,0	16,0
63,5	75,0	12,0	75,0	92,0	12,0	94,0	112,7	14,0	120,0	140,0	16,0	173,5	201,5	16,0
63,5	76,2	10,0	75,0	96,0	14,0	94,0	118,0	18,0	120,0	150,0	16,0	174,5	200,0	12,0
63,5	78,0	13,0	75,0	100,0	15,0	94,0	118,0	19,0	123,5	152,0	15,0	175,0	197,0	16,0
63,5	82,0	13,0	75,0	107,0	18,0	94,3	114,3	15,0	123,8	142,8	15,0	175,5	200,0	16,0
64,0	79,0	13,0	76,0	96,0	12,0	95,0	110,0	13,0	125,0	150,0	16,0	177,0	209,0	16,0
64,0	83,0	15,0	76,2	88,9	13,0	95,0	114,3	15,0	127,0	139,7	13,0	178,0	203,0	16,0
64,0	84,0	15,0	77,0	87,0	12,0	95,0	120,0	15,0	127,0	152,4	16,0	180,0	202,0	16,0
65,0	75,0	13,0	77,0	100,0	13,0	95,0	125,0	16,0	130,0	150,0	16,0	182,0	200,0	16,0
65,0	78,0	10,0	78,0	88,0	9,7	97,0	121,0	15,0	130,0	155,0	18,0	185,0	207,4	16,0
65,0	80,0	13,0	78,0	98,0	13,0	98,0	110,0	14,0	132,0	152,4	16,0	187,3	203,2	19,0
65,0	84,0	15,0	79,0	89,0	10,0	98,5	112,0	14,0	133,0	152,4	16,0	195,0	214,0	16,0
65,0	85,0	14,0	79,0	94,0	13,0	98,5	120,6	15,0	133,5	146,0	16,0	199,5	228,5	16,0
65,0	85,0	15,0	80,0	90,0	10,0	99,0	109,0	14,0	135,0	150,0	16,0	209,0	247,0	22,0
65,0	87,5	14,0	80,0	90,5	8,5	100,0	120,0	15,0	135,0	160,0	16,0	212,0	232,0	16,0
65,0	88,9	15,0	80,0	92,0	12,0	100,0	122,0	15,0	135,0	165,0	18,0	212,0	239,0	18,0
65,3	76,9	13,0	80,0	100,0	12,0	100,0	125,0	16,0	136,5	163,5	15,0	213,0	237,0	19,0
66,0	76,2	13,0	80,0	100,0	13,0	100,0	115,1	6,0	137,0	146,0	15,2	216,0	224,0	15,2
66,0	88,0	15,0	80,0	101,6	13,0	101,6	114,3	13,0	138,0	154,0	16,0	230,0	260,0	20,0
66,7	85,7	12,0	80,0	105,0	15,0	101,6	117,5	14,0	139,0	165,3	16,0	232,0	254,0	16,0
68,0	76,4	8,0	80,0	110,0	15,0	101,6	120,7	14,0	139,8	159,0	15,0	232,0	259,0	19,0
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68,0	84,0	15,0	82,5	101,6	15,0	102,0	118,0	12,0	140,0	157,0	16,0	245,0	280,0	19,5
68,0	95,0	15,0	83,0	92,0	6,6	102,0	122,0	14,0	140,0	160,0	16,0	248,0	280,0	22,0
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69,0	88,9	13,0	83,0	103,0	15,0	105,0	120,0	10,0	140,0	160,0	15,0	254,0	277,0	16,0
70,0	80,0	10,0	84,3	96,3	12,0	105,0	125,0	16,0	150,0	170,0	16,0	265,0	295,0	16,0
70,0	83,0	10,0	85,0	95,0	13,0	106,0	127,0	16,0	150,0	180,0	18,0	270,0	290,0	16,0
70,0	84,0	13,0	85,0	98,0	13,0	109,0	128,5	16,0	150,0	184,0	16,0	270,0	300,0	16,0
70,0	87,0	13,0	85,0	100,0	12,0	110,0	125,0	10,5	151,0	165,0	16,0	273,0	304,8	16,0
70,0	90,0	12,0	85,0	105,0	14,0	110,0	127,0	16,0	156,0	176,0	16,0	280,0	310,0	22,0
70,0	90,0	13,0	85,0	115,0	18,0	110,0	129,0	16,0	158,0	171,5	9,5	300,0	330,0	22,0
70,0	95,0	15,0	85,7	101,6	14,0	110,0	135,0	16,0	160,0	180,0	16,0	307,7	340,0	19,0
70,0	100,0	18,0	86,0	100,0	13,0	110,0	140,0	13,5	162,0	172,0	14,0	309,0	347,0	20,0
70,5	83,2	8,0	87,5	111,5	16,0	111,0	127,0	16,0	164,0	180,0	12,0	314,0	334,0	12,0
71,0	89,2	14,0	88,0	100,0	8,5	112,0	121,0	15,2	164,5	190,5	12,2	350,0	385,0	19,0
71,4	83,6	12,0	88,9	101,6	13,0	112,0	125,0	16,0	165,0	174,0	15,2	410,0	445,0	22,0
72,0	80,2	7,9	88,9	105,0	13,0	114,0	139,7	16,0	165,0	183,0	16,0	493,0	510,0	16,0
72,0	84,0	12,0	88,9	114,3	14,0	115,0	135,0	16,0	165,0	185,0	16,0			