



# Guide O-ring / X-ring

## O-ring / X-ring guide





QUANDO  
TENERCI VUOL  
DIRE CRESCERE.  
PER SUPERARE  
NOI STESSI.

**OIL & GAS**

**MECCANICA**  
MECHANICS

**FOOD & BEVERAGE**

**FARMACEUTICA**  
PHARMACEUTICAL

**CHIMICA**  
CPI

**PLASTICA**  
PLASTIC

**LAVORAZIONE CARTA**  
PAPER MILL

**LAVORAZIONE PELLI**  
LEATHER PROCESSING

**LAVORAZIONE LEGNO**  
WOOD PROCESSING

**MOVIMENTAZIONE TERRA**  
EARTH MOVING

**MOVIMENTAZIONE CARICHI**  
MATERIAL HANDLING EQUIPMENT

**SISTEMI DI TENUTA**  
**FLUID CONNECTORS**  
**OLEODINAMICA**

**SEALING SOLUTIONS**  
**FLUID CONNECTORS**  
**HYDRAULICS**



## I NOSTRI SERVIZI OUR SERVICES



**CONSULENZA E ASSISTENZA TECNICA**  
CONSULTANCY AND TECHNICAL ASSISTANCE



**MILIONI DI PRODOTTI A MAGAZZINO**  
MILLIONS OF PRODUCTS IN STOCK



**LOGISTICA INTEGRATA E KANBAN**  
INTEGRATED LOGISTICS AND KANBAN



**CONTROLLO QUALITÀ IN ENTRATA E IN USCITA**  
INBOUND AND OUTBOUND QUALITY CONTROL



**PROGETTAZIONE E PRODUZIONE A DISEGNO DI GUARNIZIONI**  
DESIGN AND CUSTOMIZED SEALS PRODUCTION



**ETICHETTE PERSONALIZZATE E QR CODE**  
CUSTOMIZED LABELS AND QR CODES



**ORDINI WEB**  
WEB ORDERS



**RILEVAZIONE CAMPIONI E KIT DEL CLIENTE**  
ARTICLE DETECTION AND KIT ASSEMBLY



**ASSEMBLAGGIO E COLLAUDO TUBI E RACCORDI**  
ASSEMBLY AND TESTING OF HOSES AND FITTINGS



**EVENTI FORMATIVI**  
TRAINING EVENTS

# GUIDE O-RING / X-RING | O-RING / X-RING GUIDE

Sigla   Ref			Dimens.	
EUR	USA	X-ring	DI	DE
1.78				
2007	004		1.78	5.34
2010	005		2.57	6.13
2012	006	1	2.90	6.46
2015	007	2	3.68	7.24
2018	008	3	4.47	8.03
		3A	4.62	8.18
2021	009	4	5.28	8.84
		4A	5.70	9.26
2025	010	5	6.07	9.63
		5A	6.65	10.21
106	610		6.75	10.31
2031	011	6	7.65	11.21
		6A	8.70	12.26
108	611		8.73	12.29
2037	012	7	9.25	12.81
		7A	9.70	13.26
2043	013	113	10.82	14.38
114	806		11.11	14.67
2050	014	114	12.42	15.98
2056	015	115	14.00	17.56
2062	016	116	15.60	19.16
2068	017	117	17.17	20.73
2075	018	118	18.77	22.33
2081	019	119	20.35	23.91
2087	020	120	21.95	25.51
2093	021	121	23.52	27.08
2100	022	122	25.12	28.68
2106	023	123	26.70	30.26
2112	024	124	28.30	31.86
2118	025	125	29.87	33.43
2125	026		31.47	35.03
2131	027		33.05	36.61
2137	028		34.65	38.21
2150	029		37.82	41.38
2162	030		41.00	44.56
2175	031		44.17	47.73
2187	032		47.35	50.91
2200	033		50.52	54.08
2212	034		53.70	57.26
2225	035		56.87	60.43
2237	036		60.05	63.61
2250	037	137	63.22	66.78
2262	038		66.40	69.96
2275	039		69.57	73.13
2287	040		72.75	76.31
2300	041		75.92	79.48
2325	042		82.27	85.83
2350	043		88.62	92.18
2375	044		94.97	98.53
2400	045		101.32	104.88
2425	046		107.67	111.23
2450	047		114.02	117.58
2475	048		120.37	123.93
2500	049		126.72	130.28
2525	050		133.07	136.63
2537	550		135.76	139.32
2550	551		138.94	142.50

Sigla   Ref			Dimens.	
EUR	USA	X-ring	DI	DE
2562	552		142.11	145.67
2575	553		145.29	148.85
2587	554		148.46	152.02
2600	555		151.64	155.20
2612	556		154.81	158.37
2625	557		158.00	161.56
2637	558		161.16	164.72
2652	559		164.34	167.90
2662	560		167.51	171.07
2675	561		170.69	174.25
2687	562		173.87	177.43
2.62				
	102		1.24	6.48
3010	103		2.06	7.30
3012	104		2.84	8.08
3015	105		3.63	8.87
3018	106		4.42	9.66
3021	107		5.23	10.47
3024	108		6.02	11.26
3030	109		7.59	12.83
	109		9.13	14.37
3037	110	8	9.12	14.36
		8A	9.80	15.04
112	613		9.90	15.14
3043	111	9	10.77	16.01
		9A	11.70	16.94
	115	614	11.91	17.15
3050	112	10	12.37	17.61
		12A	12.80	18.04
117	615		13.10	18.34
		10B	13.70	18.94
3056	113	11	13.94	19.18
		11A	14.70	19.94
119	616		15.08	20.32
3062	114	12	15.54	20.78
121	809		15.88	21.12
			16.20	21.44
3068	115	13	17.12	22.36
		13A	17.75	22.99
123	617		17.86	23.10
3075	116	14	18.72	23.96
		14A	19.60	24.84
		217	20.24	25.48
3081	117		20.30	25.54
128	812		20.64	25.88
3087	118	218	21.89	27.13
130	813		22.3	27.54
3093	119	219	23.47	28.71
132	814		23.81	29.05
3100	120	220	25.07	30.31
3106	121	221	26.64	31.88
3112	122	222	28.24	33.48
3118	123	223	29.82	35.06
3125	124	224	31.42	36.66
3131	125	225	32.99	38.23
3137	126	226	34.59	39.83
3143	127	227	36.17	41.41
3150	128	228	37.37	42.61

Sigla   Ref			Dimens.	
EUR	USA	X-ring	DI	DE
3156	129	229	39.34	44.58
3162	130	230	40.95	46.19
3168	131	231	42.52	47.76
3175	132		44.12	49.36
3181	133		45.69	50.93
3187	134		47.29	52.53
3193	135		48.90	54.14
3200	136		50.47	55.71
3206	137		52.07	57.31
3212	138		53.64	58.88
3218	139		55.25	60.49
3225	140		56.82	62.06
3231	141		58.42	63.66
3237	142		59.99	65.23
3243	143		61.60	66.84
3250	144		63.17	68.41
3256	145		64.77	70.01
3262	146		66.34	71.58
3268	147		67.95	73.19
3275	148		69.52	74.76
3281	149		71.12	76.36
3287	150		72.69	77.93
3300	151		75.87	81.11
3325	152		82.22	87.46
3350	153		88.57	93.81
3375	154		94.92	100.16
3400	155		101.27	106.51
3425	156		107.62	112.86
3450	157		113.97	119.21
3475	158		120.32	125.56
3500	159		126.67	131.91
3525	160		133.02	138.26
3550	161	261	139.37	144.61
3575	162		145.72	150.96
3600	163		152.07	157.31
3625	164		158.42	163.66
3650	165		164.77	170.01
3675	166		171.12	176.36
3700	167		177.47	182.71
3725	168		183.82	189.06
3750	169		190.17	195.41
3775	170		196.52	201.76
3800	171		202.87	208.11
3825	172		209.22	214.46
3850	173		215.57	220.81
3875	174		221.92	227.16
3900	175		228.27	233.51
3925	176		234.62	239.86
3950	177		240.97	246.21
3975	178		247.32	252.56
3.53				
4021	201		4.34	11.40
4024	202		5.94	13.00
4028	203		7.52	14.58
4036	204		9.12	16.18
4042	205		10.69	17.75
4050	206		12.29	19.35
4055	207		13.87	20.93

Sigla I Ref			Dimens.	
EUR	USA	X-ring	DI	DE
4061	208		15.47	22.53
4067	209		17.04	24.01
4075	210	15	18.64	25.70
4081	211	16	20.22	27.28
		16A	20.90	27.96
4087	212	17	21.82	28.88
4093	213	18	23.39	30.45
		18A	23.99	31.05
4100	214	19	24.99	32.05
134	618		25.80	32.86
		19A	25.90	32.96
4106	215	20	26.57	33.63
		20A	27.57	34.63
4112	216	21	28.17	35.23
4118	217	22	29.74	36.80
4125	218	23	31.34	38.40
		23A	32.04	39.10
4131	219	24	32.92	39.98
		24A	33.80	40.86
4137	220	25	34.52	41.58
4143	221	26	36.09	43.15
4150	222	27	37.69	44.75
144	824		39.70	46.76
4162	223	323	40.87	47.93
146	825		41.28	48.34
147	826		42.86	49.92
4175	224	324	44.04	51.10
149	827		44.95	52.01
150	828		46.04	53.10
4187	225	325	47.22	54.28
152	829		47.62	54.68
153	830		49.20	56.26
4200	226	326	50.39	57.45
155	831		50.80	57.86
156	832		52.40	59.46
4212	227	327	53.57	60.63
158	833		53.97	61.03
159	834		55.56	62.62
4225	228	328	56.74	63.80
161	835		57.15	64.21
162	836		58.74	65.80
4237	229	329	59.92	66.98
164	837		60.32	67.38
165	838		61.90	68.96
4250	230	330	63.09	70.15
167	839		63.50	70.56
168	840		65.10	72.16
4262	231	331	66.27	73.33
170	841		66.67	73.73
171	842		68.26	75.32
4275	232	332	69.44	76.50
173	843		69.85	76.91
174	844		71.44	78.50
4287	233	333	72.62	79.68
176	845		73.02	80.08
177	846		74.60	81.66
4300	234	334	75.79	82.85
4312	235	335	78.97	86.03

Sigla I Ref			Dimens.	
EUR	USA	X-ring	DI	DE
4325	236	336	82.14	89.20
4337	237	337	85.32	92.38
4350	238	338	88.49	95.55
4362	239	339	91.67	98.73
4375	240	340	94.84	101.90
4387	241	341	98.02	105.08
4400	242	342	101.19	108.25
4412	243		104.37	111.43
4425	244		107.54	114.60
4437	245		110.72	117.78
4450	246		113.89	120.95
4462	247		117.07	124.13
4475	248	348	120.24	127.30
4487	249		123.42	130.48
4500	250		126.59	133.65
4512	251		129.77	136.83
4525	252		132.94	140.00
4537	253		136.12	143.18
4550	254		139.29	146.35
4562	255		142.47	149.53
4575	256		145.64	152.70
4587	257		148.82	155.88
4600	258		151.99	159.05
4625	259		158.34	165.40
4650	260		164.69	171.75
4675	261		171.04	178.10
4700	262		177.39	184.45
4725	263	363	183.74	190.80
4750	264		190.09	197.15
4775	265		196.44	203.50
4800	266		202.79	209.85
4825	267		209.14	216.20
4850	268		215.49	222.55
4875	269		221.84	228.90
4900	270		228.19	235.25
4925	271		234.54	241.60
4950	272		240.89	247.95
4975	273		247.26	254.32
41000	274		253.59	260.65
41050	275		266.29	273.35
41100	276		278.99	286.05
41150	277		291.69	298.75
41200	278		304.39	311.45
41300	279		329.79	336.85
41400	280		355.19	362.25
41500	281		380.59	387.65
41600	282		405.26	412.32
41700	283		430.66	437.72
41800	284		456.06	463.12
5.33				
6042	309		10.46	21.12
6050	310		12.07	22.73
6055	311		13.64	24.30
6060	312		15.24	25.90
6068	313		16.81	27.47
6075	314		18.42	29.08
6080	315		19.99	30.65
6085	316		21.59	32.25

Sigla I Ref			Dimens.	
EUR	USA	X-ring	DI	DE
6090	317		23.16	33.82
6100	318		24.77	35.43
6105	319		26.34	37.00
6110	320		27.94	38.60
6115	321		29.51	40.17
6125	322		31.12	41.78
6130	323		32.69	43.35
6135	324		34.29	44.95
6150	325	28	37.47	48.13
		28A	39.64	50.30
6162	326	29	40.64	51.30
		29A	41.80	52.46
6175	327	30	43.82	54.48
		30A	45.04	55.70
		30B	45.84	56.50
6187	328	31	46.99	57.65
		31A	47.80	58.46
6200	329	32	50.17	60.83
		32A	52.00	62.66
6212	330	33	53.34	64.00
		33A	54.50	65.16
6225	331	34	56.52	67.18
		34A	57.52	68.18
6237	332	35	59.69	70.35
		35A	61.54	72.20
6250	333	36	62.87	73.53
		36A	64.59	75.25
6262	334	37	66.04	76.70
		37A	67.64	78.30
6275	335	38	69.22	79.88
		38A	70.64	81.30
6287	336	39	72.39	83.05
		39A	73.84	84.50
178	619		74.63	85.29
6300	337	40	75.57	86.23
6312	338	41	78.74	89.4
181	620		79.73	90.39
		41A	80.09	90.75
6325	339	42	81.92	92.58
		42A	83.39	94.05
6337	340	43	85.09	95.75
		43A	86.64	97.30
6350	341	44	88.27	98.93
185	621	44A	89.69	100.35
6362	342	45	91.44	102.10
6375	343	46	94.62	105.28
6387	344	47	97.79	108.45
189	622		100.00	110.66
6400	345	48	100.97	111.63
		48A	102.34	113.00
6412	346	49	104.14	114.80
		49A	105.80	116.46
6425	347	50	107.32	117.98
193	623		109.54	120.20
6437	348	51	110.49	121.15
6450	349	52	113.67	124.33
6500	350	450	116.84	127.50
199	860		117.48	128.14

# GUIDE O-RING / X-RING | O-RING / X-RING GUIDE

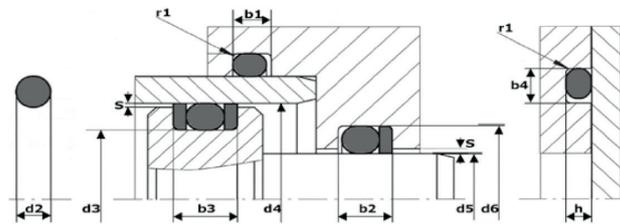
Sigla   Ref			Dimens.	
EUR	USA	X-ring	DI	DE
6501	351	451	120.02	130.68
201	861		120.65	131.31
6502	352	452	123.19	133.85
203	862		123.83	134.49
6503	353	453	126.37	137.03
206	863		127.00	137.66
6504	354	454	129.54	140.20
208	864		130.18	140.84
6505	355	455	132.75	143.41
210	865		133.35	144.01
6506	356	456	135.89	146.55
213	866		136.53	147.19
6507	357	457	139.07	149.73
215	867		139.70	150.36
6508	358		142.24	152.90
217	868		142.88	153.54
6509	359		145.42	156.08
219	869		146.05	156.71
6510	360		148.59	159.25
221	870		149.23	159.89
6600	361		151.77	162.43
6625	362		158.12	168.78
6645	363		164.47	175.13
6670	364		170.82	181.48
6700	365		177.17	187.83
6720	366		183.52	194.18
6745	367		189.87	200.53
6775	368		196.22	206.88
6795	369		202.57	213.23
6820	370		208.92	219.58
6850	371		215.27	225.93
6870	372		221.62	232.28
6895	373		227.97	238.63
6920	374		234.32	244.98
6945	375		240.67	251.33
6975	376		247.02	257.68
6995	377		253.97	264.63
61050	378		266.07	276.73
61100	379		278.77	289.43
61150	380		291.47	302.13
61200	381		304.17	314.83
61300	382		329.57	340.23
61400	383		354.97	365.63
61500	384		380.37	391.03
61600	385		405.26	415.92
61700	386		430.66	441.32
61800	387		456.06	466.72
61900	388		481.41	492.07
62000	389		506.81	517.47
62100	390		532.21	542.87
62200	391		557.61	568.27
62300	392		582.68	593.34
62400	393		608.08	618.74
62500	394		633.48	644.14
62600	395		658.88	669.54
6.99				
8450	425	88	113.67	127.65
197	624		114.70	128.68

Sigla   Ref			Dimens.	
EUR	USA	X-ring	DI	DE
		52A	115.84	129.82
8462	426	53	116.84	130.82
8475	427	54	120.02	134.00
8487	428	55	123.19	137.17
204	625		124.60	138.58
8500	429	56	126.37	140.35
8512	430	57	129.54	143.52
8525	431	58	132.72	146.70
211	626		134.50	148.48
8537	432	59	135.89	149.87
8550	433	60	139.07	153.05
8562	434	61	142.24	156.22
8575	435	62	145.42	159.40
8587	436	63	148.59	162.57
8600	437	64	151.77	165.75
		64A	155.02	169.00
223	872		155.60	169.58
8625	438	65	158.12	172.10
225	627		159.50	173.48
		65A	161.02	175.00
226	874		161.90	175.88
8650	439	66	164.47	178.45
228	628		166.70	180.68
		66A	167.02	181.00
229	876		168.30	182.28
8675	440	67	170.82	184.80
		67A	173.52	187.50
231	878		174.60	188.58
8700	441	68	177.17	191.15
		68A	180.52	194.50
233	880		181.00	194.98
8725	442	69	183.52	197.50
		69A	186.02	200.00
235	882		187.30	201.28
8750	443	70	189.87	203.85
		70A	192.02	206.00
237	884		193.70	207.68
8775	444	71	196.22	210.20
		71A	199.02	213.00
239	886		200.00	213.98
8800	445	72	202.57	216.55
		72A	206.80	220.78
8825	674		208.92	222.90
		72B	211.02	225.00
8850	446	73	215.27	229.25
		73A	219.02	233.00
8875	676		221.60	235.58
		73B	223.50	237.48
8900	447	74	227.97	241.95
		74A	231.02	245.00
8925	678		234.32	248.30
		74B	235.00	248.98
8950	448	75	240.67	254.65
		75A	243.02	257.00
8975	680		247.00	260.98
		75B	248.00	261.98
81000	449	76	253.37	267.35
		76A	259.00	272.98

Sigla   Ref			Dimens.	
EUR	USA	X-ring	DI	DE
81025	682		259.70	273.68
81050	450	77	266.07	280.05
81075	684		272.40	286.38
		77A	273.10	287.08
81100	451	78	278.77	292.75
		78A	284.00	297.98
81125	686		285.10	299.08
		78B	287.50	301.48
81150	452	79	291.47	305.45
81175	688	79A	297.80	311.78
81200	453	80	304.17	318.15
		80A	310.00	323.98
81250	454	81	316.87	330.85
		81A	323.50	337.48
81300	455	82	329.57	343.55
		82A	336.50	350.48
81350	456	83	342.27	356.25
		83A	348.50	362.48
81400	457	84	354.97	368.95
		84A	362.50	376.48
81450	458	85	367.67	381.65
		85A	374.00	387.98
81500	459	86	380.37	394.35
		86A	387.50	401.48
81550	460	87	393.07	407.05
		87A	401.00	414.98
81600	461		405.26	419.24
81650	462		417.96	431.94
81700	463		430.66	444.64
81750	464		443.36	457.34
81800	465		456.06	470.04
81850	466		468.76	482.74
81900	467		481.46	495.44
81950	468		494.16	508.14
82000	469		506.86	520.84
82100	470		532.26	546.24
82200	471		557.66	571.64
82300	472		582.68	596.66
82400	473		608.08	622.06
82500	474		633.48	647.46
82600	475		658.88	672.86

## Materiali e schema per dimensionare la sede | *Materials and diagram for housing dimensions*

Campo di applicazione e caratteristiche <i>Characteristics and Application Field</i>	Materiale <i>Material</i>	°C
Materiale standard per sistemi idraulici e pneumatici. Fluidi idraulici minerali a base d'olio, olii e grassi animali e vegetali. Liquidi antideflagranti (HFA, HFB, HFC), idrocarburi alifatici (propano, butano, petrolio), olii e grassi a base silicone. Acqua fino a + 80°C, aria. <i>Standard material for hydraulic and pneumatic systems. Suggested for aliphatic hydrocarbons (propane, butane, petroleum) oil, mineral oil and animal or vegetable grease, silicone based grease, HFA, HFB and HFC anti-explosion fluids; water up to +80°C and air.</i>	NBR	-30 +100
Olii e grassi minerali idrocarburi alifatici, aromatici e clorurati, benzina, gasolio, liquidi antideflagranti a base di fosfati. Olii e grassi a base di silicone. Acidi, soluzioni alcaline. Adatto per l'impiego sottovuoto. <i>Suggested for mineral oil and grease, aliphatic, aromatic and chlorinated hydrocarbons, gas and diesel fuel, phosphate-based non-flammable hydraulic fluids, silicone oil and grease, acids and alkaline solutions. Suitable for vacuum applications.</i>	FKM	-20 +200
Acqua calda, vapore, detergenti. Alcool, chetoni, refrigeranti motore, liquidi antideflagranti a base di fosfati, acidi e basi organici e inorganici. Non resiste agli olii minerali. <i>Suggested for hot water and steam, cleaning agents, many polar solvents (alcohols, ketones, esters), engine refrigeration fluids, phosphate-based non-flammable hydraulic fluids, many organic and inorganic acids and bases. Not suitable for mineral oil products (oils, greases and fuels).</i>	EPDM	-40 +140
Aria calda, ossigeno, gas inerti ad elevate temperature, ozono, raggi UV, olii alifatici per motori e trasmissioni, grassi ed olii animali e vegetali, liquidi per freni. Bassa resistenza agli olii minerali. Solo per applicazioni statiche. <i>Suggested for hot air, oxygen, high temperature inert gases, ozone, UV rays, aliphatic oils for engines and transformers, animal and vegetable oil and grease, brake fluids. Not very resistant to mineral oils. Only for static applications.</i>	VMQ	-55 +200
Per applicazioni con esposizione ad estese temperature, ottima resistenza a combustibili aromatici, lubrificanti a base di distre, aria calda, ozono, ossigeno e olii. <i>For applications at high extended temperature. High resistance to aromatic fuels, lubricants, hot air, ozone, oxygen and oils.</i>	FVMQ	-60 +200
Fluidi idraulici minerali a base d'olio, olii e grassi animali e vegetali. Liquidi antideflagranti (HFA, HFB, HFC), idrocarburi alifatici. Olii a base di silicone. Acqua fino a +80°C, aria. Biooli in estere sintetica e olii vegetali. <i>Suggested for mineral hydraulic fluids, animal and vegetable oils and grease, HFA, HFB and HFC hydraulic fluids, aliphatic hydrocarbons, silicone based oils, water up to +80 °C and air and organic synthesized ester based oils.</i>	HNBR	-30 +150
Eccellente resistenza chimica alla maggior parte dei fluidi e dei prodotti chimici, paragonabile al PTFE, ottima resistenza alle temperature elevate. Basso rigonfiamento con quasi tutte le sostanze chimiche. Applicazioni tipiche nell'industria chimica e in tutti gli ambienti con sostanze aggressive e temperature elevate. <i>Excellent resistance to most chemical fluids and products (very much like PTFE). Very resistant to high temperatures. Low swelling with the majority of chemical substances. Typically used in chemical industry and in all applications with high temperature and aggressive agents.</i>	FFKM	-15 +325
Eccellente resistenza chimica alla maggior parte dei fluidi e delle sostanze chimiche, fatta eccezione per i metalli alcalini e per alcuni compound a base di fluoro. Possono essere impiegati per prodotti alimentari, farmaceutici e medicali. Si impiegano laddove la normale resistenza chimica e termica dei normali O-ring in elastomero non è più sufficiente. <i>Excellent resistance to most chemical fluids and substances with the exception of alkaline metals and some fluorine based compounds. Can be used with food, pharmaceutical and medical preparations. Typically used in applications where the standard properties of elastomeric O-Rings are not adequate.</i>	PTFE	-200 +260
Per applicazioni in sistemi idraulici e pneumatici con elevati carichi dinamici. Elevata resistenza all'usura. Resistenti agli olii e grassi minerali, ossigeno e ozono. Non sono resistenti a esteri, idrocarburi alifatici, aromatici e clorurati, acidi e soluzioni alcaline concentrati, acqua al di sopra dei +50°C. <i>Suggested for hydraulic or pneumatic systems with high dynamic loads. Highly resistant to wear and tear. Resistant to mineral oils and greases, oxygen and ozone. Not resistant to esters, aliphatic, aromatic and chlorinated hydrocarbons, acids and concentrated alkaline solutions, water at a temperature higher than 50°C.</i>	PUR	-40 +80



Sezione <i>Section</i>	d2	Applicazione Statica <i>Static Seal</i>		Applicazione Dinamica <i>Dynamic Seal</i>		Flangia <i>Flange</i>					r1	Back-up
		Pist. Piston	Stelo Rod	Pist. Piston	Stelo Rod	b1 +0.20	b2 +0.20	b3 +0.20	b4 +0.20	h +0.05		
1.00	±0.20	d4- 1.4	d5+ 1.4	d4- 1.4	d5+ 1.4	1.4	-	-	1.4	0.7	0.2	-
1.20	±0.20	d4- 1.7	d5+ 1.7	d4- 1.7	d5+ 1.7	1.7	-	-	1.7	0.85	0.2	-
1.50	±0.20	d4- 2.2	d5+ 2.2	d4- 2.5	d5+ 2.5	2.0	3.0	4.0	2.1	1.1	0.3	1.0
1.60	±0.20	d4- 2.4	d5+ 2.4	d4- 2.6	d5+ 2.6	2.1	3.1	4.1	2.2	1.2	0.3	1.0
1.78	±0.20	d4- 2.6	d5+ 2.6	d4- 2.9	d5+ 2.9	2.4	3.8	5.2	2.6	1.3	0.3	1.4
2.00	±0.20	d4- 3.0	d5+ 3.0	d4- 3.3	d5+ 3.3	2.7	4.1	5.5	2.8	1.5	0.3	1.4
2.40	±0.20	d4- 3.6	d5+ 3.6	d4- 4.1	d5+ 4.1	3.2	4.6	6.0	3.3	1.8	0.3	1.4
2.50	±0.20	d4- 3.7	d5+ 3.7	d4- 4.3	d5+ 4.3	3.3	4.7	6.1	3.4	1.85	0.3	1.4
2.62	±0.25	d4- 4.0	d5+ 4.0	d4- 4.5	d5+ 4.5	3.6	5.0	6.4	3.8	2.0	0.3	1.4
3.00	±0.25	d4- 4.6	d5+ 4.6	d4- 5.2	d5+ 5.2	4.0	5.4	6.8	4.0	2.3	0.6	1.4
3.53	±0.25	d4- 5.4	d5+ 5.4	d4- 6.2	d5+ 6.2	4.8	6.2	7.6	5.0	2.7	0.6	1.4
4.00	±0.25	d4- 6.2	d5+ 6.2	d4- 7.0	d5+ 7.0	5.2	6.9	8.6	5.3	3.1	0.6	1.7
4.50	±0.35	d4- 7.0	d5+ 7.0	d4- 8.0	d5+ 8.0	5.8	7.5	9.2	5.9	3.5	0.6	1.7
5.00	±0.35	d4- 8.0	d5+ 8.0	d4- 8.8	d5+ 8.8	6.6	8.3	10.0	6.7	4.0	0.6	1.7
5.33	±0.35	d4- 8.6	d5+ 8.6	d4- 9.4	d5+ 9.4	7.1	9.0	10.9	7.3	4.3	0.6	1.7
5.70	±0.35	d4- 9.2	d5+ 9.2	d4- 10.0	d5+ 10.0	7.2	9.0	11.0	7.4	4.6	0.6	1.7
6.00	±0.35	d4- 9.8	d5+ 9.8	d4- 10.6	d5+ 10.6	7.4	9.3	11.2	7.6	4.9	0.6	1.7
6.50	±0.40	d4- 10.8	d5+ 10.8	d4- 11.4	d5+ 11.4	8.0	9.9	11.9	8.2	5.4	1.0	1.7
6.99	±0.40	d4- 11.6	d5+ 11.6	d4- 12.2	d5+ 12.2	9.5	12.3	15.1	9.7	5.8	1.0	2.5
8.00	±0.40	d4- 13.4	d5+ 13.4	d4- 14.2	d5+ 14.2	9.8	12.6	15.4	10.0	6.7	1.0	2.5
8.40	±0.40	d4- 14.2	d5+ 14.2	d4- 15.0	d5+ 15.0	10.0	12.8	15.6	10.3	7.1	1.0	2.5
9.00	±0.40	d4- 15.4	d5+ 15.4	d4- 16.2	d5+ 16.2	10.6	13.4	16.3	10.9	7.7	1.5	2.5
10.00	±0.40	d4- 17.2	d5+ 17.2	d4- 18.2	d5+ 18.2	11.6	14.5	17.4	12.0	8.6	2.0	2.5

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