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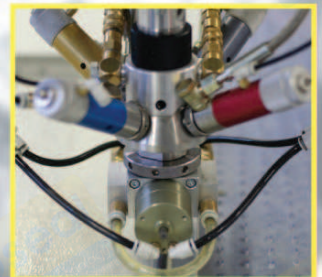
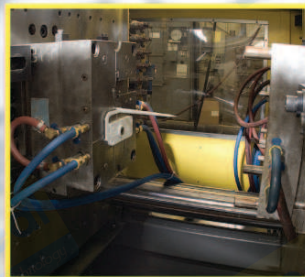
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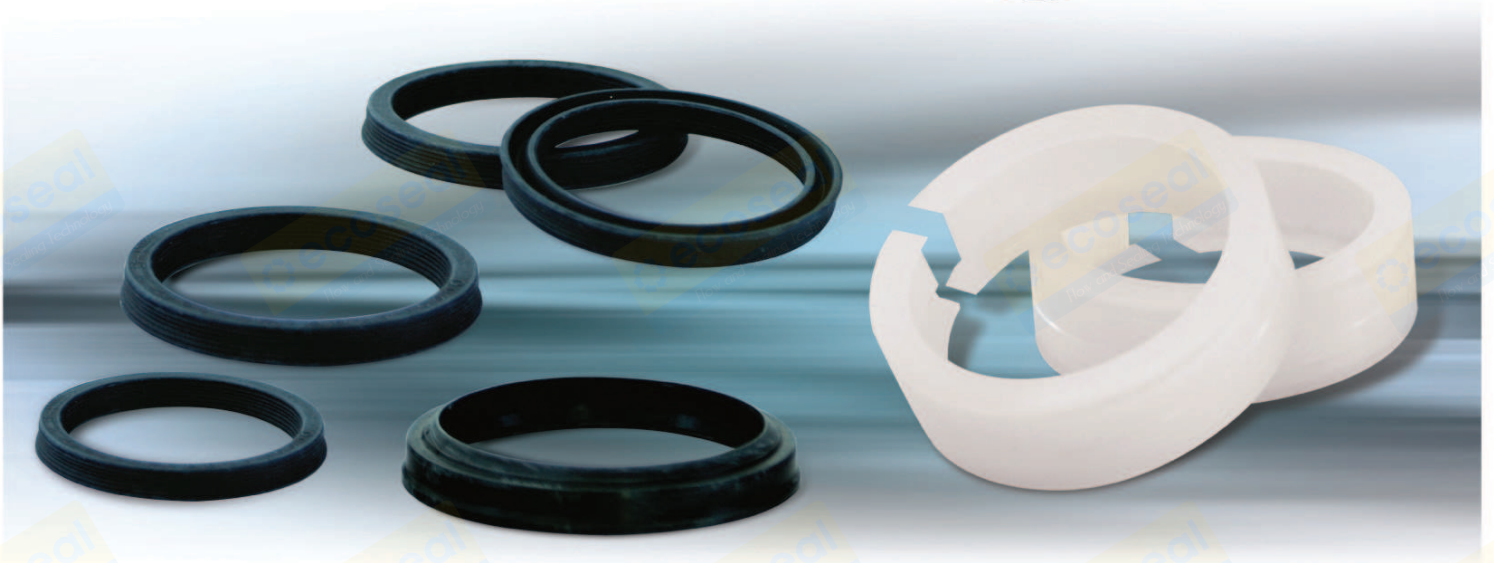
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Pneumatic packings

Disclaimer
 The figures and values herein, including operating ranges and performance data, are intended solely for the purpose of providing general information with respect to the selection of packings. Sakagami Seisakusho Ltd. does not carry any kind of warranty regarding the information in this catalogue.

Product name	Profiles (Left section)	Standard Material			Characteristics	Main usage	Quality of air			Page	
		Material codes	Pressure (MPa (kgf/cm ²))	Max. speed (m/s)			Temperature range (°C)	Lube	Non-lube		Dry air
PGY-Packings		RN713 (RF905)	1 (10)	1	-25~80 (-5~150)	Improved wear resistant packings are PGY piston packings & PNY rod packings. Stable sealing performance is obtainable in lubricated, non-lubricated and dry air systems.	● Basic cylinders	○	○	○	PGY 46
Piston packings											
PNY-Packings		RN713 (RF905)	1 (10)	1	-25~80 (-5~150)			○	○	○	PNY 47
Rod packings											
GLY-Packings		RK701 (RF905)	1 (10)	1	-25~70 (-5~150)	GLY-packings are applicable to pneumatic pistons & rods in non-lubricated air supply systems, while inapplicable to lubricated cylinders.	● Basic cylinders	NR	○	NR	GLY 48
Piston & rod packings											
PPD-Packings		RN729	1 (10)	1	-20~80	PPD-packings are double acting piston packings compatible with the grooves for the PSD-packings. Sealing performance of PPD-packings sustains unchanged despite of large eccentric movement of the pistons. Moderate durability and fair friction characteristics.	● Basic cylinders ● Miniature cylinders ● Thin type cylinders ● Cylinders specially designed to meet specific requirements	○	○	○	PPD 50
Piston packings											
PSD-Packings		RN713 (RF704)	1 (10)	1	-20~80 (-5~150)	PSD-packings are the world best selling double acting pneumatic piston packings. The profile of the PSD-packings is compact and designed to provide outstanding friction properties. Unlike O-rings, PSD-packings resist twisting or rolling.	● Basic cylinders ● Miniature cylinders ● Thin type cylinders	○	○	○	PSD 51
Piston packings											
PDU-Packings		RN818 (RF905)	1 (10)	1	-20~80 (-5~150)	PDU packings, the one-piece packing & wiper, allow compact cylinder designs.	● Basic cylinders	NR	○	○	PDU 52
Rod packings											
Mini Y-Packings		MYA RK703	0.8 (8)	0.4	-25~70	Compatible with the grooves for O-rings specified by JIS B2401 P-line. Mini Y-packings are ideal U-packings for cylinders of small cross sectional area. Mini Y-packings are suitable for the applications where low friction resistance is essential such as solenoid valves.	● Solenoid valves	○	○	NR	Mini Y 53
MYA-MYN		MYN RN716									
Piston & rod packings											
MYP-Packings		RN722	1 (10)	0.5	-20~80	MYP-packings are applicable to small diameter pistons. Likewise Mini Y Packings, they are compatible with the grooves for O-rings specified by JIS B2401 P-line. By adopting the slit structure of the lip part to avoid back pressure and inverted seating and high wear resistant properties, they provide stable sealing properties.		○	○	○	MYP 54
Piston packings											
MYR-Packings		RN818	1 (10)	0.5	-15~80	MYR-packings are applicable to small diameter rods. Likewise Mini Y Packings, they are compatible with the grooves for O-rings specified by JIS B2401 P-line. By adopting an improved wear resistant material, they provide long and stable sealing properties despite of the small cross sectional size.	● Miniature cylinders	○	○	○	MYR 55
Rod packings											
PPY-Packings		RN713 (RF704)	1 (10)	1	-20~80 (-5~150)	Improved wear resistant PPY piston packings & PRY rod packings are applicable to miniature cylinders. Greater abrasion resistance with superior friction properties is obtainable, comparing with O-rings.	● Miniature cylinders	○	○	○	PPY 56
Piston packings											
PRY-Packings		RN713 (RF704)	1 (10)	1	-20~80 (-5~150)			○	○	○	PRY 57
Rod packings											
Grid-Surface Gaskets*		RN817 RD811	1 (10)	-	-30~80	Unique and deep grid pattern of Grid-Surface Gaskets* minimizes protrusion of the gasket sheet when squeezed in the assembly process enabling to provide optimum sealing performance.	● Solenoid valves	○	○	○	Grid-Surface 58
Rubber sheet gaskets											

● For the material codes, the temperature ranges and applicable fluid specified in (), heat resistant

○ Applicable
 NR Not recommended

Definition of air quality

(ISO 8573-1: Compressed air standard)

Lubrication:

By setting air lubricators in the circuit, supply compressed air with oil mist to the pneumatic systems attempting in corrosion control and lubrication. Qualified mineral oil should be used as lubrication fluids. (ASTM #2 or equivalence)

Non-lube:

Compressed air is supplied without lubricator in the circuit. Pre-lube is required. Apply qualified grease to the surfaces of packings and contacting area of packings prior to assembling.

Dry air:

The systems supply and exhaust purified air which is clean and free from moisture and foreign matters by filtering units gathered in the system. Pre-lube with qualified grease is required.

Grease:

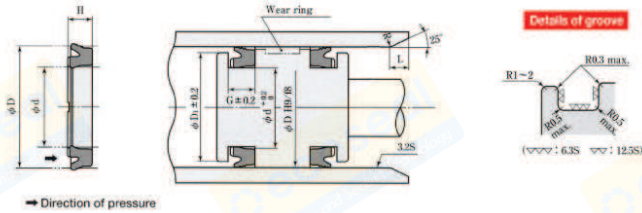
Greases equivalent to the viscosity of NLGI (National Lubricating Grease Institute) #1 or #2 lithium soap (mineral oil based) greases are recommended. For high temperature applications, silicone or fluoroc greases are applicable.

PGY-Packings

Pneumatic packings for pistons
(Installable in one-piece groove)



Dimension table



Note: ● Packings should be installed in the direction specified on the above schematic.
 ● Consider adopting divided grooves if one-piece groove is technically adverse.
 ● ϕD_H would be modified according to the variation of the bearing structure.
 For applications installed together with wear rings, refer to the dimension table of the applicable wear ring.

Dimension table of PGY-Packings

(Unit: mm)

Packing & Groove dimensions						Part No.	
D	d	H	G	D _i	L	Standard material (RN 713)	High temperature-resistant material (RF 505)
20	12	5.2	5.7	17	3	PGY-0020001N713	
25	17	5.2	5.7	23	3	PGY-0025001N713	
28	20	5.2	5.7	26	3	PGY-0028001N713	
30	22.4	5.2	5.7	29	3	PGY-30	
32	24	5.2	5.7	31	3	PGY-32	
40	30	6.5	7	39	3	PGY-40	
50	40	6.5	7	49	3	PGY-50	
63	53	6.5	7	62	3	PGY-63	
80	70	6.5	7	79	3	PGY-80	
100	85	6.5	10	98.5	4	PGY-100	PGY-100F
120	105	6.5	10	118.5	4	PGY-120	
125	110	9.5	10	123.5	4	PGY-125	PGY-125F
140	125	9.5	10	138.5	4	PGY-140	
150	135	9.5	10	148.5	4	PGY-150	PGY-150F
160	145	9.5	10	158.5	4	PGY-160	
180	165	9.5	10	178.5	4	PGY-180	
200	180	12	13	196	5	PGY-200	
250	230	12	13	248	5	PGY-250	
300	280	14	15	298	5	PGY-300	

● Orders and inquiries are acceptable by part numbers.
 ● Products with the part numbers in blue background are stock items.
 ● Packings with the part numbers in light italic require the confirmation of their availability prior to ordering. These items are subject to the abolishment without notice.
 Reclamation of an abolished product requires producing the new tooling at your expense.
 ● Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

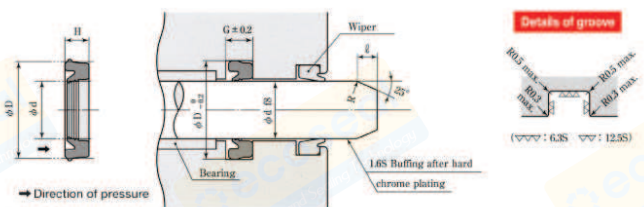
Related products: PNY-Packings, PCS-Cushion seals, YCS-Cushion seals, SWA-Wear rings and SWB-Wear rings

PNY-Packings

Pneumatic packings for rods
(Installable in one-piece groove)



Dimension table



Note: ● Packings should be installed in the direction specified on the above schematic.
 ● Consider adopting divided grooves if one-piece groove is technically adverse.

Dimension table of PNY-Packings

(Unit: mm)

Packing & Groove dimensions					Part No.	
d	D	H	G	f	Standard material (RN 713)	High temperature-resistant material (RF 505)
16	24	5.2	5.7	1.5	PNY-16	
18	26	5.2	5.7	1.5	PNY-18	
20	28	5.2	5.7	1.5	PNY-20	
22	30	5.2	5.7	1.5	PNY-22	
22.4	30	5.2	5.7	1.5	PNY-22.4	
25	33	5.2	5.7	1.5	PNY-25	PNY-25F
28	36	5.2	5.7	1.5	PNY-28	
30	40	6.5	7	3	PNY-30	
32	42	6.5	7	3	PNY-32	PNY-32F
35	45	6.5	7	3	PNY-35	
35.5	45.5	6.5	7	3	PNY-35.5	
36	46	6.5	7	3	PNY-36	
40	50	6.5	7	3	PNY-40	
45	55	6.5	7	3	PNY-45	
50	60	6.5	7	3	PNY-50	
55	65	6.5	7	3	PNY-55	
60	70	6.5	7	3	PNY-60	
63	73	6.5	7	3	PNY-0063001N713	
70	80	6.5	7	3	PNY-70	

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 Reclamation of an abolished product requires producing the new tooling at your expense.
 ● Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

Related products: PGY-Packings, SDR-Wipers and SFR-Wipers

GLY-Packings

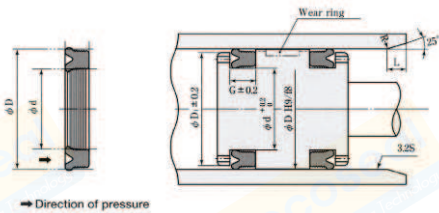
Pneumatic packings for pistons and rods

(Installable in one-piece groove)

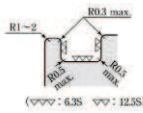
*Use GLY-Packings only for the application with non-lubrication air.
(PGY and PNY-Packings are recommended for the application with lubricating oil air.)



Dimension table



Details of groove



- Note:
- Packings should be installed in the direction specified on the above schematic.
 - Consider adopting divided grooves if one-piece groove is technically adverse.
 - GD (H/S) would be modified according to the variation of the bearing structure.
- For applications installed together with wear rings, refer to the dimension table of the applicable wear ring.

Dimension table of GLY-Packings

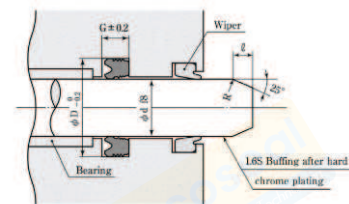
(Unit : mm)

Packing & Groove dimensions							Part No.	
d	D	H	G	D ₁	L	f	Standard material (RK 701)	High temperature-resistant material (RF 905)
10	18	5	5.7	17.1	3	1.5	GLY-0010001K701	
12	20	5	5.7	19.1	3	1.5	GLY-0012001K701	
14	22	5	5.7	21.1	3	1.5	GLY-0014001K701	
16	24	5	5.7	23.1	3	1.5	GLY-16	
17	25	5	5.7	24.1	3	1.5	GLY-0017001K701	
18	26	5	5.7	25.1	3	1.5	GLY-18	
20	28	5	5.7	27.1	3	1.5	GLY-20	GLY-20F
22.4	30	5	5.7	29.1	3	1.5	GLY-22.4	GLY-22.4F
25	33	5	5.7	32.1	3	1.5	GLY-25	GLY-25F
27	35	5	5.7	34.1	3	1.5	GLY-0027001K701	
28	36	5	5.7	35.1	3	1.5	GLY-28	
30	40	6	7	39	3	3	GLY-30	GLY-30F
31.5	41.5	6	7	40.5	3	3	GLY-31.5	
32	42	6	7	41	3	3	GLY-32	
35	45	6	7	44	3	3	GLY-35	GLY-35F
35.5	45.5	6	7	44.5	3	3	GLY-35.5	
36	46	6	7	45	3	3	GLY-36	GLY-36F
40	50	6	7	49	3	3	GLY-40	GLY-40F
45	55	6	7	54	3	3	GLY-45	GLY-45F
50	60	6	7	59	3	3	GLY-50	GLY-50F
53	63	6	7	62	3	3	GLY-53	GLY-53F
55	65	6	7	64	3	3	GLY-0055001K701	
60	70	6	7	69	3	3	GLY-60	GLY-60F
63	73	6	7	72	3	3	GLY-63	
65	75	6	7	74	3	3	GLY-65	

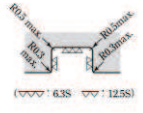
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● Products with the part numbers in blue background are stock items.
● Packings with the part numbers in light blue require the confirmation of their availability prior to ordering. These items are subject to the abolishment without notice.
● Reclamation of an abolished product requires producing the new tooling at your expense.
● Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

Related products: SDR-Wipers, SFR-Wipers, PCS-Cushion seals, SWA-Wear rings and SWB-Wear rings

Dimension table



Details of groove



- Note: ● Consider adopting divided grooves if one-piece groove is technically adverse.

Dimension table of GLY-Packings

(Unit : mm)

Packing & Groove dimensions							Part No.	
d	D	H	G	D ₁	L	f	Standard material (RK 701)	High temperature-resistant material (RF 905)
70	80	6	7	79	3	3	GLY- 70	GLY- 70F
75	85	6	7	84	3	3	GLY- 75	
80	90	6	7	89	3	3	GLY- 80	
85	100	9	10	98.5	4	4	GLY- 85	
95	110	9	10	108.5	4	4	GLY-0095001K701	
100	115	9	10	113.5	4	4	GLY-0100002K701	GLY-0100001F905
105	120	9	10	118.5	4	4	GLY-105	
110	125	9	10	123.5	4	4	GLY-110	GLY-110F
115	130	9	10	128.5	4	4	GLY-0115001K701	
125	140	9	10	138.5	4	4	GLY-125	
135	150	9	10	148.5	4	4	GLY-135	
145	160	9	10	158.5	4	4	GLY-145	GLY-145F
160	175	9	10	173.5	4	4	GLY-0160001K701	
165	180	9	10	178.5	4	4	GLY-165	
175	190	9	10	188.5	4	4	GLY-0175001K701	
180	200	12	13	199	5	5	GLY-180	GLY-180F
185	205	12	13	203	5	5	GLY-0185001K701	
200	220	12	13	218	5	5	GLY-0200001K701	
215	235	12	13	233	5	5	GLY-215	
230	250	12	13	248	5	5	GLY-230	GLY-230F
240	260	12	13	258	5	5	GLY-0240001K701	

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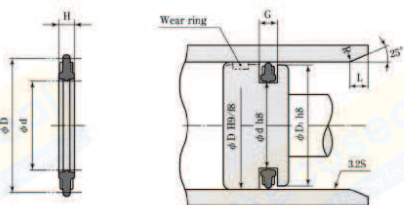
Related products: SDR-Wipers, SFR-Wipers, PCS-Cushion seals, SWA-Wear rings and SWB-Wear rings

PPD-Packings

Pneumatic packings for pistons
(Installable in one-piece groove)



Dimension table



Details of groove



- Consider adopting divided grooves if one-piece groove is technically advise.
- ϕD H9/B8 would be modified according to the variation of the bearing structure.
- For applications installed together with wear rings, refer to the dimension table of the applicable wear ring.
- For applications with bar diameter $\phi 40$ and smaller sizes, the tolerance of G dimension is altered to achieve better performance.

Dimension table of PPD-Packings

(Unit : mm)

Packing & Groove dimensions						Part No.	
D	d	H	G	D ₁	L	Standard material (RN 725)	Compatible packings with PSD-Packings
10	5.4	1.6	1.8	9.7	1.5	PPD-10	PSD-10
12	7.4	1.6	1.8	11.7	1.5	PPD-12	PSD-12
15	10.4	1.6	1.8	14.7	1.5	PPD-15	PSD-15
16	11.4	1.6	1.8	15.7	1.5	PPD-16	PSD-16
20	14	2.2	2.4	19.5	1.5	PPD-20	PSD-20
25	17	3	3.2	24.5	2	PPD-25	PSD-25
30	22	3	3.2	29.5	2	PPD-30	PSD-30
32	24	3	3.2	31.5	2	PPD-32	PSD-32
40	32	3	3.2	39.5	2	PPD-40	PSD-40
50	40	3.7	4	49.5	2.5	PPD-50	PSD-50
63	53	3.7	4	62.4	2.5	PPD-63	PSD-63
80	65	5.6	6	79.4	3	PPD-80	PSD-80
100	85	5.6	6	99.4	3	PPD-100	PSD-100
125	110	5.6	6	124.3	3.5	PPD-125	PSD-125
140	125	5.6	6	139.3	3.5	PPD-140	PSD-140
160	140	7.6	8	159.3	5	PPD-160	PSD-160
180	160	7.6	8	179.3	5	PPD-180	PSD-180

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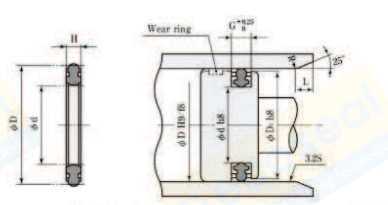
Related products: PDU-Packings, SWA-Wear rings and SWB-Wear rings

PSD-Packings

Pneumatic packings for pistons
(Installable in one-piece groove)



Dimension table



Details of groove



- Consider adopting divided grooves if one-piece groove is technically advise.
- ϕD H9/B8 would be modified according to the variation of the bearing structure.
- For applications installed together with wear rings, refer to the dimension table of the applicable wear ring.

Dimension table of PSD-Packings

(Unit : mm)

Packing & Groove dimensions						Part No.	
D	d	H	G	D ₁	L	Standard material (RN 713)	High temperature- resistant material (RF 704)
10	5.4	1.6	1.8	9.7	1	PSD-10	PSD-10F
12	7.4	1.6	1.8	11.7	1	PSD-12	PSD-12F
15	10.4	1.6	1.8	14.7	1	PSD-15	PSD-15F
16	11.4	1.6	1.8	15.7	1	PSD-16	PSD-16F
20	14	2.24	2.4	19.5	1.5	PSD-20	PSD-20F
25	17	3	3.2	24.5	2	PSD-25	PSD-25F
30	22	3	3.2	29.5	2	PSD-30	PSD-30F
32	24	3	3.2	31.5	2	PSD-32	PSD-32F
38	30	3	3.2	37.5	2	PSD-38	PSD-38F
40	32	3	3.2	39.5	2	PSD-40	PSD-40F
44	36	3	3.2	43.5	2	PSD-44	PSD-44F
50	40	3.8	4	49.5	2.5	PSD-50	PSD-50F
56	46	3.8	4	55.5	2.5	PSD-56	PSD-56F
60	50	3.8	4	59.5	2.5	PSD-60	PSD-60F
63	53	3.8	4	62.4	2.5	PSD-63	PSD-63F
70	55	5.6	6	69.4	3	PSD-70	PSD-70F
75	56	5.6	6	74.4	3	PSD-75	PSD-75F
80	65	5.6	6	79.4	3	PSD-80	PSD-80F
85	70	5.6	6	84.4	3	PSD-85	PSD-85F
90	75	5.6	6	89.4	3	PSD-90	PSD-90F
95	80	5.6	6	94.4	3	PSD-95	PSD-95F
100	85	5.6	6	99.4	3	PSD-100	PSD-100F
110	95	5.6	6	109.3	3	PSD-110	PSD-110F
120	105	5.6	6	119.3	3.5	PSD-120	PSD-120F
125	110	5.6	6	124.3	3.5	PSD-125	PSD-125F
140	125	5.6	6	139.3	3.5	PSD-140	PSD-140F
150	135	5.6	6	149.3	3.5	PSD-150	PSD-150F
160	140	7.6	8	159.3	5	PSD-160	PSD-160F
175	155	7.6	8	174.3	5	PSD-175	PSD-175F
180	160	7.6	8	179.3	5	PSD-180	PSD-180F
200	180	7.6	8	199	5	PSD-200	PSD-200F
250	230	7.6	8	249	5	PSD-250	PSD-250F
300	280	7.6	8	299	5	PSD-300	PSD-300F

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- Packings with the part numbers in light blue require the confirmation of their availability prior to ordering. These items are subject to the appointment without notice.
- Replacement of an abolished product requires producing the new tooling at your expense.
- Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

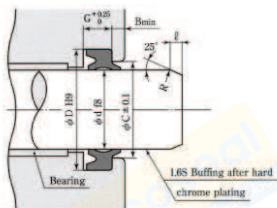
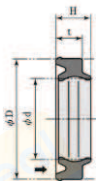
Related products: PDU-Packings, SWA-Wear rings and SWB-Wear rings

PDU-Packings

Pneumatic packings and wipers for rods
(Installable in one-piece groove)



Dimension table



Details of groove



→ Direction of pressure

- Note:
- Packings should be installed in the direction specified on the above schematic.
 - Consider adopting divided grooves if one-piece groove is technically adverse.

Dimension table of PDU-Packings

(Unit: mm)

d	D	Packing & Groove dimensions							Part No.											
		RN 818	RF 905	t	G	C	B	r	f	Standard material (RN 818)	High temperature-resistant material (RF 905)									
6	10	4.4	3	3.5	7.6	2	0.5	1.5	PDU-6Z	PDU-6F										
8	12										4.3	4.7	3.5	4	9.6	2	0.5	1.5	PDU-8Z	PDU-8F
10	14										4.9	4.7	3.5	4	11.6	2	0.5	1.5	PDU-10Z	PDU-10F
12	16										4.9	4.7	3.5	4	13.6	2	0.5	1.5	PDU-12Z	PDU-12F
14	18	4.9	4.7	3.5	4	15.6	2	0.5	1.5	PDU-14Z	PDU-14F									
16	24	7.5	7.3	5.5	6	19.4	2	0.6	2	PDU-16Z	PDU-16F									
20	28	7.5	7.3	5.5	6	23.4	2	0.6	2	PDU-20Z	PDU-20F									
25	33	7.5	7.3	5.5	6	28.4	2	0.6	2	PDU-25Z	PDU-25F									
30	40	8.5	8.5	7	34	2	0.8	2.5	PDU-30Z	PDU-30F										
32	42										6.5	7	36	2	0.8	2.5	PDU-32Z	PDU-32F		
35	45	8.5	8.5	7	39	2	0.8	2.5	PDU-35Z	PDU-35F										
36	46	8.5	8.5	7	40	2	0.8	2.5	PDU-36Z	PDU-36F										
40	50	8.5	8.5	7	44	2	0.8	2.5	PDU-40Z											
45	55	8.5	8.5	7	48	2	0.8	2.5	PDU-45Z											

- Orders and inquiries are acceptable by part numbers.
- Products with the part numbers in blue background are stock items.
- Packings with the part numbers in light blue require the confirmation of their availability prior to ordering. These items are subject to the abolition without notice. Reclamation of an abolished product requires producing the new tooling at your expense.
- Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

Related products: PPD-Packings and PSD-Packings

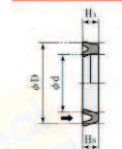
Mini Y-Packings

Pneumatic packings for pistons and rods
(Installable in one-piece groove)

Dimension table

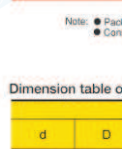


Profile of MYA type

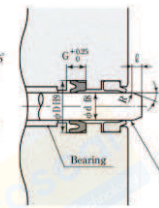


→ Direction of pressure

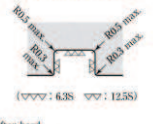
Profile of MYN type



- Note:
- Packings should be installed in the direction specified in the above schematic.
 - Consider adopting divided grooves if one-piece groove is technically adverse.



Details of groove



Dimension table of Mini Y-Packings

(Unit: mm)

d	D	Packing & Groove dimensions						Part No.	
		H _A	H _B	G	L	ℓ	Standard material 1 (RN 703)	Standard material 2 (RN 716)	
3	6	2.1	2	2.5	2	1.5	MYA-3	MYN-3	
4	7	2.1	2	2.5	2	1.5	MYA-4	MYN-4	
5	8	2.1	2	2.5	2	1.5	MYA-5	MYN-5	
6	9	2.1	2	2.5	2	1.5	MYA-6	MYN-6	
7	10	2.1	2	2.5	2	1.5	MYA-7	MYN-7	
8	11	2.1	2	2.5	2	1.5	MYA-8	MYN-8	
9	12	2.1	2	2.5	2	1.5	MYA-9	MYN-9	
10	13	2.1	2	2.5	2	1.5	MYA-10	MYN-10	
10	14	2.8	2.7	3.2	2.5	2	MYA-10A	MYN-10A	
11	15	2.8	2.7	3.2	2.5	2	MYA-11	MYN-11	
11.2	15.2	2.8	2.7	3.2	2.5	2	MYA-11.2		
12	16	2.8	2.7	3.2	2.5	2	MYA-12	MYN-12	
12.5	16.5	2.8	2.7	3.2	2.5	2	MYA-12.5	MYN-12.5	
14	18	2.8	2.7	3.2	2.5	2	MYA-14	MYN-14	
15	19	2.8	2.7	3.2	2.5	2	MYA-15	MYN-15	
16	20	2.8	2.7	3.2	2.5	2	MYA-16	MYN-16	
18	22	2.8	2.7	3.2	2.5	2	MYA-18	MYN-18	
20	24	2.8	2.7	3.2	2.5	2	MYA-20	MYN-20	
21	25	2.8	2.7	3.2	2.5	2	MYA-21	MYN-21	
22	26	2.8	2.7	3.2	2.5	2	MYA-22	MYN-22	
24	30	4.2	4.0	4.7	3	3	MYA-24	MYN-24	
34	40	4.2	4.0	4.7	3	3	MYA-34	MYN-34	

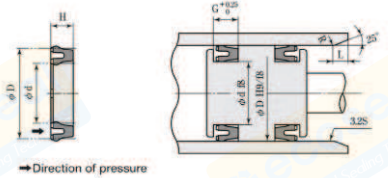
- Orders and inquiries are acceptable by part numbers.
- Products with the part numbers in blue background are stock items.
- Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

Related products: SER-Wipers, SWA-Wear rings and SWB-Wear rings

MYP-Packings

Pneumatic packings for pistons
(Installable in one-piece groove)

Dimension table



→ Direction of pressure

Details of groove



- Note: ● Packings should be installed in the direction specified on the above schematic.
- Consider adopting divided grooves if one-piece groove is technically adverse.
- ϕD H9/15 would be modified according to the variation of the bearing structure.

Dimension table of MYP-Packings

(Unit : mm)

Packing & Groove dimensions					Part No.
D	d	H	G	L	Standard material (RN 722)
6	3	2.2	2.5	2	MYP- 6
8	5	2.2	2.5	2	MYP- 8
10	7	2.2	2.5	2	MYP-10
12	9	2.2	2.5	2	MYP-12
15	11	2.8	3.2	2.5	MYP-15
16	12	2.8	3.2	2.5	MYP-16

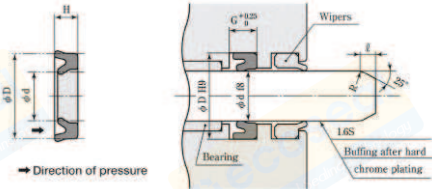
- ★ Orders and inquiries are acceptable by part numbers.
- ★ MYP-Packings are made-to-order products.
- ★ Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

Related products: MYR-Packings, SWA-Wear rings and SWB-Wear rings

MYR-Packings

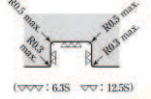
Pneumatic packings for rods
(Installable in one-piece groove)

Dimension table



→ Direction of pressure

Details of groove



- Note: ● Packings should be installed in the direction specified on the above schematic.
- Consider adopting divided grooves if one-piece groove is technically adverse.

Dimension table of MYR-Packings

(Unit : mm)

Packing/Groove dimensions					Part No.
d	D	H	G	f	Standard material (RN B 18)
3	6	2.0	2.5	1.5	MYR- 3
4	7	2.0	2.5	1.5	MYR- 4
5	8	2.0	2.5	1.5	MYR- 5
6	9	2.0	2.5	1.5	MYR- 6
8	11	2.0	2.5	1.5	MYR- 8
10	13	2.0	2.5	1.5	MYR-10
10	14	2.7	3.2	2	MYR-10A
12	16	2.7	3.2	2	MYR-12
14	18	2.7	3.2	2	MYR-14
15	19	2.7	3.2	2	MYR-15
16	20	2.7	3.2	2	MYR-16
20	24	2.7	3.2	2	MYR-20

- ★ Orders and inquiries are acceptable by part numbers.
- ★ Products with the part numbers in blue back ground are stock items.
- ★ Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

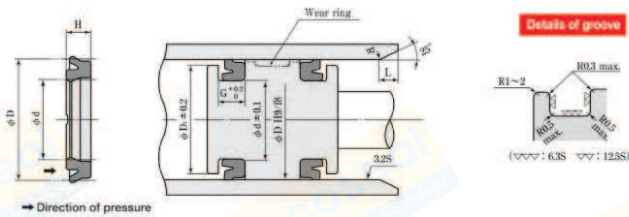
Related products: MYP-Packings and SER-Wipers

PPY-Packings

Pneumatic packings for pistons
(Installable in one-piece groove)



Dimension table



Note: ● Packings should be installed in the direction specified on the above schematic.
● Consider adopting divided grooves if one-piece groove is technically adverse.
● ϕD H9/f8 would be modified according to the variation of the bearing structure.
For applications installed together with wear rings, refer to the dimension table of the applicable wear ring.

Dimension table of PPY-Packings

(Unit: mm)

Packing & Groove dimensions						Part No.	
D	d	H	D ₁	G	L	Standard material (RN 713)	High temperature-resistant material (RF 704)
6	3	2.2	5.5	2.6	2.5	PPY- 6	PPY- 6F
8	4	2.5	7.5	3.3	2.5	PPY- 8	PPY- 8F
10	6	2.9	9.5	3.3	2.5	PPY-10	PPY-10F
12	8	2.9	11.5	3.3	2.5	PPY-12	PPY-12F
15	10	3.6	14	4	2.5	PPY-15	PPY-15F
16	11	3.6	15	4	2.5	PPY-16	
20	14	4.3	19	4.7	3	PPY-20	
25	17	5.3	24	5.7	3	PPY-25	
32	24	5.3	31	5.7	3	PPY-32	
40	30	6.5	39	7	3	PPY-40	

★Orders and inquiries are acceptable by part numbers.
★Products with the part numbers in blue back ground are stock items.
★There is no slit on the inner diameter of PPY-6.
★The use of SWB-Wear rings is recommended on ϕD cylinder and larger sizes.
★Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

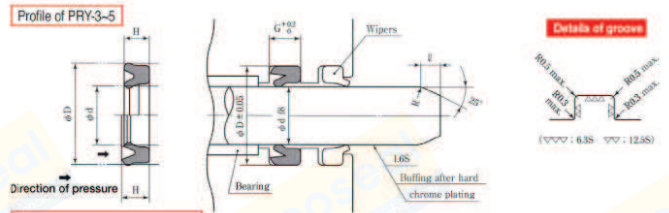
Related products: PPY-Packings and SWB-Wear rings

PRY-Packings

Pneumatic packings for rods
(Installable in one-piece groove)



Dimension table



Profile of PRY-3~5

Profile of PRY-6 and larger products

Note: ● Packings should be installed in the direction specified on the above schematic.
● Consider adopting divided grooves if one-piece groove is technically adverse.

Dimension table of PRY-Packings

(Unit: mm)

Packing & Groove dimensions					Part No.	
d	D	H	G	f	Standard material (RN 713)	High temperature-resistant material (RF 704)
3	7	2.9	3.2	1.5	PRY- 3	PRY- 3F
4	8	2.9	3.2	1.5	PRY- 4	PRY- 4F
5	9	2.9	3.2	1.5	PRY- 5	PRY- 5F
6	10	3.5	4	1.5	PRY- 6	PRY- 6F
8	12	3.5	4	1.5	PRY- 8	PRY- 8F
10	14	3.5	4	1.5	PRY-10	
12	17	4	4.5	1.5	PRY-12	
14	19	4	4.5	1.5	PRY-14	
16	22	5	5.7	1.5	PRY-16	

★Orders and inquiries are acceptable by part numbers.
★PRY-Packings are made-to-order products.
★Packings are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and the storage.

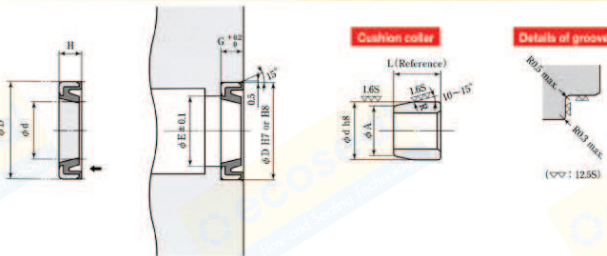
Related products: PPY-Packings and SER-Wipers.

PCS-Cushion seals

Pneumatic cushion seals
(Press fit installable)



Dimension table



Note: ● Cushion seals should be installed in the direction specified in the left schematic.



Standard: Parker EU

Pneumatic Seals

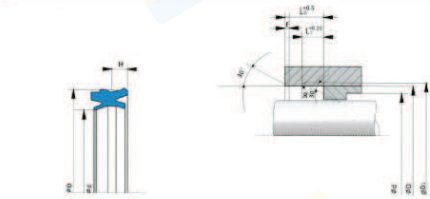
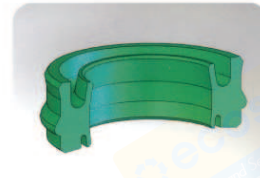
Description: EU rod seal/wiper for piston rods
in pneumatic cylinders combines three
functions: sealing-wiping-fixing.

Advantages

- No danger of corrosion.
- No dust corners.
- Low friction values and high length of operation.
- Suitable for use in dry as well as oil-free air after initial assembly lubrication.

Technical Data

Operating conditions
Pressure: ≤1.6MPa
Speed: 50.8m/s
Media: Air
Material
Material: TPU
Hardness: 88-92 Shore A
Color: Turquoise



specification & groove size

d	D	H	D1	L1	L2	R	F
12	19	10	21	7.7	12	1	1.5
12	20	10.7	22	8.8	13	1.1	1.5
12	22	10.7	24	8.8	13	1.1	1.5
14	24	10.7*	26	8.8	13	1.1	1.5
16	26	10.7	28	8.8	13	1.1	1.5
18	26	10.7	28	8.8	13	1.1	1.5
18	28	10.7	30	8.8	13	1.1	1.5
20	30	10.7	32	8.8	13	1.1	1.5
22	32	11.2	34.5	9.4	14	1.4	2
25	35	11.2	37.5	9.4	14	1.4	2
30	40	11.2	42.5	9.4	14	1.4	2
32	42	11.2	44.5	9.4	14	1.4	2
40	50	11.2	52.5	9.4	14	1.4	2
45	55	12.2	58.2	10.4	15	1.8	2
50	60	12.2	63.2	10.4	15	1.8	2
63	75	13	78.2	11.4	16	1.8	2

Dimension table of PCS-Cushion seals

(Unit: mm)

Cushion seal & Groove dimensions							Part No.	
d	D	H	G	E	A	L	Standard material (RF 903)	High temperature-resistant material (RF 903)
10	18	4.7	5	12.5	8	15-20	PCS-10	
11.2	19.2	4.7	5	13.7	8.2	15-20	PCS-11.2	
14	22	4.7	5	16.5	12	15-20	PCS-14	
15	23	4.7	5	17.5	13	15-20	PCS-15	
16	24	4.7	5	18.5	14	15-20	PCS-16	PCS-16F
18	26	4.7	5	20.5	16	15-20	PCS-18	PCS-18F
20	28	4.7	5	22.5	18	15-20	PCS-20	PCS-20F
22	30	4.7	5	24.5	20	15-20	PCS-22	
22.4	30.4	4.7	5	24.9	20.4	15-20	PCS-22.4	
24	32	4.7	5	26.5	22	15-20	PCS-24	PCS-24F
25	33	4.7	5	27.5	23	15-30	PCS-25	PCS-25F
28	36	4.7	5	30.5	26	15-30	PCS-28	PCS-28F
30	40	5.6	6	33	28	20-30	PCS-30	PCS-30F
31.5	41.5	5.6	6	34.5	29.5	20-30	PCS-31.5	
35	45	5.6	6	38	33	20-30	PCS-35	PCS-35F
35.5	45.5	5.6	6	38.5	33.5	20-30	PCS-35.5	
38	48	5.6	6	41	36	20-30	PCS-38	PCS-38F
40	50	5.6	6	43	38	20-40	PCS-40	PCS-40F
45	55	5.6	6	48	43	20-40	PCS-45	
50	62	6.6	7	53	48	25-40	PCS-50	PCS-50F
55	67	6.6	7	58	53	25-40	PCS-55	
56	68	6.6	7	59	54	25-40	PCS-56	
60	72	6.6	7	63	58	25-40	PCS-60	PCS-60F
65	77	6.6	7	68	63	25-40	PCS-65	
75	87	6.6	7	78	73		PCS-0075002N803	PCS-0075001F903
85	97	6.6	7	88	83		PCS-0085002N803	PCS-0085001F903
120	132	6.6	7	123	118		PCS-0120002N803	PCS-0120001F903
130	142	6.6	7	133	128		PCS-0130001N803	

● Orders and inquiries are acceptable by part numbers.
● Products with the part numbers in blue background are stock items.
● Cushion seals with the part numbers in light italic require the confirmation of their availability prior to ordering. These items are subject to the abatement without notice.
● Reclamation of an abated product requires producing the new tooling at your expense.
● Cushion seals are adequately packaged for the optimum storage. Refer to "Cautions" at page 1 for the handling and storage.



Pneumatic piston Seals

Standard: Parker PP

Description: PP Pneumatic cushioning seal is specially designed for cushioning spears in pneumatic cylinders.



Advantages

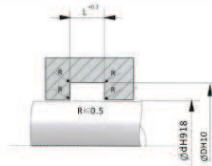
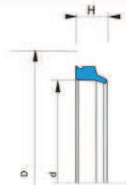
- As the seal function as a check valve, no separate valve is necessary.
- Optimum use of design related cushion travel.
- High cushioning consistency due to automatic centering, even in the case of misalignment of the cushioning spear to the cylinder head.
- Increased reliability due to two independent sealing systems (flexible sealing lips and axial sealing areas).
- Easy installation.

Technical Data

Operating conditions
 Pressure: ≤ 1.6 Mpa.
 Temperature: PU: $-35^{\circ}\text{C} + 80^{\circ}\text{C}$
 Speed: ≤ 1.0 m/s
 Media: Lubricated as well as dry and oil-free air (after initial lubrication during assembly)

Material

Material: TPU
 Hardness: 90-94 Shore A.
 Color: Turquoise.



specification&groove size

PP Standard: Parker PP

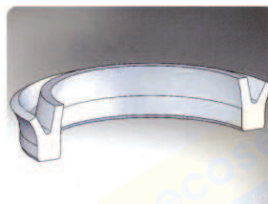
d	D	H	L
40	55.5	6	6.3
45	60.5	6	6.3
50	65.5	6	6.3
55	70.5	6	6.3
60	75.5	6	6.3
63	78.5	6	6.3
65	80.5	6	6.3
70	85.5	6	6.3
75	90.5	6	6.3
80	95.5	6	6.3
85	100.5	6	6.3
90	105.5	6	6.3
95	110.5	6	6.3
100	115.5	6	6.3
105	120.5	6	6.3
110	125.5	6	6.3
115	130.5	6	6.3
120	135.5	6	6.3
125	140.5	6	6.3
130	145.5	6	6.3
135	150.5	6	6.3
140	155.5	6	6.3
145	160.5	6	6.3
156	171	6	6.3



Pneumatic Seals

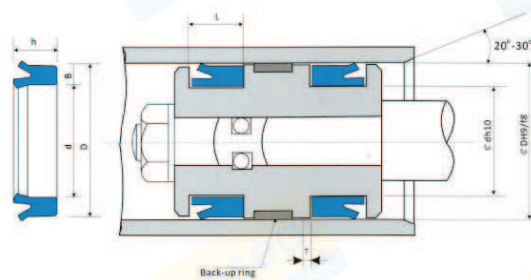
Pneumatic Piston Seals

This standard is suitable for sealing of all kinds of reciprocating air cylinders.



USAGE: This standard is suitable for sealing of all kinds of reciprocating air cylinders.

Operating Temperature: $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
 Operating Pressure: < 10 Mpa
 Operating Medium: compressed air
 products rigidity: $75 \pm 2^{\circ}\text{A}$
 Metrial: TPU, Nitrile rubber, Fluopine rubber



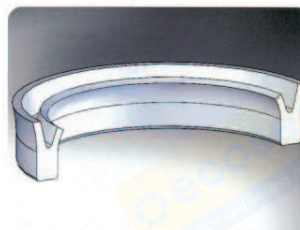
QY-D | pneumatic piston seal

Serial No.	Nominal size of sealing element				Grooves dimensions		
	D	d	B	H	∅D	∅d	L ^{1,4,25}
QY-D20	20	12	4	8	20	12	9
QY-D22	22	14	4	8	22	14	9
QY-D25	25	17	4	8	25	17	9
QY-D30	30	22	4	8	30	22	9
QY-D32	32	24	4	8	32	24	9
QY-D35	35	27	4	8	35	27	9
QY-D36	36	28	4	8	36	28	9
QY-D40	40	32	4	8	40	32	9
QY-D50	50	42	4	8	50	42	9
QY-D55	55	47	4	8	55	47	9
QY-D56	56	48	4	8	56	48	9
QY-D56 × 5	56	53	5	12	56	53	13
QY-D63 × 5	63	53	5	12	63	53	13
QY-D63 × 6	63	51	6	12	63	51	13
QY-D70 × 5	70	60	5	12	70	60	13
QY-D70 × 6	70	58	6	12	70	58	13
QY-D80 × 5	80	70	5	12	80	70	13
QY-D80 × 6	80	68	6	12	80	68	13
QY-D80 × 6	80	68	6	12	80	68	13
QY-D6-90 × 5	90	80	5	12	90	80	13
QY-D6-90 × 6	90	78	6	12	90	78	13
QY-D6-100 × 5	100	90	5	12	100	90	13
QY-D6-100 × 6	100	88	6	12	100	88	13
QY-D6-110 × 5	110	100	5	12	110	100	13
QY-D6-110 × 6	110	98	6	12	110	98	13
QY-D6-125 × 5	125	115	5	12	125	115	13
QY-D6-125 × 6	125	113	6	12	125	113	13
QY-D6-130 × 5	130	120	5	12	130	120	13
QY-D6-130 × 6	130	118	6	12	130	118	13
QY-D6-140 × 5	140	130	5	12	140	130	13
QY-D6-140 × 6	140	128	6	12	140	128	13
QY-D150 × 6	150	138	6	12	150	138	13
QY-D160 × 5	160	150	5	12	160	150	13
QY-D160 × 6	160	148	6	12	160	148	13
QY-D170 × 7.5	170	155	7.5	16	170	155	17
QY-D170 × 8	170	154	8	16	170	154	17
QY-D180 × 7.5	180	165	7.5	16	180	165	17
QY-D180 × 8	180	164	8	16	180	164	17
QY-D190 × 7.5	190	175	7.5	16	190	175	17
QY-D190 × 8	190	174	8	16	190	174	17
QY-D200 × 7.5	200	185	7.5	16	200	185	17
QY-D200 × 8	200	184	8	16	200	184	17
QY-D220 × 7.5	220	205	7.5	16	220	205	17
QY-D220 × 8	220	204	8	16	220	204	17
QY-D250 × 7.5	250	235	7.5	16	250	235	17
QY-D250 × 8	250	234	8	16	250	234	17
QY-D300 × 7.5	300	285	7.5	16	300	285	17
QY-D300 × 8	300	284	8	16	300	284	17
QY-D320 × 7.5	320	305	7.5	16	320	305	17
QY-D320 × 8	320	304	8	16	320	304	17
QY-D340 × 10	340	320	10	20	340	320	21
QY-D360 × 10	360	340	10	20	360	340	21
QY-D400 × 10	400	380	10	20	400	380	21

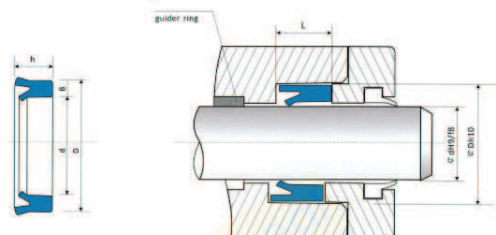


Pneumatic Seals
Pneumatic Rod Seals

This standard is suitable for sealing of all kinds of reciprocating air cylinders.



USAGE: This standard is suitable for seal all kinds of reciprocating air cylinder.
 Operating Temperature: -40°C ~ +80°C
 Operating Pressure: <10MPa
 Operating Medium: compressed air
 products rigidity: 75 ± 2° A
 Material: TPU, Nitrile rubber, Fluorine rubber



QY-d | pneumatic rod seal

Serial No.	Nominal size of sealing element				Grooves dimensions		
	D	d	B	H	∅D	∅d	L ^{±0.25}
QY-d12	12	20	4	8	12	20	9
QY-d14	14	22	4	8	14	22	9
QY-d16	16	24	4	8	16	24	9
QY-d18	18	26	4	8	18	26	9
QY-d20	20	28	4	8	20	28	9
QY-d22	22	30	4	8	22	30	9
QY-d25	25	33	4	8	25	33	9
QY-d28	28	36	4	8	28	36	9
QY-d32	32	40	4	8	32	40	9
QY-d36	36	44	4	8	36	44	9
QY-d40	40	48	4	8	40	48	9
QY-d45	45	53	4	8	45	53	9
QY-d50×5	50	60	5	12	50	60	13
QY-d50×6	50	62	6	12	50	62	13
QY-d56×5	56	66	5	12	56	66	13
QY-d56×6	56	68	6	12	56	68	13
QY-d60×5	60	70	5	12	60	70	13
QY-d60×6	60	72	6	12	60	72	13
QY-d63×5	63	73	5	12	63	73	13
QY-d63×6	63	75	6	12	63	75	13
QY-d70×5	70	80	5	12	70	80	13
QY-d70×6	70	82	6	12	70	82	13
QY-d80×5	80	90	5	12	80	90	13
QY-d80×6	80	92	6	12	80	92	13
QY-d90×5	90	100	5	12	90	100	13
QY-d90×6	90	102	6	12	90	102	13
QY-d100×5	100	110	5	12	100	110	13
QY-d100×6	100	112	6	12	100	112	13
QY-d110×5	110	120	5	12	110	120	13
QY-d110×6	110	122	6	12	110	122	13
QY-d125×5	125	135	5	12	125	135	13
QY-d125×6	125	137	6	12	125	137	13
QY-d140×5	140	150	5	12	140	150	13
QY-d140×6	140	152	6	12	140	152	13
QY-d160×7.5	160	175	7.5	16	160	175	17
QY-d160×8	160	176	8	16	160	176	17
QY-d180×7.5	180	195	7.5	16	180	195	17
QY-d180×8	180	196	8	16	180	196	17
QY-d200×7.5	200	215	7.5	16	200	215	17
QY-d200×8	200	216	8	16	200	216	17
QY-d220×7.5	220	235	7.5	16	220	235	17
QY-d220×8	220	236	8	16	220	236	17
QY-d250×7.5	250	265	7.5	16	250	265	17
QY-d250×8	250	266	8	16	250	266	17
QY-d280×7.5	280	295	7.5	16	280	295	17
QY-d280×8	280	296	8	16	280	296	17
QY-d320×7.5	320	335	7.5	16	320	335	17
QY-d320×8	320	336	8	16	320	336	17
QY-d340×10	340	360	10	20	340	360	21
QY-d360×10	360	380	10	20	360	380	21



Pneumatic Piston Seals

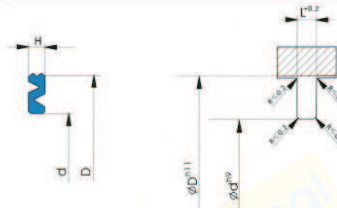
Description: PZ pneumatic piston seal has been developed for use in pneumatic cylinders and valves. The double-acting cylinder seal requires only small housing dimensions. Low friction cylinder seal with two micro sealing edges and grease deposit in between.



- Advantages
- Good sealing performance in small installation grooves.
 - Smooth running thanks to optimum lubricant-retaining sealing lip geometry.
 - Low static and dynamic friction.
 - For use in dry and oil-free air. Initial lubrication on assembly is essential for long service life.
 - Easy installation.

Technical Data
 Operating conditions
 Pressure: ≤1.2 Mpa
 Temperature: -20 ~ +80° C
 Speed: ≤1.0m/s
 Media: Air

Material
 Material: RP/FKM/TPU



for surface finish, entrance chamfer angle and other installation size, please check *recommendation for groove process precision.

PZ | pneumatic piston seal

specification&groove size				
Serial No.	d	D	H	L
PZ-7	7	12	2	2.5
PZ-9	9	16	2.1	2.5
PZ-13	13	20	2.1	2.5
PZ-18	18	25	2.1	2.5
PZ-19	19	30	2.5	3
PZ-21	21	30	2.5	3
PZ-23	23	32	2.5	3
PZ-31	31	40	2.5	3
PZ-41	41	50	2.5	3
PZ-51	51	63	3.4	4
PZ-68	68	80	3.4	4
PZ-88	88	100	3.4	4
PZ-110	110	125	4.4	5

E4

Pneumatic piston Seals

Standard: Parker E4

Description: E4 piston seal is a lip-seal specially designed for use in pneumatics. The dimensions of the profile E4 correspond to the cylinder diameters according to ISO3320, CETOP RP52 P, RP43 P and RP53P.



Advantages

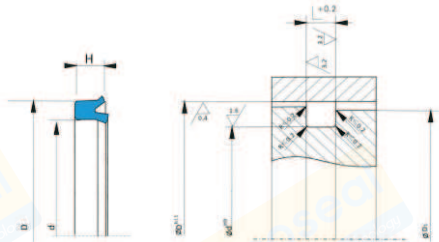
- No danger of corrosion.
- No dust corners.
- Low friction values and high length of operation.
- Suitable for use in dry as well as oil-free air after initial assembly lubrication.

Technical Data

Operating conditions
 Pressure: ≤1.6Mpa
 Temperature: -35 ~ +80°C
 Speed: ≤1m/s

Material

Material: TPU
 Hardness: 65-75 Shore A
 Color: Turquoise



E4 | Standard: Parker E4

specification&groove size					
Serial No.	D	d1	H	L	D1
E4-10	10	5	3	3.5	9
E4-12	12	6	4	4.5	11
E4-14	14	7	4	4.5	11
E4-16	16	8	4	4.5	13
E4-16	16	8	5.5	6	15
E4-16	16	9	5	5.5	15
E4-16	16	10	4	4.5	15
E4-20	20	12	5.5	6	19
E4-20	20	14	4	4.5	19
E4-20.5	20.5	14	4	4.5	19.5
E4-22	22	16	5	5.5	21
E4-24	24	16	5.5	6	23
E4-25	25	15.5	5.8	6.3	24
E4-25	25	17	4.5	5	24
E4-25	25	17	5.5	6	24
E4-28	28	18	7	7.5	26.5
E4-32	32	20	6.5	7	30
E4-32	32	22	7	7.5	30.5
E4-32	32	24	5.5	6	31
E4-34	34	24	7	7.5	32.5
E4-36	36	26	7	7.5	34.5
E4-40	40	30	7	7.5	38.5
E4-42	42	30	6	6.5	40
E4-45	45	37	7	7.5	44
E4-50	50	40	7	7.5	48.5
E4-60	60	50	7	7.5	58.5
E4-63	63	53	7	7.5	61.5
E4-70	70	58	7	7.5	68
E4-75	75	65	7.5	8	73.5
E4-80	80	68	8.5	9.5	78
E4-84	84	72	8.5	9.5	82
E4-100	100	88	8.5	9.5	98
E4-105	105	93	8.5	9.5	103
E4-110	110	98	8.5	9.5	108
E4-120	120	105	10	11	117.5
E4-125	125	110	10	11	122.5
E4-140	140	125	10	11	137.5
E4-150	150	135	10	11	147.5
E4-160	160	140	14	15	155
E4-160	160	145	10	11	157.5
E4-200	200	180	14	15	195
E4-220	220	199	15	16	215
E4-250	250	225	18	19	242.5
E4-250	250	226	16	17	242.5
E4-250	250	230	14	15	245
E4-320	320	295	14	15	312.5
E4-320	320	295	17	18	460
E4-470	470	440	21	22	469.4

Z8

Pneumatic Seals

Pneumatic Piston Seals

Z8 | pneumatic piston seal

Description: Z8 pneumatic piston seal is a single-acting lip seal for pistons in pneumatic cylinders and valves. It requires small dimensions. The standard series of profile Z8 conforms to the cylinder diameters of ISO 3320 and CETRO RP 52 P, RP 43 P and RP 53 P.

Advantages

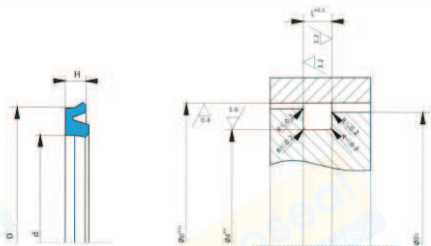
- Good sealing performance in small installation grooves.
- Smooth running thanks to optimum lubricant-retaining sealing lip geometry.
- Low static and dynamic friction.
- Pressure relief grooves at the outer diameter/ nubs on the piston side of the dynamic sealing lip ensure optimal function with flow-controlled exhaust air.
- For use in dry and oil-free air.
- Suitable for plastic pistons thanks to special design of the static sealing area.
- High functional reliability due to lip seal design.
- Easy installation.
- Also suitable for cylinders with cushioning.

Technical Data

Operating conditions
 Pressure: ≤ 1.6 Mpa
 Temperature: NBR: $-20 \sim +80^\circ\text{C}$
 PU: $-35 \sim +80^\circ\text{C}$

Speed: ≤ 1.0 m/s
 Media: Air

Material
 Material: NBR/PU



specification & groove size					
Serial No.	D	d	H	L	D1
Z8-4	4	1.5	1.5	2	3.6
Z8-5	5	2.5	1.5	2	4.6
Z8-6	6	3	2	2.5	5.6
Z8-8	8	4	2.55	3	7.6
Z8-8A	8	4.8	2.3	2.7	7.6
Z8-8B	8	5.45	2.3	2.8	7.6
Z8-10	10	3	3.5	4	9.6
Z8-10A	10	6	2.55	3	9.6
Z8-10B	10	6.45	2.55	3	9.6
Z8-12	12	7	2.55	3	11.6
Z8-13	13	8	2.55	3	12.6
Z8-14	14	8	2.55	3	13.6
Z8-15	15	9	2.55	3	14.6
Z8-16	16	10	2.55	3	15.6
Z8-16A	16	11	2.55	3	15.6
Z8-18	18	12	2.55	3	17.6
Z8-20	20	14	2.55	3	19.6
Z8-21	21	15	2.55	3	20.4
Z8-22	22	16	2.55	3	21.4
Z8-24	24	18	3.25	3.5	23.4
Z8-25	25	19	3.25	3.5	24.4
Z8-28	28	22	3.25	3.5	27.4
Z8-30	30	22	3.25	3.5	29.4
Z8-30	30	22.5	4.8	5.2	29.4
Z8-32	32	24	3.25	3.5	31.4
Z8-35	35	27	3.25	3.5	34.4
Z8-36	36	28	3.25	3.5	35.4
Z8-37	37	29	3.25	3.5	36.4
Z8-38	38	30	3.25	3.5	37.4
Z8-40	40	32	3.25	3.5	39.4
Z8-42	42	34	3.25	3.5	41.4
Z8-45	45	37	3.25	3.5	44.4
Z8-50	50	42	3.25	3.5	49.4
Z8-52	52	42	4.25	4.5	51.4
Z8-57	57	50.5	3.25	3.5	56.4
Z8-58	58	48	4.25	4.5	57.4
Z8-63	63	53	4.25	4.5	62.4
Z8-80	80	70	4.25	4.5	79.4
Z8-90	90	80	4.25	4.5	89.4
Z8-100	100	90	4.25	4.5	99.4
Z8-125	125	105	8.25	8.5	123.8
Z8-150	150	130	8.25	8.5	148.8
Z8-160	160	140	8.25	8.5	158.8
Z8-200	200	180	8.25	8.5	198.8

