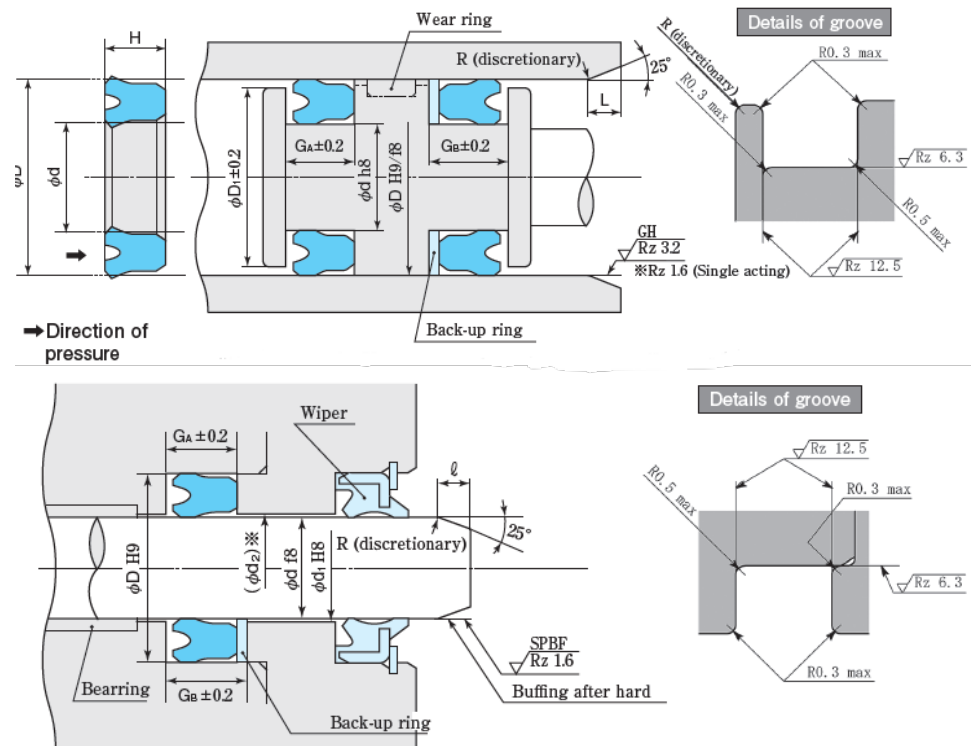


SKY-Packings (Piston & Rod Packings)

Profiles (Left Section)



Service Range

Standard Material				
Material Codes	Pressure MPa {kgf/cm ² }	Max. speed (m/s)	Temperature range (°C)	
NBR(RN906) FKM[RF905] FKM[RF907]	KY-Packings〈Clearance of extrusion H9/f8〉	14 {150}	1[0.5]	-10~80 [-5~150]
	w/Back-up rings	30 {300}		
	w/Standard & high pressure back-up rings	35 {350}	0.5	

Material codes • Max. speed • The range with [] refers FKM materials

Remarks

- KY-Packings available in abundant dimensions. With the large cross-sectional area,
- KY-Packings provide stable sealing performance in vast applications.

Remarks

- Packings should be installed in the direction specified on the above schematic.
- Adopt split grooves. However, note that D=140 for pistons and larger sizes, and d=80 for rods and larger sizes are installable in one-piece groove. For these cases, specify back-up rings with bias cut (TC-KY-○○). Besides, one piece groove can be technically adverse for some groove locations.
- ϕD H9/f8 changes according to the variation of the bearing structure. For applications installed in combination with wear rings, refer to the dimension table of the applicable wear rings.
 - For applications without back-up rings, refer to the limiting curve of extrusion of seals for size ($\phi d2$)
 - JIS standard sequence of surface roughness symbols refer to HERE.

Dimension Table

Packings & Groove dimensions (Unit : mm)									Part No.					
d	D	H	GA	GB	D1	d1 (Reference)	L	ℓ	Standard material (RN 906)	High temperature- resistant (RF 905) (RF 907)	Low temperature- resistant (RN 903)	HNBR		Standard back-up ring (PT111)
												(RP902)	(RP903)	
6.3	16.3	7.5	8.5	10.5	15.3	6.7	3	3	KY-6.3	KY-6.3F				TE-KY-6.3
7.1	17.1	7.5	8.5	10.5	16.1	7.5	3	3	KY-7.1					TE-KY-7.1
8	18	7.5	8.5	10.5	17	8.4	3	3	KY-8					TE-KY-8
9	19	7.5	8.5	10.5	18	9.4	3	3	KY-9					TE-KY-9
10	20	7.5	8.5	10.5	19	10.4	3	3	KY-10	KY-10F				TE-KY-10
11.2	21.2	7.5	8.5	10.5	20.2	11.6	3	3	KY-11.2					TE-KY-11.2
12.5	22.5	7.5	8.5	10.5	21.5	12.9	3	3	KY-12.5	KY-12.5F				TE-KY-12.5
14	24	7.5	8.5	10.5	23	14.4	3	3	KY-14					TE-KY-11.2
15	28	6.5	7.5	9.5	24	15.4	3	3	KY-15-1*					TE-KY-12.5
16	26	7.5	8.5	10.5	25	15.4	3	3	KY-15					TE-KY-14
18	28	8	9	11	27	16.4	3	3	KY-16	KY-16F				TE-KY-15-1*
18	31	10	11	13.5	30	18.4	3	3	KY-18-1*					TE-KY-15
18.5	31.5	10	11	13.5	30.5	18.4	3	3	KY-18					TE-KY-16
20	33	10	11	13.5	32	18.9	3	3	KY-18.5					TE-KY-18-1*
20	35	9.5	10.5	13	34	20.4	3	3	KY-20	KY-20F				TE-KY-18
22	35	8	9	11.5	34	20.4	3	3	KY-20-3*					TE-KY-18.5
22	35	10	11	13.5	34	22.4	3	3	KY-22-2*					TE-KY-20
22.4	35.4	10	11	13.5	34.4	22.8	3	3	KY-22.4	KY-22.F				TE-KY-20-3*
25	35	8	9	11	34	25.4	3	3	KY-25-2*	KY-25.1F				TE-KY-22-2*
25	38	10	11	13.5	37	25.4	3	3	KY-25					TE-KY-22
27	40	10	11	13.5	39	27.4	3	3	KY-27					TE-KY-22.4

Packings & Groove dimensions (Unit : mm)									Part No.						
									SKY-Packings						
d	D	H	GA	GB	D1	d1 (Reference)	L	ℓ	Standard material (RN 906)	High temperature- resistant (RF 905) (RF 907)	Low temperature- resistant (RN 903)	HNBR (RP902) (RP903)			
27	40	10	11	13.5	39	27.4	3	3	KY-27					TE-KY-27	
28	40	10	11	13.5	39	28.4	3	3	KY-28-1*					TE-KY-28-1	
28	41	10	11	13.5	40	28.4	3	3	KY-28	KY-28F			●	TE-KY-28	
30	43	10	11	13.5	42	30.5	3	3	KY-30	KY-30F	KY-30N			TE-KY-30	
30	45	10	11	14	44	30.5	3	3	KY-30-3*					TE-KY-30-3*	
31.5	44.5	10	11	13.5	43.5	32	3	3	KY-31.5	KY-31.5F			●	TE-KY-31.5	
32	45	10	11	13.5	44	32.5	3	3	KY-32					TE-KY-32	
34	50	12	13	16	48	34.5	3.5	3.5	KY-34	KY-34F				TE-KY-34	
35	50	10	11	14	48	35.5	3.5	3.5	KY-35-3*					TE-KY-35-3*	
35	50	12	13	16	48	35.5	3.5	3.5	KY-35		KY-35N			TE-KY-35	
35	51	12	13	16	49	35.5	3.5	3.5	KY-35A					TE-KY-35A	
35.5	51.5	12	13	16	49.5	36	3.5	3.5	KY-35.5	KY-35.5F			●	TE-KY-35.5	
36	52	12	13	16	50	36.5	3.5	3.5	KY-36-1*					TE-KY-36-1*	
40	55	10	11	14	53	40.5	3.5	3.5	KY-40-6*	KY-40F			●	TE-KY-40-6*	
40	56	12	13	16	54	40.5	3.5	3.5	KY-40					TE-KY-40	
40	60	12	13	16	58	40.5	3.5	3.5	KY-40-3*	KY-44-1F*				TE-KY-40-3*	
44	60	12	13	16	58	44.5	3.5	3.5	KY-44-2*					TE-KY-44-2*	
45	60	10	11	14	58	45.5	3.5	3.5	KY-45-1*					TE-KY-45-1*	
45	60	12	13	16	58	45.5	3.5	3.5	KY-45-3*					TE-KY-45-3*	
45	61	12	13	16	59	45.5	3.5	3.5	KY-45	KY-45F			●	TE-KY-45	
47	63	12	13	16	61	47.5	3.5	3.5	KY-47				●	TE-KY-47	
50	65	10	11	14	63	50.5	3.5	3.5	KY-50-5*					TE-KY-50-5*	
50	66	12	13	16	64	50.5	3.5	3.5	KY-50	KY-50F	KY-50N		●	TE-KY-50-1*	
50	70	12	13	16	68	53.6	3.5	3.5	KY-53					TE-KY-53	
53	69	12	13	16	67	54.6	3.5	3.5	KY-54-1*					TE-KY-54-1*	
54	70	12	13	16	68	55.6	3.5	3.5	KY-55	KY-55F				TE-KY-55	
55	71	12	13	16	69	55.6	3.5	3.5	KY-55-5*			●		TE-KY-55-5*	
55	72	12	13	16	70	55.6	3.5	3.5	KY-55-1*					TE-KY-55-1*	
55	75	12	13	16	73	55.6	3.5	3.5	KY-55-1*					TE-KY-55-3*	
55	80	15	16	19	78	55.6	4	4	KY-56	KY-56F			●	TE-KY-56	
56	72	12	13	16	70	56.6	3.5	3.5	KY-60	KY-60F				TE-KY-60	
60	76	12	13	16	74	60.6	3.5	3.5	KY-60-2*					TE-KY-60-8*	
60	80	12	13	16	78	60.6	3.5	3.5	KY-63	KY-63F				TE-KY-63	
63	79	12	13	16	77	63.6	3.5	3.5	KY-64	KY-64F			●	TE-KY-64	
64	80	12	13	16	78	64.6	3.5	3.5	KY-65	KY-65F				TE-KY-65	
65	81	12	13	16	79	65.6	3.5	3.5	KY-67	KY-67F	KY-67N		●	TE-KY-67	
67	87	15	16	19	85	67.6	4	4	KY-70-1*					TE-KY-70-1*	
70	90	12	13	16	88	70.6	4	4	KY-70	KY-70F			●	TE-KY-70	
70	90	15	16	12	88	70.6	4	4	KY-71	KY-71F			●	TE-KY-71	
71	91	15	16	19	89	71.6	4	4	KY-75-1*					TE-KY-75-1*	
75	95	12	13	16	93	75.6	4	4	KY-75	KY-75F		●	●	TE-KY-75	
75	95	15	16	19	93	75.6	4	4	KY-80-2*					TE-KY-80-2*	

Packings & Groove dimensions (Unit : mm)									Part No.					
									SKY-Packings					Standard back-up ring (PT111)
d	D	H	GA	GB	D1	d1 (Reference)	L	ℓ	Standard material (RN 906)	High temperature-resistant (RF 905) (RF 907)	Low temperature-resistant (RN 903)	HNBR (RP902) (RP903)		
80	100	12	13	16	98	80.6	4	4	KY-80-2*					TE-KY-80-2*
80	100	15	16	19	98	80.6	4	4	KY-80	KY-80F			●	TE-KY-80
85	105	12	13	16	103	85.6	4	4	KY-85-2*					TE-KY-85-2*
85	105	15	16	19	103	85.6	4	4	KY-85	KY-85F	KY-85N			TE-KY-85
90	110	12	13	16	108	90.6	4	4	KY-90-1*					TE-KY-90-1*
90	110	15	16	19	108	90.6	4	3	KY-90	KY-90F			●	TE-KY-90
92	112	15	16	19	110	92.6	4	4	KY-92	KY-92F				TE-KY-92
95	115	15	16	19	113	95.6	4	4	KY-95					TE-KY-95
100	120	15	16	19	118	100.6	4	4	KY-100	KY-100F	KY-100N		●	TE-KY-100
100	125	15	16	19	123	100.6	4	4	KY-100-5*					TE-KY-105-5*
105	125	15	16	19	123	105.6	4	4	KY-105	KY-105F			●	TE-KY-105
106	126	15	16	19	124	106.6	4	4	KY-106					TE-KY-106
110	130	15	16	19	128	110.6	4	4	KY-110	KY-110F				TE-KY-110
112	132	15	16	19	130	112.6	4	4	KY-112	KY-112F			●	TE-KY-112
115	135	15	16	19	133	115.6	4	4	KY-115-1*					TE-KY-115-1*
118	138	15	16	19	136	118.6	4	4	KY-118					TE-KY-118
120	140	15	16	19	138	120.6	4	4	KY-120	KY-120F			●	TE-KY-120
125	150	19	21	24	147	125.7	5	5	KY-125	KY-125F			●	TE-KY-125
130	150	15	16	19	147	130.7	5	5	KY-130-1*					TE-KY-130-1*
130	155	19	21	24	152	130.7	5	5	KY-130	KY-130F				TE-KY-130
132	157	19	21	24	154	132.7	5	5	KY-132					TE-KY-132
135	155	16	19	24	152	135.7	5	5	KY-135-1*	KY-135AF			●	TE-KY-135-1*
135	160	15.7	17	20	157	135.7	5	5	KY-135A	KY-135F			●	TE-KY-135
135	160	19	21	24	157	135.7	5	5	KY-135					TE-KY-135
140	160	15	16	19	157	140.7	5	5	KY-140-1*	KY-140F			●	TE-KY-140-1*
140	165	19	21	24	162	140.7	5	5	KY-140					TE-KY-140
145	170	19	21	24	167	145.7	5	5	KY-145					TE-KY-145
150	175	19	21	24	172	150.7	5	5	KY-150				●	TE-KY-150
155	180	19	21	24	177	155.7	5	5	KY-155A	KY-155AF			●	TE-KY-155
155	180	15.7	17	20	177	155.7	5	5	KY-155	KY-155F			●	TE-KY-155
160	185	19	21	24	182	160.7	5	5	KY-160	KY-160F	KY-160N			TE-KY-160
165	190	19	21	24	187	165.7	5	5	KY-165					TE-KY-165
170	195	19	21	24	192	170.7	5	5	KY-170				●	TE-KY-170
175	200	15.7	17	20	197	175.7	5	5	KY-175A	KY-175AF		●	●	TE-KY-175
175	200	19	21	24	197	175.7	5	5	KY-175	KY-175F			●	TE-KY-175
180	205	19	21	24	202	180.7	5	5	KY-180	KY-180F			●	TE-KY-180
190	215	19	21	24	212	190.8	5	5	KY-190	KY-190F				TE-KY-190
195	220	19	21	24	217	195.8	5	5	KY-195-2*				●	TE-KY-195-2*
199	224	15.7	17	20	221	199.8	5	5	KY-199A	KY-199AF			●	TE-KY-199
199	224	19	21	24	221	199.8	5	5	KY-199	KY-199F				TE-KY-199
200	225	19	21	24	222	200.8	5	5	KY-200	KY-200F			●	TE-KY-200
205	230	19	21	24	227	205.8	5	5	KY-205-1*					TE-KY-205-1*

Packings & Groove dimensions (Unit : mm)									Part No.						
									SKY-Packings					Standard back-up ring (PT111)	
d	D	H	GA	GB	D1	d1 (Reference)	L	ℓ	Standard material (RN 906)	High temperature- resistant (RF 905) (RF 907)	Low temperature- resistant (RN 903)	HNBR (RP902) (RP903)			
210	235	18	21	23	232	210.8	5	5	KY-210-2*					TE-KY-210-2*	
210	235	19	21	24	232	210.8	5	5	KY-210-1*					TE-KY-210-1*	
212	237	19	21	24	234	212.8	5	5	KY-212					TE-KY-212	
215	237	19	21	24	237	215.8	5	5	KY-215-3*					TE-KY-215-3*	
220	250	18	21	23	247	220.8	5	5	KY-220-1*					TE-KY-220-1*	
224	249	19	21	24	246	224.8	5	5	KY-224					TE-KY-224	
225	250	18	21	23	247	225.8	5	5	KY-225-1*				●	TE-KY-225-1*	
225	250	19	21	24	247	225.8	5	5	KY-225	KY-225F				TE-KY-225	
230	255	19	21	24	252	230.8	5	5	KY-230-1*					TE-KY-230-1*	
235	260	19	21	24	257	235.8	5	5	KY-235-1*				●	TE-KY-235-1*	
236	261	19	21	24	258	236.8	5	5	KY-236	KY-236F				TE-KY-236	
240	265	19	21	24	262	240.8	5	5	KY-240-3*					TE-KY-240-3*	
245	270	19	21	24	267	245.8	5	5	KY-245-1*				●	TE-KY-245-1*	
250	275	19	21	24	272	250.8	6	6	KY-250	KY-250F				TE-KY-250	
250	280	22	24	27	277	250.8	6	6	KY-250-2*	KY-250-4F*			●	TE-KY-250-2*	
255	280	19	21	24	277	255.8	6	6	KY-255-3*	KY-255-5F*				TE-KY-255-3*	
260	290	22	24	27	287	260.8	6	6	KY-260-1*					TE-KY-260-1*	
265	297	19	26	29	294	265.8	6	6	KY-265	KY-265F				TE-KY-265	
270	300	18	20	23	297	270.8	6	6	KY-270-2*					TE-KY-270-2*	
270	300	24	26	29	297	270.8	6	6	KY-270	KY-270F				TE-KY-270	
275	300	19	21	24	297	275.8	6	6	KY-275-1*					TE-KY-275-1*	
280	310	22	24	27	307	280.8	6	6	KY-280-1*					TE-KY-280-1*	
280	312	24	26	29	309	280.8	6	6	KY-280				●	TE-KY-280	
283	315	24	26	29	312	283.8	6	6	KY-283-2*					TE-KY-283-2*	
285	315	22	24	27	312	285.8	6	6	KY-285-2*					TE-KY-285-2*	
290	320	18	20	23	317	290.8	6	6	KY-290-2*					TE-KY-290-2*	
290	320	22	24	27	317	290.8	6	6	KY-290-1*				●	TE-KY-290-1*	
300	332	24	26	29	329	300.8	6	6	KY-300				●	TE-KY-300	
310	340	22	24	27	337	311	6	6	KY-310-1*					TE-KY-310-1*	
315	347	24	26	29	344	316	6	6	KY-315					TE-KY-315	
320	350	22	24	27	347	321	6	6	KY-320-2					TE-KY-320-2*	
323	355	24	26	29	352	324	6	6	KY-323-1*					TE-KY-323-1*	
330	360	22	24	27	357	331	6	6	KY-330-1*					TE-KY-330-1*	
335	367	24	26	29	364	336	6	6	KY-335				●	TE-KY-335	
340	370	22	24	27	367	341	6	6	KY-340-2*					TE-KY-340-2*	
340	372	24	26	29	369	341	6	6	KY-340-1*		KY-67N			TE-KY-340-1*	
348	380	24	26	29	377	349	6	6	KY-348-2*					TE-KY-348-2	
355	387	24	26	29	384	356	6	6	KY-355	KY-355F				TE-KY-355	
360	392	24	26	29	389	361	6	6	KY-360-1*				●	TE-KY-360-1*	
365	395	22	24	27	392	366	6	6	KY-365-1*					TE-KY-365-1*	
368	400	24	26	29	397	369	6	6	KY-368				●	TE-KY-368	
375	407	24	26	29	404	376	6	6	KY-375	KY-375F				TE-KY-375	

Packings & Groove dimensions (Unit : mm)									Part No.						
									SKY-Packings					Standard back-up ring (PT111)	
d	D	H	GA	GB	D1	d1 (Reference)	L	ℓ	Standard material (RN 906)	High temperature- resistant (RF 905) (RF 907)	Low temperature- resistant (RN 903)	HNBR (RP902) (RP903)			
388	420	24	26	29	417	389	6	6	KY-388-1*				●	TE-KY-388-1*	
400	432	24	26	29	429	401	6	6	KY-400				●	TE-KY-400	
415	450	25	27	30	447	416	6	6	KY-415-1*					TE-KY-415-1*	
420	455	25	27	30	452	421	6	6	KY-420-1*					TE-KY-420-1*	
425	457	24	26	29	454	426	6	6	KY-425					TE-KY-425	
438	470	24	26	29	467	439	6	6	KY-438-1*					TE-KY-438-1*	
450	482	24	26	29	479	451	6	6	KY-450					TE-KY-450	
475	507	24	26	29	504	476	6	6	KY-475					TE-KY-475	
480	515	25	27	30	512	481	6	6	KY-480-1*				●	TE-KY-480-1*	
500	532	24	26	29	529	501	6	6	KY-500					TE-KY-500	
505	545	30	33	37	542	506	8	8	KY-505-1*					TE-KY-505-1*	
510	542	24	26	29	539	511	8	8	KY-510-1*					TE-KY-510-1*	
510	550	30	33	37	546	511	8	8	KY-510-2*					TE-KY-510-2*	
520	560	30	33	37	556	521	8	8	KY-520-1*					TE-KY-520-1*	
530	570	30	33	37	566	531	8	8	KY-530					TE-KY-530	
560	600	30	33	37	596	561	8	8	KY-560					TE-KY-560	
570	610	30	33	37	606	571	8	8	KY-570-1*					TE-KY-570-1*	
580	620	30	33	37	616	581	8	8	KY-580-1*					TE-KY-580-1*	
600	640	30	33	37	636	601	8	8	KY-600					TE-KY-600	
630	670	30	33	37	666	631	8	8	KY-630				●	TE-KY-630	
660	700	30	33	37	696		8	8	KY-660-1*						
690	730	30	33	37	726		8	8	KY-690-2*						
700	740	30	33	37	736		8	8	KY-700-1*						
720	760	30	33	37	756		8	8	KY-720-1*						
740	780	30	33	37	776		8	8	KY-740-1*						
780	820	30	33	37	816		8	8	KY-780-1*						
790	830	30	33	37	826		8	8	KY-790-1*						
830	870	30	33	37	866		8	8	KY-830-1*						
860	900	30	33	37	896		8	8	KY-860-1*						
900	940	30	33	37	936		8	8	KY-900-1*						
960	1000	30	45	53	996		8	8	KY-960-1*						
960	1020	45	48	53	1014		12	12	KY-960-2*						
1020	1080	45	48	53	1074		12	12	KY-1020-1*						
1090	1150	45	48	53	1144		12	12	KY-1090-1*						
1210	1279	45	48	53	1264		12	12	KY-1210-1*						
1340	1400	45	48	53	1394		12	12	KY-1340-1*						