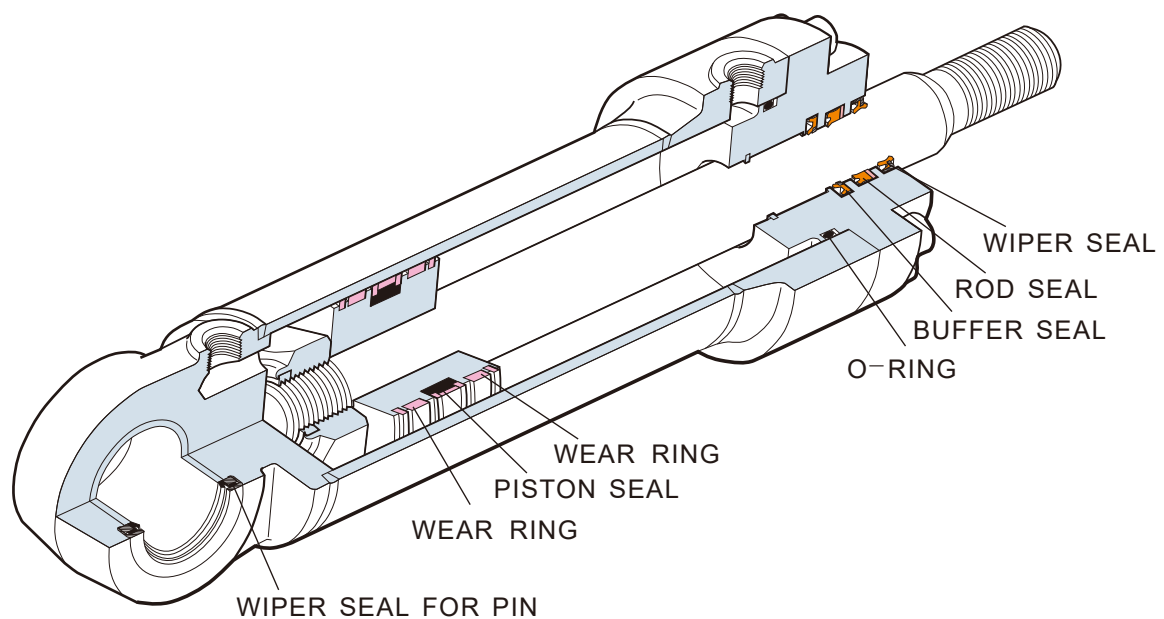


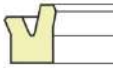
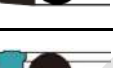
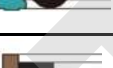
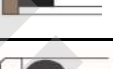


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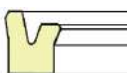
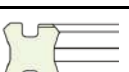


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HYDRAULIC SEALS INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	SPEED (m/s)	PAGE
PISTON SEAL		TSI	PU	-40°C ~ 120°C	300	1	1-2
		TDI	PU	-40°C ~ 120°C	300	1	3-4
		AGY	NBR	-40°C ~ 100°C	210	0.5	5
		THP	NBR	-25°C ~ 100°C	140	1	6
		TKP	NBR	-25°C ~ 100°C	140	1	7
		TGW	PTFE+NY+NBR	-40°C ~ 110°C	500	1.5	8-9
		TAS	POM+HY+NBR	-30°C ~ 100°C	400	0.5	10-13
		TD	PTFE+NBR	-35°C ~ 110°C	350	1.5	14-15
		DT	PTFE+NBR	-35°C ~ 110°C	350	1.5	14-15
		PUD	NBR+PU	-35°C ~ 110°C	400	0.5	16
		TG	PTFE+NBR	-40°C ~ 110°C	350	1.5	17-18
		ST	PTFE+NBR	-30°C ~ 100°C	250	3	19
		TK	NY+NBR	-35°C ~ 110°C	500	1	20-21
		TGI	PU+NBR	-30°C ~ 110°C	350	1.5	22-23
		APY	NBR	-30°C~100°C	175	1	24
		PQ2	NBR+PTFE	-30°C~100°C	600	3	25

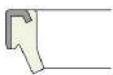
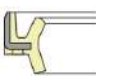
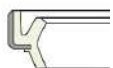
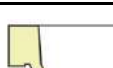
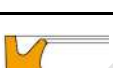
HYDRAULIC SEALS INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	SPEED (m/s)	PAGE
ROD SEAL		RUN	PU	-40°C ~ 120°C	350	1	26-28
		RUK	PU	-40°C ~ 120°C	350	1	29-31
		RU2	PU	-40°C ~ 120°C	400	1	32-35
		RKH	PU	-40°C ~ 120°C	350	1	36
		RK	PU	-30°C ~ 100°C	300	1	37
		RUS	PU	-40°C ~ 120°C	400	1	38-39
		ANY	NBR	-40°C ~ 100°C	210	0.5	40
		UHR	NBR	-30°C ~ 100°C	-	0.5	41
		RUJY	NBR	-30°C ~ 100°C	175	1	42
		MY	NBR	-10°C~80°C	140	0.5	42
		NYH	NBR	-15°C~80°C	140	0.5	43
		TDR	PTFE+NBR	-40°C ~ 100°C	400	4	44
		PS	PU	-35°C~80°C	160	1	45
			NBR	-35°C~120°C	200	1	45

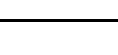
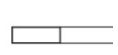
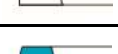
HYDRAULIC SEALS INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	SPEED (m/s)	PAGE
PISTON / ROD SEAL		UPI	PU	-35°C ~ 100°C	300	1	46-51
		UA2	PU	-35°C ~ 100°C	210	1	52-58
PISTON / ROD SEAL		UA	NBR	-25°C ~ 100°C	140	1	59-61
		UPH	NBR	-25°C ~ 100°C	150	1	62-69
		UKH	NBR	-25°C ~ 100°C	150	1	70
		AKY	NBR	-40°C ~ 100°C	140	0.5	71
		RZ2	HY+NBR	-40°C ~ 105°C	400	1	72
		RX2	PU+NBR	-40°C ~ 120°C	400	1	73-74
BUFFER SEAL		KBY	PU	-40°C ~ 120°C	400	1	75
		FB2	PU+NY	-40°C ~ 120°C	400	1	76-77
		L-TYPE	PTFE+NBR	-40°C ~ 110°C	350	1.5	78-81
		K-TYPE	PTFE+NBR	-40°C ~ 110°C	350	1.5	82
		KN-TYPE	PTFE+NY+NBR	-40°C ~ 110°C	350	1.5	83
WIPER SEAL		DI2	PU+STEEL	-35°C ~ 100°C	—	1	84
		DW2	PU+STEEL	-40°C ~ 100°C	—	1	85

HYDRAULIC SEALS INDEX

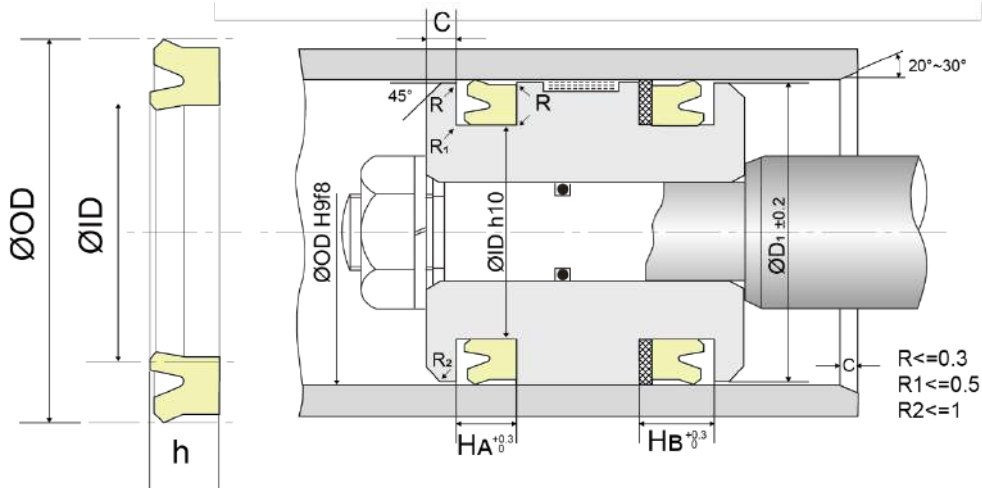
ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	SPEED (m/s)	PAGE
WIPER SEAL		DW4	PU+STEEL	-40°C ~ 100°C	—	1	86
		DK4	PU+STEEL	-40°C ~ 110°C	—	1	87
WIPER SEAL		DKBZ	PU+STEEL	-40°C ~ 110°C	-	1	88
		DK6	PU+STEEL	-40°C ~ 110°C	—	1	89
		DK8	PU+STEEL	-40°C ~ 110°C	—	1	90
		DKN	NBR+STEEL	-20°C ~ 80°C	—	1	91-92
		DS2	PU	-40°C ~ 100°C	—	1	93
		LPI	PU	-40°C ~ 100°C	—	1	94
		DH2	PU	-35°C ~ 100°C	—	1	95-98
		LBI	PU	-35°C ~ 100°C	—	1	99-102
		DSW	PU	-35°C ~ 100°C	—	1	103-105
		LBR	PU	-45°C ~ 100°C	—	0.5	105
		LBN2	NBR	-35°C ~ 100°C	—	1	106-108
		DC2	NBR	-40°C ~ 100°C	—	1	109
		DER	NBR	-25°C ~ 100°C	—	0.5	110
		WR13	PTFE+NBR	-30°C ~ 100°C	—	4	111

HYDRAULIC SEALS INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	SPEED (m/s)	PAGE
ROTARY SEAL		VA	NBR	-20°C~100°C	—	8.1	112-113
		VL	PTFE+NBR	-30°C ~ 100°C	300	2	113
		TG	UPE+NBR	-30°C ~ 100°C	400	6.5	114
		PZF	NBR	-22°C~100°C	—	—	114
		DR2	NBR+PTFE	-30°C~70°C	—	10	115
PIN DUST SEAL		DL2	PU+STEEL	-40°C ~ 100°C	—	—	116-117
		DWP	NBR+STEEL	-30°C ~ 100°C	-	1	118
BACK UP RING		NY	NY	-55°C ~ 120°C	—	—	119
		PTFE	PTFE	-55°C ~ 200°C	-	-	120
		HY-P,G,HY	HY	-40°C ~ 100°C	—	—	121-125
		4F-P/G	PTFE	-55°C ~ 200°C	—	—	126-129
WEAR RING		WRNF	NY+FIBER	-50°C ~ 120°C	—	1	130-138
		WROM	POM	-40°C ~ 100°C	—	1	139-140
		WRPOM	POM	-40°C ~ 100°C	—	1	141-146
		WRNP	NY+FIBER	-50°C ~ 120°C	—	1	147
		WRL	POM	-35°C ~ 100°C	—	1	148
		PL	NY	-35°C ~ 100°C	—	1	149
HEAD SEAL		HI	PU	-40°C ~ 100°C	500	—	150
STATIC SEAL		HR	PU	-35°C ~ 100°C	500	—	151
		PU O-RING	PU	-40°C ~ 100°C	—	—	152-153

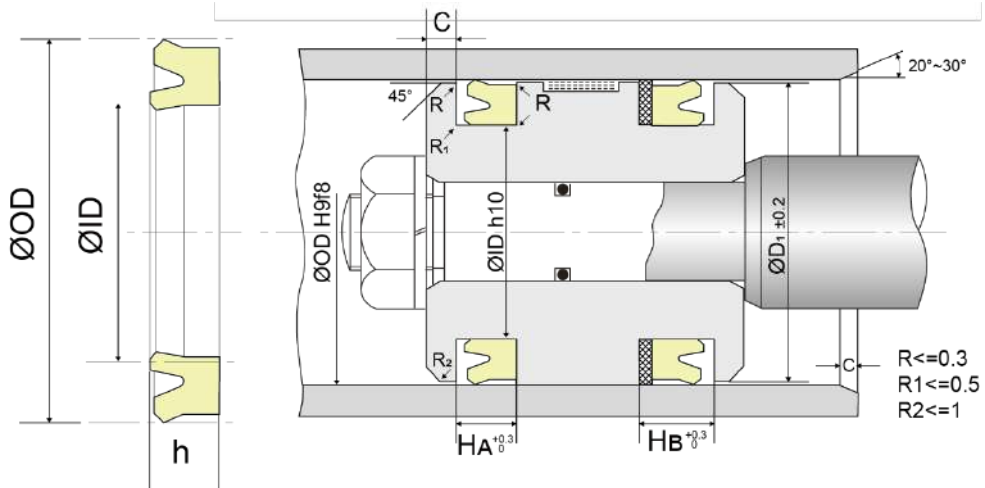
HY: HYTREL NY: NYLON PU: POLYURETHANE

TSI PISTON SEAL



ITEM	OD	ID	h	D1	HA	HB	C
TSI-040	40	30	6	39	7	10	2.5
TSI-045	45	35	6	44	7	10	2.5
TSI-050	50	40	6	49	7	10	2.5
TSI-055	55	45	6	54	7	10	2.5
TSI-060	60	50	6	59	7	10	2.5
TSI-063	63	53	6	62	7	10	2.5
TSI-065	65	55	6	64	7	10	2.5
TSI-070	70	60	6	69	7	10	2.5
TSI-071	71	61	6	70	7	10	2.5
TSI-075	75	65	6	74	7	10	2.5
TSI-080	80	70	6	79	7	10	2.5
TSI-080	80	71	6	79	7	10	2.5
TSI-085	85	75	6	84	7	10	2.5
TSI-090	90	80	6	89	7	10	2.5
* TSI-130	130	115	6				
TSI-140	140	130	6				
* TSI-056	56	45	7	55	8	11	2.5
* TSI-130	130	115	8.5	128	9.5	12.5	4.5
* TSI-150	150	136	8.5	148	9.5	12.5	4
TSI-100	100	85	9	98	10	13	4
TSI-105	105	90	9	103	10	13	4
TSI-110	110	95	9	108	10	13	4
* TSI-115	115	100	9	113	10	13	4
TSI-120	120	105	9	118	10	13	4
TSI-125	125	112	9	123	10	13	4
* TSI-130	130	115	9	128	10	13	4
TSI-140	140	125	9	138	10	13	4
TSI-150	150	135	9	148	10	13	4
TSI-160	160	145	9	158	10	13	4
* TSI-170	170	155	9	168	10	14	4
* TSI-175	175	160	9	173	10	14	4
TSI-180	180	165	9	178	10	14	4
* TSI-190	190	175	9	188	10	14	4
* TSI-200	200	180	12	198	13	17	5
* TSI-220	220	200	12	218	13	17	5

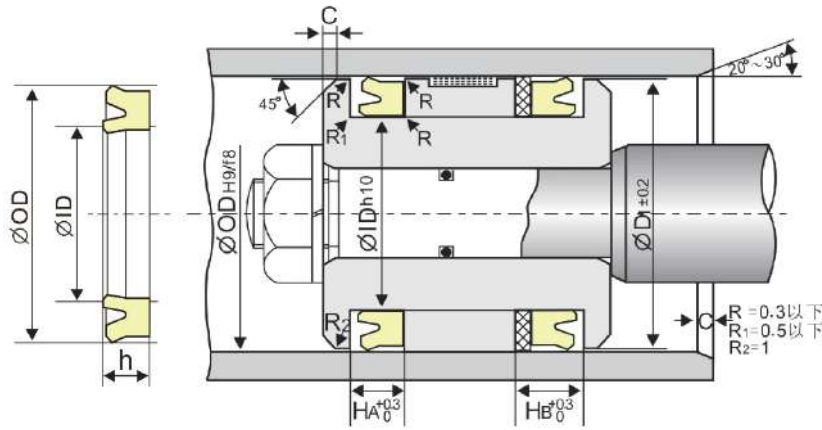
TSI PISTON SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	D1	HA	HB	C
* TSI-224	224	204	12	222	13	17	5
* TSI-225	225	205	12	223	13	17	5
* TSI-250	250	230	12	248	13	17	5
* TSI-260	260	240	12	258	13	17	5
* TSI-280	280	255	16	278	17	21	6.5
* TSI-300	300	275	16	298	17	21	6.5
* TSI-320	320	295	16				

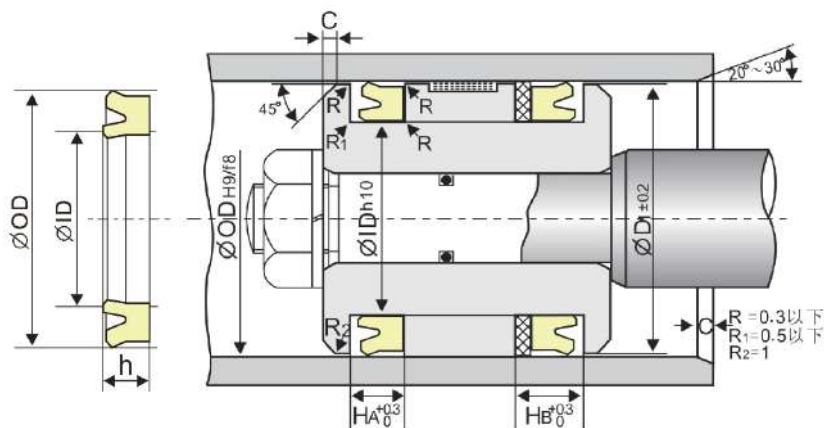
TDI PISTON SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h
TDI-030	30	20	6
* TDI-025	25	17	5.7
* TDI-032	32	24	5.7
* TDI-040	40	32	5.7
* TDI-050	50	42	5.7
* TDI-063	63	55	5.7
* TDI-080	80	70	6.8
* TDI-040	40	30	7.3
* TDI-045	45	35	7.3
* TDI-050	50	40	7.3
* TDI-055	55	45	7.3
* TDI-060	60	50	7.3
* TDI-063	63	53	7.3
* TDI-065	65	55	7.3
TDI-035	35	25	8
* TDI-071	71	61	8
TDI-080	80	70	8
* TDI-110	110	100	8
* TDI-075	75	67	8.8
TDI-065	65	50	9
TDI-070	70	55	9
TDI-080	80	65	9
* TDI-085	85	70	9
TDI-095	95	80	9
TDI-125	125	110	9
* TDI-125	125	110	9.6
* TDI-033	33	20	10
TDI-100	100	80	10
TDI-100	100	85	10
* TDI-110	110	95	10
* TDI-080	80	65	11.4
* TDI-090	90	75	11.4
* TDI-100	100	85	11.4
* TDI-035	35	20	12
* TDI-040	40	25	12
* TDI-045	45	30	12

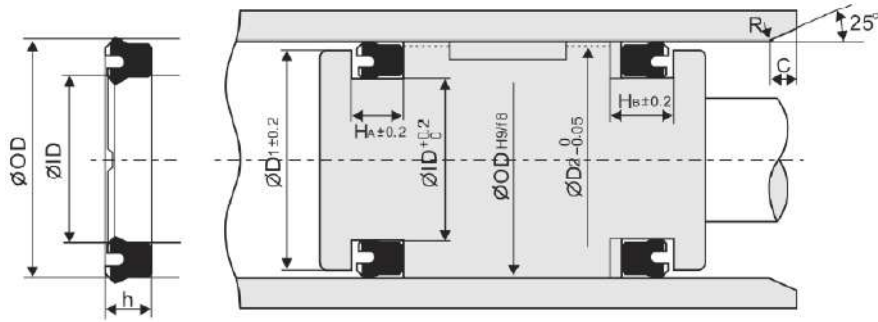
TDI PISTON SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h
* TDI-050	50	35	12
* TDI-060	60	45	12
* TDI-065	65	50	12
* TDI-070	70	55	12
TDI-075	75	60	12
* TDI-085	85	70	12
* TDI-095	95	80	12
* TDI-120	120	110	12
TDI-135	135	115	12
* TDI-140	140	120	12
* TDI-150	150	130	12
* TDI-160	160	140	12
* TDI-150	150	140	13.6
* TDI-125	125	105	14.5
* TDI-200	200	180	14.5
* TDI-120	120	100	15
* TDI-160	160	140	15
* TDI-220	220	200	15
* TDI-250	250	230	15
* TDI-060	60	35	15.5
* TDI-070	70	45	15.5
TDI-080	80	47	16
TDI-090	90	65	18
* TDI-100	100	75	18
* TDI-180	180	150	18
* TDI-160	160	140	18.2
* TDI-250	250	225	18.2
* TDI-170	170	145	19
* TDI-185	185	160	19
* TDI-300	300	270	19
TDI-320	320	290	24

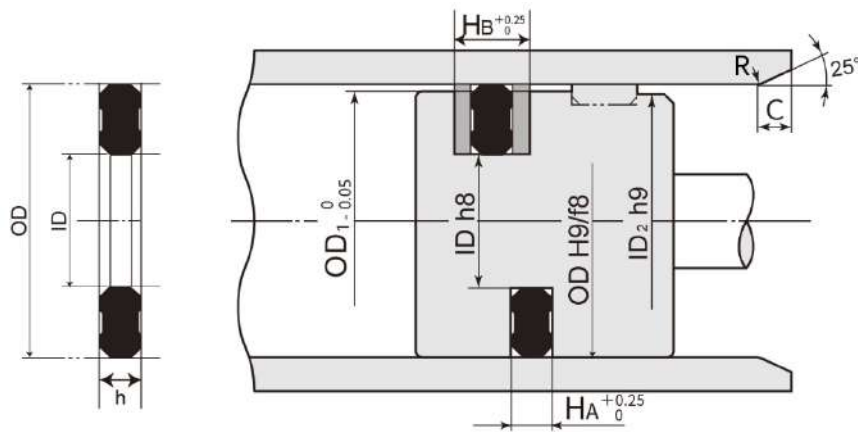
AGY PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-40°C~100°C
PRESSURE	210kgf/cm ²
SPEED	0.5m/s

ITEM	OD	ID	h	D1	D2	HA	HB	C
AGY-040	40	30	6.3	39	39.5	7	8.5	3.5
AGY-050	50	40	6.3	49	49.5	7	8.5	3.5
* AGY-060	60	50	6.3	59	59.4	7	8.5	3.5
AGY-063	63	53	6.3	62	62.5	7	10	3.5
AGY-065	65	55	6.3	64	64.4	7	8.5	3.5
AGY-070	70	60	6.3	69	69.4	7	8.5	3.5
* AGY-075	75	65	6.3	74	74.4	7	8.5	4.5
AGY-080	80	70	6.3	79	79.4	7	8.5	4.5
* AGY-085	85	75	6.3	84	84.4	7	8.5	4.5
* AGY-090	90	80	6.3	89	89.4	7	8.5	4.5
AGY-095	95	85	6.3	94	94.4	7	8.5	4.5
AGY-0130	130	115	8.7	128	129.3	9.5	11.5	4.5
* AGY-0150	150	136	8.7	148	149.3	9.5	11.5	4.5
AGY-085	85	70	9.2	84	84.4	10	12	4.5
AGY-0100	100	85	9.2	98	99.4	10	12	4.5
AGY-0110	110	95	9.2	108	109.4	10	12	4.5
AGY-0115	115	100	9.2	113	114.4	10	12	4.5
AGY-0125	125	110	9.2	123	124.4	10	13	4.5
AGY-0135	135	120	9.2	128	129.3	9.5	11.5	4.5
AGY-0140	140	125	9.2	138	139.3	10	12	4.5
* AGY-0160	160	145	9.2	158	159.3	10	12	4.5
* AGY-0180	180	165	9.2	178	179.3	10	12	4.5
* AGY-0200	200	180	12	198	199.2	13	15.5	5.5
AGY-0215	215	195	12	213	214.7	13	16	5.5

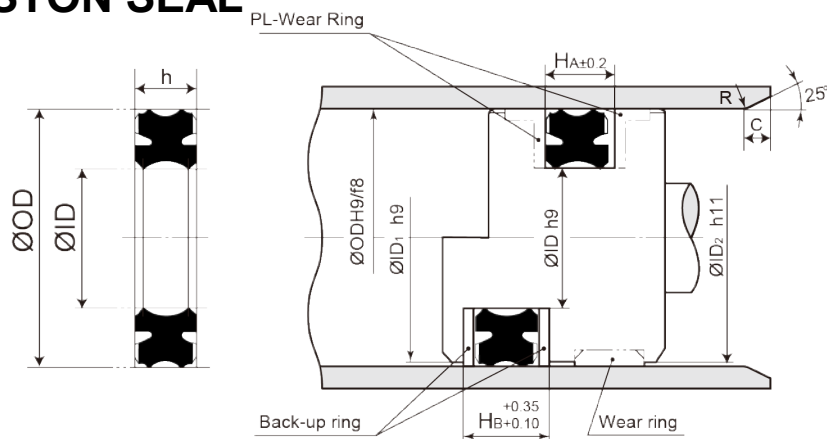
THP PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	140kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	D1	D2	HA	HB	C
* THP-020	20	14	1.9	19.5	19	2.4	4.4	1.5
THP-025	25	17	2.6	24.5	24	3.2	5.2	2
* THP-030	30	22	2.6	29.5	29	3.2	5.2	2
THP-032	32	24	2.6	31.5	30.5	3.2	5.2	2
THP-035	35	27	2.6	34.5	33.5	3.2	5.2	2
THP-040	40	32	2.6	39.5	38.5	3.2	5.2	2
* THP-040A	40	30	3.4	39.5	38.5	4	7	2.5
* THP-045	45	35	3.4	44.5	43.5	4	7	2.5
THP-048	48	37	4					
THP-050	50	40	3.4	49.5	48.5	4	7	2.5
* THP-055	55	45	3.4	54.4	53	4	7	2.5
THP-060	60	50	3.4	59.4	58	4	7	2.5
THP-063	63	53	3.4	62.4	61	4	7	2.5
* THP-065	65	55	3.4	64.4	63	4	7	2.5
THP-070	70	55	5.2	69.4	68	6	10	3
THP-080	80	65	5.2	79.4	78	6	10	3
* THP-090	90	75	5.2	89.4	88	6	10	3
* THP-100	100	85	5.2	99.4	98	6	10	3

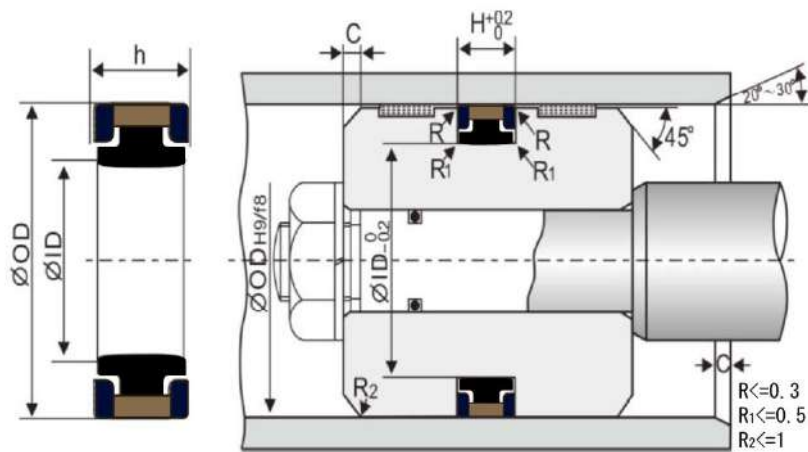
TKP PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	140kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	D1	D2	HA	HB	C
TKP-040	40	30	6.5	39.5	38.5	7	11	2.5
TKP-045	45	35	6.5	44.5	43.5	7	11	2.5
TKP-050	50	40	6.5	49.5	48.5	7	11	2.5
TKP-055	55	45	6.5	54.4	53	7	11	2.5
TKP-060	60	50	6.5	59.4	58	7	11	2.5
TKP-063	63	53	6.5	62.4	61	7	11	2.5
TKP-065	65	55	6.5	64.4	63	7	12	2.5
TKP-070	70	60	6.5	69.4	68	7	12	2.5
TKP-075	75	65	6.5	74.4	73	7	12	2.5
TKP-080	80	67	8	79.4	78	8.5	13.5	3
TKP-085	85	72	8	84.4	83	8.5	13.5	3
TKP-090	90	77	8	89.4	88	8.5	13.5	3
TKP-095	95	82	8	94.4	93			
TKP-100	100	85	9	99.4	98	10	16	4
TKP-120	120	105	9					
TKP-070	70	60	20					

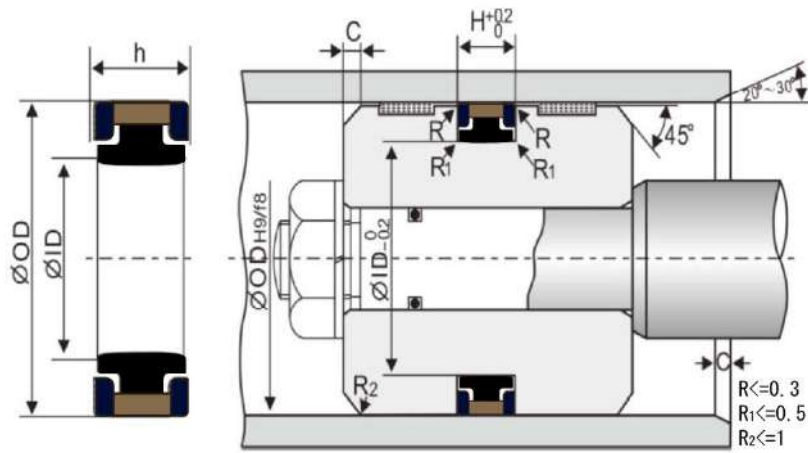
TGW PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NY+NBR
TEMP.	-30°C~120°C
PRESSURE	500kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	h	H	C
TGW-063	63	53	8.0	8.5	
TGW-040	40	26	8.5	9.0	4.0
TGW-050	50	36	8.5	9.0	4.0
TGW-055	55	41	8.5	9.0	4.0
TGW-060	60	46	8.5	9.0	4.0
TGW-065	65	51	8.5	9.0	4.0
TGW-065	65	50	10.5	11.0	5.0
TGW-070	70	55	10.5	11.0	5.0
TGW-075	75	60	10.5	11.0	5.0
TGW-080	80	65	10.5	11.0	5.0
TGW-085	85	70	10.5	11.0	5.0
TGW-090	90	75	10.5	11.0	5.0
TGW-095	95	80	10.5	11.0	5.0
TGW-080	80	65	12.0	12.5	5.0
TGW-090	90	75	12.0	12.5	5.0
TGW-100	100	85	12.0	12.5	5.0
TGW-105	105	90	12.0	12.5	5.0
TGW-110	110	95	12.0	12.5	5.0
TGW-115	115	100	12.0	12.5	5.0
TGW-120	120	105	12.0	12.5	5.0
TGW-080	80	65	12.5	13.0	6.5
TGW-090	90	75	12.5	13.0	6.5
TGW-160	160	145	12.5	13.0	6.5
TGW-125	125	102	15.5	16.0	6.5
TGW-130	130	107	15.5	16.0	6.5
TGW-135	135	112	15.5	16.0	6.5
TGW-140	140	117	15.5	16.0	6.5
TGW-145	145	122	15.5	16.0	6.5
TGW-150	150	127	15.5	16.0	6.5
TGW-155	155	132	15.5	16.0	6.5
TGW-160	160	137	15.5	16.0	6.5
TGW-165	165	142	15.5	16.0	6.5
TGW-170	170	147	15.5	16.0	6.5
* TGW-175	175	152	15.5	16.0	6.5
TGW-180	180	157	15.5	16.0	6.5
TGW-185	185	162	15.5	16.0	6.5

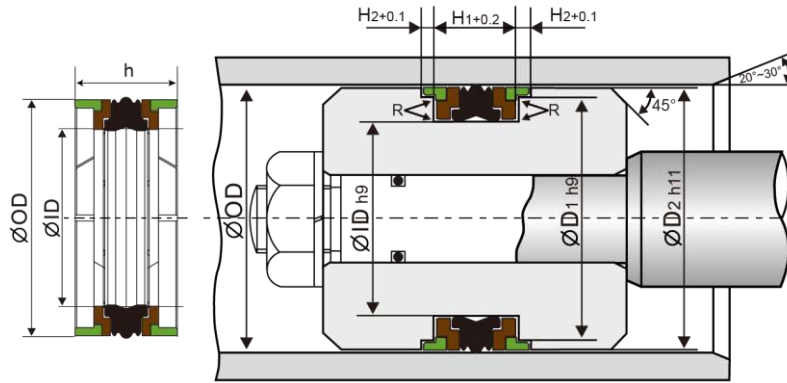
TGW PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NY+NBR
TEMP.	-30°C~120°C
PRESSURE	500kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	h	H	C
TGW-190	190	167	15.5	16.0	6.5
TGW-200	200	177	15.5	16.0	6.5
* TGW-210	210	187	15.5	16.0	6.5
* TGW-215	215	192	15.5	16.0	6.5
* TGW-220	220	197	15.5	16.0	6.5
TGW-225	225	202	15.5	16.0	6.5
TGW-230	230	207	15.5	16.0	6.5
TGW-230	230	210	15.5	16.0	6.5
* TGW-240	240	217	15.5	16.0	6.5
TGW-250	250	222	17.0	17.5	6.5
TGW-260	260	232	17.0	17.5	7.5
* TGW-270	270	242	17.0	17.5	7.5
* TGW-280	280	252	17.0	17.5	7.5
* TGW-290	290	262	17.0	17.5	7.5
TGW-300	300	272	17.0	17.5	7.5
TGW-320	320	292	17.0	17.5	7.5
TGW-330	330	302	17.0	17.5	7.5
* TGW-170	170	155	17.0	17.5	6.5
TGW-170	170	155	17.7	18.2	
TGW-135	135	118	20.0	20.5	
TGW-250	250	230	21.2	21.5	7.5
TGW-200	200	169	23.3	28.3	
TGW-250	250	212.5	25.5	30	
TGW-300	300	262.5	25.5	30	

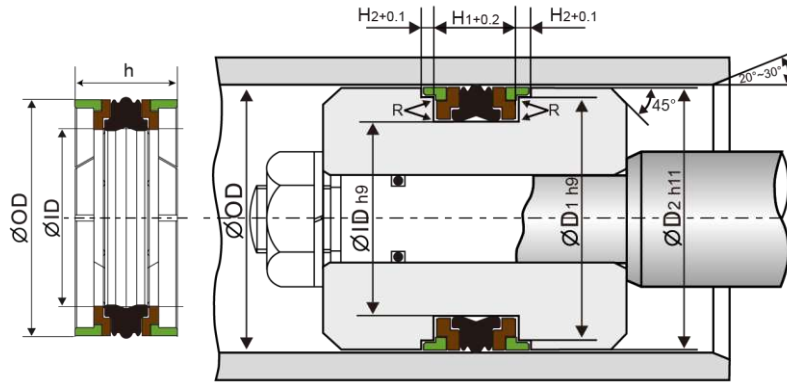
TAS PISTON SEAL



APPLICATION	
MATERIAL	POM+HY+NBR
TEMP.	-30°C~100°C
PRESSURE	400kgf/cm ²
SPEED	0.5m/s

ITEM	OD	ID	H1	H2	h
TAS-020	20	11	13.5	2.1	17.7
TAS-022	22	13	13.5	2.1	17.7
TAS-025	25	15	12.5	4	20.5
* TAS-025	25	15	16.4	6.35	29.1
* TAS-025	25	16	13.5	2.1	17.7
* TAS-025	25	15	12.5	4	20.5
* TAS-028	28	19	13.5	2.1	17.7
TAS-030	30	21	13.5	2.1	17.7
* TAS-030	30	17	15.4	6.35	28.1
* TAS-032	32	24	15.5	3.2	21.9
TAS-032	32	22	16.4	6.35	29.1
TAS-032	32	22	15.5	2.6	20.7
* TAS-032	32	22	12.5	4	20.5
* TAS-032	32	24	10	4	18
TAS-035	35	25	15.5	2.6	20.7
TAS-035	35	25	16.4	6.35	29.1
* TAS-035	35	27	15.5	3.2	21.9
* TAS-035	35	27	15.5	6.4	28.3
* TAS-040	40	26	15.5	2.6	20.7
TAS-040	40	30	12.5	4	20.5
TAS-040	40	30	16.4	6.35	29.1
TAS-040	40	24	18.4	6.35	31.1
TAS-040	40	32	15.5	3.2	21.9
* TAS-040	40	30	10	5	20
* TAS-042	42	28	15.5	2.6	20.7
TAS-045	45	35	16.4	6.35	29.1
TAS-045	45	29	18.4	6.35	31.1
TAS-045	45	31	15.5	2.6	20.7
* TAS-045	45	37	15.5	3.2	21.9
* TAS-045	45	37	15.5	6.4	28.3
TAS-050	50	38	20.5	4.2	28.9
TAS-050	50	34	20.5	3.1	26.7
TAS-050	50	34	18.4	6.35	31.1
* TAS-050	50	35	20	5	30
* TAS-050	50	40	12.5	4	20.5
TAS-055	55	39	20.5	3.1	26.7
TAS-055	55	39	18.4	6.35	31.1
* TAS-055	55	45	12.5	4	20.5
* TAS-056	56	40	20.5	3.1	26.7
* TAS-060	60	48	20.5	4.2	28.9

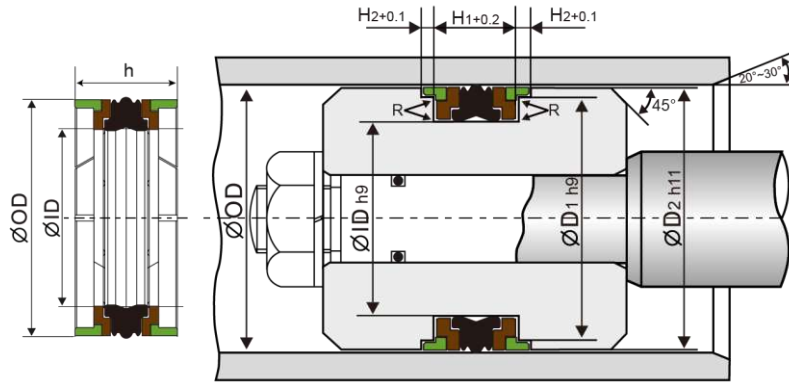
TAS PISTON SEAL



APPLICATION	
MATERIAL	POM+HY+NBR
TEMP.	-30°C~100°C
PRESSURE	400kgf/cm ²
SPEED	0.5m/s

ITEM	OD	ID	H1	H2	h
TAS-060	60	44	20.5	3.1	26.7
TAS-060	60	44	18.4	6.35	31.1
* TAS-060	60	50	17	4	25
* TAS-063	63	53	12.5	4	20.5
TAS-063	63	51	20.5	4.2	28.9
TAS-063	63	47	20.5	3.1	26.7
TAS-063	63	47	18.4	6.35	31.1
TAS-063	63	47	19.4	6.35	32.1
* TAS-063	63	48	20	3.1	26.2
* TAS-063	63	48	20	5	30
TAS-065	65	49	20.5	3.1	26.7
TAS-065	65	50	18.4	6.35	31.1
* TAS-065	65	53	20.5	4.2	28.9
TAS-070	70	58	20.5	4.2	28.9
TAS-070	70	54	20.5	3.1	26.7
TAS-070	70	54	18.4	6.35	31.1
TAS-070	70	50	22.4	6.35	35.1
* TAS-070	70	55	20	5	30
* TAS-075	75	59	20.5	3.1	26.7
TAS-075	75	55	22.4	6.35	35.1
* TAS-075	75	63	20.5	4.2	28.9
TAS-080	80	66	22.5	5.2	32.9
TAS-080	80	62	22.5	3.6	29.7
TAS-080	80	60	22.4	6.35	35.1
* TAS-080	80	60	25	6.3	37.6
* TAS-080	80	65	20	5	30
TAS-085	85	65	22.4	6.35	35.1
TAS-090	90	76	22.5	5.2	32.9
TAS-090	90	72	22.5	3.6	29.7
TAS-090	90	70	22.4	6.35	35.1
* TAS-090	90	75	20	5	30
TAS-095	95	75	22.4	6.35	35.1
TAS-100	100	86	22.5	5.2	32.9
TAS-100	100	82	22.5	3.6	29.7
TAS-100	100	75	22.4	6.35	35.1
TAS-100	100	80	25.4	6.35	38.1
TAS-100	100	80	25	6.3	37.6
* TAS-100	100	85	20	5	30
TAS-100	100	86	22.5	5.2	32.9
TAS-105	105	80	22.4	6.35	35.1

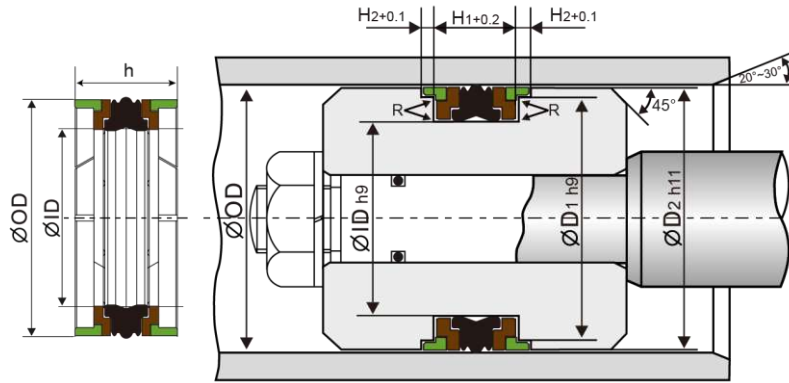
TAS PISTON SEAL



APPLICATION	
MATERIAL	POM+HY+NBR
TEMP.	-30°C~100°C
PRESSURE	400kgf/cm ²
SPEED	0.5m/s

ITEM	OD	ID	H1	H2	h
* TAS-105	105	92.5	14	5.2	24.4
* TAS-110	110	95	20	5	30.0
* TAS-110	110	96	22.5	5.2	32.9
TAS-110	110	92	22.5	3.6	29.7
TAS-110	110	85	22.4	6.35	35.1
* TAS-110	110	85	25.4	6.4	38.2
* TAS-115	115	97	22.5	3.6	29.7
TAS-115	115	90	22.4	6.35	35.1
TAS-120	120	106	22.5	5.2	32.9
TAS-120	120	95	22.4	6.35	35.1
TAS-125	125	103	26.5	5.1	36.7
TAS-125	125	100	25.4	6.35	38.1
* TAS-125	125	100	32	10	52
* TAS-125	125	105	25	6.3	37.6
* TAS-125	125	105	25.4	6.4	38.2
* TAS-125	125	108	26.5	7.2	40.9
TAS-130	130	105	25.4	6.35	38.1
TAS-130	130	105	25.4	9.5	44.4
* TAS-130	130	110	25	6.4	37.8
* TAS-133	133	115	22.4	9.5	41.4
TAS-135	135	110	25.4	6.35	38.1
TAS-135	135	110	25.4	9.5	44.4
* TAS-140	140	118	26.5	5.1	36.7
* TAS-140	140	123	26.5	7.2	40.9
TAS-140	140	115	25.4	6.35	38.1
TAS-140	140	115	25.4	9.5	44.4
* TAS-140	140	120	25	6.3	37.6
TAS-145	145	120	25.4	6.35	38.1
TAS-145	145	120	25.4	9.5	44.4
* TAS-150	150	128	26.5	5.1	36.7
TAS-150	150	125	25.4	6.35	38.1
TAS-150	150	125	25.4	9.5	44.4
* TAS-150	150	133	26.5	7.2	40.9
TAS-155	155	130	25.4	9.5	44.4
TAS-155	155	130	25.4	6.35	38.1
* TAS-160	160	130	25.4	9.5	44.4
TAS-160	160	138	26.5	5.1	36.7
TAS-160	160	135	25.4	9.5	44.4
* TAS-160	160	130	25.4	6.35	38.1

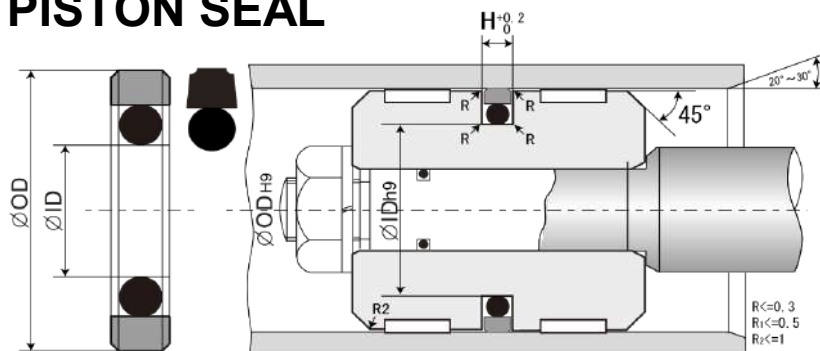
TAS PISTON SEAL



APPLICATION	
MATERIAL	POM+HY+NBR
TEMP.	-30°C~100°C
PRESSURE	400kgf/cm ²
SPEED	0.5m/s

ITEM	OD	ID	H1	H2	h
* TAS-160	160	135	32	10	52
* TAS-160	160	140	25	6.3	37.6
* TAS-160	160	143	26.5	7.2	40.9
TAS-165	165	140	25.4	9.5	44.4
TAS-170	170	145	25.4	12.7	50.8
* TAS-170	170	140	25.4	6.4	38.2
* TAS-170	170	148	26.5	5.1	36.7
TAS-175	175	150	25.4	12.7	50.8
TAS-180	180	155	25.4	12.7	50.8
TAS-180	180	150	35.4	6.35	48.1
* TAS-180	180	150	36	12.5	61
* TAS-180	180	163	26.5	7.2	40.9
TAS-185	185	160	25.4	12.7	50.8
TAS-190	190	165	25.4	12.7	50.8
* TAS-195	195	170	25.4	12.7	50.8
TAS-200	200	175	25.4	12.7	50.8
TAS-200	200	170	35.4	6.35	48.1
* TAS-200	200	170	36	12.5	61
* TAS-200	200	175	31.5	6.6	44.7
* TAS-200	200	180	31.5	9.2	49.9
TAS-210	210	185	25.4	12.7	50.8
* TAS-215	215	190	25.4	12.7	50.8
TAS-220	220	190	35.4	6.35	48.1
TAS-220	220	195	25.4	12.7	50.8
TAS-230	230	205	25.4	12.7	50.8
* TAS-240	240	215	25.4	12.7	50.8
TAS-250	250	220	35.4	6.35	48.1
TAS-250	250	225	25.4	12.7	50.8
* TAS-250	250	220	36	12.5	61
* TAS-250	250	230	31.5	9.2	49.9
* TAS-280	280	250	35.4	9.5	54.4
* TAS-280	280	250	36.4	10	56.4
* TAS-320	320	290	36	12.5	61

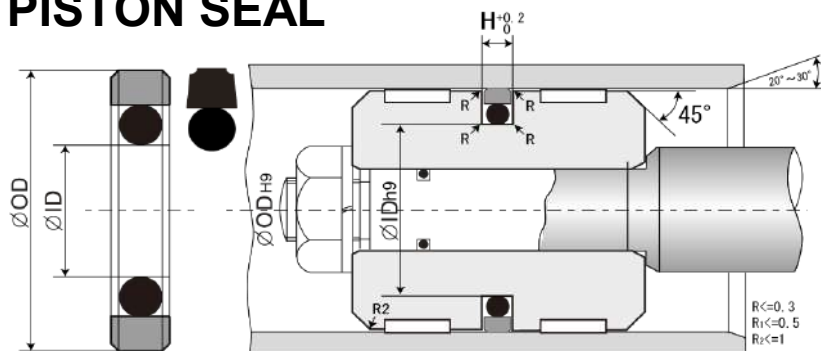
TD PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-35°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	H	ITEM	OD	ID	H
TD-008	8	4	2.1	TD-070	70	60	4.2
TD-012	12	7.1	2.2	TD-072	72	61	4.2
TD-025	25	19	2.85	TD-075	75	64	4.2
TD-018	18	10.5	3.2	TD-080	80	69	4.2
TD-020	20	12.5	3.2	TD-080	80	70	4.2
TD-022	22	14.5	3.2	TD-085	85	75	4.2
TD-024	24	16.5	3.2	TD-090	90	79	4.2
TD-025	25	17.5	3.2	TD-100	100	89	4.2
TD-026	26	18.5	3.2	TD-110	110	99	4.2
TD-028	28	20.5	3.2	TD-120	120	109	4.2
TD-030	30	22.5	3.2	TD-125	125	114	4.2
TD-032	32	24.5	3.2	TD-140	140	129	4.2
TD-033	33	25	3.2	TD-150	150	139	4.2
TD-035	35	27.5	3.2	TD-065	65	52.5	5.6
TD-036	36	28.5	3.2	TD-070	70	57.5	5.6
TD-038	38	30.5	3.2	TD-090	90	77.5	5.6
TD-040	40	32.5	3.2	TD-050	50	34.5	6.3
TD-042	42	34	3.2	TD-055	55	39.5	6.3
TD-057	57	49.5	3.2	TD-060	60	44.5	6.3
TD-063	63	55.5	3.2	TD-063	63	47.5	6.3
TD-070	70	62.5	3.2	TD-065	65	49.5	6.3
TD-032	32	21	4.2	TD-070	70	54.5	6.3
TD-035	35	24.3	4.2	TD-070	70	54.9	6.3
TD-040	40	29	4.2	TD-075	75	59.5	6.3
TD-040	40	30	4.2	TD-080	80	64.5	6.3
TD-042	42	31	4.2	TD-082.5	82.5	67	6.3
TD-045	45	34	4.2	TD-085	85	69.5	6.3
TD-045	45	35	4.2	TD-090	90	74.5	6.3
TD-048	48	37	4.2	TD-095	95	79.5	6.3
TD-050	50	39	4.2	TD-100	100	84.5	6.3
TD-052	52	41	4.2	TD-105	105	89.5	6.3
TD-055	55	44	4.2	TD-110	110	94.5	6.3
TD-056	56	45	4.2	TD-115	115	99.5	6.3
TD-057	57	46	4.2	TD-120	120	104.5	6.3
TD-060	60	49	4.2	TD-125	125	109.5	6.3
TD-060	60	50	4.2	TD-130	130	114.5	6.3
TD-063	63	52	4.2	TD-135	135	119	6.3
TD-065	65	54	4.2	TD-140	140	124.5	6.3
TD-068	68	57	4.2	TD-145	145	129.5	6.3
TD-070	70	59	4.2	TD-150	150	134.5	6.3

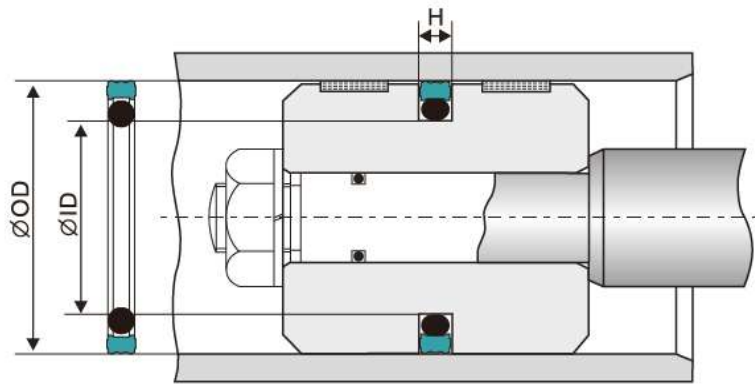
TD PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-35°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	H	ITEM	OD	ID	H
TD-160	160	144.5	6.3	TD-270	270	249	8.1
TD-170	170	154.5	6.3	TD-280	280	259	8.1
TD-180	180	164.5	6.3	TD-290	290	269	8.1
TD-200	200	184.5	6.3	TD-300	300	275.5	8.1
TD-250	250	235.4	6.3	TD-300	300	279	8.1
TD-300	300	284.5	6.3	* TD-304.8	304.8	283.8	8.1
TD-080	80	59	8.1	TD-310	310	289	8.1
TD-085	85	64	8.1	* TD-320	320	295.5	8.1
TD-090	90	69	8.1	TD-320	320	299	8.1
TD-095	95	74	8.1	TD-330	330	305.5	8.1
TD-100	100	79	8.1	* TD-340	340	315.5	8.1
TD-105	105	84	8.1	TD-350	350	325.5	8.1
TD-110	110	89	8.1	* TD-360	360	335.5	8.1
TD-115	115	94	8.1	* TD-370	370	345.5	8.1
TD-120	120	99	8.1	TD-380	380	355.5	8.1
TD-125	125	104	8.1	* TD-390	390	365.5	8.1
TD-130	130	109	8.1	TD-400	400	375.5	8.1
TD-135	135	114	8.1	TD-410	410	385.5	8.1
TD-140	140	119	8.1	TD-420	420	395.5	8.1
TD-145	145	124	8.1	* TD-430	430	405.5	8.1
TD-150	150	129	8.1	TD-440	440	415.5	8.1
TD-155	155	134	8.1	* TD-450	450	425.5	8.1
TD-160	160	139	8.1	TD-460	460	435.5	8.1
TD-165	165	144	8.1	* TD-470	470	445.5	8.1
TD-170	170	149	8.1	TD-480	480	455.5	8.1
TD-175	175	154	8.1	* TD-490	490	465.5	8.1
TD-180	180	159	8.1	TD-520	520	495.5	8.1
TD-185	185	164	8.1	TD-560	560	535.5	8.1
TD-190	190	169	8.1	TD-570	570	545.5	8.1
TD-200	200	179	8.1	TD-590	590	565.5	8.1
* TD-205	205	184	8.1	TD-620	620	595.5	8.1
TD-210	210	189	8.1	TD-640	640	615.5	8.1
TD-215	215	194	8.1	TD-660	660	635.5	8.1
TD-220	220	199	8.1	TD-400	400	375	9.5
TD-225	225	204	8.1	TD-700	700	672	9.5
TD-230	230	209	8.1	TD-710	710	682	9.5
TD-240	240	219	8.1	TD-720	720	692	9.5
* TD-250	250	225.5	8.1	TD-740	740	712	9.5
TD-250	250	229	8.1	TD-770	770	742	9.5
TD-260	260	239	8.1				

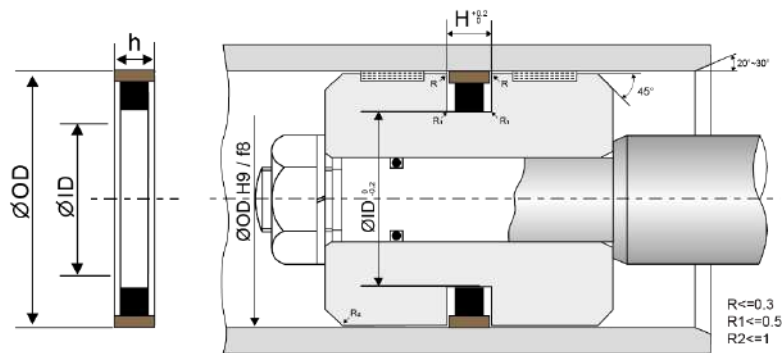
PUD PISTON SEAL



APPLICATION	
MATERIAL	NBR+PU
TEMP.	-35°C~110°C
PRESSURE	400kgf/cm ²
SPEED	0.5 m/s

ITEM	OD	ID	H
* PUD-40	40	29	4.2
* PUD-50	50	39	4.2
* PUD-55	55	44	4.2
PUD-57	57	46	4.2
PUD-63	63	52	4.2
PUD-65	65	54	4.2
* PUD-80	80	69	4.2
PUD-75	75	59.5	6.3
* PUD-63	63	48	6.3
* PUD-80	80	64.5	6.3
PUD-100	100	84.5	6.3
PUD-115	115	99.5	6.3
PUD-125	125	109.5	6.3
* PUD-125	125	104	8.1
* PUD-160	160	139	8.1
* PUD-200	200	179	8.1
* PUD-250	250	229	8.1

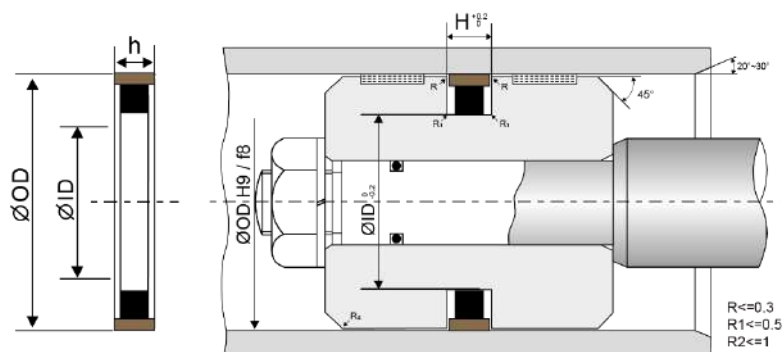
TG PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	h	H
TG-025	25	17.5	3.2	3.4
TG-062	62	54	3.2	3.4
TG-75	75	65	4.2	4.4
TG-035	35	25.5	4.3	4.5
TG-040	40	30	4.3	4.5
TG-045	45	35	4.3	4.5
TG-050	50	40	4.3	4.5
TG-055	55	45	4.3	4.5
TG-060	60	50	4.3	4.5
TG-065	65	55	4.3	4.5
TG-045	45	34	4.8	5.0
TG-050	50	39	4.8	5.0
TG-055	55	44	4.8	5.0
TG-060	60	47	4.8	5.0
TG-060	60	49	4.8	5.0
TG-065	65	54	4.8	5.0
TG-070	70	59	4.8	5.0
TG-080	80	69	4.8	5.0
TG-090	90	79	5.8	6.0
TG-100	100	85	5.8	6.0
TG-110	110	94	5.8	6.0
TG-080	80	66	7.0	7.2
TG-063	63	48	7.3	7.5
TG-065	65	50	7.3	7.5
TG-070	70	55	7.3	7.5
TG-075	75	60	7.3	7.5
TG-080	80	65	7.3	7.5
TG-085	85	70	7.3	7.5
TG-090	90	75	7.3	7.5
TG-095	95	80	7.3	7.5
TG-100	100	85	7.3	7.5
TG-110	110	94	7.3	7.5
TG-112	112	96	7.3	7.5
TG-115	115	99	7.3	7.5
TG-120	120	104	7.3	7.5
TG-125	125	109	7.3	7.5
TG-130	130	114	7.3	7.5

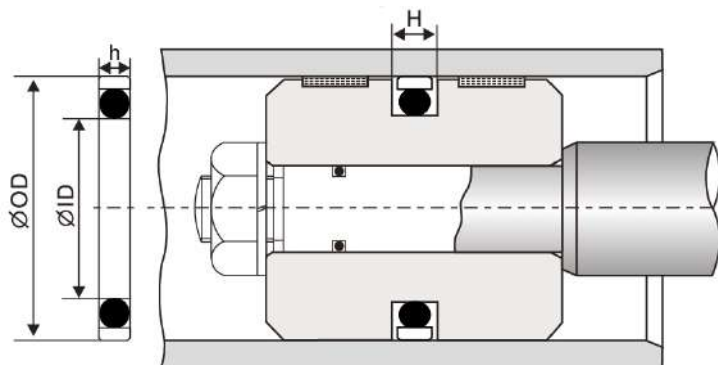
TG PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	h	H
TG-140	140	124	7.3	7.5
TG-150	150	134	7.3	7.5
TG-160	160	144	7.3	7.5
TG-140	140	122	7.7	7.5
TG-170	170	148	10.8	11
TG-180	180	158	10.8	11
TG-185	185	163	10.8	11
TG-190	190	168	10.8	11
TG-200	200	178	10.8	11
TG-210	210	188	10.8	11
TG-240	240	218	10.8	11
TG-250	250	228	10.8	11

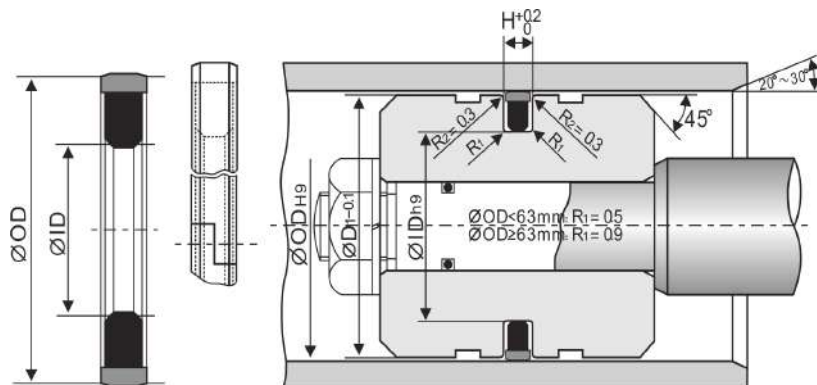
ST PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-30°C~100°C
PRESSURE	250kgf/cm ²
SPEED	3m/s

ITEM	OD	ID	h	H
ST-040	40	33.5		2.2
ST-045	45	36.5	3.7	4
ST-050	50	41.5	3.7	4
ST-055	55	46.5	3.7	4
ST-056	56	47.5	3.7	4
ST-060	60	51.5	3.7	4
ST-063	63	49	6.2	6.5
ST-065	65	51	6.2	6.5
ST-070	70	56	6.2	6.5
ST-071	71	57	6.2	6.5
ST-075	75	61	6.2	6.5
ST-080	80	66	6.2	6.5
ST-084	84	70	6.2	6.5
ST-085	85	71	6.2	6.5
ST-090	90	76	6.2	6.5
ST-095	95	81	6.2	6.5
ST-100	100	86	6.2	6.5
ST-140	140	126	6.2	6.5

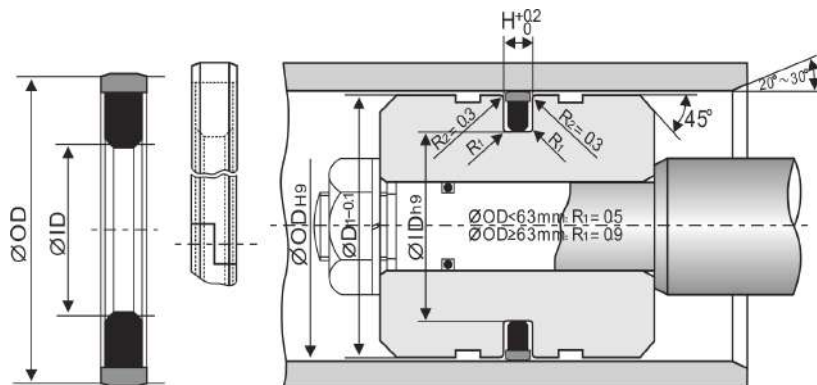
TK PISTON SEAL



APPLICATION	
MATERIAL	NY+NBR
TEMP.	-35°C~110°C
PRESSURE	500kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	H
* TK-32	32	21.0	4.2
* TK-40	40	29.0	4.2
* TK-50	50	39.0	4.2
TK-63	63	52.0	4.2
* TK-50	50	34.5	6.3
TK-63	63	47.5	6.3
TK-80	80	64.5	6.3
TK-90	90	74.5	6.3
TK-95	95	79.5	6.3
TK-100	100	84.5	6.3
TK-105	105	89.5	6.3
* TK-110	110	94.5	6.3
TK-115	115	94.0	6.3
TK-125	125	109.5	6.3
* TK-60	60	41.7	7
* TK-63	63	44.7	7
TK-65	65	46.7	7
TK-70	70	51.7	7
TK-75	75	54	8
TK-80	80	59	8
TK-85	85	64	8
TK-90	90	69	8
TK-95	95	74	8
TK-100	100	79	8
TK-105	105	84	8
TK-110	110	89	8
TK-115	115	94	8
TK-120	120	99	8
TK-125	125	104	8
TK-130	130	109	8
TK-135	135	114	8
TK-140	140	119	8
TK-145	145	124	8
TK-150	150	129	8
TK-160	160	139	8
TK-165	165	144	8
TK-170	170	149	8

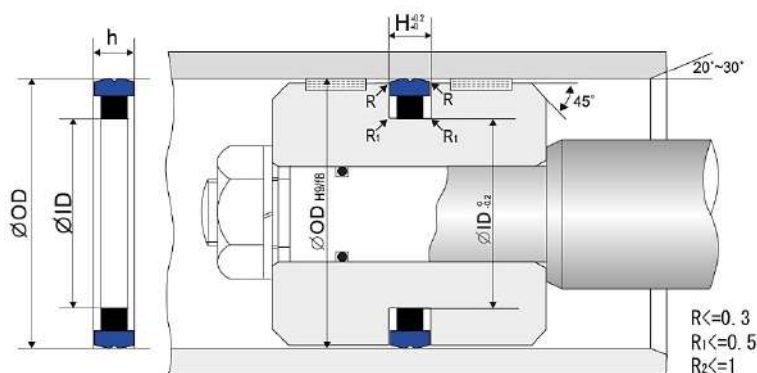
TK PISTON SEAL



APPLICATION	
MATERIAL	NY+NBR
TEMP.	-35°C~110°C
PRESSURE	500kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	H
TK-175	175	154	8
TK-180	180	159	8
TK-190	190	169	8
TK-200	200	179	8
* TK-210	210	189	8
TK-220	220	199	8
TK-230	230	209	8
* TK-240	240	225	8
TK-250	250	229	8

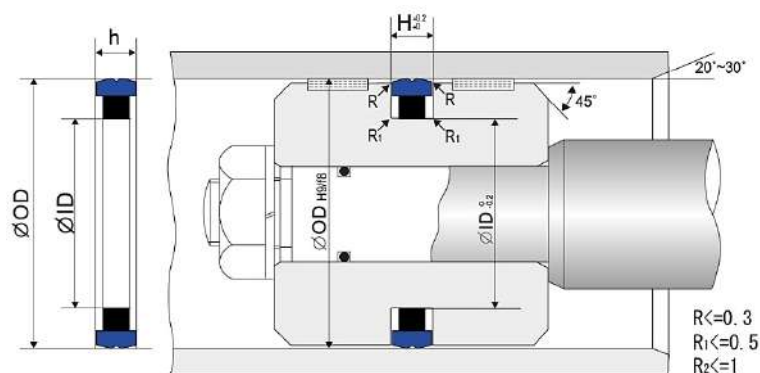
TGI PISTON SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-30°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	h	H
* TGI-020	20	12.5	3	3.2
TGI-025	25	17.5	3	3.2
* TGI-030	30	22.5	3	3.2
TGI-032	32	24.5	3	3.2
* TGI-035	35	24.0	4	4.2
TGI-040	40	29.0	4	4.2
TGI-045	45	34.0	4	4.2
TGI-050	50	39.0	4	4.2
* TGI-060	60	49.0	4	4.2
* TGI-070	70	59.0	4	4.2
* TGI-075	75	64.0	4	4.2
* TGI-040	40	30.0	4.1	4.3
* TGI-050	50	40.0	4.1	4.3
* TGI-040	40	24.5	6	6.3
TGI-050	50	34.5	6	6.3
TGI-050	50	37.0	6	6.3
TGI-055	55	39.5	6	6.3
TGI-060	60	44.5	6	6.3
TGI-063	63	47.5	6	6.3
* TGI-063	63	50.0	6	6.3
TGI-065	65	52.0	6	6.3
TGI-065	65	54.0	6	6.3
TGI-070	70	54.5	6	6.3
* TGI-070	70	57.0	6	6.3
* TGI-075	75	59.5	6	6.3
* TGI-075	75	62.0	6	6.3
TGI-080	80	64.5	6	6.3
TGI-080	80	66.5	6	6.3
* TGI-085	85	59.0	6	6.3
* TGI-085	85	71.5	6	6.3
TGI-090	90	74.5	6	6.3
TGI-095	95	79.5	6	6.3
* TGI-100	100	84.5	6	6.3
* TGI-100	100	86.5	6	6.3
* TGI-105	105	89.5	6	6.3
TGI-110	110	94.5	6	6.3
* TGI-120	120	104.5	6	6.3

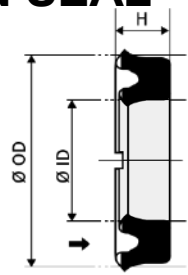
TGI PISTON SEAL



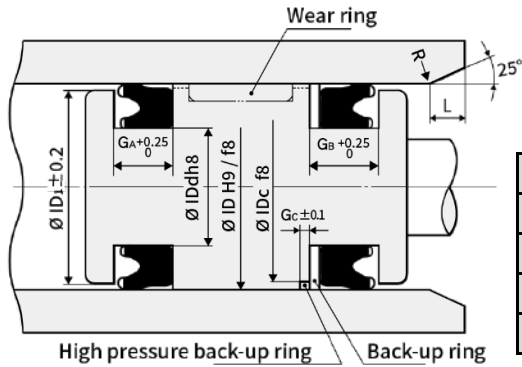
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-30°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	OD	ID	h	H
* TGI-125	125	109.5	6	6.3
* TGI-063	63	53	6.3	6.6
TGI-070	70	55.0	7.1	7.3
TGI-075	75	60.0	7.1	7.3
TGI-080	80	65.0	7.1	7.3
TGI-100	100	85.0	7.1	7.3
* TGI-160	160	144	7.1	7.3
* TGI-080	80	59.0	7.8	8.1
* TGI-090	90	69.0	7.8	8.1
* TGI-100	100	79.0	7.8	8.1
TGI-110	110	89.0	7.8	8.1
* TGI-115	115	94.0	7.8	8.1
* TGI-125	125	104	7.8	8.1
* TGI-150	150	129	7.8	8.1
* TGI-160	160	139	7.8	8.1
* TGI-170	170	149	7.8	8.1
* TGI-180	180	159	7.8	8.1
* TGI-200	200	179	7.8	8.1
* TGI-210	210	189	7.8	8.1
TGI-080	80	59.0	10	10.5
* TGI-090	90	69.0	10	10.5
* TGI-110	110	89.0	10	10.5
TGI-120	120	99.0	10	10.5
TGI-125	125	104	10	10.5
TGI-140	140	119	10	10.5
TGI-150	150	129	10	10.5
* TGI-140	140	119	12	12.5
* TGI-200	200	175	12	12.5

APY PISTON SEAL



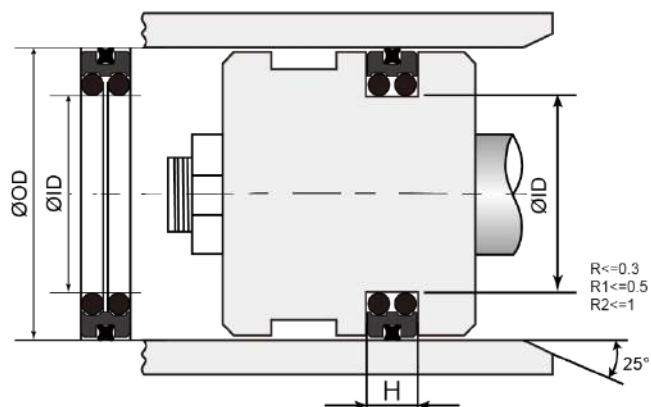
→ Direction of pressure



APPLICATION	
MATERIAL	NBR
TEMP.	-30°C~100°C
PRESSURE	175kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H
APY-32	32	22	6.2	7
* APY-40	40	30	6.2	7
* APY-45	45	35	6.2	7
* APY-50	50	40	6.2	7
* APY-55	55	45	6.2	7
* APY-60	60	50	6.2	7
* APY-63	63	53	6.2	7
* APY-65	65	52	7.7	8.5
APY-70	70	57	7.7	8.5
APY-75	75	62	7.7	8.5
APY-80	80	65	9.2	10
* APY-85	85	70	9.2	10
* APY-90	90	75	9.2	10
* APY-100	100	80	12	13
* APY-110	110	90	12	13
* APY-120	120	100	12	13
* APY-125	125	105	12	13
* APY-130	130	110	12	13
* APY-140	140	120	12	13
* APY-150	150	125	16	17
* APY-160	160	135	16	17
* APY-180	180	155	16	17
* APY-200	200	175	16	17
* APY-250	250	225	16	17

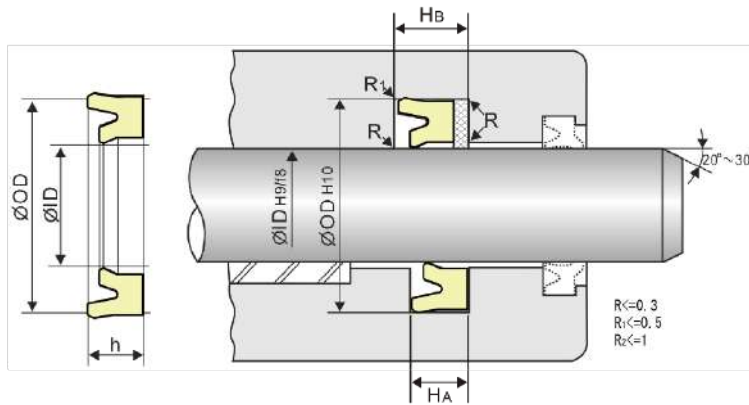
PQ2 PISTON SEAL



APPLICATION	
MATERIAL	NBR+PTFE
TEMP.	-30°C~100°C
PRESSURE	600 kgf/cm ²
SPEED	3 m/s

ITEM	OD	ID	h
* PQ2-40	40	30	6.3
* PQ2-42	42	32	6.3
* PQ2-45	45	35	6.3
* PQ2-48	48	38	6.3
* PQ2-50	50	40	6.3
* PQ2-52	52	42	6.3
* PQ2-55	55	45	6.3
* PQ2-60	60	50	6.3
* PQ2-63	63	53	6.3
* PQ2-65	65	55	6.3
* PQ2-70	70	60	6.3
* PQ2-75	75	65	6.3
* PQ2-80	80	67	8.3
* PQ2-85	85	72	8.3
* PQ2-90	90	77	8.3
PQ2-95	95	82	8.3
PQ2-95	95	80	8.3
PQ2-100	100	87	8.3
PQ2-105	105	92	8.3
PQ2-110	110	97	8.3
PQ2-110	110	95	8.3
PQ2-115	115	102	8.3
PQ2-120	120	107	8.3
PQ2-125	125	112	8.3
PQ2-130	130	117	8.3
PQ2-135	135	117	12.3
PQ2-140	140	122	12.3
* PQ2-150	150	132	12.3
PQ2-160	160	142	12.3
PQ2-170	170	152	12.3
* PQ2-180	180	162	12.3
PQ2-190	190	172	12.3
PQ2-200	200	182	12.3
PQ2-210	210	192	12.3
PQ2-220	220	202	12.3
PQ2-230	230	212	12.3
PQ2-240	240	222	12.3
PQ2-250	250	232	12.3
PQ2-280	280	262	12.3
PQ2-300	300	282	12.3

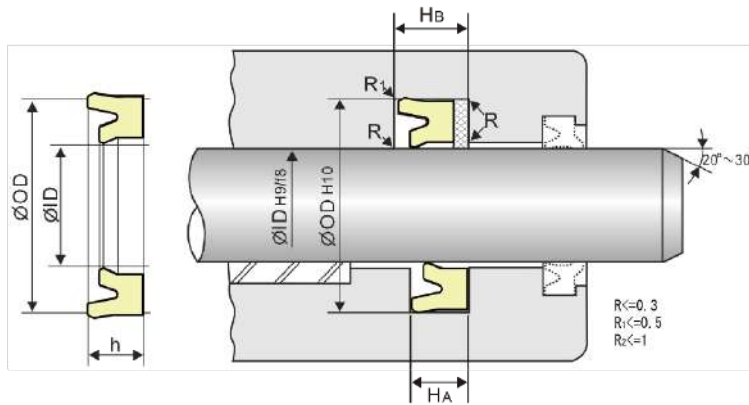
RUN ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	350kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
* RUN-006	6	9.2	3.7		
RUN-008	8	14	5	5.7	7.7
RUN-036	36	44	5.7	6.3	
RUN-045	45	55	6	9	12
RUN-065	65	75	6	9	12
RUN-030	30	40	7	9	12
RUN-035	35	45	7	9	12
RUN-040	40	50	7	9	12
RUN-042	42	51	7	9	12
RUN-045	45	55	7	9	12
RUN-036	36	46	7.3	8	
RUN-045	40	50	7.3	8	
RUN-045	45	55	7.3	8	
RUN-050	50	60	7.3	8	
* RUN-025	25	33	8	9	11
RUN-035	35	51	8	11	14
RUN-045	45	55	8	9	12
RUN-050	50	60	8	9	12
RUN-065	65	75	8	9	12
RUN-080	80	90	8	9	12
RUN-063	63	75	8.7	11	14
RUN-025	25	35	9	11	14
RUN-030	30	45	9	10	13
RUN-035	35	50	9	10	13
RUN-035	35	51	9	11	14
RUN-040	40	55	9	10	13
RUN-045	45	60	9	10	13
RUN-050	50	65	9	10	13
RUN-055	55	70	9	10	13
RUN-060	60	75	9	11	14
RUN-065	65	80	9	11	14
RUN-070	70	85	9	10	13
RUN-075	75	90	9	10	13
RUN-080	80	95	9	11	14
RUN-085	85	100	9	11	14
RUN-090	90	105	9	11	14

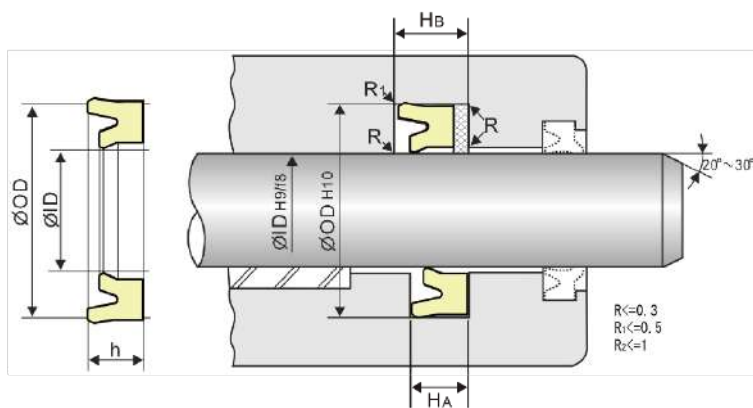
RUN ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	350kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
RUN-095	95	110	9	11	14
RUN-100	100	115	9	11	14
RUN-105	105	120	9	11	14
RUN-110	110	125	9	11	14
RUN-115	115	130	9	11	14
RUN-120	120	135	9	11	14
* RUN-025	25	35	8	9	
* RUN-030	30	45	9	9	12
RUN-040	40	55	9	10	13
* RUN-040	45	55	9	13	16
RUN-135.8	135.8	150.9	9.6	11	14
RUN-030	30	43	10	17	21
RUN-032	32	48	10	17	20
RUN-050	50	63	10	13	16
RUN-055	55	68	10	13	16
RUN-060	60	73	10	11	14
RUN-060	60	75	10	11	14
RUN-060	60	76	10	11	14
RUN-065	65	78	10	13	16
RUN-070	70	83	10	13	17
RUN-070	70	85	10	11	14
RUN-075	75	88	10	11	14
RUN-080	80	93	10	11	14
RUN-080	80	95	10	11	14
RUN-085	85	100	10	11	14
RUN-090	90	105	10	11	14
RUN-095	95	110	10	11	14
RUN-100	100	115	10	11	14
RUN-105	105	120	10	11	14
RUN-110	110	125	10	11	14
RUN-110	110	130	10	17	20
RUN-115	115	130	10	11	14
RUN-056	56	71	11.5	11	14
RUN-035	35	50	12	13	16
RUN-050	50	70	12	13	16
RUN-055	55	71	12	13	16

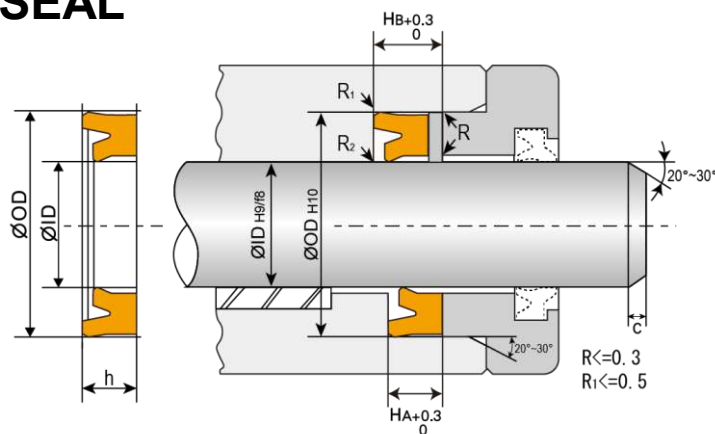
RUN ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	350kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
RUN-055	55	75	12	13	16
RUN-060	60	80	12	13	16
RUN-065	65	80	12	13	16
RUN-070	70	90	12	13	16
RUN-075	75	95	12	13	16
RUN-080	80	100	12	13	16
RUN-085	85	105	12	13	16
RUN-090	90	110	12	13	16
RUN-095	95	115	12	13	16
RUN-100	100	120	12	13	16
RUN-105	105	125	12		
RUN-110	110	130	12	13	18
RUN-115	115	135	12	13	18
RUN-120	120	140	12	13	18
RUN-130	130	150	12	13	16
RUN-140	140	160	12	13	16
RUN-160	160	180	12	13	17
RUN-180	160	180	12	13	17
RUN-040	40	60	12	13	16
RUN-045	45	65	12	13	16
RUN-120	120	140	13		
RUN-105	105	125	15	16	19
RUN-130	130	150	16	17	20
RUN-140	140	160	16	17	20
RUN-160	160	185	16	17	21

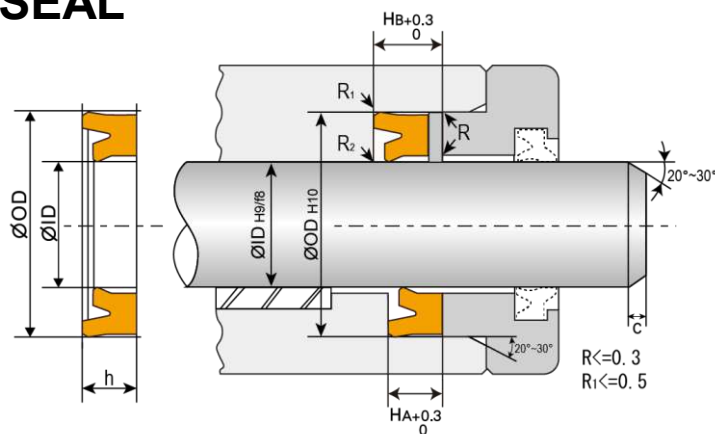
RUK RODSEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-40°C~120°C
PRESSURE	350kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	C
* RUK-006	6	9.2	3.7			
RUK-008	8	14	5			
RUK-036	36	44	5.7			
RUK-045	45	55	6			
RUK-065	65	75	6	7		
RUK-030	30	40	7			
RUK-035	35	45	7			
RUK-040	40	50	7			
RUK-042	42	51	7	9	12	
RUK-045	45	55	7	9	12	
* RUK-025	25	33	8			
RUK-035	35	51	8	11	14	
RUK-045	45	55	8	9	12	4
RUK-050	50	60	8	9	12	4
RUK-065	65	75	8	9	12	5
RUK-080	80	90	8	9	12	5
RUK-063	63	75	8.7	9.6		
RUK-025	25	35	9	10		
RUK-030	30	45	9	10	13	4
RUK-035	35	50	9	10	13	4
RUK-035	35	51	9	11	14	
RUK-040	40	55	9	10	13	4
RUK-045	45	60	9	10	13	4
RUK-050	50	65	9	10	13	4
RUK-055	55	70	9	10	13	4
RUK-060	60	75	9	10	13	4
RUK-065	65	80	9	10	13	5
RUK-070	70	85	9	10	13	5
RUK-075	75	90	9	10	13	5
RUK-080	80	95	9	10	13	5
RUK-085	85	100	9	10	13	5
RUK-090	90	105	9	10	13	5
RUK-095	95	110	9	10	13	5
RUK-100	100	115	9	10	13	5
RUK-105	105	120	9	10	13	5
RUK-110	110	125	9	10	13	5

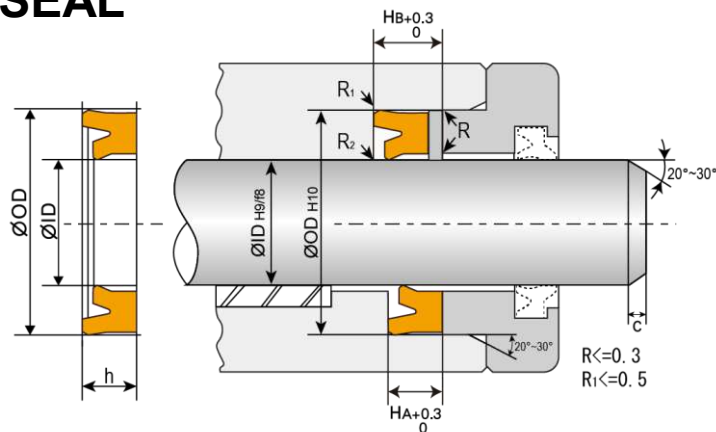
RUK RODSEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-40°C~120°C
PRESSURE	350kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	C
RUK-115	115	130	9	10	13	5
RUK-120	120	135	9	13	18	5
RUK-135.8	135.8	150.9	9.6			
RUK-030	30	43	10	11	14	4
RUK-032	32	48	10			
RUK-050	50	63	10	13	16	
RUK-055	55	68	10	13	16	
RUK-060	60	73	10			
RUK-060	60	75	10	11	14	4
RUK-060	60	76	10	11	14	4
RUK-065	65	78	10	13	16	
RUK-070	70	83	10	13	17	
RUK-070	70	85	10	11	14	5
RUK-075	75	88	10			
RUK-080	80	93	10			
RUK-080	80	95	10	11	14	5
RUK-085	85	100	10	11	14	5
RUK-090	90	105	10	11	14	5
RUK-095	95	110	10	11	14	5
RUK-100	100	115	10	11	14	5
RUK-105	105	120	10	11	14	5
RUK-110	110	125	10	11	14	5
RUK-110	110	130	10	17	20	
RUK-115	115	130	10			
RUK-056	56	71	11.5			
RUK-035	35	50	12	13	16	4
RUK-040	40	60	12			
RUK-045	45	65	12			
RUK-050	50	70	12	13	16	4
RUK-055	55	71	12	13	16	4
RUK-055	55	75	12	13	16	4
RUK-060	60	80	12	13	16	4
RUK-065	65	80	12	13	16	5
RUK-070	70	90	12	13	16	5
RUK-075	75	95	12	13	16	5
RUK-080	80	100	12	13	16	5

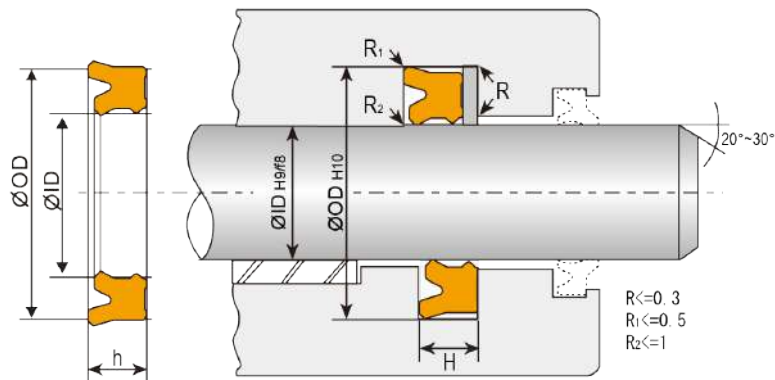
RUK RODSEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-40°C~120°C
PRESSURE	350kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	C
RUK-085	85	105	12	13	16	5
RUK-090	90	110	12	13	16	5
RUK-095	95	115	12	13	16	5
RUK-100	100	120	12	13	16	5
RUK-105	105	125	12	13		
RUK-110	110	130	12	10	13	5
RUK-115	115	135	12	13	18	5
RUK-120	120	140	12	13	18	5
RUK-125	125	145	12	13	16	5
RUK-130	130	150	12	13	16	5
RUK-140	140	160	12	13	16	5
* RUK-150	150	170	12	13	16	5
RUK-160	160	180	12	13	17	5
* RUK-170	170	190	12	13	17	5
RUK-120	120	140	13			
RUK-105	105	125	15	16	19	5
* RUK-180	180	205	15	16	21	5
* RUK-200	200	225	15	16	21	5
RUK-130	130	150	16	17	20	6.5
RUK-140	140	160	16	17	20	6.5
RUK-160	160	185	16	17	21	6.5

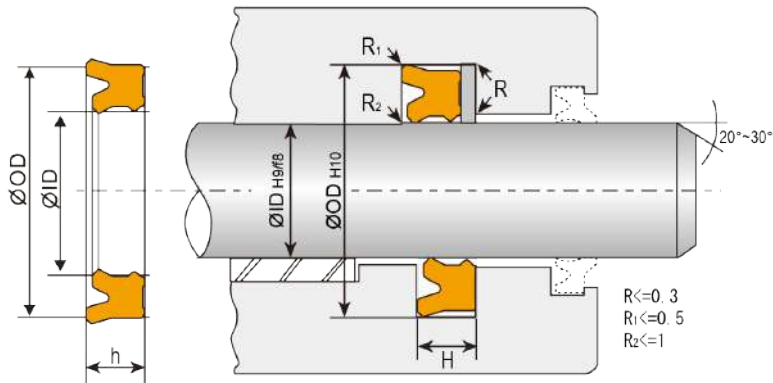
RU2 ROD SEAL



APPLICATION		
MATERIAL	TPU	PU
TEMP.	-40°C~120°C	-40°C~110°C
PRESSURE	400kgf/cm ²	400kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	H	OG	BU
RU2-16	16	24	5	5.7	•	•
RU2-18	18	26	5	5.7	•	•
RU2-20	20	28	5	5.7		•
RU2-22	22	30	5	5.7	•	•
RU2-22.4	22.4	30	5	5.7	•	•
RU2-25	25	33	5	5.7	•	•
RU2-28	28	36	5	7	•	•
RU2-25	25	33	5.7	6.3		•
RU2-32	32	40	5.7	6.3		•
RU2-20	20	30	6	7		
RU2-25	25	35	6	7	•	•
RU2-30	30	40	6	7	•	•
RU2-35	35	45	6	7	•	•
RU2-40	40	50	6	7	•	•
RU2-45	45	55	6	7	•	•
RU2-50	50	60	6	7	•	•
RU2-53	53	63	6	7	•	•
RU2-55	55	65	6	7	•	•
RU2-56	56	66	6	7	•	•
RU2-60	60	70	6	7	•	•
RU2-65	65	75	6	7		•
RU2-70	70	80	6	7	•	•
RU2-75	75	85	6	7		•
RU2-80	80	90	6	7	•	•
RU2-32	32	40	6.5	7.5		•
RU2-22	22	30	7	8		•
RU2-32	32	42	7	8		•
RU2-45	45	56	7	8		
RU2-36	36	46	7.3	8	•	•
RU2-40	40	50	7.3	8	•	•
RU2-45	45	55	7.3	8	•	•
RU2-50	50	60	7.3	8	•	•
RU2-25	25	33	8	9		•
RU2-25	25	35	8	9		
RU2-28	28	36	8	9		•
RU2-35	35	45	8	9	•	
RU2-40	40	50	8	9	•	•
RU2-50	50	60	8	9		•

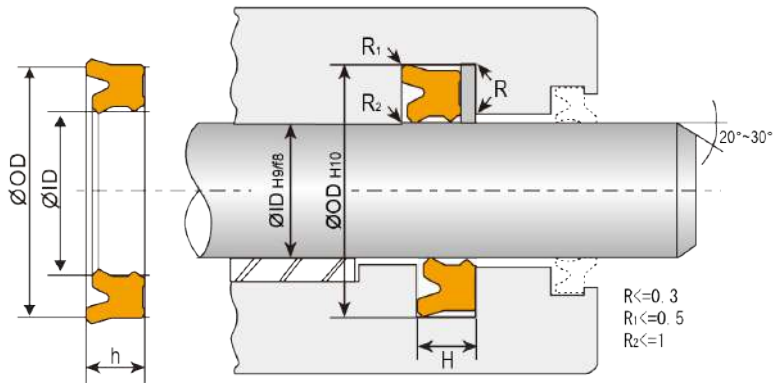
RU2 ROD SEAL



APPLICATION		
MATERIAL	TPU	PU
TEMP.	-40°C~120°C	-40°C~110°C
PRESSURE	400kgf/cm ²	400kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	H	OG	BU
RU2-36	36	48	9	10		•
RU2-40	40	55	9	10	•	•
RU2-50	50	65	9	10	•	•
RU2-55	55	70	9	10		•
RU2-60	60	75	9	10		•
RU2-65	65	80	9	10		•
RU2-70	70	85	9	10	•	•
RU2-75	75	90	9	10	•	•
RU2-80	80	95	9	10	•	•
RU2-85	85	100	9	10	•	•
RU2-90	90	105	9	10		•
RU2-95	95	110	9	10	•	•
RU2-100	100	115	9	10	•	•
RU2-105	105	120	9	10	•	
RU2-110	110	125	9	10		
RU2-115	115	130	9	10	•	•
RU2-120	120	135	9	10		•
RU2-45	45	60	9			
RU2-30	30	40	10	11		•
RU2-35	35	45	10	11	•	•
RU2-38	38	50	10	11	•	
RU2-50	50	60	10	11		•
RU2-50	50	63	10	11		•
RU2-55	55	65	10	11		•
RU2-55	55	68	10	11	•	•
RU2-60	60	70	10	11	•	•
RU2-60	60	73	10	11	•	•
RU2-65	65	75	10	11		•
RU2-65	65	78	10	11	•	•
RU2-70	70	83	10	11	•	•
RU2-70	70	85	10	11	•	
RU2-75	75	88	10	11	•	•
RU2-75	75	90	10	11	•	
RU2-80	80	90	10	11		•
RU2-80	80	93	10	11	•	•
RU2-80	80	95	10	11	•	
RU2-85	85	100	10	11	•	•
RU2-90	90	105	10	11	•	

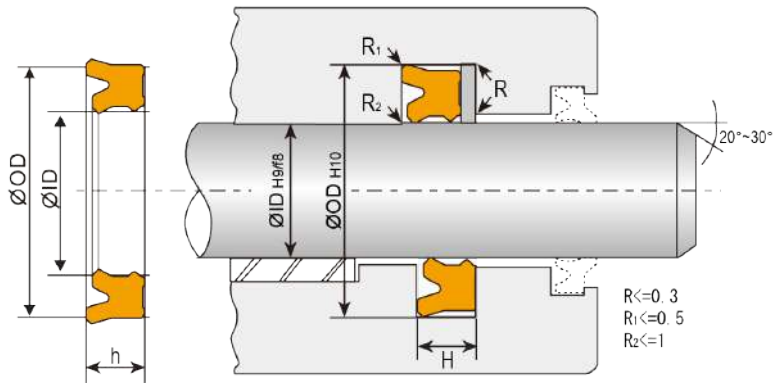
RU2 ROD SEAL



APPLICATION		
MATERIAL	TPU	PU
TEMP.	-40°C~120°C	-40°C~110°C
PRESSURE	400kgf/cm ²	400kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	H	OG	BU
RU2-91	91	101	10	11		•
RU2-95	95	110	10	11	•	•
RU2-100	100	115	10	11	•	•
RU2-105	105	120	10	11	•	
RU2-110	110	120	10	11		•
RU2-110	110	130	10	11	•	•
RU2-120	120	140	10	11		
RU2-130	130	140	10	11		•
RU2-130	130	145	10	11	•	•
RU2-150	150	160	10	11		•
RU2-170	170	181	11	12		•
RU2-192	192	203	11	12		•
RU2-50	50	65	11.4	12.5	•	•
RU2-70	70	85	11.4	12.5		•
RU2-65	65	75	11.8	13		•
RU2-65	65	75	11.5	12.5		•
RU2-75	75	85	11.8	13		•
RU2-40	40	60	12	13	•	•
RU2-45	45	65	12	13	•	•
RU2-50	50	70	12	13	•	•
RU2-55	55	75	12	13	•	•
RU2-60	60	80	12	13	•	•
RU2-65	65	85	12	13	•	
RU2-70	70	80	12	13	•	•
RU2-70	70	90	12	13	•	•
RU2-75	75	95	12	13	•	•
RU2-80	80	90	12	13	•	•
RU2-80	80	100	12	13	•	•
RU2-85	85	105	12	13	•	
RU2-90	90	100	12	13		•
RU2-90	90	110	12	13	•	
RU2-95	95	115	12	13	•	•
RU2-100	100	115	12	13	•	
RU2-100	100	120	12	13	•	•
RU2-105	105	125	12	13	•	
RU2-110	110	130	12	13	•	
RU2-115	115	135	12	13	•	
RU2-120	120	140	12	13	•	

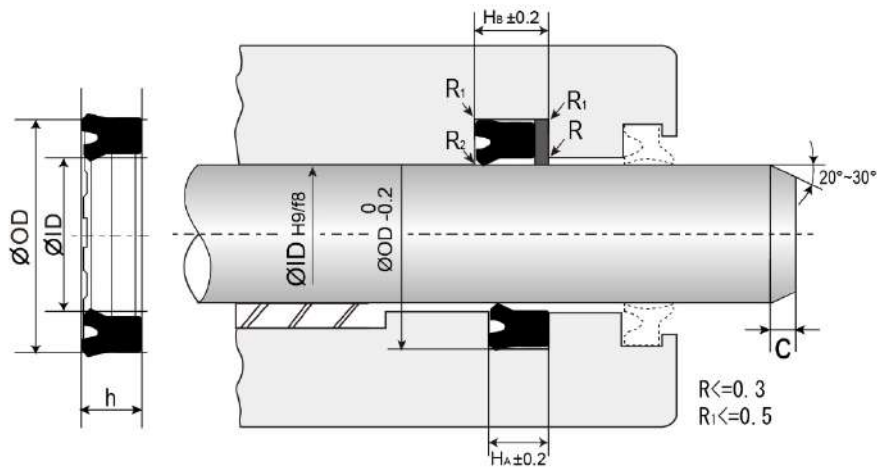
RU2 ROD SEAL



APPLICATION		
MATERIAL	TPU	PU
TEMP.	-40°C~120°C	-40°C~110°C
PRESSURE	400kgf/cm ²	400kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	H	OG	BU
RU2-130	130	150	12	13	•	
RU2-150	150	170	12	13	•	•
RU2-170	170	190	12	13	•	
RU2-60	60	70	14	15		•
RU2-78	78	88	14	15		•
RU2-99	99	109	14	15		•
RU2-120	120	130	14	15		•
RU2-141	141	151	14	15		•
RU2-162	162	172	14	15		•
RU2-180	180	190	14	15	•	•
RU2-183	183	193	14	15		•
RU2-207	207	217	14	15		•
RU2-210	210	225	14	15	•	
RU2-100	100	110	15	16		•
RU2-110	110	130	15	16	•	
RU2-115	115	135	15	16		•
RU2-140	140	150	15	16	•	•
RU2-160	160	170	15	16	•	•
RU2-115	115	135	16	17	•	•
RU2-130	130	150	16	17	•	

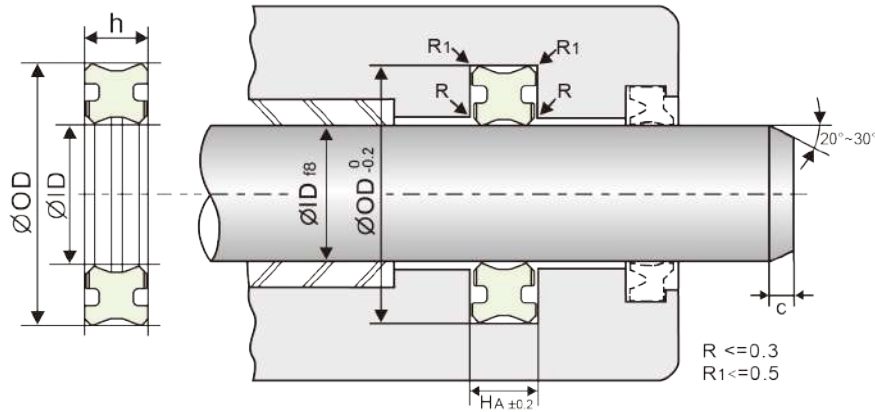
RKH ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	350kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H _A	H _B	C
RKH-065	65	80	9	10	13	4
RKH-070	70	85	9	10	13	4
RKH-075	75	90	9	10	13	4
RKH-080	80	95	9	10	13	4
RKH-085	85	100	9	10	13	4
RKH-090	90	105	9	10	13	4
RKH-095	95	110	9	10	13	4
RKH-100	100	115	9	10	13	4
RKH-105	105	120	9	10	13	4
RKH-110	110	125	9	10	13	4
RKH-115	115	130	9	10	13	4
RKH-130	130	142	9	10	13	4
RKH-085	85	105	12			
RKH-095	95	115	12			
RKH-100	100	120	12			
RKH-115	115	135	12			

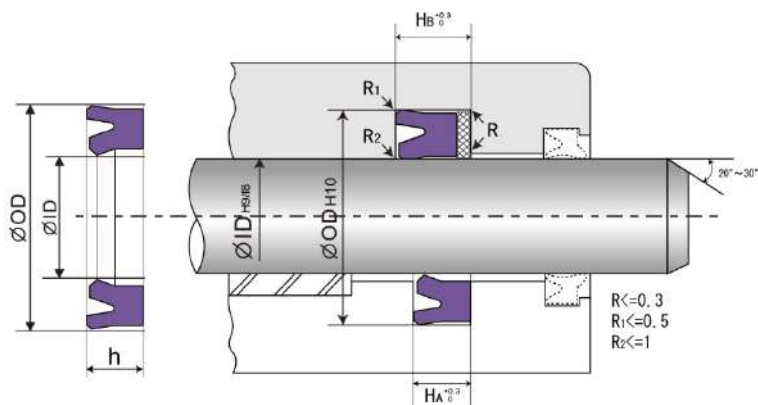
RK ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-30°C~100°C
PRESSURE	300 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H
* RK-016	16	22.5	4.8	
RK-035	35	45	6.5	7
RK-040	40	50	6.5	7
RK-045	45	55	6.5	7
RK-050	50	60	6.5	7

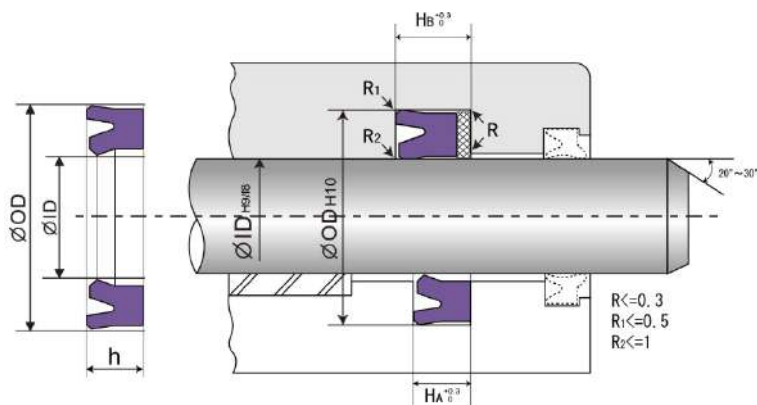
RUS ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
RUS-010	10	16	4.5		
RUS-020	20	28	5	5.7	7.7
* RUS-022.4	22.4	30	5	5.7	7.7
* RUS-022.4	22.4	30.4	5	5.7	7.7
* RUS-023.5	23.5	31.5	5	5.7	7.7
RUS-025	25	33	5	5.7	7.7
RUS-025	25	35	5	5.7	7.7
* RUS-028	28	35.5	5	5.7	8.7
* RUS-028	28	36	5	5.7	8.7
RUS-030	30	40	6	7	10
RUS-031.5	31.5	41.5	6	7	10
RUS-032	32	42	6	7	10
RUS-035	35	45	6	7	10
RUS-035.5	35.5	45	6	7	10
* RUS-035.5	35.5	45.5	6	7	10
RUS-040	40	50	6	7	10
RUS-045	45	55	6	7	10
RUS-050	50	60	6	7	10
* RUS-053	53	63	6	7	10
RUS-055	55	65	6	7	10
RUS-056	56	66	6	7	10
RUS-058	58	68	6	7	10
RUS-060	60	70	6	7	10
* RUS-063	63	73	6	7	10
* RUS-065	65	75	6	7	10
* RUS-067	67	77	6	7	10
RUS-070	70	80	6	7	10
* RUS-071	71	81	6	7	10
RUS-075	75	85	6	7	10
RUS-080	80	90	6	7	10
* RUS-045	45	56	7	8	11
* RUS-060	60	71	7	8	11
* RUS-098	98	112	8.5	9.5	12.5
* RUS-106	106	120	8.5	9.5	12.5
* RUS-136	136	150	8.5	9.5	12.5
* RUS-085	85	100	9	10	13
* RUS-090	90	105	9	10	13

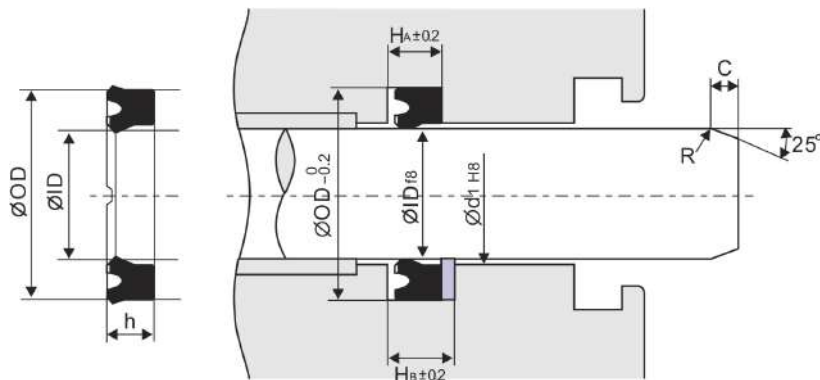
RUS ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
* RUS-095	95	110	9	10	13
* RUS-100	100	115	9	10	13
* RUS-105	105	120	9	10	13
* RUS-106	106	121	9	10	13
* RUS-110	110	125	9	10	13
RUS-112	112	125	9	10	13
RUS-115	115	130	9	10	13
RUS-118	118	133	9	10	13
RUS-120	120	135	9	10	13
* RUS-125	125	140	9	10	13
* RUS-130	130	145	9	10	13
RUS-135	135	150	9	10	13
RUS-140	140	155	9	10	13
* RUS-145	145	160	9	10	13
* RUS-150	150	165	9	10	13
* RUS-156	155	170	9	10	14
* RUS-160	160	175	9	10	14
* RUS-165	165	180	9	10	14
* RUS-170	170	185	9	10	14
* RUS-175	175	190	9	10	14
* RUS-180	180	200	12	13	17
RUS-190	190	210	12	13	17
* RUS-200	200	220	12	13	17
* RUS-204	204	224	12	13	17
* RUS-210	210	230	12	13	17
* RUS-220	220	240	12	13	17
* RUS-225	225	245	12	13	17
* RUS-230	230	250	12	13	17
* RUS-240	240	260	12	13	17
* RUS-250	250	270	12	13	17
* RUS-260	260	285	16	17	21
* RUS-270	270	295	16	17	21
* RUS-280	280	305	16	17	21
* RUS-290	290	315	16	17	21
* RUS-300	300	325	16	17	21

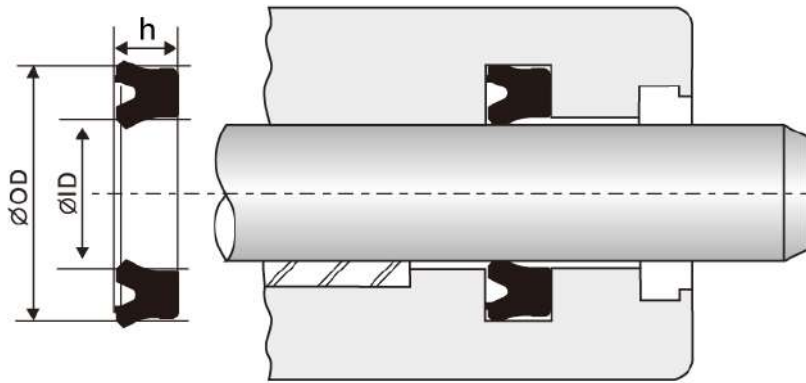
ANY ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-40°C~100°C
PRESSURE	210kgf/cm ²
SPEED	0.5m/s

ITEM	ID	OD	h	d1	HA	HB	C
* ANY-018	18	26	5	18.4	5.7	6.7	2.5
* ANY-020	20	28	5	20.4	5.7	6.7	2.5
* ANY-022.4	22.4	30	5	22.8	5.7	7.7	2.5
* ANY-025	25	33	5	25.4	5.7	6.7	2.5
* ANY-028	28	35.5	5	28.4	5.7	6.7	2.5
* ANY-030	30	40	6	30.5	7	8.5	3
* ANY-035	35	45	6	35.5	7	8.5	3
ANY-035.5	35.5	45	6	36	7	8.5	3
* ANY-040	40	50	6	40.5	7	8.5	3
* ANY-040	40	53	8	40.5	9	11	3
ANY-045	45	55	6	45.5	7	8.5	3
* ANY-050	50	60	6	50.5	7	8.5	3
* ANY-050	50	63	8	50.5	9	11	3
* ANY-055	55	65	6	55.6	7	8.5	3
ANY-056	56	66	6	56.6	7	8.5	3
* ANY-060	60	70	6	60.6	7	8.5	3
* ANY-060	60	73	8	60.6	9	11	3
* ANY-063	63	73	6	63.6	7	8.5	3
* ANY-065	65	75	6	65.6	7	8.5	3
* ANY-065	65	80	9	65.6	10	13	4
* ANY-070	70	85	9	70.6	10	12	4
* ANY-075	75	85	6	75.6	7	8.5	4
* ANY-075	75	90	9	75.6	10	12	4
ANY-080	80	95	9	80.6	10	12	4
* ANY-090	90	105	9	90.6	10	12	4
* ANY-095	95	110	9	95.6	10	12	4
* ANY-100	100	115	9	100.6	10	12	4
* ANY-105	105	120	9	105.6	10	12	4
ANY-110	110	125	9	110.6	10	12	4
ANY-115	115	130	9	115.6	9.5	11.5	4
ANY-125	125	140	9	125.7	10	12	4
ANY-130	130	145	9	130.7	10	13	4
ANY-140	140	155	9	140.7	10	12	4
ANY-145	145	160	9	145.7	10	13	4
* ANY-150	150	165	9	150.7	10	12	4
ANY-160	160	175	9	160.7	10	12	4
ANY-170	170	190	12	170.7	13	17	5.5
* ANY-180	180	200	12	180.7	13	15.5	5.5

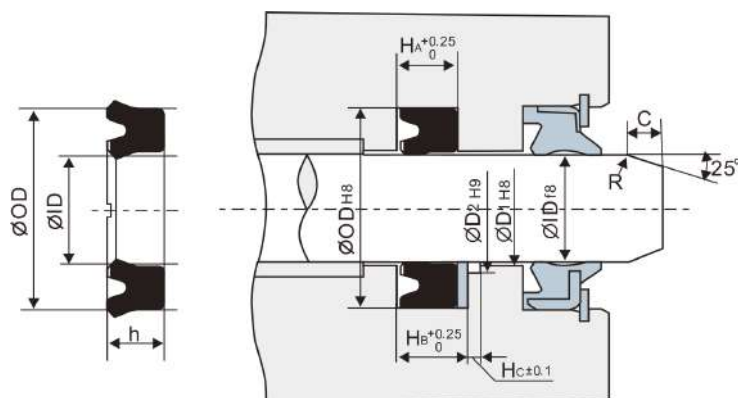
UHR ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-30°C~100°C
PRESSURE	140kgf/cm ²
SPEED	1 m/s

ITEM	ID	OD	h
UHR-022	22	30	5
UHR-025	25	33	5
UHR-030	30	40	6
UHR-040	40	50	6
UHR-040A	40	53	8
UHR-045	45	55	6
UHR-050	50	60	6
UHR-055	55	65	6
UHR-060	60	70	6
UHR-060	60	73	8

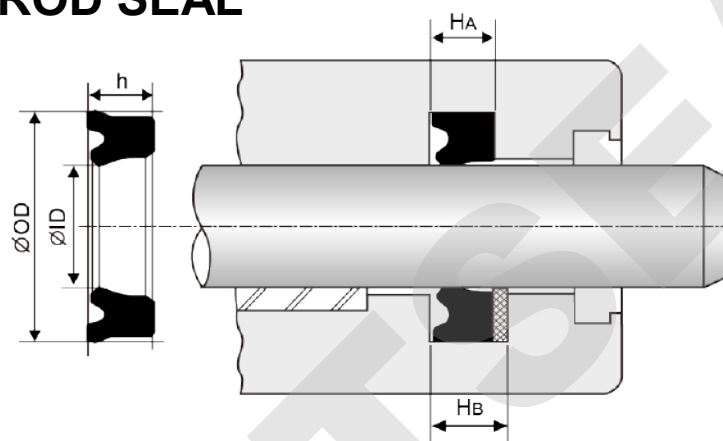
RUY ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-30°C~100°C
PRESSURE	175kgf/cm ²
SPEED	1 m/s

ITEM	OD	ID	h
RUY-050	50	63	8

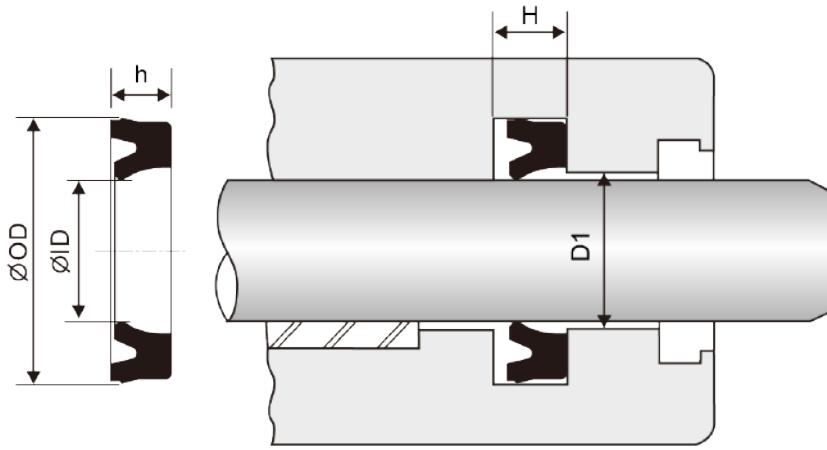
MY ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-10°C~80°C
PRESSURE	140 kgf/cm ²
SPEED	0.5 m/s

ITEM	ID	OD	h	HA	HB
MY-003	3	6	2.1	2.5	3.9
MY-004	4	7	2.1	2.5	3.9
MY-005	5	8	2.1	2.5	3.9
MY-006	6	9	2.1	2.5	3.9
MY-008	8	11	2.1	2.5	3.9
MY-008	8	14	5.0	5.5	6.8
* MY-010A	10	14	2.8	3.2	4.4
* MY-012	12	16	2.8	3.2	4.4
* MY-014	14	18	2.8	3.2	4.4
* MY-016	16	20	2.8	3.2	4.4
* MY-018	18	22	2.8	3.2	4.4
* MY-020	20	24	2.8	3.2	4.4

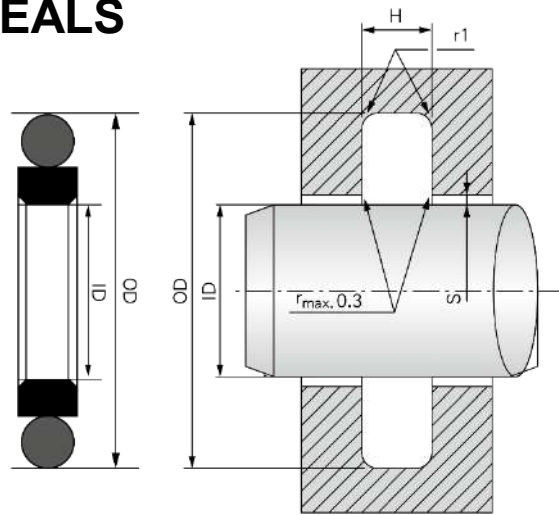
NYH ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-15 °C~80°C
PRESSURE	140 kgf/cm ²
SPEED	0.5 m/s

ITEM	ID	OD	h	H	D1
NYH-004	4	8	2.7	3	4.3
NYH-004	4	8	3.1	3.5	4.3
NYH-006	6	13	4.2	4.6	6.3
NYH-008	8	15.8	6.5	7	8.3
NYH-008	8	15.8	6		

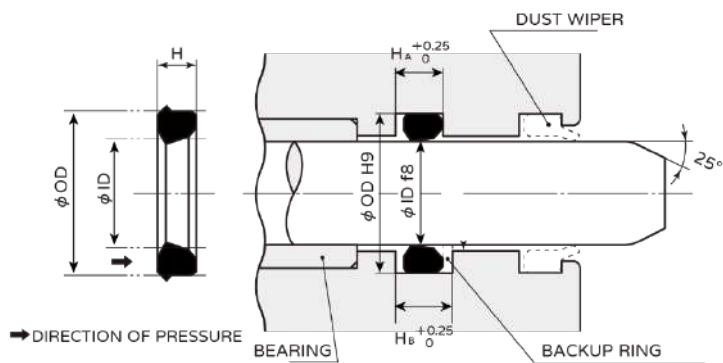
TDR ROD SEALS



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-30 °C~100 °C
PRESSURE	400 kg/cm2
SPEED	4 m/s

ITEM	ID	OD	H
TDR-16	16	23.3	3.2
TDR-30	30	40.7	4.2
TDR-32	32	42.7	4.2
TDR-35	35	45.7	4.2
TDR-36	36	46.7	4.2
TDR-40	40	50.7	4.2
TDR-45	45	55.7	4.2
TDR-56	56	71.1	6.3
TDR-60	60	70.7	4.2
TDR-85	85	100.1	6.3
TDR-100	100	115.1	6.3
TDR-130	130	145.1	6.3
TDR-130	130	145.5	6.3
TDR-160	160	175.1	6.3
TDR-160	160	175.5	6.3
TDR-200	200	215.1	6.3
TDR-250	250	265.1	6.3

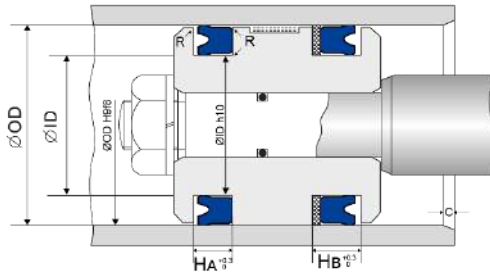
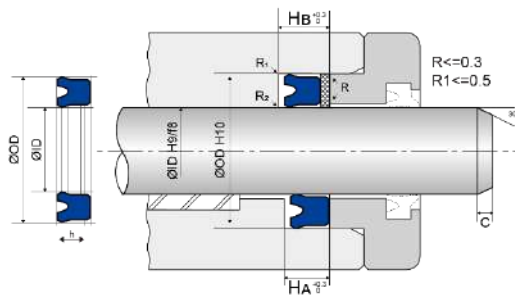
PS RODPACKING



APPLICATION		
MATERIAL	PU	NBR
TEMP.	-35°C~80°C	-35°C~120°C
PRESSURE	16kgf/cm ²	200kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	HA	HB
PS-006	6	9	2	2.5	3.9
* PS-008	8	11	2	2.5	3.9
PS-010	10	13	2	2.5	3.9
* PS-010A	10	14	2.9	3.2	4.4
* PS-011.2	11.2	15.2	2.9	3.2	4.4
PS-012	12	16	2.9	3.2	4.4
* PS-014	14	18	2.9	3.2	4.4
* PS-015	15	19	2.9	3.2	4.4
* PS-016	16	20	2.9	3.2	4.4
* PS-018	18	22	2.9	3.2	4.4
* PS-020	20	24	2.9	3.2	4.4
* PS-022	22	26	2.9	3.2	4.4
* PS-022.4	22.4	28.4	4.3	4.7	6
* PS-028	28	34	4.3	4.7	6
* PS-030	30	36	4.3	4.7	6
* PS-031.5	31.5	37.5	4.3	4.7	6
* PS-035	35	41	4.3	4.7	6
* PS-040	40	46	4.3	4.7	6
* PS-042	42	48	4.3	4.7	6
* PS-045	45	51	4.3	4.7	6
* PS-050	50	56	4.3	4.7	6
* PS-050A	50	60	6.9	7.5	9

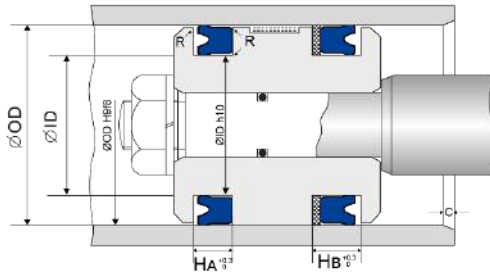
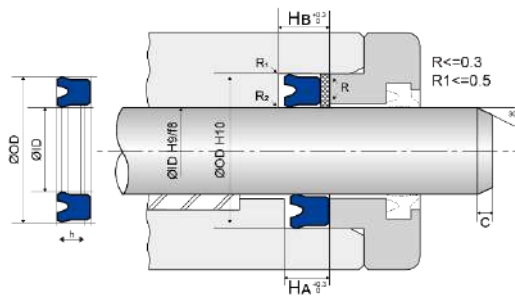
UPI PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	D1	C
UPI-011	11	16	4				
* UPI-022.4	22.4	30	5	5.7	7.7	29	3.5
* UPI-028	28	35.5	5	5.7	8.7	34.5	3.5
UPI-32	32	40	5				
UPI-110	110	120	6				
UPI-012	12	20	6.5				
UPI-015	15	23	6.5				
UPI-030	30	40	7				
UPI-032	32	42	7				
* UPI-060	60	71	7	8	11	70	4
UPI-06.3	6.3	16.3	8	9	11	15.3	2.5
UPI-07.1	7.1	17.1	8	9	11	16.1	2.5
UPI-008	8	18	8	9	11	17	2.5
UPI-009	9	19	8	9	11	18	2.5
UPI-010	10	20	8	9	11	19	2.5
UPI-011.2	11.2	21.2	8	9	11	20.2	2.5
UPI-012	12	25	8	9	11	24	2.5
UPI-012.5	12.5	22.5	8	9	11	21.5	2.5
UPI-014	14	24	8	9	11	23	2.5
UPI-015	15	25	8	9	11	24	2.5
UPI-016	16	26	8	9	11	25	2.5
UPI-018	18	28	8	9	11	27	3.5
UPI-020	20	30	8	9	11	29	3.5
* UPI-021.5	21.5	31.5	8	9	11	30.5	3.5
UPI-022	22	32	8	9	11	31	3.5
UPI-022.4	22.4	32.4	8	9	11	31.4	3.5
UPI-025	25	35	8	9	11	34	3.5
UPI-025	25	38	8	9	11	37	3.5
* UPI-025.5	25.5	35.5	8	9	11	34.5	3.5
UPI-028	28	36	8				
UPI-032	32	42	8				
UPI-038	38	48	8				
* UPI-040	40	53	8				
UPI-060	60	75	8				
UPI-080	80	90	8				
UPI-055	55	70	9				
UPI-070	70	85	9				
UPI-016	16	32	10	11	13	31	2.5
UPI-018	18	31	10	11	13	30	3.5
UPI-020	20	33	10	11	13	32	3.5
UPI-020	20	35	10	11	13	34	3.5

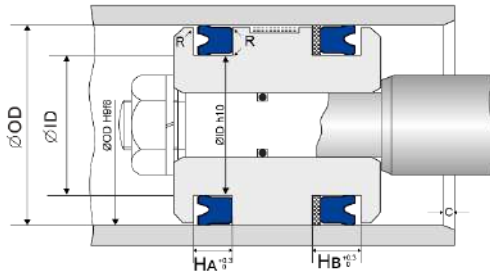
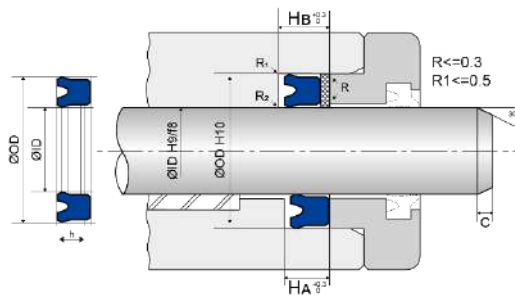
UPI PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	D1	C
UPI-022	22	35	10	11	13	34	3.5
UPI-025	25	38	10				
UPI-025	25	40	10	11	13	39	3.5
UPI-028	28	40	10	11	14	39	3.5
UPI-028	28	43	10	11	14	42	3.5
UPI-030	30	40	10				
UPI-030	30	45	10	11	14	44	3.5
UPI-030	30	46	10	11	14	45	3.5
UPI-30	30	50	10				
UPI-031.5	31.5	46.5	10	11	14	45.5	3.5
UPI-032	32	45	10				
UPI-032	32	46	10	11	14	45	4
UPI-35	35	45	10				
UPI-035	35	50	10	11	14	49	4
UPI-035.5	35.5	50.5	10	11	14	49.5	4
UPI-038	38	52	10	11	14	51	4
UPI-038	38	55	10				
UPI-040	40	50	10				
UPI-040	40	55	10	11	14	54	4
UPI-040	40	56	10	11	14	55	4
UPI-041	41	56	10	11	14	55	4
UPI-045	45	55	10	11			
UPI-045	45	60	10	11	14	59	4
UPI-045	45	61	10	11	14	60	4
UPI-046	46	60	10	11	14	59	4
UPI-048	48	63	10	11	14	62	4
UPI-050	50	60	10				
UPI-050	50	65	10	11	14	64	4
UPI-060	60	75	10				
UPI-60	60	80	10				
UPI-120	120	140	10	11			
UPI-140	140	160	10				
UPI-032	32	45	11				
* UPI-038	38	55	11				
UPI-065	65	80	11				
UPI-075	75	85	11.8				
UPI-080	80	90	11.8				
UPI-085	85	95	11.8				
UPI-090	90	100	11.8	13			
UPI-100	100	110	11.8				
UPI-110	110	120	11.8				

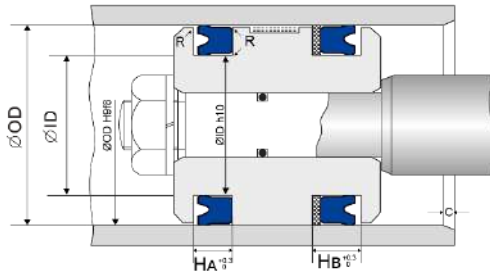
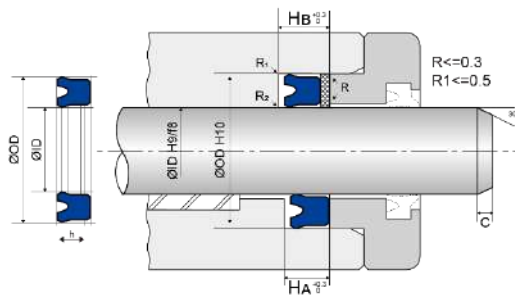
UPI PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	D1	C
UPI-120	120	130	11.8				
UPI-130	130	140	11.8				
UPI-140	140	150	11.8				
UPI-150	150	160	11.8				
UPI-020	20	40	12				
UPI-025	25	45	12	13	15	44	3.5
UPI-040	40	60	12	13	16	59	4
UPI-050	50	66	12	13	16	65	4
UPI-050	50	70	12	13	16	69	4
UPI-051	51	71	12	13	16	70	4
UPI-053	53	73	12	13	16	72	4
UPI-55	55	65	12				
UPI-055	55	70	12				
UPI-055	55	71	12	13	16	70	4
UPI-055	55	75	12	13	16	74	4
UPI-056	56	72	12	13	16	71	4
UPI-056	56	76	12	13	16	75	4
UPI-058	58	78	12	13	16	77	4
UPI-060	60	80	12	13	16	79	4
UPI-062	62	82	12	13	16	81	4
UPI-063	63	83	12	13	16	82	4
UPI-065	65	80	12				
UPI-065	65	85	12	13	16	84	5
UPI-067	67	87	12	13	16	86	5
UPI-070	70	85	12				
UPI-070	70	90	12	13	16	89	5
UPI-071	71	91	12	13	16	90	5
UPI-075	75	85	12				
UPI-075	75	90	12				
UPI-075	75	95	12	13	16	94	5
UPI-080	80	90	12				
UPI-080	80	95	12				
UPI-080	80	100	12	13	16	98	5
UPI-085	85	95	12				
UPI-085	85	100	12				
UPI-085	85	105	12	13	16	103	5
UPI-090	90	100	12				
UPI-090	90	110	12	13	16	108	5
UPI-092	92	112	12	13	16	110	5
UPI-95	95	105	12				
UPI-095	95	115	12	13	16	113	5

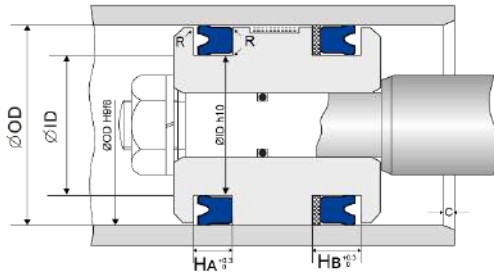
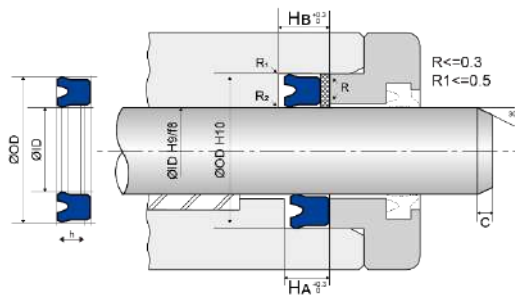
UPI PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	D1	C
UPI-100	100	110	12				
UPI-100	100	120	12	13	16	118	5
* UPI-110	110	120	12				
UPI-110	110	125	12				
UPI-110	110	130	12	13			
* UPI-120	120	130	12				
UPI-130	130	140	12				
* UPI-140	140	150	12				
UPI-140	140	160	12	13			
* UPI-150	150	160	12				
UPI-170	170	190	12	13			
UPI-055	55	80	15	16	19	79	4
UPI-080	80	100	15	16	19	98	5
UPI-095	95	120	15	16	19	118	5
UPI-100	100	125	15	17	20	123	5
UPI-105	105	125	15	17	20	123	5
UPI-106	106	126	15	17	20	124	5
UPI-110	110	130	15	17	20	128	5
UPI-112	112	132	15	17	20	130	5
UPI-115	115	135	15	17	20	133	5
UPI-118	118	138	15	17	20	136	5
UPI-120	120	140	15	17	20	138	5
UPI-130	130	150	15	17	20	148	6.5
UPI-132	132	152	15	17	20	150	6.5
UPI-135	135	150	15				
UPI-135	135	155	15	17	20	153	6.5
UPI-140	140	160	15	17	20	158	6.5
UPI-140	140	165	15	17	20	163	6.5
UPI-145	145	165	15	17	20	163	6.5
UPI-150	150	170	15	17	20	168	6.5
UPI-150	150	175	15	17	20	173	6.5
UPI-155	155	180	15	17	21	178	6.5
UPI-160	160	180	15				
UPI-160	160	185	15	17	21	183	6.5
UPI-165	165	190	15	17	21	188	6.5
UPI-170	170	190	15				
UPI-170	170	195	15	17	21	193	6.5
UPI-175	175	200	15	17	21	198	6.5
UPI-180	180	205	15	17	21	203	6.5
UPI-185	185	210	15	17	21	208	6.5
UPI-190	190	215	15	17	21	213	6.5

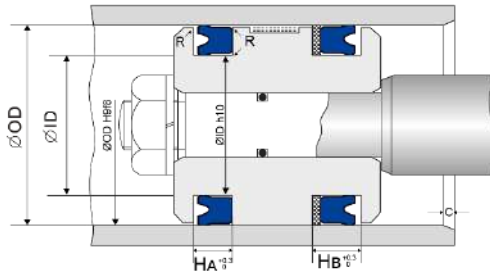
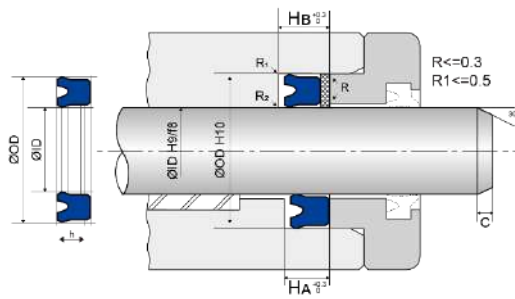
UPI PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	D1	C
UPI-199	199	224	15	17	21	222	6.5
* UPI-200	200	225	15	17	21	223	6.5
UPI-230	230	250	15				
* UPI-320	320	350	15	17	21	348	10
UPI-200	200	225	18	20	24	203	6.5
UPI-205	205	235	18	20	24	233	6.5
UPI-210	210	235	18	20	24	233	6.5
UPI-212	212	237	18	20	24	235	6.5
UPI-220	220	245	18	20	24	243	6.5
UPI-224	224	249	18	20	24	247	6.5
UPI-225	225	250	18	20	24	248	6.5
* UPI-230	230	254	18	20	24	252	6.5
UPI-230	230	255	18	20	24	253	6.5
UPI-236	236	261	18	20	24	259	6.5
UPI-240	240	265	18	20	24	263	6.5
UPI-250	250	275	18	20	24	273	6.5
UPI-260	260	290	18	20	24	288	8
UPI-265	265	295	18	20	24	293	8
UPI-270	270	300	18	20	24	298	8
UPI-280	280	310	18	20	24	308	8
UPI-290	290	320	18	20	24	318	8
UPI-300	300	330	18	20	24	328	8
* UPI-320	320	350	18	20	24	348	10
* UPI-431	431	457.2	18	20	25	455	15
* UPI-440	440	470	19	21	26	468	15
* UPI-330	330	360	20	22	26	358	10
* UPI-310	310	340	22	24	28	338	10
* UPI-315	315	345	22	24	28	343	10
* UPI-320	320	350	22	24	28	348	10
* UPI-330	330	360	22	24	28	358	10
* UPI-340	340	370	22	24	28	368	10
* UPI-350	350	380	22	24	28	378	10
* UPI-355	355	385	22	24	28	383	10
* UPI-370	370	400	22	24	28	398	10
* UPI-375	375	405	22	24	28	403	10
* UPI-380	380	410	22	24	28	408	10
* UPI-385	385	415	22	24	28	413	10
* UPI-390	390	420	22	24	28	418	10
* UPI-400	400	425	22	24	28	423	10
* UPI-400	400	430	22	24	28	428	10
* UPI-430	430	460	22	24	29	458	15

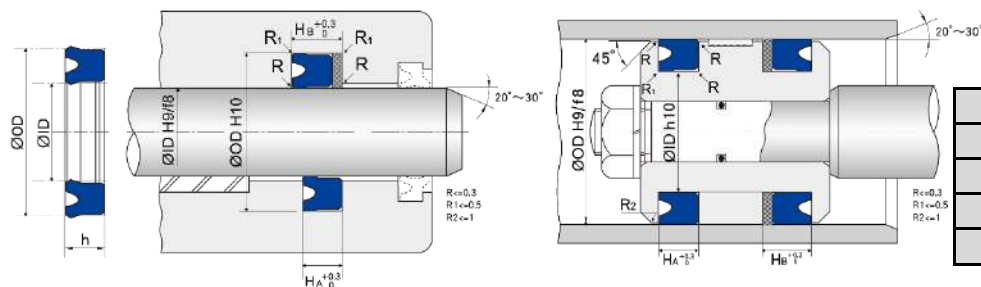
UPI PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
PRESSURE	300kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	D1	C
* UPI-323	323	355	24	26	30	353	10
* UPI-320	320	360	25	27	31	358	10
* UPI-405	405	440	25	27	32	438	15
* UPI-410	410	445	25	27	32	443	15
* UPI-415	415	450	25	27	32	448	15
* UPI-420	420	455	25	27	32	453	15
* UPI-425	425	460	25	27	32	458	15
* UPI-430	430	465	25	27	32	463	15
* UPI-435	435	470	25	27	32	468	15
* UPI-445	445	480	25	27	32	478	15
* UPI-450	450	485	25	27	32	483	15
* UPI-330	330	370	28	30	34	368	10
* UPI-350	350	390	28	30	34	388	10
* UPI-440	440	475	28	30	35	473	15
* UPI-410	410	460	35	37	42	458	15
(INCH)							
UPI-7.25	7.25	8	0.5				

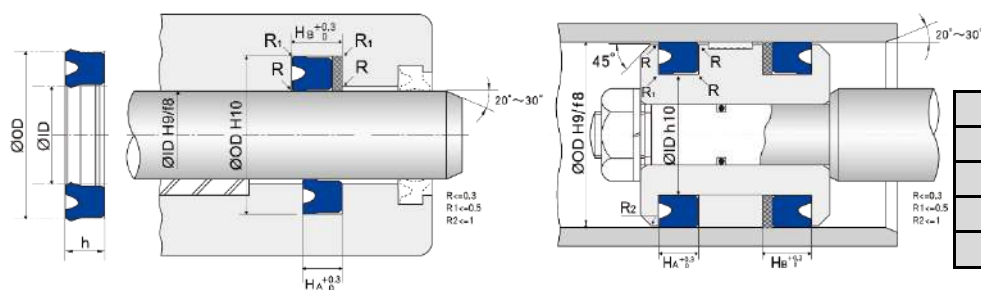
UA2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-35°C~100°C
PRESSURE	210kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
UA2-019.05	19.05	25.4	3.2		
UA2-06	6	10	4.2		
UA2-06	6	12	5	6	8
UA2-06	6	13	5	6.5	8.5
UA2-09	9	17	5	6.5	8.5
UA2-010	10	18	5	5.7	7.7
UA2-011.2	11.2	19.2	5	5.7	7.2
UA2-012	12	20	5	5.7	7.7
UA2-012.5	12.5	20	5	5.7	7.7
UA2-014	14	22	5	5.7	7.2
UA2-015	15	22	5	6	8
* UA2-015	15	23	5	5.7	7.7
UA2-016	16	24	5	5.7	7.2
UA2-017	17	25	5	5.7	7.7
UA2-018	18	26	5	5.7	7.2
* UA2-019	19	26	5	5.7	7.7
UA2-020	20	28	5	5.7	7.2
* UA2-020	20	30	5	16	
UA2-022	22	30	5	5.7	7.7
UA2-022	22	32	5		
UA2-022.4	22.4	30	5	5.7	7.2
UA2-023.5	23.5	31.5	5	5.7	7.2
UA2-024	24	30	5		
UA2-024	24	32	5	5.7	7.7
UA2-025	25	32	5		
UA2-025	25	33	5	5.7	7.2
* UA2-025	25	35	5		
UA2-026	26	32	5		
UA2-026	26	34	5	5.7	8.7
UA2-027	27	35	5	5.7	8.7
UA2-028	28	35.5	5	5.7	7.2
* UA2-028	28	36	5	5.7	8.7
* UA2-029	29	35	5		
UA2-030	30	38	5	5.7	8.7
UA2-032	32	40	5		
UA2-022	22	30	5.3		
UA2-050	50	60	5.7		
UA2-020	20	30	6	7	9
UA2-025	25	35	6	7	9
UA2-028	28	38	6		

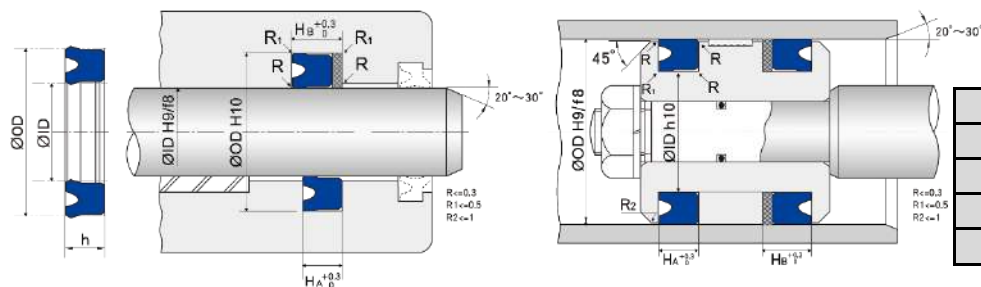
UA2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-35°C~100°C
PRESSURE	210kgf/cm ²
SPEED	1m/s

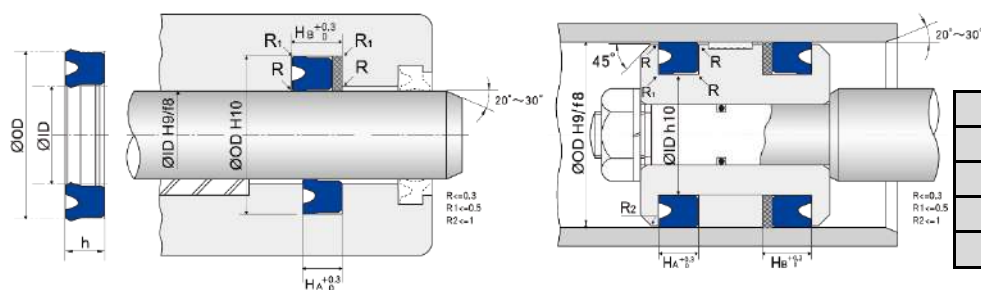
ITEM	ID	OD	h	HA	HB
UA2-030	30	37	6	7	9
UA2-030	30	38	6		
UA2-030	30	40	6	7	9
UA2-031.5	31.5	41.5	6	7	9
UA2-032	32	40	6		
UA2-032	32	42	6	7	9
UA2-033	33	43	6	6	10
UA2-034	34	44	6	7	10
UA2-035	35	45	6	7	9
UA2-035.5	35.5	45	6	7	9
* UA2-035.5	35.5	45.5	6	7	10
UA2-036	36	44	6		
UA2-036	36	46	6	6	10
UA2-038	38	48	6	7	9
UA2-040	40	47	6		
UA2-040	40	48	6		
UA2-040	40	50	6	7	9
UA2-042	42	52	6		
UA2-045	45	55	6	7	9
UA2-046	46	56	6	7	10
UA2-048	48	58	6		
UA2-050	50	60	6	7	9
UA2-053	53	63	6	7	9
UA2-055	55	65	6	7	9
UA2-056	56	66	6	7	9
UA2-058	58	68	6	7	9
UA2-060	60	70	6	7	9
UA2-061	61	71	6	6	10
UA2-063	63	73	6	7	9
UA2-065	65	75	6	7	9
UA2-067	67	77	6	7	9
UA2-070	70	80	6	7	9
UA2-071	71	80	6	7	9
* UA2-071	71	81	6		
UA2-075	75	85	6	7	9
* UA2-076	76	88	6		
UA2-080	80	90	6	7	9
UA2-085	85	95	6	7	10
UA2-090	90	100	6	7	10
* UA2-100	100	110	6		

UA2 PISTON & ROD SEAL



ITEM	ID	OD	h	HA	HB
* UA2-140	140	150	6		
* UA2-155	155	165	6		
UA2-037	37	45	6.3		
* UA2-036	36	46	6.4		
* UA2-056	56	66	6.5		
UA2-028	28	38	7		
UA2-030	30	40	7		
* UA2-035	35	42	7		
* UA2-035	35	45	7	8	10
UA2-036	36	46	7		
* UA2-040	40	46	7		
UA2-045	45	56	7	8	10
UA2-050	50	60	7		
UA2-060	60	71	7	8	10
* UA2-140	140	150	7		
UA2-028	28	38	7.3		
* UA2-036	36	46	7.3		
* UA2-040	40	50	7.3		
* UA2-022	22	32	8	9	12
UA2-028	28	38	8	9	12
UA2-032	32	40	8	9	12
* UA2-036	36	48	8		
UA2-040	40	50	8		
* UA2-045	45	53	8		
* UA2-045	45	55	8		
* UA2-050	50	60	8		
* UA2-050	50	63	8		
* UA2-055	55	65	8		
* UA2-065	65	73	8		
* UA2-080	80	90	8	9	12
UA2-086	86	100	8.5	9.5	12.5
UA2-098	98	112	8.5	9.5	12.5
UA2-106	106	120	8.5	9.5	12.5
UA2-118	118	132	8.5	9.5	12.5
UA2-132	132	145	8.5	9.5	12.5
UA2-136	136	150	8.5	9.5	12.5
* UA2-025	25	40	9		
* UA2-030	30	45	9		
* UA2-035	35	50	9		
* UA2-040	40	55	9		

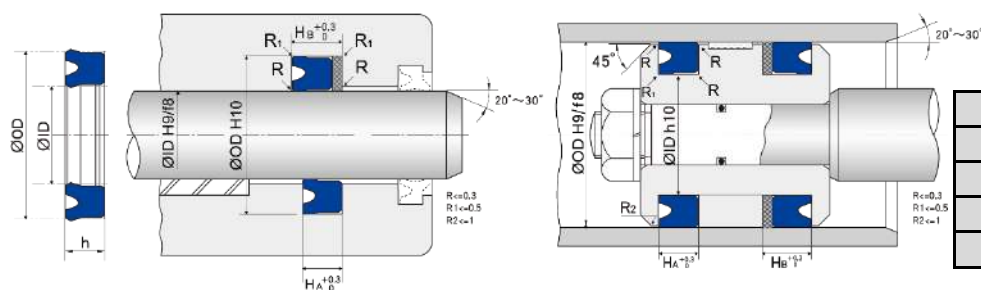
UA2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-35°C~100°C
PRESSURE	210kgf/cm ²
SPEED	1m/s

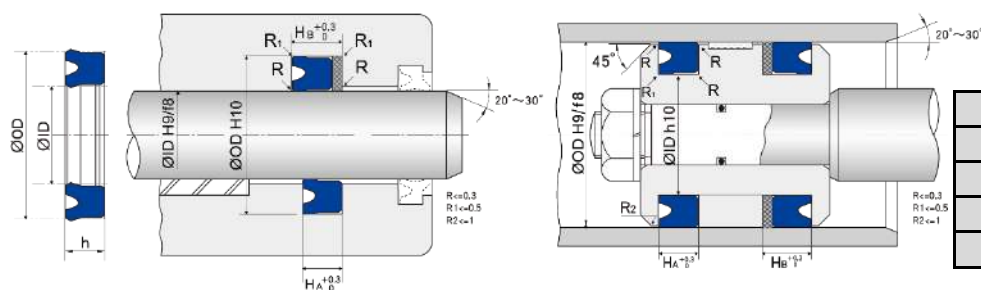
ITEM	ID	OD	h	HA	HB
* UA2-045	45	60	9		
UA2-050	50	60	9		
* UA2-050	50	65	9		
* UA2-050	50	70	9		
* UA2-055	55	70	9		
* UA2-057.15	57.15	73.03	9		
* UA2-060	60	75	9		
* UA2-065	65	80	9		
UA2-070	70	85	9		
* UA2-072	72	87	9		
* UA2-075	75	90	9		
* UA2-077	77	92	9		
* UA2-080	80	93	9		
UA2-080	80	95	9	10	13
* UA2-080	80	100	9		
UA2-085	85	100	9	10	13
UA2-089	89	104	9	10	13
UA2-090	90	105	9	10	13
UA2-095	95	110	9	10	13
UA2-096	96	111	9	10	13
* UA2-097	97	112	9		
UA2-098	98	112	9	10	13
* UA2-098	98	113	9		
UA2-100	100	115	9	10	13
UA2-105	105	120	9	10	13
UA2-110	110	125	9	10	13
UA2-112	112	125	9	10	13
UA2-115	115	130	9	10	13
* UA2-118	118	133	9		
UA2-120	120	135	9		
UA2-125	125	140	9	10	13
UA2-130	130	145	9		
UA2-135	135	150	9		
UA2-136	136	150	9	10	13
UA2-140	140	155	9	10	13
UA2-145	145	160	9	10	13
UA2-150	150	165	9	9	13
* UA2-155	155	170	9		
UA2-160	160	175	9		13
UA2-165	165	180	9		13

UA2 PISTON & ROD SEAL



ITEM	ID	OD	h	HA	HB
* UA2-170	170	185	9		
UA2-175	175	190	9		
UA2-185	185	200	9	9	
* UA2-050.8	50.8	63.5	9.52	9.52	
* UA2-063.5	63.5	76.2	9.52		
* UA2-028	28	40	10	10	
* UA2-030	30	45	10	10	
* UA2-032	32	48	10	10	
* UA2-033	33	43	10		
* UA2-035	35	50	10	10	
* UA2-045	45	55	10	10	
UA2-045	45	58	10	10	
* UA2-045	45	60	10	10	
* UA2-050	50	63	10		
* UA2-050	50	65	10	10	
* UA2-055	55	68	10		
* UA2-055	55	70	10	10	
* UA2-055	55	71	10		
* UA2-060	60	70	10		
* UA2-060	60	73	10		
* UA2-060	60	76	10		
* UA2-065	65	78	10		
* UA2-065	65	80	10	10	
* UA2-065	65	85	10		
* UA2-070	70	83	10		
* UA2-070	70	85	10		
* UA2-075	75	88	10		
* UA2-075	75	90	10	10	
* UA2-080	80	93	10		
* UA2-080	80	95	10		
* UA2-085	85	100	10		
* UA2-090	90	105	10		
* UA2-090	90	110	10	10	
* UA2-095	95	110	10	10	
* UA2-100	100	115	10		
* UA2-105	105	120	10		
* UA2-110	110	125	10		
* UA2-110	110	130	10	10	
* UA2-115	115	130	10	10	
* UA2-120	120	135	10		

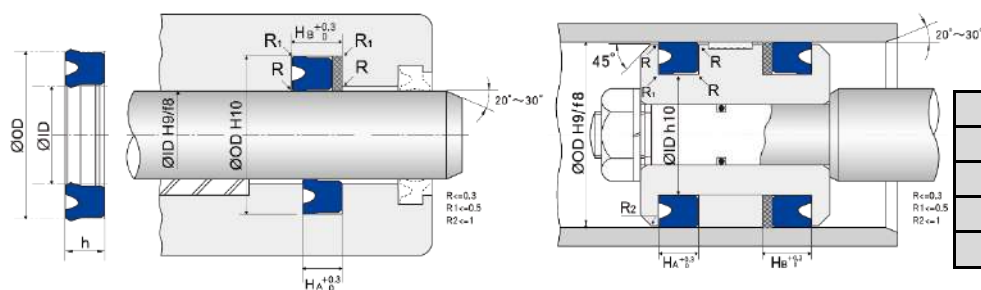
UA2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-35°C~100°C
PRESSURE	210kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
* UA2-120	120	140	10	10	
* UA2-130	130	145	10		
* UA2-156	156	171	10		
* UA2-063	63	78	11.5		
* UA2-034	34	50	12		
* UA2-040	40	60	12	12	
* UA2-045	45	65	12	12	
* UA2-050	50	65	12	12	
* UA2-050	50	70	12	12	
* UA2-055	55	71	12		
* UA2-055	55	75	12	12	
* UA2-060	60	76	12		
* UA2-060	60	80	12	12	
* UA2-063	63	83	12	12	
* UA2-065	65	80	12	12	
* UA2-065	65	85	12	12	
UA2-070	70	80	12	12	
* UA2-070	70	90	12	12	
* UA2-075	75	95	12	12	
* UA2-080	80	100	12	12	
* UA2-085	85	105	12	12	
* UA2-090	90	110	12	12	
* UA2-095	95	115	12	12	
* UA2-100	100	120	12	12	
* UA2-105	105	125	12		
* UA2-110	110	130	12		
* UA2-115	115	135	12		
* UA2-120	120	140	12		
* UA2-125	125	145	12		
* UA2-130	130	150	12		
* UA2-140	140	160	12		
* UA2-140	140	165	12		
* UA2-150	150	170	12		
* UA2-160	160	180	12		
* UA2-170	170	190	12		
* UA2-175	175	200	12		
UA2-180	180	200	12	12	16
UA2-190	190	210	12		
UA2-200	200	220	12	12	16
* UA2-210	210	230	12		

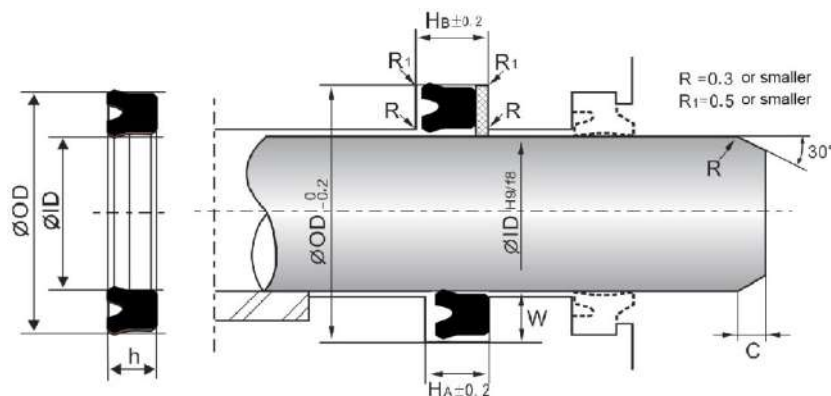
UA2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-35°C~100°C
PRESSURE	210kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB
* UA2-220	220	240	12		
* UA2-230	230	250	12	12	
* UA2-240	240	260	12		
* UA2-180	180	200	12.5		
* UA2-089	89	105	12.7		
* UA2-090	90	110	13		
* UA2-100	100	112	14		
* UA2-065	65	90	15	15	
* UA2-100	100	120	15	15	
* UA2-105	105	125	15		
* UA2-112	112	132	15		
UA2-200	200	225	15	16	
* UA2-110	110	130	16	17	
* UA2-115	115	135	16	17	
* UA2-120	120	140	16	17	
* UA2-127	127	147	16	17	
* UA2-130	130	150	16	17	
* UA2-180	180	200	16	17	
* UA2-205	205	230	16		
* UA2-220	220	225	16	17	
* UA2-225	225	250	16	17	
* UA2-230	230	255	16	17	
* UA2-250	250	270	16	17	
* UA2-320	320	350	18	20	
* UA2-230	230	255	19	20	
* UA2-260	260	285	19	20	
* UA2-300	300	330	19	20	
* UA2-360	360	390	22	24	

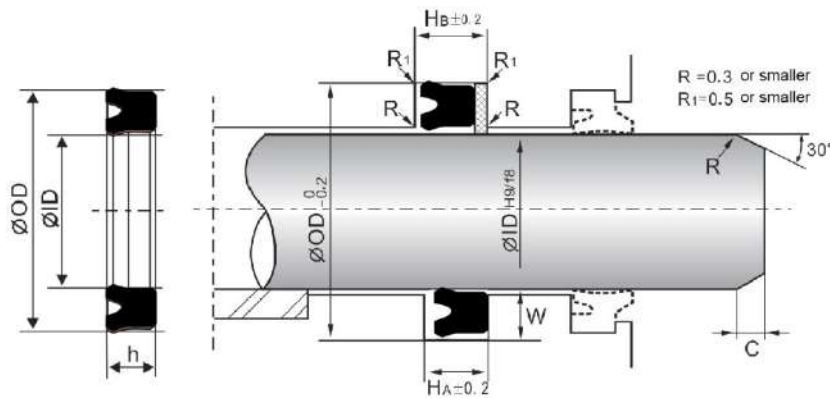
UA PISTON & ROD SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-25°C~100°C	-10°C~150°C
PRESSURE	140kgf/cm ²	140kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	D1	HA	HB	C
UA-014	14	20	3.5	19	4.2	6.2	2
UA-012	12	18	4	17			
UA-020	20	28	4	27			
UA-013	13	19	4.5	18	5.2	7.7	2
UA-008	8	16	4.6	15			
UA-008	8	16	5	15	5.7	7.7	2
UA-11.2	11.2	19.2	5	18.2	5.7	7.2	2
UA-012	12	18	5	17	5.7		
UA-012	12	20	5	19	5.7	7.7	2
UA-014	14	22	5	21	5.7	7.7	2
UA-016	16	24	5	23	5.7	7.7	2
UA-018	18	25	5	24	5.7	7.7	2
UA-018	18	26	5	25	5.7	7.7	2
UA-020	20	28	5	27	5.7	7.7	2
UA-022	22	30	5	29	5.7	7.7	2
UA-022.4	22.4	30	5	29	5.7	7.7	2
* UA-022.4	22.4	30.4	5	29	5.7	7.7	2
UA-023.5	23.5	31.5	5	30.5	5.7	7.7	2
UA-024	24	32	5	31	5.7	7.7	2
UA-025	25	33	5	32	5.7	7.7	2.5
UA-025	25	35	5	34	5.7		
UA-027	27	35	5	34	5.7	8.7	2.5
UA-028	28	35.5	5	34.5	5.7	8.7	2.5
UA-028A	28	36	5	35	5.7	8.7	2.5
UA-040	40	50	5	49	5.7		
UA-030	30	40	6	39	7	10	2.5
UA-031.5	31.5	41.5	6	40.5	7	10	2.5
UA-032	32	42	6	41	7	10	2.5
UA-035	35	45	6	44	7	10	2.5
UA-035.5A	35.5	45	6	44	7	10	2.5
UA-036	36	46	6	45	7	10	2.5
UA-038	38	48	6	47	7	9	3
UA-040	40	50	6	49	7	10	2.5
UA-045	45	55	6	54	7	10	2.5
UA-050	50	60	6	59	7	10	2.5
UA-053	53	63	6	62	7	10	2.5
UA-055	55	65	6	64	7	10	2.5

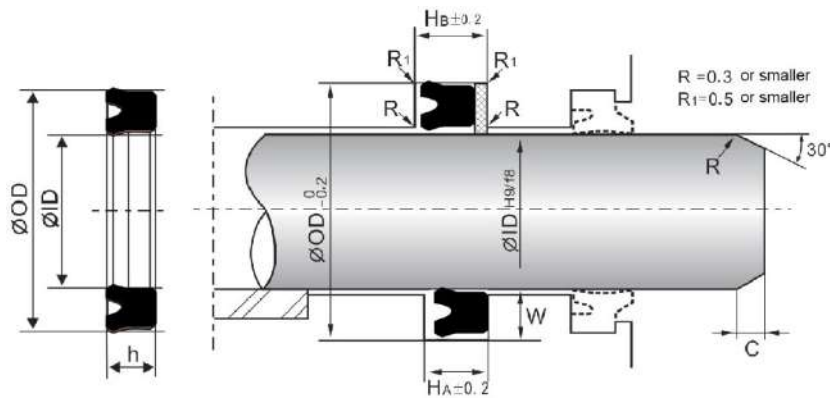
UA PISTON & ROD SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-25°C~100°C	-10°C~150°C
PRESSURE	140kgf/cm ²	140kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	D1	HA	HB	C
UA-056	56	66	6	65	7	10	2.5
UA-058	58	68	6	67	7	10	2.5
UA-060	60	70	6	69	7	10	2.5
UA-063	63	73	6	72	7	10	2.5
UA-065	65	75	6	74	7	10	2.5
UA-067	67	77	6	76	7	10	2.5
UA-070	70	80	6	79	7	10	2.5
UA-071	71	80	6	79	7	10	2.5
UA-075	75	85	6	84	7	10	2.5
UA-080	80	90	6	89	7	10	2.5
UA-085A	85	95	6	94	7	10	4
UA-090	90	100	6	99	7	10	4
UA-045A	45	56	7	55	8	11	2.5
UA-060A	60	71	7	70	8	11	2.5
UA-010	10	20	8	19	9	11	2
* UA-098	98	112	8.5	110	9.5	12.5	4
UA-106	106	120	8.5	118	9.5	12.5	4
* UA-112	112	125	8.5	123	9.5	12.5	4
* UA-115	115	130	8.5	128	9.5	12.5	4
* UA-118	118	132	8.5	130	9.5	12.5	4
UA-132	132	145	8.5	143	9.5	12.5	4
UA-136	136	150	8.5	148	9.5	12.5	4
UA-085	85	100	9	98	10	13	4
UA-090	90	105	9	103	10	13	4
UA-095	95	110	9	108	10	13	4
UA-100	100	115	9	113	10	13	4
UA-105	105	120	9	118	10	13	4
UA-110	110	125	9	123	10	13	4
UA-112A	112	125	9	123	10	13	4
UA-115	115	130	9	128	10	13	4
UA-120	120	135	9	133	10	13	4
UA-125	125	140	9	138	10	13	4
UA-130	130	145	9	143	10	13	4
* UA-135	135	150	9	148	10	13	4
* UA-136	136	150	9	148	10	13	4
UA-140	140	155	9	153	10	13	4
UA-145	145	160	9	158	10	13	4

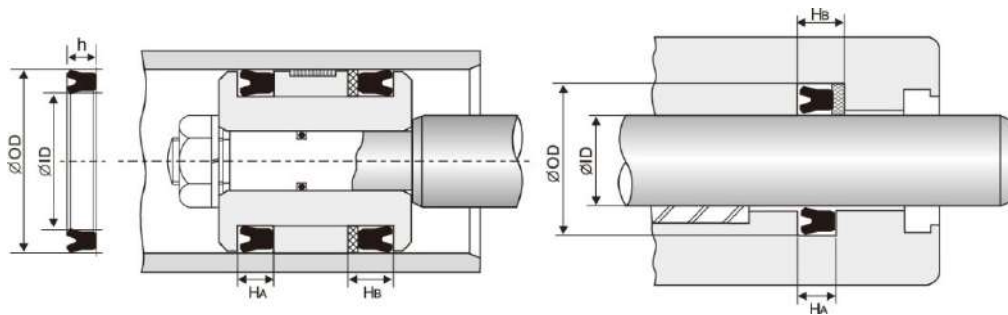
UA PISTON & ROD SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-25°C~100°C	-10°C~150°C
PRESSURE	140kgf/cm ²	140kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	h	D1	HA	HB	C
UA-150	150	165	9	163	10	13	4
UA-155	155	170	9	168	10	14	4
UA-160	160	175	9	173	10	14	4
UA-165	165	180	9	178	10	14	4
UA-170	170	185	9	183	10	14	4
UA-175	175	190	9	188	10	14	4
UA-140	140	155	9.7	153	10.7		
UA-180	180	200	12	198	13	17	5
UA-190	190	210	12	208	13	17	5
* UA-195	195	215	12	213	13	17	5
UA-200	200	220	12	218	13	17	5
UA-204	204	224	12	222	13	17	5
UA-210	210	230	12	228	13	17	5
UA-215	215	235	12	233	13	17	5
UA-220	220	240	12	238	13	17	5
UA-224	224	244	12	242	13	17	5
UA-230	230	250	12	248	13	17	5
UA-240	240	260	12	258	13	17	5
UA-250	250	270	12	268	13	17	5
UA-260	260	280	14	278	15	19	5
UA-280	280	300	14	298	15	19	5
* UA-250	250	275	19	277	20		

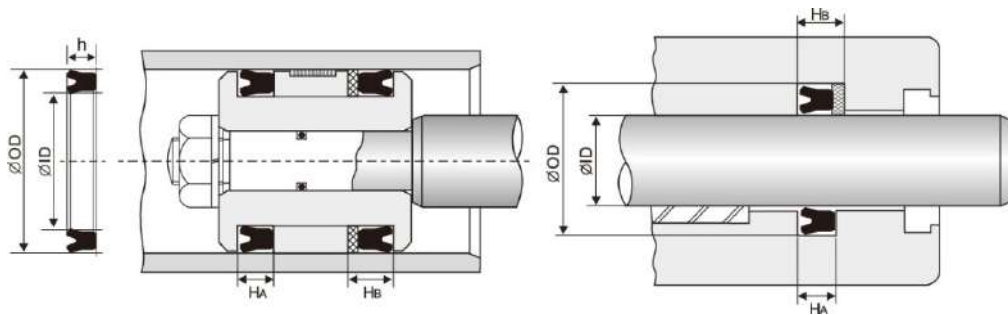
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
UPH-25	25	35	7.3				
* UPH-6.3	6.3	16.3	7.5	8.5	10.5	15.3	2.5
* UPH-7.1	7.1	17.1	7.5	8.5	10.5	16.1	2.5
UPH-8	8	18	7.5	8.5	10.5	17	2.5
* UPH-9	9	19	7.5	8.5	10.5	18	2.5
* UPH-10	10	20	7.5	8.5	10.5	19	2.5
* UPH-11.2	11.2	21.2	7.5	8.5	10.5	20.2	2.5
* UPH-12.5	12.5	22.5	7.5	8.5	10.5	21.5	2.5
* UPH-14	14	24	7.5	8.5	10.5	23	2.5
* UPH-16	16	26	7.5	8.5	10.5	25	2.5
UPH-6.3A	6.3	16.3	8	9	11	15.3	2.5
UPH-7.1A	7.1	17.1	8	9	11	16.1	2.5
UPH-8A	8	18	8	9	11	17	2.5
UPH-9A	9	19	8	9	11	18	2.5
UPH-10A	10	20	8	9	11	19	2.5
UPH-11.2A	11.2	21.2	8	9	11	20.2	2.5
UPH-12	12	22	8	9	11	21	2.5
UPH-12	12	25	8	9	11	24	2.5
UPH-12.5A	12.5	22.5	8	9	11	21.5	2.5
UPH-14A	14	24	8	9	11	23	2.5
UPH-15A	15	25	8	9	11	24	2.5
UPH-16A	16	26	8	9	11	25	2.5
UPH-18A	18	28	8	9	11	27	2.5
UPH-20A	20	30	8	9	11	29	3.5
* UPH-21.5	21.5	31.5	8	9	11	30.5	3.5
UPH-22.4A	22.4	32.4	8	9	11	31.4	3.5
UPH-25A	25	35	8	9	11	34	3.5
* UPH-25.5	25.5	35.5	8	9	11	34.5	3.5
* UPH-15	15	28	10	11	13	27	2.5
* UPH-16	16	32	10	11	13	31	2.5
* UPH-18	18	31	10	11	13	30	3.5
* UPH-18	18	33	10	11	13	32	3.5
* UPH-18.5	18.5	31.5	10	11	13	30.5	3.5
* UPH-20	20	33	10	11	13	32	3.5
* UPH-20	20	35	10	11	13	34	3.5

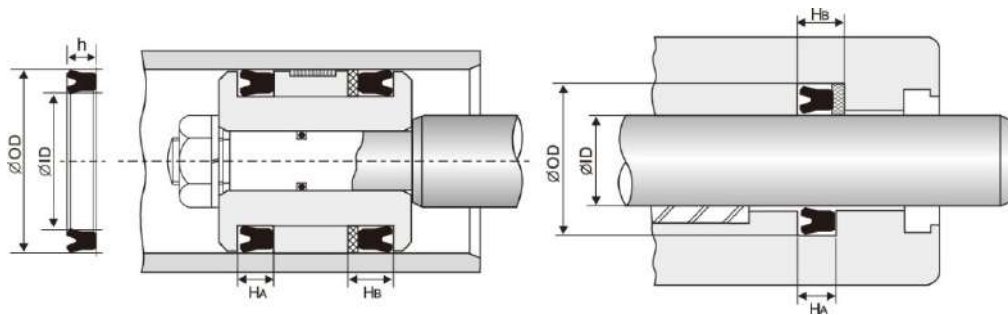
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
UPH-22	22	35	10	11	13	34	3.5
* UPH-22.4	22.4	35.4	10	11	13	34.4	3.5
UPH-25	25	38	10	11	13	37	3.5
UPH-25B	25	40	10	11	13	39	3.5
UPH-27	27	40	10	11	14	39	3.5
* UPH-28	28	40	10	11	14	39	3.5
UPH-28	28	41	10	11	14	40	3.5
UPH-28B	28	43	10	11	14	42	3.5
UPH-30	30	43	10	11	14	42	3.5
UPH-30A	30	45	10	11	14	44	3.5
UPH-30	30	50	10	11	14	49	3.5
* UPH-31.5	31.5	44.5	10	11	14	43.5	3.5
UPH-31.5A	31.5	46.5	10	11	14	45.5	3.5
UPH-32	32	45	10	11	14	44	3.5
UPH-32A	32	46	10	11	14	45	3.5
UPH-32B	32	48	10	11	14	47	3.5
UPH-35B	35	50	10	11	14	49	4
UPH-35.5A	35.5	50.5	10	11	14	49.5	4
UPH-38	38	52	10	11	14	51	4
UPH-40A	40	55	10	11	14	55	4
UPH-40B	40	56	10	11	14	55	4
UPH-41	41	56	10	11	14	55	4
UPH-45A	45	60	10	11	14	59	4
UPH-48	48	63	10	11	14	62	4
UPH-50A	50	65	10	11	14	64	4
* UPH-25	25	45	12	13	15	44	3.5
UPH-34	34	50	12	13	16	49	3.5
UPH-35	35	50	12	13	16	49	4
* UPH-35	35	51	12	13	16	50	4
* UPH-35.5	35.5	51.5	12	13	16	50.5	4
UPH-40	40	56	12	13	16	55	4
UPH-40C	40	60	12	13	16	59	4
UPH-45B	45	60	12	13	16	59	4
UPH-45	45	61	12	13	16	60	4
UPH-47	47	63	12	13	16	62	4

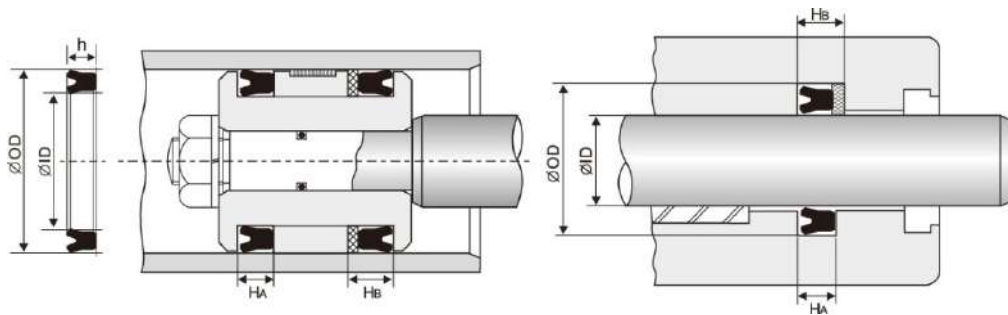
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
UPH-50	50	66	12	13	16	65	4
UPH-50B	50	70	12	13	16	69	4
* UPH-51	51	71	12	13	16	70	4
* UPH-53	53	69	12	13	16	68	4
UPH-53A	53	73	12	13	16	72	4
UPH-55	55	71	12	13	16	70	4
UPH-55A	55	75	12	13	16	74	4
UPH-56	56	72	12	13	16	71	4
UPH-56A	56	76	12	13	16	75	4
UPH-60	60	76	12	13	16	75	4
UPH-60A	60	80	12	13	16	79	4
* UPH-63	63	79	12	13	16	78	4
UPH-63A	63	83	12	13	16	82	4
UPH-64	64	80	12	13	16	79	4
UPH-65	65	81	12	13	16	80	5
UPH-65A	65	85	12	13	16	84	5
* UPH-67	67	87	12	13	16	86	5
UPH-70A	70	90	12	13	16	89	5
UPH-71A	71	91	12	13	16	90	5
UPH-75A	75	95	12	13	16	94	5
UPH-80A	80	100	12	13	16	99	5
UPH-85A	85	105	12	13	16	104	5
UPH-90A	90	110	12	13	16	109	5
* UPH-92	92	112	12	13	16	111	5
UPH-95A	95	115	12	13	16	114	5
UPH-100A	100	120	12	13	16	118	5
UPH-105	105	125	12	13	16	123	5
UPH-120	120	140	12	13	16	138	5
UPH-125	125	145	12	13	16	143	6.5
UPH-130	130	150	12	13	16	148	6.5
UPH-140	140	160	12	13	16	158	6.5
UPH-150	150	170	12	13	16	168	6.5
UPH-160	160	180	12	13	16	178	6.5
* UPH-170	170	190	12				
UPH-185	185	205	12	13	16	203	6.5

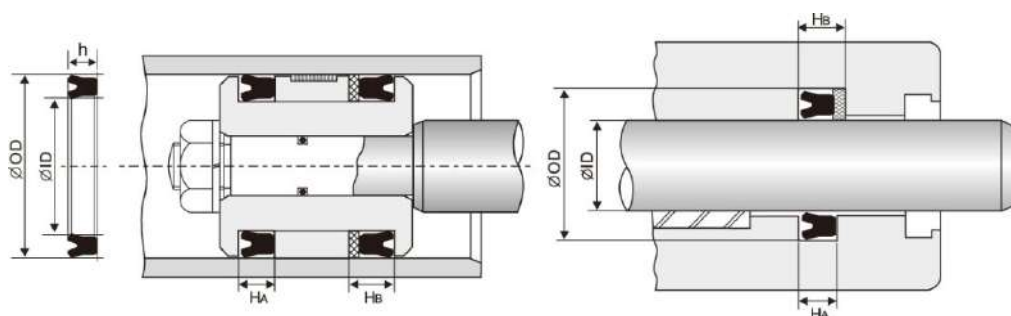
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
UPH-210	210	230	12	13	16	228	6.5
* UPH-320	320	340	12	13	17	338	10
* UPH-200	200	225	12.5				
UPH-55	55	80	15	16	19	79	4
* UPH-67	67	87	15	16	19	86	5
UPH-70	70	90	15	16	19	89	5
* UPH-71	71	91	15	16	19	90	5
UPH-75	75	95	15	16	19	94	5
UPH-80	80	100	15	16	19	99	5
UPH-85	85	105	15	16	19	104	5
UPH-90	90	110	15	16	19	109	5
* UPH-92	92	112	15	16	19	111	5
UPH-95	95	115	15	16	19	114	5
UPH-95B	95	120	15	16	19	118	5
UPH-100	100	120	15	16	19	118	5
UPH-100B	100	125	15	16	19	123	5
* UPH-105	105	120	15				
UPH-105	105	125	15	16	19	123	5
* UPH-106	106	126	15	16	19	124	5
UPH-110	110	130	15	16	19	128	5
UPH-112	112	132	15	16	19	130	5
UPH-115	115	135	15	16	19	133	5
* UPH-118	118	138	15	16	19	136	5
UPH-120	120	140	15	16	19	138	5
UPH-125A	125	145	15	16	19	143	6.5
UPH-130A	130	150	15	16	19	148	6.5
* UPH-132	132	152	15	16	19	150	6.5
UPH-135B	135	155	15	16	19	153	6.5
UPH-140A	140	160	15	16	19	158	6.5
UPH-145A	145	165	15	16	19	163	6.5
UPH-150A	150	170	15	16	19	168	6.5
UPH-155B	155	180	15	16	20	178	6.5
UPH-160A	160	185	15	16	20	183	6.5
UPH-165A	165	190	15	16	20	188	6.5
* UPH-170	170	190	15				

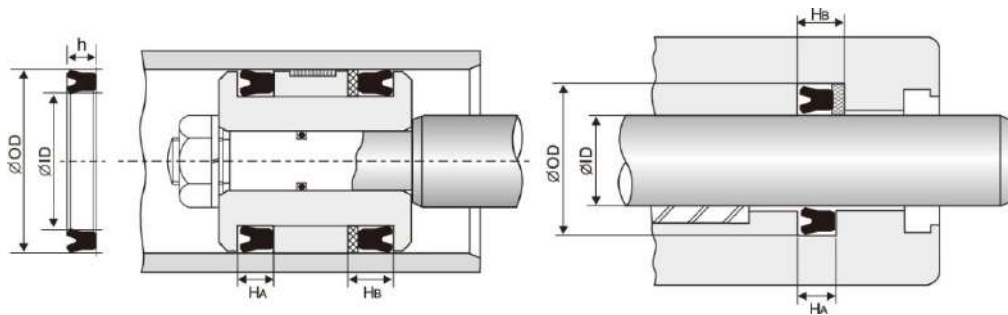
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
UPH-170A	170	195	15	16	20	193	6.5
UPH-175B	175	200	15	16	20	198	6.5
UPH-180A	180	205	15	16	20	203	6.5
UPH-185	185	210	15	16	20	208	6.5
UPH-190A	190	215	15	16	20	213	6.5
* UPH-199	199	224	15	16	20	222	6.5
UPH-200A	200	225	15	16	20	223	6.5
* UPH-320	320	345	15				
* UPH-320	320	350	15				
* UPH-380	380	400	15	16	20	398	10
* UPH-380	380	410	15	16	20	408	10
* UPH-380	380	410	15	16	20	408	10
UPH-135A	135	160	15.7	17	20	158	6.5
* UPH-155	155	180	15.7	17	21	178	6.5
* UPH-175	175	200	15.7	17	21	198	6.5
* UPH-199	199	224	15.7	17	21	222	6.5
* UPH-325	325	350	16				
* UPH-330	330	355	16	17	21	353	10
* UPH-371	371	396	16	17	21	394	10
* UPH-520	520	550	17	18	23	548	10
UPH-210	210	235	18	20	24	233	6.5
UPH-220	220	245	18				
* UPH-225	225	250	18	19	23	248	6.5
* UPH-230	230	255	18	20	24	253	6.5
* UPH-230	230	260	18				
* UPH-240	240	265	18	20	24	263	6.5
UPH-250	250	280	18	19	23	278	6.5
UPH-270	270	300	18	19	23	298	8
* UPH-290	290	320	18	19	23	318	8
* UPH-310	310	340	18	19	23	338	10
* UPH-320	320	350	18	24	28	348	10
* UPH-445	445	470	18	19	24	468	10
* UPH-480	480	505	18	19	24	503	10
UPH-125	125	150	19	20	23	148	6.5
* UPH-130	130	155	19	20	23	153	6.5

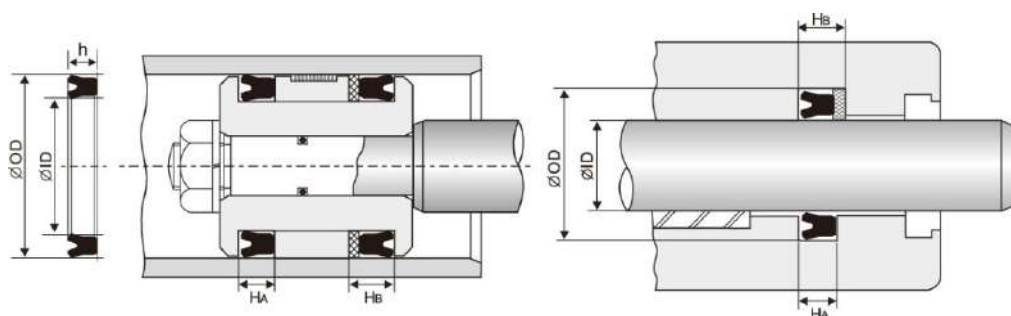
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
UPH-132	132	157	19	20	23	155	6.5
UPH-135	135	160	19	20	23	158	6.5
* UPH-140	140	165	19	20	23	163	6.5
UPH-145	145	170	19	20	23	168	6.5
UPH-150	150	175	19	20	23	173	6.5
UPH-155	155	180	19	20	24	178	6.5
UPH-160	160	185	19	20	24	183	6.5
UPH-165	165	190	19	20	24	188	6.5
UPH-170	170	195	19	20	24	193	6.5
UPH-175	175	200	19	20	24	198	6.5
UPH-180	180	205	19	20	24	203	6.5
UPH-190	190	215	19	20	24	213	6.5
* UPH-199	199	224	19	20	24	222	6.5
UPH-200	200	225	19	20	24	223	6.5
UPH-212	212	237	19	20	24	235	6.5
UPH-215	215	240	19	20	24	238	6.5
* UPH-224	224	249	19	20	24	247	6.5
UPH-225	225	250	19	20	24	248	6.5
UPH-236	236	261	19	20	24	259	6.5
UPH-250	250	275	19	20	24	273	6.5
* UPH-250	250	280	19				
UPH-255	255	280	19	20	24	277	6
* UPH-265	265	295	19				
* UPH-275	275	300	19	21	24	297	6
* UPH-280	280	310	19				
* UPH-300	300	330	19				
* UPH-220	220	255	20				
* UPH-330	330	356	20	22	26	254	10
* UPH-430	430	470	20	22	27	468	10
* UPH-460	460	500	20	22	27	498	10
UPH-280	280	310	22	24	28	308	8
* UPH-290	290	320	22	24	28	318	8
* UPH-310	310	340	22	24	28	338	10
* UPH-320	320	350	22	24	28	348	10
UPH-330	330	360	22	24	28	358	10

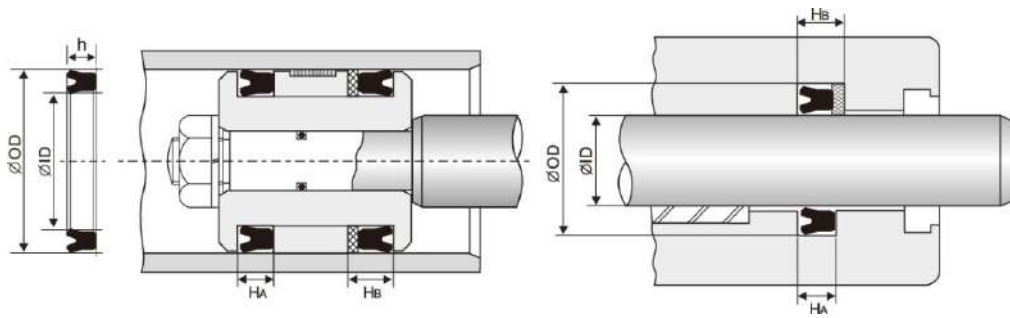
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
* UPH-340	340	370	22	24	28	368	10
UPH-350	350	380	22	24	28	378	10
* UPH-355	355	385	22	24	28	383	10
* UPH-360	360	390	22	24	28	388	10
* UPH-365	365	395	22	24	28	393	10
UPH-370	370	400	22	24	28	398	10
UPH-380	380	410	22	24	28	408	10
* UPH-385	385	425	22				
* UPH-390	390	420	22	24	28	418	10
* UPH-395	395	425	22	24	28	423	10
UPH-400	400	430	22	24	28	428	10
UPH-450	450	480	22	24	29	478	10
* UPH-370	370	400	23	25	29	398	10
* UPH-265	265	297	24	26	30	295	8
* UPH-270	270	300	24	26	30	298	8
UPH-280	280	312	24	26	30	310	8
* UPH-283	283	315	24	26	30	313	8
* UPH-300	300	330	24				
UPH-300	300	332	24	26	30	330	8
* UPH-315	315	347	24	26	30	345	10
* UPH-323	323	355	24	26	30	353	10
* UPH-335	335	367	24	26	30	365	10
* UPH-348	348	380	24	26	30	378	10
* UPH-355	355	387	24	26	29	356	6
* UPH-368	368	400	24	26	30	398	10
* UPH-375	375	407	24	26	30	405	10
* UPH-400	400	432	24	26	29	401	6
* UPH-425	425	457	24	26	31	455	10
* UPH-300	300	340	25				
* UPH-320	320	360	25	27	31	358	10
* UPH-370	370	400	25	27	31	398	10
* UPH-370	370	400	25	27	31	398	10
* UPH-400	400	430	25	27	31	428	10
* UPH-400	400	440	25				
* UPH-420	420	455	25	27	32	453	10

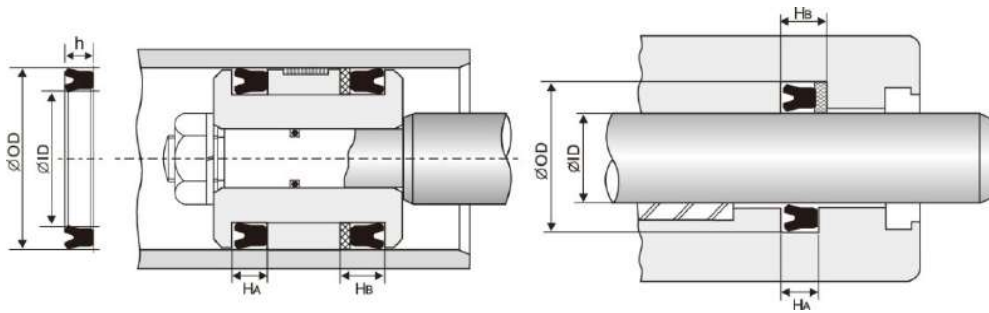
UPH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	HA	HB	ØD ₁	C
* UPH-435	435	470	25	27	32	468	10
* UPH-490	490	530	25	27	32	528	10
* UPH-500	500	540	25	27	32	538	20
* UPH-320	320	360	28				
* UPH-380	380	420	30	32	36	418	10
* UPH-440	440	480	35	37	42	478	10

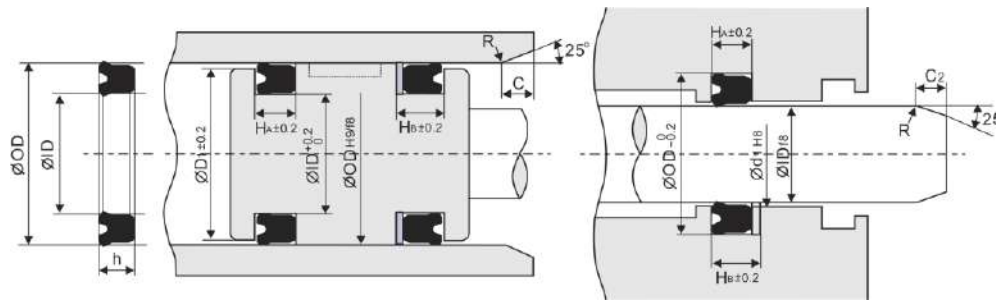
UKH PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
PRESSURE	150 kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h
UKH-290	290	320	18
UKH-230	230	255	19
UKH-240	240	265	19
UKH-250	250	275	19
UKH-255	255	280	19
UKH-350	350	380	22
UKH-400	400	430	22
UKH-450	450	480	22
UKH-300	300	332	24
UKH-315	315	347	24
UKH-355	355	387	24
UKH-368	368	400	24
UKH-400	400	432	24
UKH-425	425	457	24
UKH-450	450	482	24
UKH-475	475	507	24
UKH-500	500	532	24
* UKH-500	500	540	25
* UKH-560	560	600	28
UKH-560	560	600	30
UKH-630	630	670	30
UKH-660	660	700	30
UKH-700	700	740	30
* UKH-780	780	820	30
(inch)			
UKH-457.2	457.2	488.9	25.4

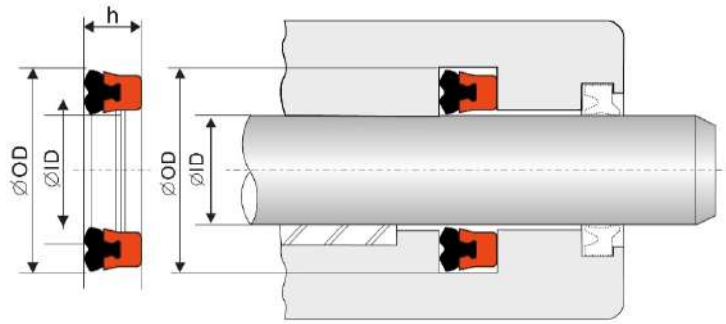
AKY PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-40°C~100°C
PRESSURE	140kgf/cm ²
SPEED	0.5m/s

ITEM	ID	OD	h	D1	d1	HA	HB	C	C2
AKY-012	12	20	5	19	12.4	5.7	6.7	3	1.5
AKY-012.5	12.5	20	5	19	12.9	5.7	6.7	3	1.5
AKY-060	60	71	7	70	60.6	8	9.5	3.5	3
AKY-070	70	80	6	79	70.6	7	8.5	3.5	3
AKY-080	80	90	6	89	80.6	7	8.5	3.5	3
AKY-090	90	100	6	99	90.6	7	8.5	4	4
AKY-055	55	42	7.6						
AKY-085	85	100	9	98	85.6	10	12	4	4
AKY-090	90	105	9	103	90.6	10	12	4	4
AKY-095	95	110	9	108	95.6	10	12	4	4
AKY-100	100	115	9	113	100.6	10	12	4	4
AKY-105	105	120	9	118	105.6	10	12	4	4
AKY-150	150	165	9	163	150.6	10	12	4	4

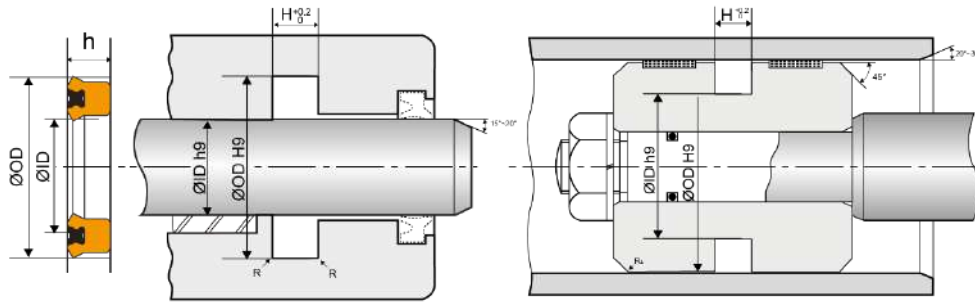
RZ2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	HY+NBR
TEMP.	-40°C~100°C
PRESSURE	400kgf/cm2
SPEED	1m/s

ITEM	ID	OD	h
RZ2-70	70	80	6
RZ2-105	105	115	6.5
RZ2-095	95	110	7.7
RZ2-055	55	70	12
RZ2-060	60	75	12
RZ2-065	65	80	12
RZ2-070	70	85	12
RZ2-075	75	90	12
RZ2-080	80	95	12
RZ2-085	85	100	12
RZ2-090	90	105	12
RZ2-095	95	110	12
RZ2-100	100	115	12
RZ2-105	105	120	12
RZ2-110	110	125	12
RZ2-115	115	130	12
RZ2-120	120	135	12
RZ2-055	55	68	13
RZ2-060	60	73	13
RZ2-065	65	78	13
RZ2-070	70	83	13
RZ2-075	75	88	13
RZ2-080	80	93	13
RZ2-085	85	100	13
RZ2-090	90	105	13
RZ2-095	95	110	13
RZ2-100	100	115	13
RZ2-110	110	130	13
RZ2-120	120	140	13
RZ2-095	95	115	15
RZ2-105	105	125	15
RZ2-120	120	140	15

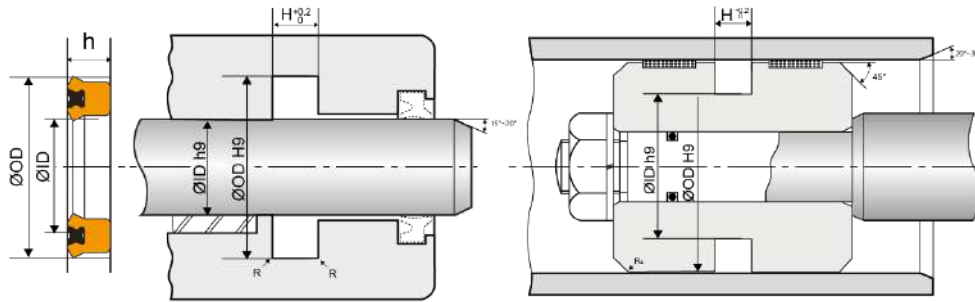
RX2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°C~120°C
PRESSURE	400kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H
RX2-030	30	40	6	7
RX2-035	35	45	6	7
RX2-040	40	50	6	7
RX2-045	45	55	6	7
RX2-050	50	60	6	7
RX2-053	53	63	6	7
RX2-055	55	65	6	7
RX2-060	60	70	6	7
RX2-065	65	75	6	7
RX2-070	70	80	6	7
RX2-075	75	85	6	7
RX2-080	80	90	6	7
RX2-100	100	110	6	7
RX2-045	45	60	9	10
RX2-050	50	65	9	10
RX2-055	55	70	9	10
RX2-060	60	75	9	10
RX2-065	65	80	9	10
RX2-070	70	85	9	10
RX2-075	75	90	9	10
RX2-080	80	95	9	10
RX2-085	85	100	9	10
RX2-090	90	105	9	10
RX2-095	95	110	9	10
RX2-100	100	115	9	10
RX2-105	105	120	9	10
RX2-110	110	125	9	10
RX2-115	115	125	9	10
RX2-115	115	130	9	10
RX2-040	40	55	10	11
RX2-045	45	60	10	11
RX2-050	50	63	10	11
RX2-055	55	68	10	11
RX2-060	60	73	10	11
RX2-065	65	78	10	11
RX2-070	70	83	10	11
RX2-075	75	88	10	11
RX2-080	80	93	10	11
RX2-080	80	95	10	11

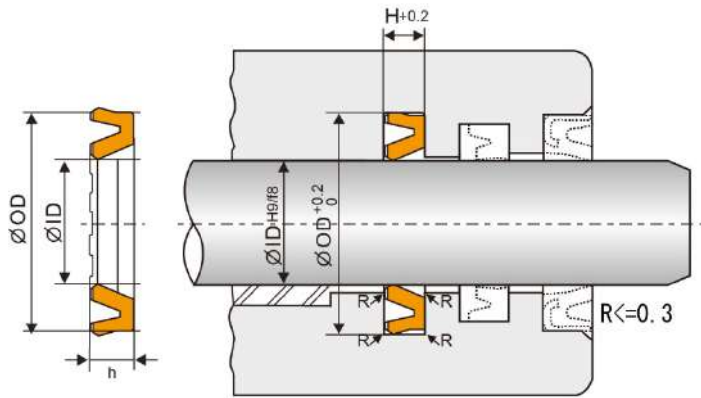
RX2 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°C~120°C
PRESSURE	400kgf/cm2
SPEED	1m/s

ITEM	ID	OD	h	H
RX2-085	85	100	10	11
RX2-090	90	105	10	11
RX2-095	95	110	10	11
RX2-100	100	115	10	11
RX2-105	105	120	10	11
RX2-110	110	125	10	11
RX2-110	110	130	10	11
RX2-060	60	80	12	13
RX2-070	70	90	12	13
RX2-080	80	100	12	13
RX2-085	85	105	12	13
RX2-090	90	110	12	13
RX2-095	95	115	12	13
RX2-100	100	120	12	13
RX2-105	105	125	12	13
RX2-110	110	130	12	13
RX2-115	115	135	12	13

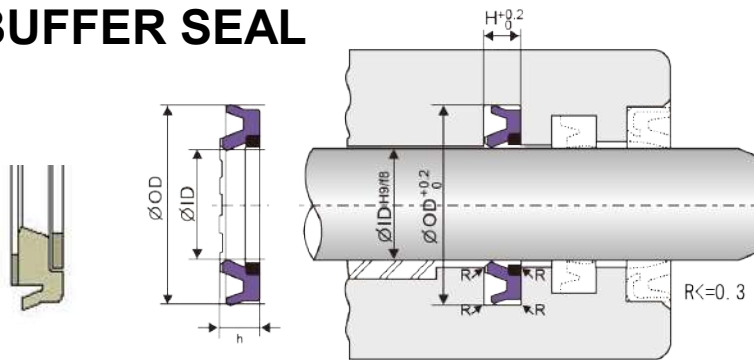
KBY BUFFER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~120°C
PRESSURE	400kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H
KBY-045	45	60.5	6	6.4
KBY-050	50	65.5	6	6.4
KBY-055	55	70.5	6	6.4
KBY-060	60	75.5	6	6.4
KBY-065	65	80.5	6	6.4
KBY-070	70	85.5	6	6.4
KBY-075	75	90.5	6	6.4
KBY-080	80	95.5	6	6.4
KBY-085	85	100.5	6	6.4
KBY-090	90	105.5	6	6.4
KBY-095	95	110.5	6	6.4
KBY-100	100	115.5	6	6.4
KBY-105	105	120.5	6	6.4
KBY-110	110	125.5	6	6.4
KBY-115	115	130.5	6	6.4
KBY-120	120	135.5	6	6.4
KBY-130	130	145.5	6	6.4
KBY-136	136	151.1	6	6.4

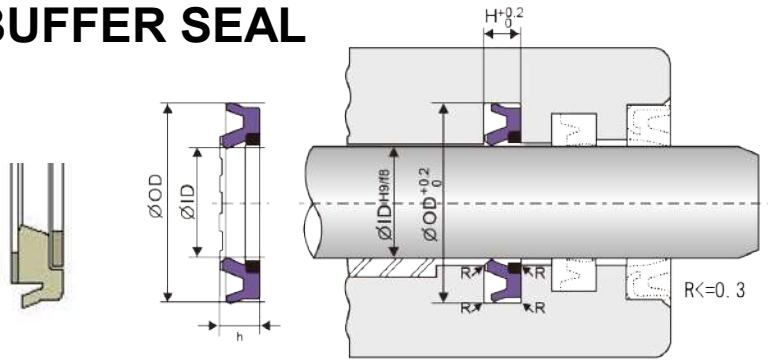
FB2 BUFFER SEAL



APPLICATION	
MATERIAL	PU+NY
TEMP.	-55°C~120°C
PRESSURE	500kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H
FB2-045	45	51	3.2	
FB2-030	30	40.7	3.9	4.2
FB2-035	35	45.7	3.9	4.2
FB2-040	40	50.7	3.9	4.2
FB2-045	45	55.7	3.9	4.2
FB2-050	50	60.7	3.9	4.2
FB2-055	55	65.7	3.9	4.2
FB2-060	60	70.7	3.9	4.2
FB2-105	105	115	5.2	
FB2-115	115	125	5.2	
FB2-145	145	160.5	5.8	6.3
FB2-155	155	170.5	5.8	6.3
FB2-040	40	55.5	6	6.3
FB2-045	45	60.5	6	6.3
FB2-050	50	65.5	6	6.3
FB2-055	55	70.5	6	6.3
FB2-056	56	71.5	6	6.3
FB2-060	60	75.5	6	6.3
FB2-063	63	78.5	6	6.3
FB2-065	65	80.5	6	6.3
FB2-070	70	85.5	6	6.3
FB2-075	75	90.5	6	6.3
FB2-080	80	95.5	6	6.3
FB2-085	85	100.5	6	6.3
FB2-090	90	105.5	6	6.3
FB2-095	95	110.5	6	6.3
FB2-100	100	115.5	6	6.3
FB2-105	105	120.5	6	6.3
FB2-110	110	125.5	6	6.3
FB2-115	115	130.5	6	6.3
FB2-120	120	135.5	6	6.3
FB2-125	125	140.5	6	6.3
FB2-130	130	145.5	6	6.3
FB2-135	135	150.5	6	6.3
FB2-140	140	155.5	5.8	6.3
FB2-145	145	160.5	5.8	6.3
FB2-145	145	160.5	6	6.3
FB2-150	150	165.5	6	6.3
FB2-155	155	170.5	5.8	6.3
FB2-160	160	175.5	6	6.3

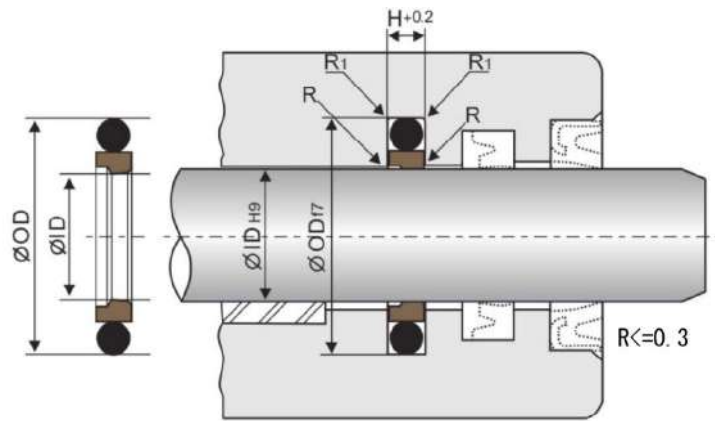
FB2 BUFFER SEAL



APPLICATION	
MATERIAL	PU+NY
TEMP.	-55°C~120°C
PRESSURE	500kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H
FB2-170	170	185.5	6	6.3
* FB2-175	175	190.5	6	6.3
FB2-180	180	195.5	6	6.3
FB2-190	190	205.5	6	6.3
FB2-200	200	221	7.7	8
FB2-140	140	160	8	
FB2-160	160	180	8	

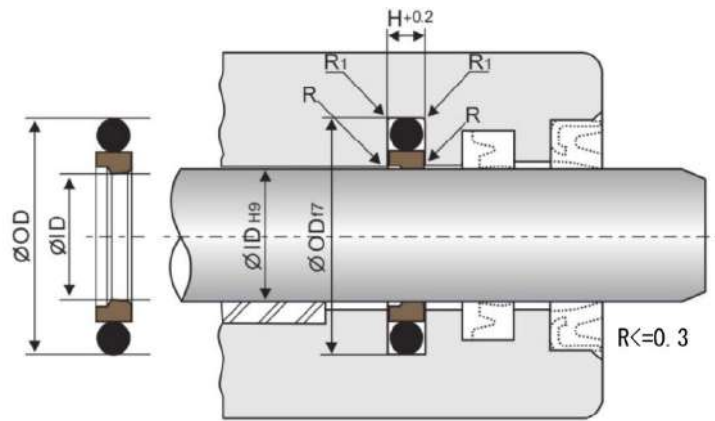
L-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	ID	OD	H
* L-TYPE 004	4	8.9	2.2
L-TYPE 006	6	10.9	2.2
L-TYPE 012	12	16.9	2.2
L-TYPE 016	16	20.9	2.2
L-TYPE 010	10	17.3	3.2
L-TYPE 012	12	19.3	3.2
* L-TYPE 014	14	22	3.2
L-TYPE 016	16	23.3	3.2
* L-TYPE 016	16	24	3.2
L-TYPE 018	18	25.3	3.2
* L-TYPE 018	18	26	3.2
L-TYPE 020	20	27.3	3.2
L-TYPE 020	20	28	3.2
L-TYPE 022	22	29.3	3.2
L-TYPE 025	25	32.3	3.2
L-TYPE 030	30	37.3	3.2
L-TYPE 032	32	39.3	3.2
L-TYPE 035	35	42.3	3.2
L-TYPE 036	36	43.3	3.2
L-TYPE 020	20	30.7	4.2
L-TYPE 022	22	32.7	4.2
L-TYPE 022	22	33	4.2
L-TYPE 025	25	35.7	4.2
L-TYPE 028	28	38.7	4.2
L-TYPE 028	28	39	4.2
L-TYPE 030	30	40	4.2
L-TYPE 030	30	40.7	4.2
L-TYPE 032	32	42.7	4.2
L-TYPE 035	35	45	4.2
L-TYPE 035	35	45.7	4.2
L-TYPE 036	36	46.7	4.2
L-TYPE 036	36	47	4.2
L-TYPE 038	38	48.7	4.2
L-TYPE 040	40	50.7	4.2
L-TYPE 045	45	55.7	4.2
L-TYPE 048	48	58.7	4.2

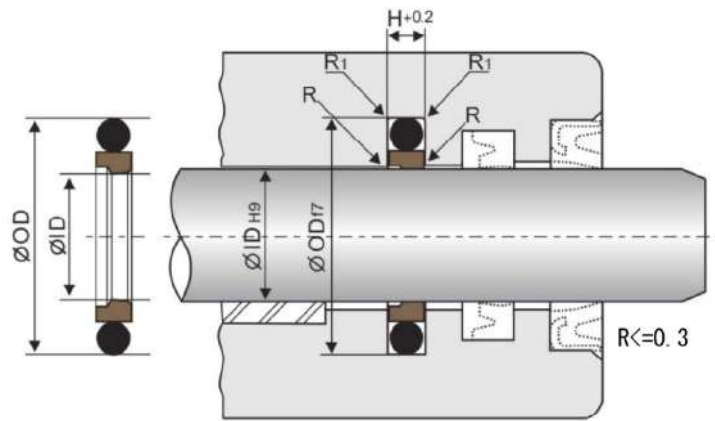
L-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	ID	OD	H
* L-TYPE 050	50	60	4.2
L-TYPE 050	50	60.7	4.2
* L-TYPE 053	53	63	4.2
L-TYPE 053	55	65	4.2
L-TYPE 055	55	65.7	4.2
L-TYPE 056	56	66.7	4.2
L-TYPE 060	60	70.7	4.2
L-TYPE 065	65	75	4.2
* L-TYPE 070	70	80	4.2
L-TYPE 070	70	80.7	4.2
L-TYPE 075	75	85	4.2
* L-TYPE 080	80	90	4.2
L-TYPE 080	80	90.7	4.2
L-TYPE 040	40	55.1	6.3
L-TYPE 042	42	57.1	6.3
L-TYPE 045	45	60.1	6.3
L-TYPE 050	50	65.1	6.3
L-TYPE 052	52	67.1	6.3
L-TYPE-053	53	68.1	6.3
L-TYPE 055	55	70.1	6.3
L-TYPE 056	56	71.1	6.3
L-TYPE 058	58	73.1	6.3
L-TYPE 060	60	75.1	6.3
L-TYPE 063	63	78.1	6.3
L-TYPE 065	65	80.1	6.3
L-TYPE 065	66	81.1	6.3
L-TYPE 067	67	82.1	6.3
L-TYPE 068	68	83.1	6.3
L-TYPE 070	70	85.1	6.3
L-TYPE 072	72	87.1	6.3
L-TYPE 075	75	90.1	6.3
L-TYPE 080	80	95.1	6.3
L-TYPE 085	85	100.1	6.3
L-TYPE 089	89	104.1	6.3
L-TYPE 090	90	105.1	6.3
L-TYPE-091	91	107.1	6.3

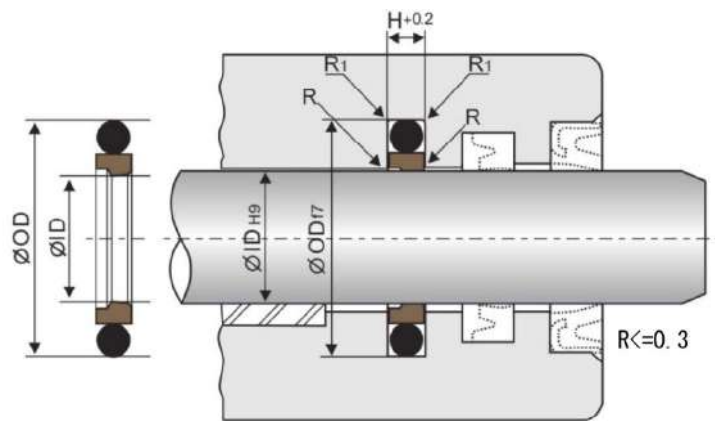
L-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	ID	OD	H
L-TYPE 092	92	107.1	6.3
L-TYPE 095	95	110.1	6.3
L-TYPE 098	98	113.1	6.3
L-TYPE 100	100	115.1	6.3
L-TYPE 105	105	120.1	6.3
L-TYPE 108	108	123.1	6.3
L-TYPE 110	110	125.1	6.3
L-TYPE 115	115	130.1	6.3
L-TYPE 118	118	133.1	6.3
* L-TYPE 118	118	133.5	6.3
L-TYPE 120	120	135.1	6.3
L-TYPE 125	125	140.1	6.3
L-TYPE 130	130	145.1	6.3
L-TYPE 132	132	147.1	6.3
L-TYPE 133	133	148.1	6.3
L-TYPE 134	134	148.5	6.3
L-TYPE 135	135	150.1	6.3
L-TYPE 136	136	151.1	6.3
L-TYPE 138	138	153.1	6.3
L-TYPE 140	140	155.1	6.3
L-TYPE 145	145	160.1	6.3
L-TYPE 147	147	162.1	6.3
L-TYPE 150	150	165.1	6.3
L-TYPE 155	155	170.1	6.3
L-TYPE 157	157	172.1	6.3
L-TYPE 160	160	175.1	6.3
L-TYPE 165	165	180.1	6.3
L-TYPE 170	170	185.1	6.3
L-TYPE 175	175	190.1	6.3
L-TYPE 177	177	192.1	6.3
L-TYPE 180	180	195.1	6.3
L-TYPE 185	185	200.1	6.3
L-TYPE 190	190	205.1	6.3
L-TYPE 195	195	210.1	6.3
L-TYPE 080	80	100.5	8.1
L-TYPE 085	85	105.5	8.1

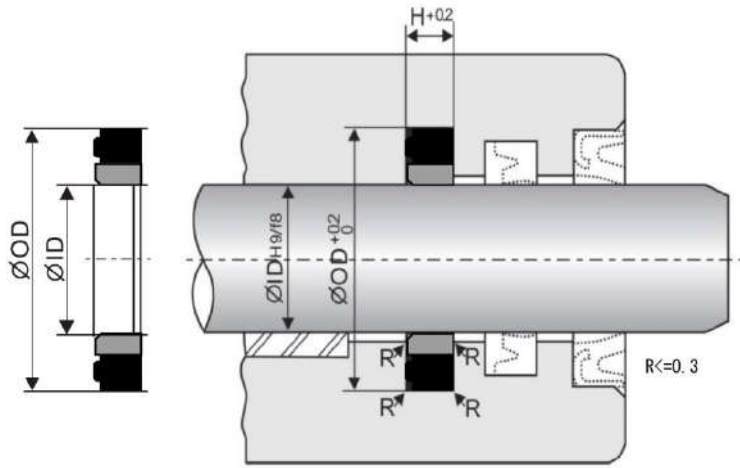
L-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	ID	OD	H
L-TYPE 095	95	115.5	8.1
L-TYPE 105	105	125.5	8.1
L-TYPE 110	110	130.5	8.1
L-TYPE 130	130	150.5	8.1
L-TYPE 180	180	200.5	8.1
L-TYPE 185	185	205.5	8.1
L-TYPE 200	200	220.5	8.1
L-TYPE 205	205	225.5	8.1
L-TYPE 210	210	230.5	8.1
L-TYPE 215	215	235.5	8.1
L-TYPE 220	220	240.5	8.1
L-TYPE 230	230	250.5	8.1
L-TYPE 250	250	270.5	8.1
L-TYPE 270A	270	290.5	8.1
L-TYPE 270	270	294	8.1
L-TYPE 280	280	304	8.1
L-TYPE 300	300	324	8.1
L-TYPE 310	310	334	8.1
L-TYPE 335	335	359	8.1
L-TYPE 360	360	384	8.1
L-TYPE 400	400	424	8.1
L-TYPE 710	710	737.3	9.5

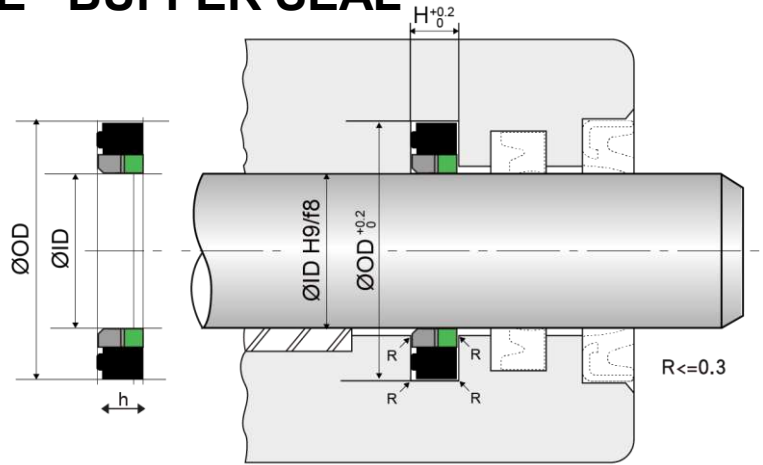
K-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	ID	OD	H
K-TYPE 055	55	70.5	6.3
K-TYPE 060	60	75.5	6.3
K-TYPE 065	65	80.5	6.3
K-TYPE 070	70	85.5	6.3
K-TYPE 075	75	90.5	6.3
K-TYPE 080	80	95.5	6.3
K-TYPE 085	85	100.5	6.3
K-TYPE 090	90	105.5	6.3
K-TYPE 095	95	110.5	6.3
K-TYPE 100	100	115.5	6.3
K-TYPE 105	105	120.5	6.3
K-TYPE 110	110	125.5	6.3
K-TYPE 115	115	130.5	6.3
K-TYPE 120	120	135.5	6.3
K-TYPE 130	130	145.5	6.3
K-TYPE 150	150	165	6.3

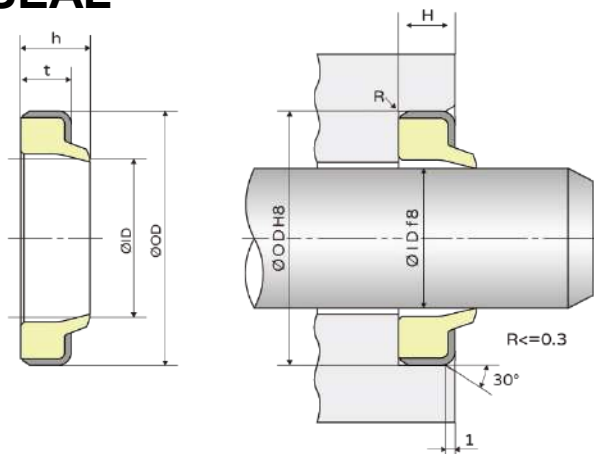
KN-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	PTFE+NY+NBR
TEMP.	-40°C~110°C
PRESSURE	350kgf/cm ²
SPEED	1.5m/s

ITEM	ID	OD	H
KN-TYPE 055	55	70.5	6.3
KN-TYPE 060	60	75.5	6.3
KN-TYPE 065	65	80.5	6.3
KN-TYPE 070	70	85.5	6.3
KN-TYPE 075	75	90.5	6.3
KN-TYPE 080	80	95.5	6.3
KN-TYPE 085	85	100.5	6.3
KN-TYPE 090	90	105.5	6.3
KN-TYPE 095	95	110.5	6.3
KN-TYPE 100	100	115.5	6.3
KN-TYPE 105	105	120.5	6.3
KN-TYPE 110	110	125.5	6.3
KN-TYPE 120	120	135.5	6.3

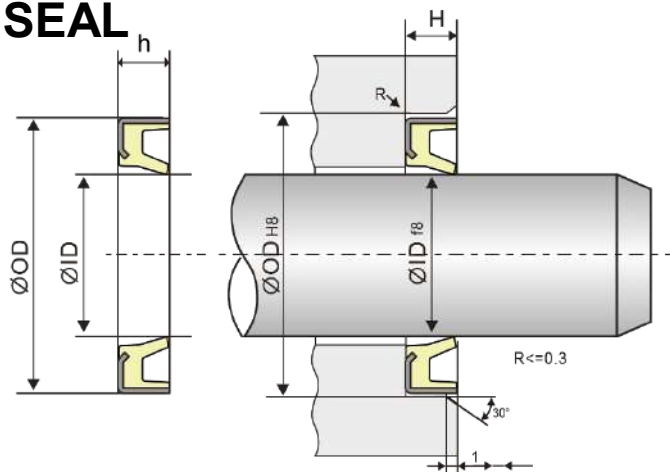
DI2 WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-35°C~100°C
SPEED	1m/s

ITEM	ID	OD	t/h	ITEM	ID	OD	t/h
* DI2-010	10	20	5/7	* DI2-065	65	79	8/11
* DI2-012.5	12.5	23	5/7	* DI2-067	67	81	8/11
* DI2-014	14	24	5/7	DI2-070	70	84	8/11
* DI2-015	15	25	5/7	* DI2-070	70	84	8/13
* DI2-016	16	26	5/7	* DI2-071	71	85	8/11
* DI2-018	18	28	5/7	DI2-075	75	88	7/9.5
* DI2-018	18	30	6/9	* DI2-075	75	89	8/11
* DI2-020	20	32	6/9	* DI2-075	75	89	8/13
* DI2-022.4	22.4	34.4	6/9	DI2-080	80	93	7/9.5
* DI2-025	25	35	5/7	DI2-080	80	94	8/11
* DI2-025	25	37	6/9	* DI2-080	80	94	8/13
* DI2-028	28	40	6/9	* DI2-085	85	99	8/11
* DI2-030	30	40	5/7	* DI2-085	85	99	8/13
* DI2-030	30	42	6/9	DI2-090	90	104	8/11
* DI2-031.5	31.5	44	7/10	* DI2-090	90	104	8/13
* DI2-032	32	44	7/10	* DI2-095	95	109	8/11
* DI2-035	35	47	7/10	* DI2-095	95	109	8/13
* DI2-035.5	35.5	47.5	7/10	* DI2-100	100	114	8/11
* DI2-038	38	50	7/10	* DI2-100	100	114	8/13
DI2-040	40	52	7/10	* DI2-105	105	121	9/12
DI2-042	42	52	6/8	* DI2-105	105	121	9/15
DI2-045	45	57	7/10	* DI2-110	110	126	9/12
DI2-050	50	60	7/10	* DI2-115	115	131	9/12
DI2-050	50	62	7/10	* DI2-115	115	131	9/15
* DI2-053	53	67	8/11	* DI2-120	120	136	9/12
* DI2-055	55	69	8/11	* DI2-125	125	141	9/12
* DI2-056	56	70	8/11	* DI2-140	140	160	10/14
DI2-060	60	74	8/11	* DI2-150	150	170	10/14
* DI2-060	60	74	8/13	* DI2-170	170	190	10/14
* DI2-063	63	77	8/11	* DI2-180	180	205	12/17
* DI2-064	64	78	8/11				

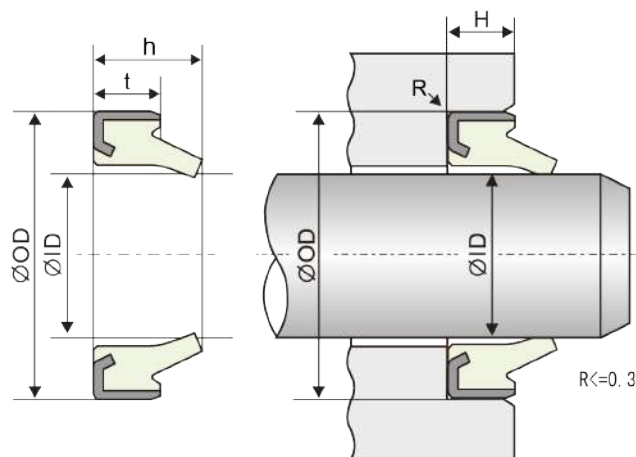
DW2 WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	h	H
DW2-036	36	48	6	6 ^{+0.5} _{+0.3}
DW2-040	40	52	7	7 ^{+0.5} _{+0.3}
DW2-045	45	57	7	7 ^{+0.5} _{+0.3}
DW2-050	50	62	7	7 ^{+0.5} _{+0.3}
DW2-080	80	95	7	7 ^{+0.5} _{+0.3}
DW2-039.75	39.75	50	8	8 ^{+0.5} _{+0.3}
DW2-042	42	52	8	8 ^{+0.5} _{+0.3}
DW2-055	55	69	8	8 ^{+0.6} _{+0.4}
DW2-060	60	74	8	8 ^{+0.6} _{+0.4}
DW2-065	65	79	8	8 ^{+0.6} _{+0.4}
DW2-070	70	84	8	8 ^{+0.6} _{+0.4}
DW2-075	75	89	8	8 ^{+0.6} _{+0.4}
DW2-080	80	94	8	8 ^{+0.6} _{+0.4}
DW2-085	85	99	8	8 ^{+0.6} _{+0.4}
DW2-090	90	104	8	8 ^{+0.6} _{+0.4}
DW2-100	100	114	8	8 ^{+0.6} _{+0.4}
DW2-105	105	121	9	9 ^{+0.6} _{+0.4}
DW2-110	110	126	9	9 ^{+0.6} _{+0.4}
DW2-120	120	136	9	9 ^{+0.6} _{+0.4}
DW2-130	130	146	9	9 ^{+0.6} _{+0.4}
DW2-110	110	130	10	10 ^{+0.6} _{+0.4}
DW2-140	140	160	10	10 ^{+0.6} _{+0.4}
DW2-150	150	170	10	10 ^{+0.6} _{+0.4}
DW2-200	200	225	12	

DW4 WIPER SEAL

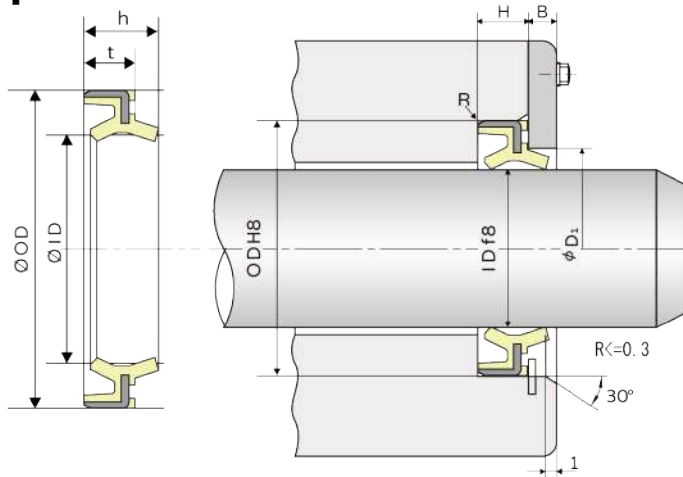


APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	t	h	H
DW4-050	50	64	8	13	8 ^{+0.6} _{+0.4}
DW4-055	55	69	8	13	8 ^{+0.6} _{+0.4}
DW4-060	60	74	8	13	8 ^{+0.6} _{+0.4}
DW4-065	65	79	8	13	8 ^{+0.6} _{+0.4}
DW4-070	70	84	8	13	8 ^{+0.6} _{+0.4}
DW4-075	75	89	8	13	8 ^{+0.6} _{+0.4}
DW4-080	80	94	8	13	8 ^{+0.6} _{+0.4}
DW4-085	85	99	8	13	8 ^{+0.6} _{+0.4}
DW4-090	90	104	8	13	8 ^{+0.6} _{+0.4}
DW4-095	95	109	8	13	8 ^{+0.6} _{+0.4}
DW4-100	100	114	8	13	8 ^{+0.6} _{+0.4}
DW4-105	105	121	9	15	9 ^{+0.6} _{+0.4}
DW4-110	110	126	9	15	9 ^{+0.6} _{+0.4}
DW4-115	115	131	9	15	9 ^{+0.6} _{+0.4}
DW4-120	120	136	9	15	9 ^{+0.6} _{+0.4}
DW4-130	130	146	9	15	9 ^{+0.6} _{+0.4}

DKBI-DK4 N type WIPER SEAL

(wheel type)

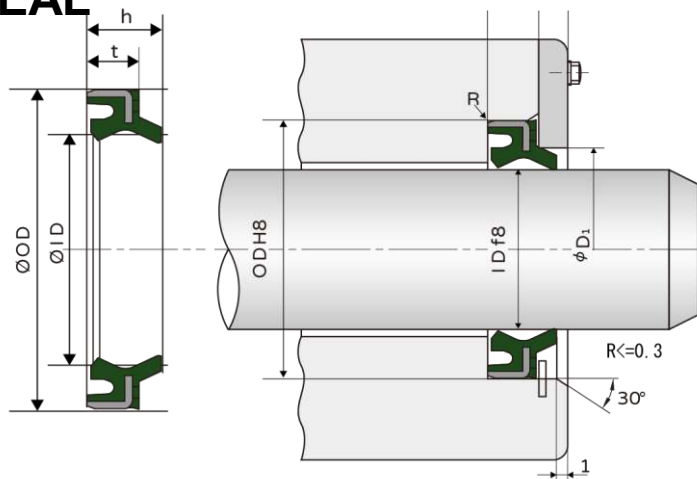


APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°C
SPEED	1m/s

ITEM	ID	OD	t	h	D1	H	B
DK4-025	25	37	6	9	32	6 ^{+0.5} _{+0.3}	4
DK4-030	30	42	6	9	37	6 ^{+0.5} _{+0.3}	4
DK4-035	35	47	7	10	42	7 ^{+0.5} _{+0.3}	4
DK4-040	40	52	7	10	47	7 ^{+0.5} _{+0.3}	4
DK4-045	45	57	7	10	52	7 ^{+0.5} _{+0.3}	4
DK4-050	50	62	7	10	57	7 ^{+0.5} _{+0.3}	4
DK4-055	55	69	8	11	62	8 ^{+0.6} _{+0.4}	4
DK4-060	60	74	8	11	67	8 ^{+0.6} _{+0.4}	4
DK4-065	65	79	8	11	72	8 ^{+0.6} _{+0.4}	4
DK4-070	70	84	8	11	77	8 ^{+0.6} _{+0.4}	4
DK4-075	75	89	8	11	82	8 ^{+0.6} _{+0.4}	4
DK4-080	80	94	8	12	87	8 ^{+0.6} _{+0.4}	4
DK4-085	85	99	8	11	92	8 ^{+0.6} _{+0.4}	4
DK4-090	90	104	8	11	97	8 ^{+0.6} _{+0.4}	4
DK4-095	95	109	8	11	102	8 ^{+0.6} _{+0.4}	4
DK4-100	100	114	8	11	107	8 ^{+0.6} _{+0.4}	4
DK4-105	105	121	9	12	113	9 ^{+0.6} _{+0.4}	5
DK4-110	110	126	9	12	118	9 ^{+0.6} _{+0.4}	5
DK4-115	115	131	9	12	123	9 ^{+0.6} _{+0.4}	5
DK4-120	120	136	9	12	128	9 ^{+0.6} _{+0.4}	5
* DK4-125	125	141	9	12	133	9 ^{+0.6} _{+0.4}	5
DK4-130	130	146	9	13	138	9 ^{+0.6} _{+0.4}	5

Standard items are without a drilled hole inside. Additonal charge for drilled hole items.

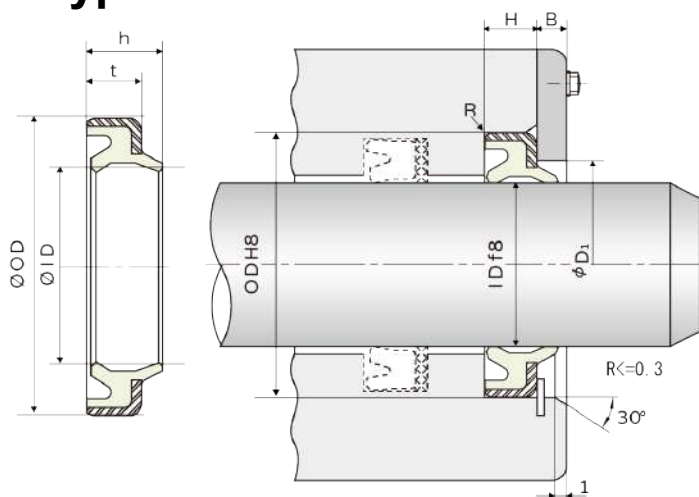
DKBZ WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°C
SPEED	1m/s

ITEM	ID	OD	t	h	H	B
* DKBZ-020	20	32	6	9	6 ^{+0.5} _{+0.3}	4
* DKBZ-025	25	37	6	9	6 ^{+0.5} _{+0.3}	4
* DKBZ-030	30	42	6	9	7 ^{+0.5} _{+0.3}	4
* DKBZ-035	35	47	7	10	7 ^{+0.5} _{+0.3}	4
* DKBZ-040	40	52	7	10	7 ^{+0.5} _{+0.3}	4
* DKBZ-045	45	57	7	10	7 ^{+0.5} _{+0.3}	4
* DKBZ-050	50	62	7	10	7 ^{+0.5} _{+0.3}	4
DKBZ-055	55	69	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-060	60	74	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-065	65	79	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-070	70	84	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-075	75	89	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-080	80	94	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-085	85	99	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-090	90	104	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-095	95	109	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-100	100	114	8	11.5	8 ^{+0.6} _{+0.4}	4
DKBZ-105	105	121	9	13	9 ^{+0.6} _{+0.4}	5
DKBZ-110	110	126	9	13	9 ^{+0.6} _{+0.4}	5
DKBZ-115	115	131	9	13	9 ^{+0.6} _{+0.4}	5
DKBZ-120	120	136	9	13	9 ^{+0.6} _{+0.4}	5
DKBZ-130	130	146	9	13	9 ^{+0.6} _{+0.4}	5
* DKBZ-140	140	160	10	15	10 ^{+0.6} _{+0.4}	5
* DKBZ-160	160	180	10	15	10 ^{+0.6} _{+0.4}	5
* DKBZ-170	170	190	10	15	10 ^{+0.6} _{+0.4}	5

DKBI-DK6 K type WIPER SEAL

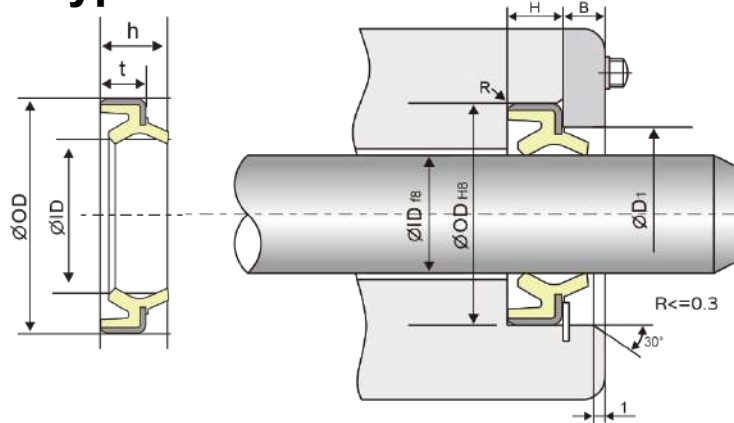


APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°C
SPEED	1m/s

ITEM	ID	OD	t	h	D1	H
DK6-085	85	99	8	11	92	
DK6-035	35	47	7	12	42	7 ^{+0.5} _{+0.3}
DK6-040	40	52	7	12	47	7 ^{+0.5} _{+0.3}
DK6-045	45	57	7	12	52	7 ^{+0.5} _{+0.3}
DK6-050	50	62	7	12	57	7 ^{+0.5} _{+0.3}
DK6-036	36	50	8	13	43	
DK6-055	55	69	8	13	62	8.5 ^{+0.6} _{+0.4}
DK6-060	60	74	8	13	67	8.5 ^{+0.6} _{+0.4}
DK6-065	65	79	8	13	72	8.5 ^{+0.6} _{+0.4}
DK6-070	70	84	8	13	77	8.5 ^{+0.6} _{+0.4}
DK6-075	75	89	8	13	82	8.5 ^{+0.6} _{+0.4}
DK6-080	80	94	8	13	87	8.5 ^{+0.6} _{+0.4}
DK6-085	85	99	8	13	92	8.5 ^{+0.6} _{+0.4}
DK6-090	90	104	8	13	97	8.5 ^{+0.6} _{+0.4}
DK6-095	95	109	8	13	102	8.5 ^{+0.6} _{+0.4}
DK6-100	100	114	8	13	107	8.5 ^{+0.6} _{+0.4}
DK6-105	105	121	9	15	113	9.5 ^{+0.6} _{+0.4}
DK6-110	110	126	9	15	118	9.5 ^{+0.6} _{+0.4}
DK6-115	115	131	9	15	123	9.5 ^{+0.6} _{+0.4}
DK6-120	120	136	9	15	128	9.5 ^{+0.6} _{+0.4}
DK6-125	125	141	9	15	133	9.5 ^{+0.6} _{+0.4}
DK6-130	130	146	9	15	138	9.5 ^{+0.6} _{+0.4}
DK6-140	140	160	10	17	150	10.5 ^{+0.6} _{+0.4}
DK6-145	145	165	10	17	152	10.5 ^{+0.6} _{+0.4}
DK6-150	150	170	10	17	157	10.5 ^{+0.6} _{+0.4}
DK6-160	160	180	10	17	167	10.5 ^{+0.6} _{+0.4}
DK6-180	180	205	12	20	187	12.65 ^{+0.6} _{+0.4}
DK6-200	200	225	12	20	207	12.65 ^{+0.6} _{+0.4}

Standard items are without a drilled hole inside. Additional charge for drilled hole items.

DKBI-DK8 N type WIPER SEAL



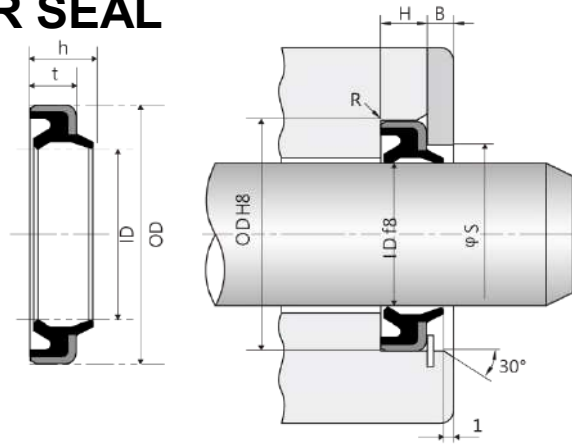
APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°C
SPEED	1m/s

(non wheel type)

ITEM	ID	OD	t	h	D1	H	B
DK8-019	19	31	6	9	26	6 ^{+0.5} _{+0.3}	4
DK8-020	20	32	6	9	27	6 ^{+0.5} _{+0.3}	4
DK8-022	22	34	6	9	29	6 ^{+0.5} _{+0.3}	4
DK8-025	25	37	6	9	32	6 ^{+0.5} _{+0.3}	4
DK8-028	28	40	6	9	35	6 ^{+0.5} _{+0.3}	4
DK8-030	30	42	6	9	37	6 ^{+0.5} _{+0.3}	4
DK8-032	32	44	7	10	39	7 ^{+0.5} _{+0.3}	4
DK8-035	35	47	7	10	42	7 ^{+0.5} _{+0.3}	4
DK8-040	40	52	7	10	47	7 ^{+0.5} _{+0.3}	4
DK8-045	45	57	7	10	52	7 ^{+0.5} _{+0.3}	4
DK8-050	50	62	7	10	57	7 ^{+0.5} _{+0.3}	4
DK8-055	55	69	8	11	62	8 ^{+0.6} _{+0.4}	4
DK8-060	60	74	8	11	67	8 ^{+0.6} _{+0.4}	4
DK8-063	63	78	7	10	70	7 ^{+0.5} _{+0.3}	4
DK8-065	65	79	8	11	72	8 ^{+0.6} _{+0.4}	4
DK8-070	70	84	8	11	77	8 ^{+0.6} _{+0.4}	4
DK8-075	75	89	8	11	82	8 ^{+0.6} _{+0.4}	4
DK8-080	80	94	8	11	87	8 ^{+0.6} _{+0.4}	4
DK8-085	85	99	8	11	92	8 ^{+0.6} _{+0.4}	4
DK8-090	90	104	8	11	97	8 ^{+0.6} _{+0.4}	4
DK8-095	95	109	8	11	102	8 ^{+0.6} _{+0.4}	4
DK8-100	100	114	8	11	107	8 ^{+0.6} _{+0.4}	4
DK8-105	105	121	9	12	113	9 ^{+0.6} _{+0.4}	5
DK8-110	110	126	9	12	118	9 ^{+0.6} _{+0.4}	5
DK8-115	115	131	9	12	123	9 ^{+0.6} _{+0.4}	5
DK8-120	120	136	9	12	128	9 ^{+0.6} _{+0.4}	5
DK8-125	125	141	9	12	133	9 ^{+0.6} _{+0.4}	5
DK8-130	130	146	9	12	138	9 ^{+0.6} _{+0.4}	5
DK8-135	135	155	10	14	145	10 ^{+0.6} _{+0.4}	5
DK8-140	140	160	10	14	150	10 ^{+0.6} _{+0.4}	5
DK8-150	150	170	10	14	160	10 ^{+0.6} _{+0.4}	5
DK8-160	160	180	10	14	170	10 ^{+0.6} _{+0.4}	5
DK8-170	170	190	10	14	180	10 ^{+0.6} _{+0.4}	5

Standard items are without a drilled hole inside. Additonal charge for drilled hole items.

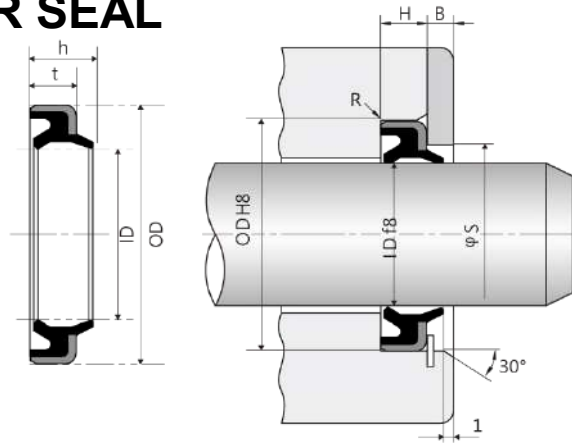
DKN WIPER SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~100°C

ITEM	ID	OD	t	h	D1	H	B
DKN-010	10	20	5	8	16	5 ^{+0.5} _{+0.3}	3
DKN-014	14	22	4	5	19	4 ^{+0.5} _{+0.3}	4
DKN-014	14	24	5	7	19	5 ^{+0.5} _{+0.3}	4
DKN-016	16	26	5	7	21	5 ^{+0.5} _{+0.3}	4
DKN-018	18	30	6	9	25	6 ^{+0.5} _{+0.3}	4
DKN-019	19	31	6	9	26	6 ^{+0.5} _{+0.3}	4
DKN-020	20	32	6	9	27	6 ^{+0.5} _{+0.3}	4
DKN-022	22	32	6	9	29	6 ^{+0.5} _{+0.3}	4
DKN-022	22	34	6	9	29	6 ^{+0.5} _{+0.3}	4
DKN-025	25	37	6	9	32	6 ^{+0.5} _{+0.3}	4
DKN-025	25	42	6	9		6 ^{+0.5} _{+0.3}	4
DKN-028	28	40	6	9	35	6 ^{+0.5} _{+0.3}	4
DKN-030	30	42	6	9	37	6 ^{+0.5} _{+0.3}	4
DKN-030	30	45	6	9	37	6 ^{+0.5} _{+0.3}	4
DKN-030	30	47	7	10	37	7 ^{+0.5} _{+0.3}	4
DKN-032	32	44	7	10	39	7 ^{+0.5} _{+0.3}	4
DKN-032	32	52	8	11	39	8 ^{+0.5} _{+0.3}	4
DKN-035	35	47	7	10	42	7 ^{+0.5} _{+0.3}	4
DKN-035	35	55	9.3	12			
DKN-040	40	52	7	10	47	7 ^{+0.5} _{+0.3}	4
DKN-040	40	62	7	10	47	7 ^{+0.5} _{+0.3}	4
DKN-045	45	57	7	10	52	7 ^{+0.5} _{+0.3}	4
DKN-045	45	68	7	10	52	7 ^{+0.5} _{+0.3}	4
DKN-050	50	62	7	10	57	7 ^{+0.5} _{+0.3}	4
DKN-050	50	72	8	11	57	8 ^{+0.5} _{+0.3}	4
DKN-055	55	69	8	11	62	8 ^{+0.6} _{+0.4}	4
DKN-056	56	70	8	11	63	8 ^{+0.6} _{+0.4}	4
DKN-060	60	74	8	11	67	8 ^{+0.6} _{+0.4}	4
DKN-060	60	82	11	14	67	11 ^{+0.6} _{+0.4}	4
DKN-065	65	79	8	11	72	8 ^{+0.6} _{+0.4}	4
DKN-070	70	84	8	11	77	8 ^{+0.6} _{+0.4}	4
DKN-075	75	89	8	11	82	8 ^{+0.6} _{+0.4}	4
DKN-080	80	94	8	11	87	8 ^{+0.6} _{+0.4}	4
DKN-085	85	99	8	11	92	8 ^{+0.6} _{+0.4}	4

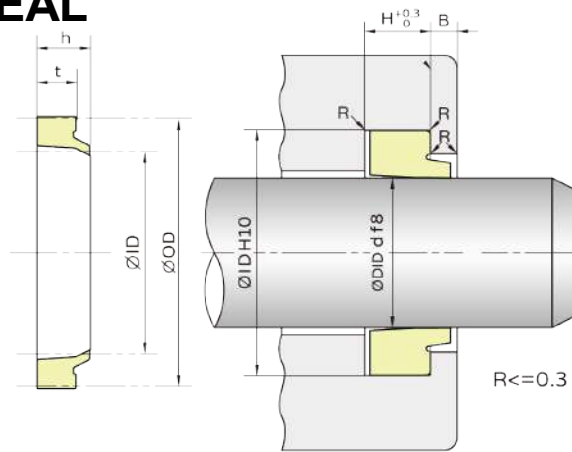
DKN WIPER SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~100°C

ITEM	ID	OD	t	h	D1	H	B
DKN-090	90	104	8	11	97	8 ^{+0.6} _{+0.4}	4
DKN-095	95	109	8	11	102	8 ^{+0.6} _{+0.4}	4
DKN-100	100	114	8	11	107	8 ^{+0.6} _{+0.4}	4
DKN-105	105	121	9	12	113	9 ^{+0.6} _{+0.4}	5
DKN-110	110	126	9	12	118	9 ^{+0.6} _{+0.4}	5
DKN-112	112	128	9	12	120	9 ^{+0.6} _{+0.4}	5
DKN-115	115	131	9	12	123	9 ^{+0.6} _{+0.4}	5
DKN-120	120	136	9	12	128	9 ^{+0.6} _{+0.4}	5
DKN-125	125	141	9	12	133	9 ^{+0.6} _{+0.4}	5
DKN-130	130	146	9	12	138	9 ^{+0.6} _{+0.4}	5
DKN-140	140	160	10	14	150	10 ^{+0.6} _{+0.4}	5
DKN-150	150	170	10	14	160	10 ^{+0.6} _{+0.4}	5
DKN-155	155	175	10	14	165	10 ^{+0.6} _{+0.4}	5
DKN-160	160	180	10	14	170	10 ^{+0.6} _{+0.4}	5
DKN-170	170	190	10	14	180	10 ^{+0.6} _{+0.4}	5
DKN-180	180	205	12	17	191	12 ^{+0.7} _{+0.5}	6
DKN-200	200	225	12	17	212	12 ^{+0.7} _{+0.5}	6
DKN-210	210	235	12	17			
DKN-225	225	250	12	17	237	12 ^{+0.7} _{+0.5}	6
DKN-250	250	275	12	17	262	12 ^{+0.7} _{+0.5}	6
DKN-260	260	285	12	17			

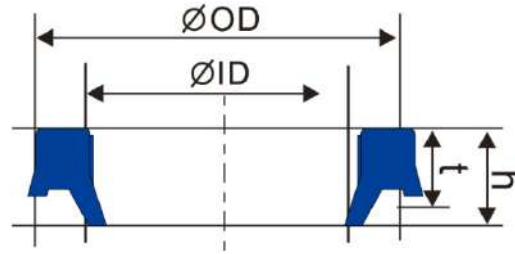
DS2 WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~100°C
SPEED	1m/s

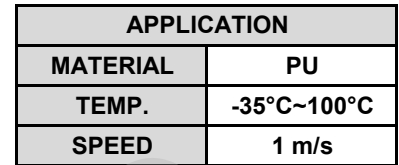
ITEM	ID	OD	t	h	H
DS2-024	24	32	2.3	6	5
DS2-016	16	24	4.5	6	5
DS2-020	20	28	4.5	6	5
DS2-025	25	33	4.5	6	5
DS2-028	28	36	4.5	6	5
DS2-024	24	32	2.3	6.5	
DS2-030	30	38	5	6.5	6
DS2-035	35	43	5	6.5	6
DS2-038	38	46	5	6.5	6
DS2-050	50	58	5	6.5	6
DS2-055	55	63	5	6.5	6
DS2-058	58	66	5	6.5	6
DS2-060	60	68	5	6.5	6
DS2-065	65	73	5	6.5	6
DS2-068	68	76	5	6.5	6
DS2-036	36	44.6	5.3	7	
DS2-040	40	48.6	5.3	7	
DS2-045	45	53	5	7	6
DS2-045	45	53.6	5.3	7	
DS2-040	40	48	5	8	6
DS2-040	40	50	6	8	7
DS2-050	50	60	6	8	7
DS2-055	55	65	6	8	7
DS2-050	65	75	6	8	7
DS2-075	75	85	6	8	7
DS2-080	80	90	6	8	7
DS2-090	90	100	6	8	7
DS2-100	100	110	6	8	7
DS2-105	105	115	6	8	7
DS2-118	118	128	6	8	7
DS2-060	60	70	5	9.5	
DS2-060	60	73	5	9.5	
DS2-050	50	63	7	9.5	
DS2-070	70	83	7	9.5	
DS2-080	80	93	7	9.5	
DS2-085	85	98	7	9.5	
DS2-100	100	113	7	9.5	
DS2-105	105	118	7	9.5	
DS2-060	60	70	6	10	

LPI WIPER SEAL

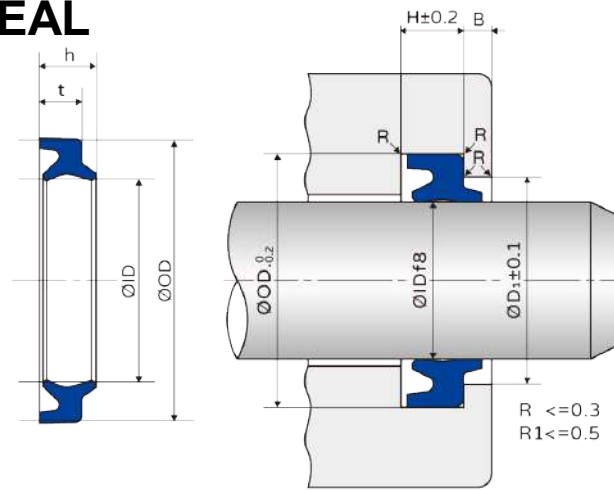


APPLICATION	
MATERIAL	PU
TEMP.	-40°C~100°C
SPEED	1 m/s

ITEM	ID	OD	t	h
LPI-060	60	70.6	5.5	7.5
LPI-078	78	88.6	5.5	7.5
LPI-099	99	109.6	5.5	7.5
LPI-120	120	130.6	5.5	7.5
LPI-141	141	151.6	5.5	7.5
LPI-162	162	172.6	5.5	7.5
LPI-183	183	193.6	5.5	7.5
LPI-207	207	217.6	5.5	7.5
LPI-040	40	50	6	8
LPI-045	45	55	6	8
LPI-050	50	60	6	8
LPI-055	55	65	6	8
LPI-070	70	80	6	8
LPI-077.5	77.5	87.5	6	8
LPI-136	136	149	7.8	9.4
* LPI-050	50	63	7	9.5
LPI-055	55	68	7	9.5
LPI-060	60	73	7	9.5
LPI-065	65	78	7	9.5
LPI-070	70	83	7	9.5
LPI-075	75	88	7	9.5
LPI-080	80	93	7	9.5
LPI-090	90	103	7	9.5
LPI-095	95	108	7	9.5
LPI-100	100	113	7	9.5
LPI-130	130	143	7	9.5
LPI-150	150	163	7	9.5
LPI-155	155	168	7	9.5
LPI-160	160	173	7	9.5
LPI-180	180	193	7	9.5
LPI-190	190	203	7	9.5
LPI-108	108	123	6.5	10.3
LPI-140	140	155	6.5	10.3
LPI-145	145	160	6.5	10.3
LPI-155	155	170	6.5	10.3
LPI-125	125	140	8.5	13
LPI-220	220	240	11.3	17.5

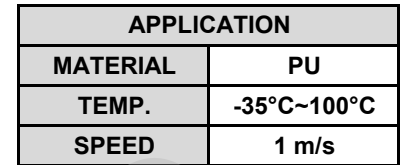
95

DH2 WIPER SEAL

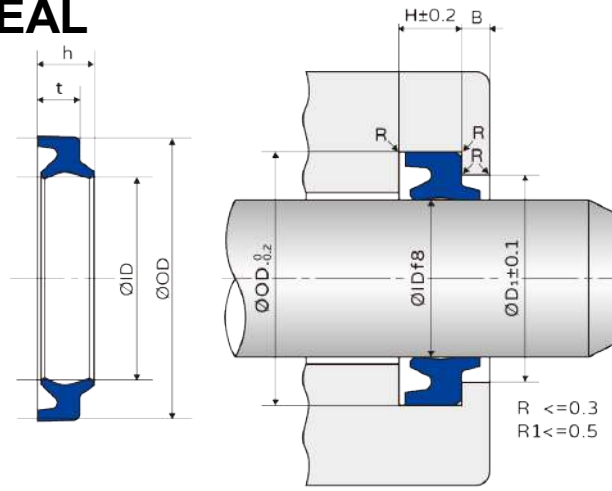


APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
SPEED	1 m/s

ITEM	ID	OD	t	h	D1	H
DH2-035.5	35.5	43.5	5	6.5	39.5	6
DH2-038	38	46	5	6.5	42	6
DH2-040	40	48	5	6.5	44	6
DH2-044	44	53	5	6.5		
DH2-045	45	53	5	6.5	49	6
* DH2-048	48	56	5	6.5	52	6
DH2-050	50	58	5	6.5	54	6
DH2-053	53	61	5	6.5	57	6
DH2-055	55	63	5	6.5	59	6
DH2-056	56	64	5	6.5	60	6
* DH2-058	58	66	5	6.5	62	6
DH2-060	60	68	5	6.5	64	6
DH2-063	63	71	5	6.5	67	6
DH2-065	65	73	5	6.5	69	6
DH2-067	67	75	5	6.5	71	6
* DH2-012	12	18.6	3.8	6.8	15	3.8
* DH2-014	14	20.6	3.8	6.8	17	3.8
* DH2-018	18	24.6	3.8	6.8	21	3.8
* DH2-055	55	65	5.3	6.8	58	6
* DH2-056	56	66	5.3	6.8	59	6
* DH2-060	60	70	5.3	6.8	63	6
* DH2-063	63	73	5.3	6.8	66	6
* DH2-065	65	75	5.3	6.8	68	6
* DH2-070	70	80	5.3	6.8	73	6
* DH2-075	75	85	5.3	6.8	78	6
* DH2-080	80	90	5.3	6.8	83	6
* DH2-085	85	95	5.3	6.8	88	6
* DH2-090	90	100	5.3	6.8	93	6
* DH2-100	100	110	5.3	6.8	103	6
* DH2-012	12	18	4	7	14.5	4
* DH2-030	30	38.6	5	7	33	5.3
* DH2-032	32	40.6	5	7	35	5.3
* DH2-040	40	48.6	5	7	43	5.3
* DH2-050	50	58.6	5	7	53	5.3
* DH2-055	55	63.6	5	7	58	5.3
* DH2-060	60	68.6	5	7	63	5.3
* DH2-063	63	71.6	5	7	66	5.3

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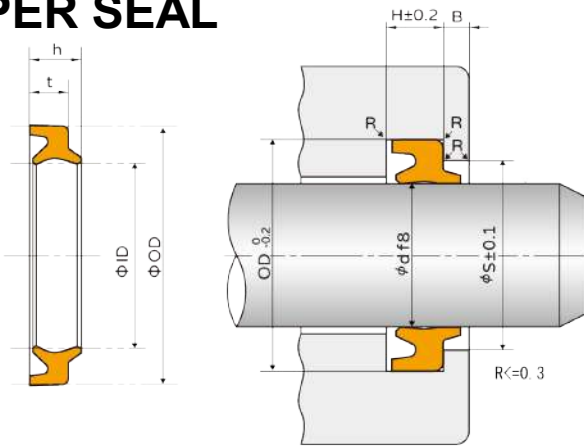
DH2 WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
SPEED	1 m/s

ITEM	ID	OD	t	h	D1	H
DH2-160	160	174	7	9.5	167	8
DH2-165	165	179	7	9.5	172	8
* DH2-180	180	193	7	9.5	187	8
DH2-180	180	194	7	9.5	187	8
* DH2-185	185	198	7	9.5	192	8
* DH2-200	200	213	7	9.5	207	8
DH2-200	200	214	7	9.5	207	8
DH2-204	204	218	7	9.5	211	8
* DH2-210	210	223	7	9.5	217	8
DH2-230	230	244	7	9.5	237	8
* DH2-110	110	125	7.5	9.5	114	8.5
* DH2-120	120	135	7.5	9.5	124	8.5
* DH2-125	125	140	7.5	9.5	129	8.5
* DH2-140	140	155	7.5	9.5	144	8.5
* DH2-160	160	175	7.5	9.5	164	8.5
* DH2-058	58	68	6	9.7	61	6
* DH2-078	78	88	6	9.7	81	6
* DH2-085	85	97.2	7.1	11	91	7.1
* DH2-090	90	102.2	7.1	11	96	7.1
* DH2-100	100	112.2	7.1	11	106	7.1
* DH2-110	110	122.2	7.1	11	116.6	7.1
DH2-080	80	94	8	11.5		
DH2-085	85	99	8	11.5		
DH2-095	95	109	8	11.5		
* DH2-250	250	265	9	11.5	258	10
* DH2-150	150	165	8.5	13	154	8.5
* DH2-180	180	195	8.5	13	184	8.5
* DH2-315	315	330	9	14		

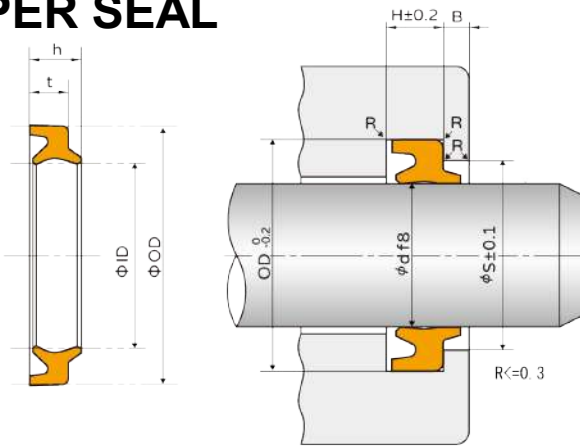
LBI WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
SPEED	1 m/s

ITEM	ID	OD	t	h
* LBI-05	5	10	3.1	4.1
* LBI-08	8	13	3.1	4.1
* LBI-010	10	16	3.6	4.8
* LBI-012	12	18	3.6	4.8
* LBI-014	14	20	3.6	4.8
* LBI-015	15	21	3.6	4.8
* LBI-016	16	22	3.6	4.8
* LBI-018	18	24	3.6	4.8
* LBI-020	20	26	3.6	4.8
* LBI-022	22	28	3.6	4.8
* LBI-025	25	31	3.6	4.8
LBI-020	20	26	4	4.8
LBI-020	20	26	4.0	4.8
LBI-035	35	43	3.5	5
* LBI-020	20	26	4.0	5
LBI-025	25	31	4.0	5
* LBI-012	12	20	3.6	5.5
LBI-010	10	16	4.0	5.5
* LBI-012	12	20	3.5	5.8
* LBI-028	28	36	4.5	5.8
* LBI-030	30	38	4.5	5.8
* LBI-032	32	40	4.5	5.8
* LBI-035	35	43	4.5	5.8
* LBI-036	36	44	4.5	5.8
* LBI-037	37	45	4.5	5.8
* LBI-040	40	48	4.5	5.8
* LBI-045	45	53	4.5	5.8
* LBI-046	46	54	4.5	5.8
LBI-050	50	58	4.5	5.8
* LBI-051	51	59	4.5	5.8
* LBI-045	45	53	4.7	5.8
* LBI-015	15	22	3.8	6
* LBI-020	20	26	4.0	6
* LBI-016	16	24	4.5	6
LBI-018	18	26	4.5	6

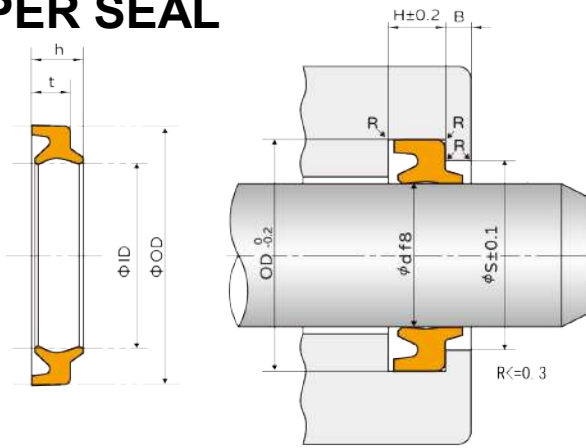
LBI WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
SPEED	1 m/s

ITEM	ID	OD	t	h
* LBI-019	19	27	4.5	6
LBI-020	20	28	4.5	6
LBI-022	22	30	4.5	6
LBI-022.4	22.4	30.4	4.5	6
* LBI-025	25	33	4.5	6
* LBI-026	26	34	4.5	6
LBI-028	28	36	4.5	6
LBI-010	10	17	5	6.5
LBI-013	13	20	5.0	6.5
LBI-030	30	38	5.0	6.5
LBI-031.5	31.5	39.5	5.0	6.5
* LBI-032	32	40	5.0	6.5
* LBI-034	34	42	5.0	6.5
LBI-035	35	43	5.0	6.5
LBI-035.5	35.5	43.5	5.0	6.5
	36	44	5.0	6.5
LBI-038	38	46	5.0	6.5
LBI-040	40	48	5.0	6.5
* LBI-045	45	48	5.0	6.5
LBI-045	45	53	5.0	6.5
LBI-048	48	56	5.0	6.5
LBI-050	50	58	5.0	6.5
LBI-055	55	63	5.0	6.5
LBI-056	56	64	5.0	6.5
* LBI-058	58	66	5.0	6.5
* LBI-060	60	68	5.0	6.5
LBI-063	63	71	5.0	6.5
LBI-065	65	73	5.0	6.5
LBI-038.1	38.1	47	5.2	6.8
* LBI-055	55	65	5.3	6.8
* LBI-056	56	66	5.3	6.8
LBI-060	60	70	5.3	6.8
* LBI-063	63	73	5.3	6.8
* LBI-065	65	75	5.3	6.8
* LBI-070	70	80	5.3	6.8
* LBI-075	75	85	5.3	6.8
* LBI-080	80	90	5.3	6.8

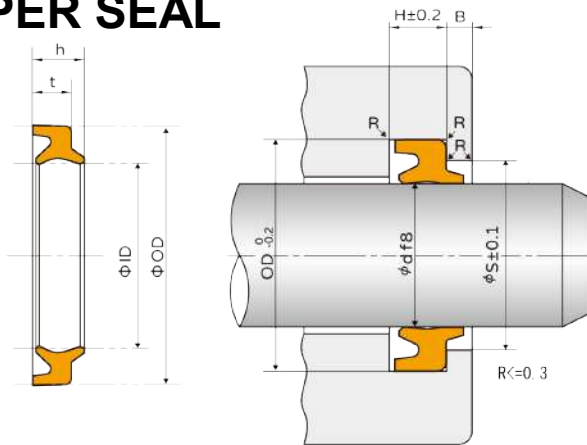
LBI WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
SPEED	1 m/s

ITEM	ID	OD	t	h
* LBI-085	85	95	5.3	6.8
* LBI-090	90	100	5.3	6.8
* LBI-0100	100	110	5.3	6.8
* LBI-012	12	18	4.0	7
* LBI-014	14	20	4.0	7
* LBI-018	18	24	4.0	7
* LBI-022	22	28	4.0	7
* LBI-025	25	31	4.0	7
* LBI-028	28	36	5.0	8
* LBI-030	30	38	5.0	8
* LBI-032	32	40	5.0	8
* LBI-036	36	44	5.0	8
* LBI-040	40	48	5.0	8
* LBI-045	45	53	5.0	8
* LBI-050	50	58	5.0	8
* LBI-070	70	80	6.0	8
* LBI-071	71	81	6.0	8
LBI-075	75	85	6.0	8
* LBI-080	80	90	6.0	8
LBI-085	85	95	6.0	8
LBI-090	90	100	6.0	8
LBI-095	95	105	6.0	8
* LBI-0100	100	110	6.0	8
LBI-0105	105	115	6.0	8
LBI-0110	110	120	6.0	8
* LBI-0112	112	122	6.0	8
LBI-0115	115	125	6.0	8
LBI-036	36	44	6.0	8.4
LBI-063	63	71	6.0	8.7
* LBI-0114	114	129	7.0	9
LBI-0120	120	130	7.0	9.5
* LBI-0125	125	138	7.0	9.5
LBI-0135	135	148	7.0	9.5
* LBI-0140	140	153	7.0	9.5
LBI-0150	150	163	7.0	9.5
* LBI-0160	160	173	7.0	9.5
* LBI-0180	180	193	7.0	9.5
* LBI-0185	185	198	7.0	9.5

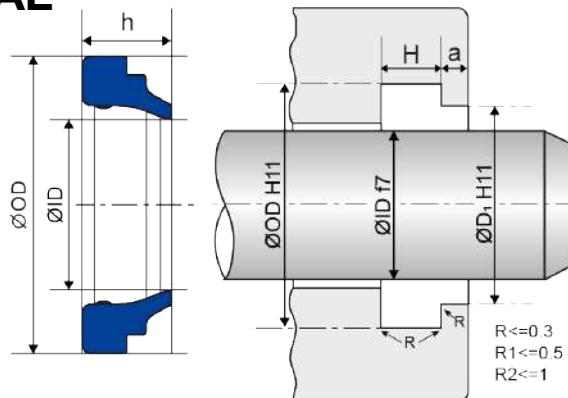
LBI WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
SPEED	1 m/s

ITEM	ID	OD	t	h
* LBI-0185	185	199	7	9.5
* LBI-0200	200	213	7.0	9.5
LBI-0210	210	223	7.0	9.5
* LBI-0110	110	125	7.5	9.5
* LBI-0120	120	135	7.5	9.5
* LBI-0125	125	140	7.5	9.5
* LBI-0138	138	158	7.5	9.5
* LBI-0140	140	155	7.5	9.5
* LBI-0160	160	175	7.5	9.5
* LBI-055	55	65	6.0	9.7
* LBI-056	56	66	6.0	9.7
* LBI-060	60	70	6.0	9.7
LBI-065	65	75	6.0	9.7
* LBI-070	70	80	6.0	9.7
* LBI-090	90	100	6.0	9.7
* LBI-0130	130	142	8.2	11
* LBI-025	25	33.5	8.3	11
* LBI-030	30	38.5	8.3	11
* LBI-032	32	40.5	8.3	11
* LBI-0250	250	265	9.0	11.5
* LBI-0110	110	125	8.5	13
* LBI-0140	140	155	8.5	13
* LBI-0150	150	165	8.5	13
* LBI-0180	180	196	9.5	14

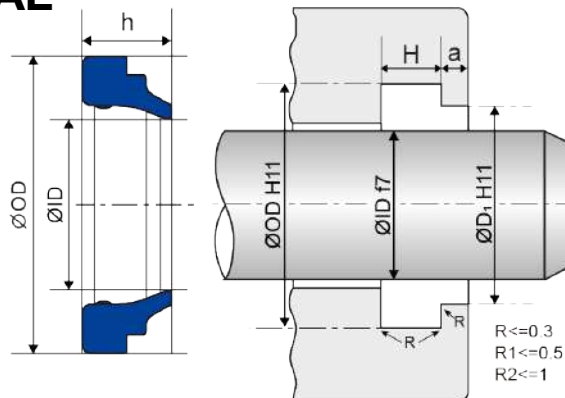
DSW WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	D1	H	h	a
DSW-008	8	14	12	2.6	5	1
* DSW-010	10	16	14	2.6	5	1
* DSW-016	16	24	22	4	7	1
* DSW-018	18	26	24	4	7	1
* DSW-020	20	26	24	2.6	5	1
DSW-020	20	28	26	4	7	1
DSW-022	22	30	28	4	7	1
* DSW-024	24	32	30	4	7	1
* DSW-025	25	31	29	2.6	5	1
DSW-025	25	33	31	4	7	1
* DSW-028	28	36	34	4	7	1
* DSW-030	30	36	34	2.6	5	1
DSW-030	30	38	36	4	7	1
DSW-032	32	40	38	4	7	1
* DSW-034	34	42	40	4	7	1
DSW-035	35	43	41	4	7	1
DSW-036	36	44	42	4	7	1
* DSW-038	38	46	44	4	7	1
DSW-040	40	48	46	4	7	1
* DSW-042	42	50	48	4	7	1
DSW-045	45	53	51	4	7	1
DSW-050	50	58	56	4	7	1
* DSW-056	56	64	62	4	7	1
* DSW-052	52	60	58	4	7	1
DSW-055	55	63	61	4	7	1
DSW-060	60	68	66	4	7	1
* DSW-063	63	71	69	4	7	1
DSW-065	65	73	71	4	7	1
DSW-070	70	78	76	4	7	1
DSW-075	75	83	81	4	7	1
DSW-080	80	88	86	4	7	1
* DSW-085	85	93	91	4	7	1
* DSW-090	90	98	96	4	7	1
* DSW-100	100	108	106	4	7	1
* DSW-105	105	113	111	4	7	1
* DSW-110	110	122	119	5.5	10	1.5
* DSW-120	120	132	129	5.5	10	1.5
* DSW-125	125	137	134	5.5	10	1.5
* DSW-140	140	152	149	5.5	10	1.5

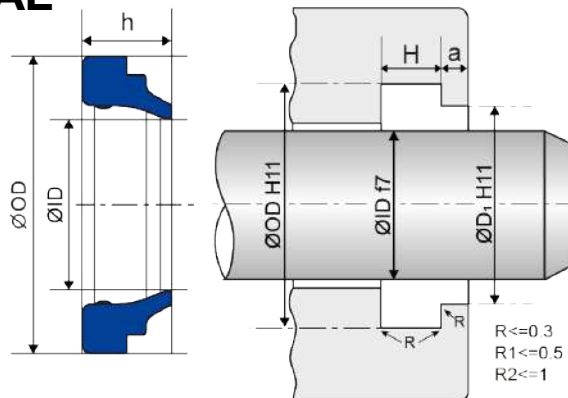
DSW WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	D1	H	h	a
DSW-008	8	14	12	2.6	5	1
* DSW-010	10	16	14	2.6	5	1
* DSW-016	16	24	22	4	7	1
* DSW-018	18	26	24	4	7	1
* DSW-020	20	26	24	2.6	5	1
DSW-020	20	28	26	4	7	1
DSW-022	22	30	28	4	7	1
* DSW-024	24	32	30	4	7	1
* DSW-025	25	31	29	2.6	5	1
DSW-025	25	33	31	4	7	1
DSW-028	28	36	34	4	7	1
* DSW-030	30	36	34	2.6	5	1
DSW-030	30	38	36	4	7	1
DSW-032	32	40	38	4	7	1
* DSW-034	34	42	40	4	7	1
DSW-035	35	43	41	4	7	1
DSW-036	36	44	42	4	7	1
* DSW-038	38	46	44	4	7	1
DSW-040	40	48	46	4	7	1
* DSW-042	42	50	48	4	7	1
DSW-045	45	53	51	4	7	1
DSW-050	50	58	56	4	7	1
* DSW-056	56	64	62	4	7	1
* DSW-052	52	60	58	4	7	1
DSW-055	55	63	61	4	7	1
DSW-060	60	68	66	4	7	1
* DSW-063	63	71	69	4	7	1
DSW-065	65	73	71	4	7	1
DSW-070	70	78	76	4	7	1
DSW-075	75	83	81	4	7	1
DSW-080	80	88	86	4	7	1
* DSW-085	85	93	91	4	7	1
* DSW-090	90	98	96	4	7	1
* DSW-100	100	108	106	4	7	1
* DSW-105	105	113	111	4	7	1
* DSW-110	110	122	119	5.5	10	1.5
* DSW-120	120	132	129	5.5	10	1.5
* DSW-125	125	137	134	5.5	10	1.5
* DSW-140	140	152	149	5.5	10	1.5

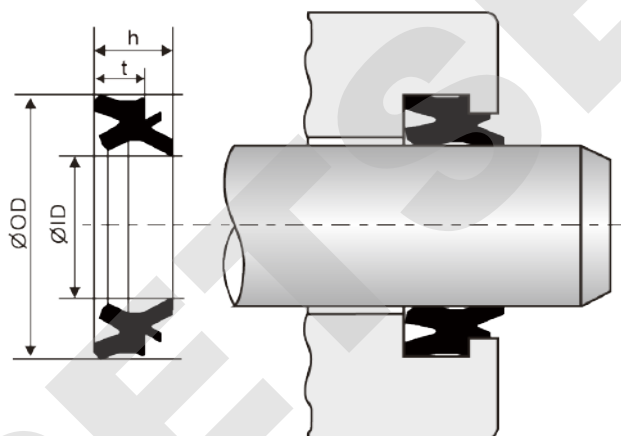
DSW WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	D1	H	h	a
* DSW-150	150	162	159	5.5	10	1.5
* DSW-160	160	172	169	5.5	10	1.5
* DSW-180	180	192	189	5.5	10	1.5

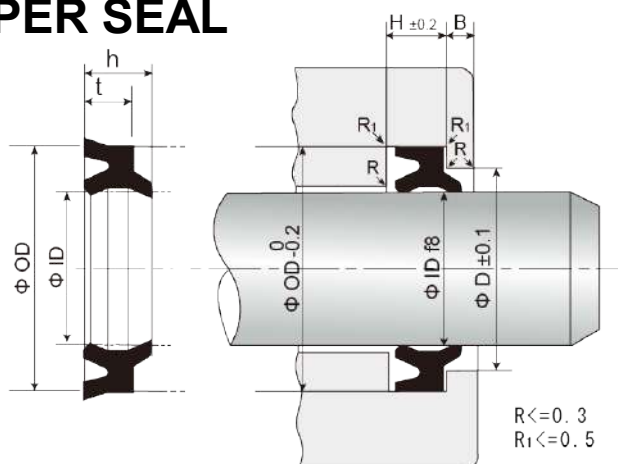
LBR WIPER RINGS SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-45°C~100°C
SPEED	0.5m/s

ITEM	ID	OD	t	h
LBR-091	91	101	6	9
LBR-110	110	120	6	9
LBR-130	130	140	6	9
LBR-150	150	160	6	9
LBR-170	170	181	6.5	10
LBR-192	192	203	6.5	10

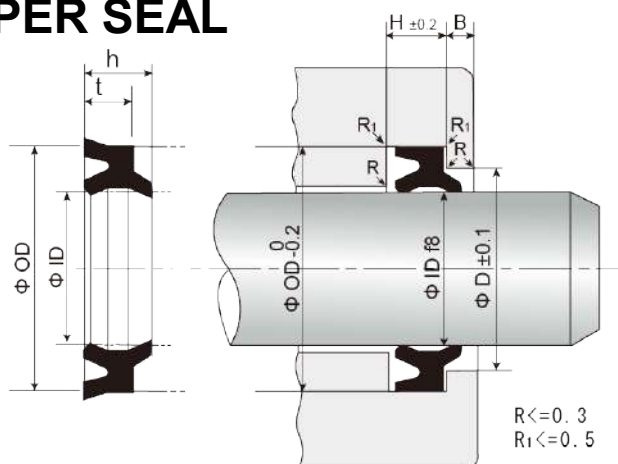
LBN2 WIPER SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-35°C~100°C	-35°C~160°C
SPEED	1m/s	1m/s

ITEM	ID	OD	t	h	H	D1	B
LBN2-010	10	16	3.7	5.5			
LBN2-010	10	17	5	6.5	6	14	2
LBN2-012	12	20	3.6	5.35			
LBN2-012	12	20	4.5	6	5	16.3	2
LBN2-012.5	12.5	20.5	4.5	6	5	16.8	2
LBN2-013	13	20	5	6.5			
LBN2-014	14	22	4.5	6	5	18.3	2
LBN2-015	15	19	4.8	5.8			
LBN2-015	15	20	4.8	5.5			
LBN2-016	16	24	4.5	6	5	20.3	2
LBN2-018	18	26	4.5	6	5	22.3	2
LBN2-020	20	28	4.5	6	5	24.3	2
LBN2-022	22	30	4.5	6	5	26.3	2
LBN2-022.4	22.4	30.4	4.5	6	5	26.7	2
LBN2-025	25	33	4.5	6	5	29.3	2
LBN2-028	28	36	4.5	6	5	32.3	2
LBN2-030	30	38	5	6.5	6	34	2
LBN2-031.5	31.5	39.5	5	6.5	6	35.5	2
LBN2-032	32	40	5	6.5	6	36	2
LBN2-035	35	43	5	6.5	6	39	2
LBN2-035.5	35.5	43.5	5	6.5	6	39.5	2
LBN2-036	36	44	5	6.5	6	40	2
LBN2-038	38	46	5	6.5	6	42	2
LBN2-040	40	48	5	6.5	6	44	2
LBN2-045	45	53	5	6.5	6	49	2
LBN2-050	50	58	5	6.5	6	54	2
LBN2-053	53	61	5	6.5	6	57	2
LBN2-055	55	63	5	6.5	6	59	2
LBN2-056	56	64	5	6.5	6	60	2
LBN2-058	58	66	5	6.5	6	62	2
LBN2-060	60	68	5	6.5	6	64	2
LBN2-063	63	71	5	6.5	6	67	2
LBN2-065	65	73	5	6.5	6	69	2
LBN2-067	67	75	5	6.5	6	71	2
LBN2-070	70	80	6	8	7	75	3

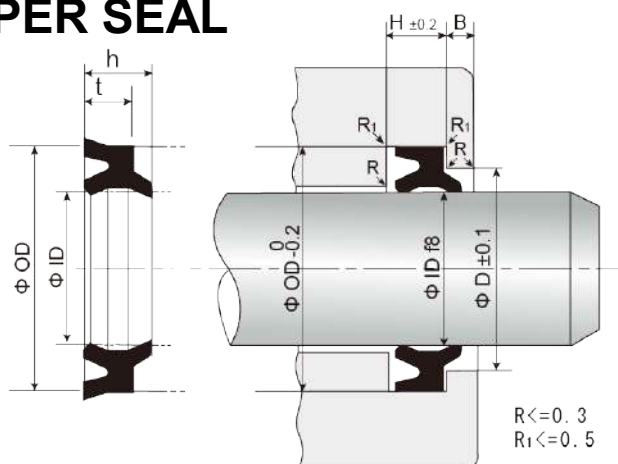
LBN2 WIPER SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-35°C~100°C	-35°C~160°C
SPEED	1m/s	1m/s

ITEM	ID	OD	t	h	H	D1	B
LBN2-071	71	81	6	8	7	76	3
LBN2-075	75	85	6	8	7	80	3
LBN2-080	80	90	6	8	7	85	3
LBN2-085	85	95	6	8	7	90	3
LBN2-090	90	100	6	8	7	95	3
LBN2-095	95	105	6	8	7	100	3
LBN2-100	100	110	6	8	7	105	3
LBN2-105	105	115	6	8	7	110	3
LBN2-106	106	116	6	8	7	111	3
LBN2-110	110	120	6	8	7	115	3
LBN2-112	112	122	6	8	7	117	3
* LBN2-112	112	138	7	9.5			
LBN2-115	115	125	6	8	7	120	3
LBN2-118	118	128	6	8	7	123	3
LBN2-120	120	130	6	8	7	125	3
* LBN2-120	120	130	7	9.5			
* LBN2-120A	120	133	7	9.5	8	127	3
LBN2-125	125	138	7	9.5	8	132	3
LBN2-130	130	143	7	9.5	8	137	3
LBN2-132	132	145	7	9.5	8	139	3
LBN2-140	140	153	7	9.5	8	147	3
LBN2-145	145	158	7	9.5	8	152	3
LBN2-150	150	163	7	9.5	8	157	3
LBN2-155	155	167	7	9.5			
* LBN2-155A	155	168	7	9.5	8	162	3
LBN2-160	160	173	7	9.5	8	167	3
LBN2-160A	160	174	7	9.5	8	167	3
LBN2-165	165	178	7	9.5	8	172	3
LBN2-170A	170	185	7	9.5	12	174	3
LBN2-175	175	188	7	9.5	8	182	3
LBN2-180	180	193	7	9.5	8	187	3
LBN2-180A	180	194	7	9.5	8	187	3
LBN2-190	190	200	7	9.5	8	187	3
LBN2-190A	190	203	7	9.5	8	197	3
LBN2-200	200	213	7	9.5	8	207	3

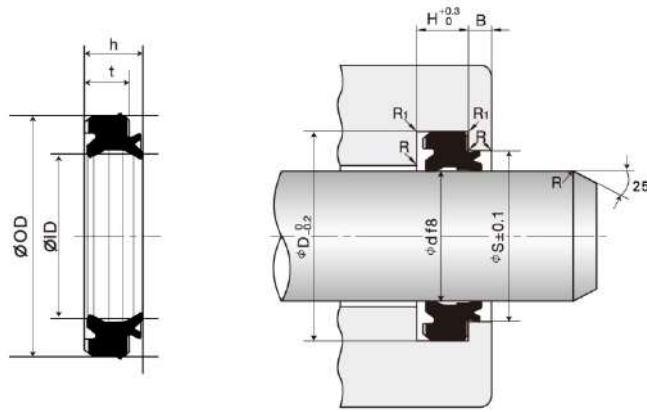
LBN2 WIPER SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-35°C~100°C	-35°C~160°C
SPEED	1m/s	1m/s

ITEM	ID	OD	t	h	H	D1	B
LBN2-200	200	214	7	9.5	8		
LBN2-205	205	218	7	9.5	8	212	3
LBN2-210	210	223	7	9.5	8	217	3
LBN2-212	212	226	7	9.5			
* LBN2-220	220	233	7	9.5	8		
LBN2-224	224	237	7	9.5	8	231	3
LBN2-225	225	238	7	9.5	8	232	3
* LBN2-230	230	243	7	9.5	8	237	3
LBN2-240	240	256	10	13	11	248	4
LBN2-250A	250	266	9	12	10	258	4
* LBN2-250	250	266	10	13	11	258	4
LBN2-280A	280	296	9	12	10	288	4
LBN2-290	290	306	10	13	11	298	4
LBN2-300	300	316	9	12			
* LBN2-310	310	330	10	14			
* LBN2-310	310	340	10	14			
LBN2-315	315	331	10	13	11	323	4
* LBN2-320	320	336	10	14			
* LBN2-320	320	340	10	14			
LBN2-330	330	350	10	14			
LBN2-340	340	360	10	14			
LBN2-350	350	370	10	13			
* LBN2-355	355	371	10	13	11	363	4
LBN2-355A	355	375	10	14	11	365	5
* LBN2-355	355	387	24	26			
* LBN2-360	360	380	10	14			
* LBN2-380	380	400	10	14			
* LBN2-390	390	410	10	14			
LBN2-400	400	416	10	13	11	408	4
* LBN2-400	400	420	10	14			
LBN2-500	500	520	11.5	15.5	12.5	510	5
(inch)							
LBN2-0.6	0.6	0.825	0.185	0.215			

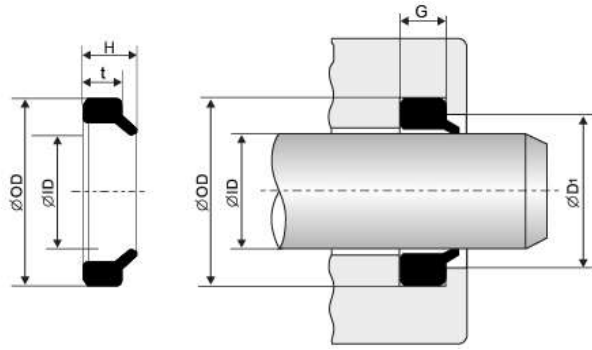
DC2 WIPER SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	t	h	D1	H	B
DC2-018	18	30	5.8	7.7	24	6	3
DC2-020	20	32	5.8	7.7	26	6	2.5
DC2-025	25	37	5.8	7.7	31	6	2.5
DC2-028	28	40	5.8	7.7	34	6	2.5
DC2-030	30	42	5.8	7.7	36	6	2.5
DC2-035	35	47	6.8	8.7	41	7	2.5
DC2-040	40	52	6.8	8.7	46	7	2.5
DC2-045	45	57	6.8	8.7	51	7	2.5
DC2-050	50	62	6.8	8.7	56	7	3
DC2-055	55	69	7.7	10	62	8	3
DC2-060	60	74	7.7	10	67	8	3
DC2-065	65	79	7.7	10	72	8	3
DC2-070	70	84	7.7	10	77	8	3
DC2-075	75	89	7.7	10	82	8	3
DC2-080	80	94	7.7	10	87	8	3
DC2-085	85	99	7.7	10	92	8	3
DC2-090	90	104	7.7	10	97	8	3
DC2-095	95	109	7.7	10	102	8	3
DC2-100	100	114	7.7	10	107	8	3
DC2-105	105	121	8.7	12	113	9	4
DC2-110	110	126	8.7	12	118	9	4
DC2-115	115	131	8.7	12	123	9	4
DC2-120	120	136	8.7	12	128	9	4
DC2-120	125	141	8.7	12	133	9	4

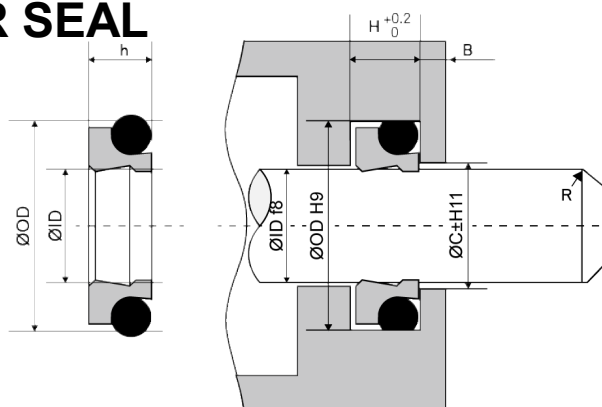
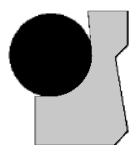
DER WIPER SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~100°C
SPEED	0.5 m/s

ITEM	ID	OD	t	h
DER-003	3	6	2	2.75
DER-004	4	7	2	2.75
DER-005	5	8	2	2.75
DER-006	6	9	2	2.75
DER-008	8	11	2	2.75
DER-010	10	13	2	2.75
DER-010A	10	14	2.9	3.9
DER-012	12	16	2.9	3.9
DER-014	14	18	2.9	3.9
DER-016	16	20	2.9	3.9
DER-018	18	22	2.9	3.9
DER-020	20	24	2.9	3.9
DER-022	22	26	2.9	3.9
DER-025	25	31	4.3	5.8
DER-030	30	36	4.3	5.8
DER-032	32	38	4.3	5.8
* DER-034	34	40	4.3	5.8
DER-035	35	41	4.3	5.8
* DER-035.5	35.5	41.5	4.3	5.8
* DER-036	36	42	4.3	5.8
* DER-038	38	44	4.3	5.8
DER-040	40	46	4.3	5.8
* DER-042	42	48	4.3	5.8
* DER-045	45	51	4.3	5.8
* DER-046	46	52	4.3	5.8
* DER-048	48	54	4.3	5.8
* DER-050	50	56	4.3	5.8

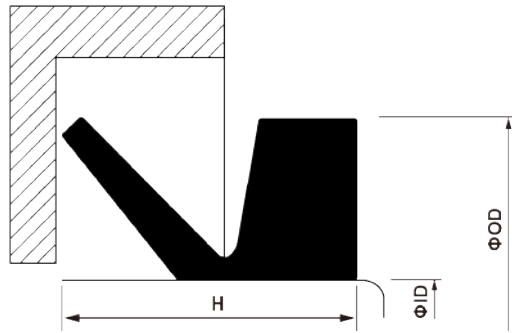
WR13 WIPER SEAL



APPLICATION	
MATERIAL	PTFE + NBR
TEMP.	-30°C~100°C
SPEED	4m/s

ITEM	ID	OD	h	H	C	B
WR13-035	35	42.6	3.9	4.2	36.5	2
* WR13-016	16	22.8	4.7	5	17.5	2
* WR13-018	18	24.8	4.7	5	19.5	2
WR13-020	20	26.8	4.7	5	21.5	2
WR13-022	22	28.8	4.7	5	23.5	2
WR13-025	25	31.8	4.7	5	26.5	2
* WR13-025	25	33	4.7	5	26.5	
WR13-028	28	34.8	4.7	5	29.5	2
* WR13-030	30	36.8	4.7	5	31.5	2
WR13-030	30	38	4.7	5	31.5	
WR13-035	35	41.8	4.7	5	36.5	2
WR13-036	36	42.8	4.7	5	37.5	2
WR13-040	40	46.8	4.7	5	41.5	2
WR13-045	45	51.8	4.7	5	46.5	2
WR13-050	50	56.8	4.7	5	51.5	2
* WR13-050	50	58	4.7	5	51.5	
* WR13-055	55	61.8	4.7	5	56.5	2
WR13-056	56	62.8	4.7	5	57.5	2
* WR13-060	60	66.8	4.7	5	61.5	2
* WR13-063	63	69.8	4.7	5	64.5	2
* WR13-065	65	71.8	4.7	5	66.5	2
* WR13-080	80	90	5.7	6	81.5	3
WR13-100	100	108.8	5.7	6	101.5	3
WR13-110	110	118.8	5.7	6		
WR13-120	120	128.8	5.7	6		
* WR13-120	120	130	5.7	6	121.5	
WR13-130	130	138.8	5.7	6		
WR13-065	65	73.8	6	6.3	66.5	
* WR13-070	70	78.8	6	6.3	71.5	3
* WR13-075	75	83.8	6	6.3	76.5	3
* WR13-080	80	88.8	6	6.3	81.5	3
* WR13-085	85	93.8	6	6.3	86.5	3
* WR13-090	90	98.8	6	6.3	91.5	3
* WR13-100	100	108.8	6	6.3	101.5	3
* WR13-125	125	133.8	6	6.3	126.5	3
WR13-140	140	148.8	6	6.3	141.5	3
WR13-080	80	90	6.7	7	81.5	
* WR13-075	75	87.2	7.8	8.1	76.5	
* WR13-080	80	92.2	7.8	8.1	82	4
* WR13-090	90	102.2	7.8	8.1	92	4
WR13-220	220	236	9.2	9.5	222.5	5
WR13-710	710	737.3	15.7	16		

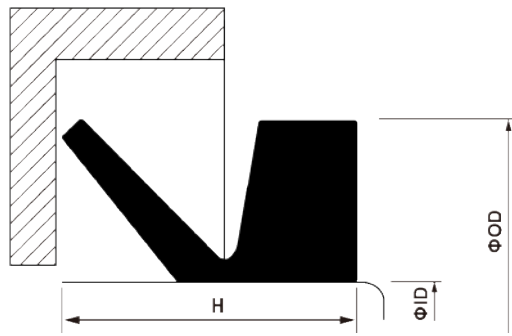
VA WIPER SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-20°C~100°C
SPEED	8.1 m/s

ITEM	ID	OD	H
* VA-003	2.5	5.5	3.0
* VA-004	3.2	7.2	3.7
* VA-005	4	8	3.7
* VA-006	5	9	3.7
* VA-007	6	10	3.7
* VA-008	7	11	3.7
* VA-010	9	15	5.5
* VA-012	10.5	16.5	5.5
* VA-013	11.7	17.7	5.5
* VA-014	12	18.5	5.5
* VA-016	14	20	5.5
* VA-018	16	22	5.5
* VA-020	18	26	7.5
* VA-022	20	28	7.5
* VA-025	22	30	7.5
* VA-028	25	33	7.5
* VA-030	27	35	7.5
* VA-032	29	37	7.5
* VA-035	31	39	7.5
* VA-038	34	42	7.5
* VA-040	36	46	9.0
* VA-045	40	50	9.0
* VA-050	45	55	9.0
* VA-055	49	59	9.0
* VA-060	54	64	9.0
* VA-065	58	68	9.0
* VA-070	63	75	11.0
* VA-075	67	79	11.0
VA-080	72	84	11.0
VA-085	76	88	11.0
VA-090	81	93	11.0
VA-095	85	97	11.0
VA-100	90	102	11.0
* VA-110	99	113	12.8
* VA-120	108	122	12.8
* VA-130	117	131	12.8
* VA-140	126	140	12.8
VA-150	135	149	12.8

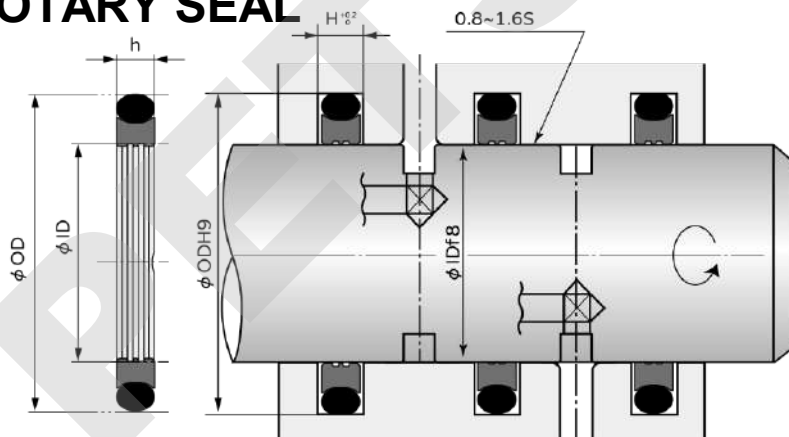
VA WIPER SEAL



MATERIAL	NBR
TEMP.	-20°C~100°C
SPEED	8.1 m/s

ITEM	ID	OD	H
* VA-160			
* VA-170	153	169	
* VA-180	162	178	
* VA-190	171	187	
* VA-199	180	196	
* VA-200	180	210	
* VA-220	198	228	
* VA-250	225	255	
* VA-275	247	277	
* VA-300	270	300	
* VA-325	292	322	
* VA-350	315	345	
* VA-375	337	367	
* VA-400	360	390	
* VA-450	405	435	
* VA-500	450	480	

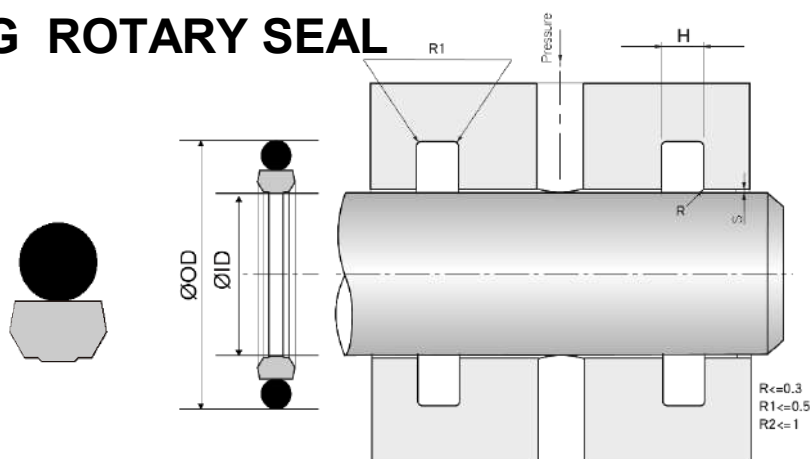
VL ROTARY SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-30°C~100°C
PRESSURE	300 kgf/cm ²
SPEED	2 m/s

ITEM	ID	OD	h	H
VL-40	40	47.5	3.0	3.2
VL-80	80	91	4.0	4.2
VL-85	85	100.5	6.0	6.3
VL-90	90	101	4.0	4.2
VL-105	105	94	4.0	4.2
VL-150	150	134.5	6.0	6.3
VL-180	180	191	4.0	4.2
VL-260	260	271	4.0	4.2

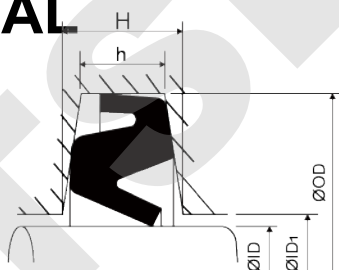
TG ROTARY SEAL



APPLICATION	
MATERIAL	UPE+NBR
TEMP.	-30°C~100°C
PRESSURE	400 kgf/cm ²
SPEED	6.5 m/s

ITEM	ID	OD	H
SHAFT SEALING			
TG-17	17	22	2.2
TG-35	35	42.5	3.2
BORE SEALING			
TG-37	37	48	4.2
TG-64	64	75	4.2

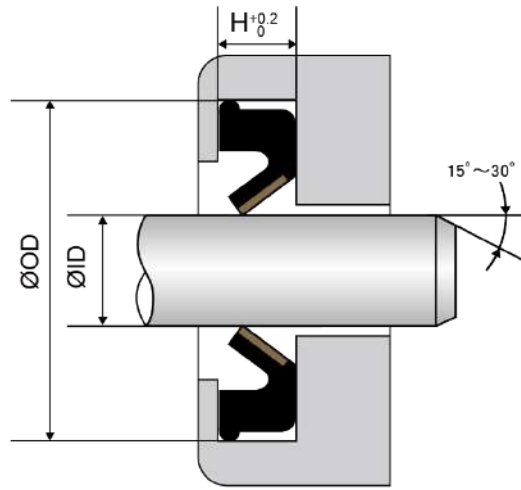
PZF ROTARY SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-22°C~100°C

ITEM	ID	OD	h	H
* PZF-38.1	38.1	53	4	5.7
* PZF-85	85	104	6	8.1
PZF-95	95	116	7	9.3
* PZF-110	110	135	8	10.7
* PZF-100	100	125	8	10.8
* PZF-105	105	130	8	10.8
* PZF-120	120	149	9	12.2

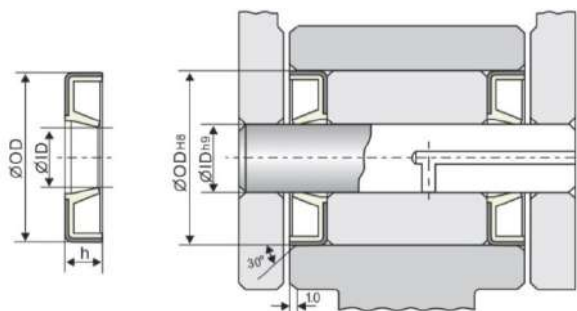
DR2 ROTARY SEAL



APPLICATION	
MATERIAL	NBR+PTFE
TEMP.	-30°C~70°C
SPEED	10m/s
PRESSURE	4 kgf/cm ²

ITEM	ID	OD	h
* DR2-10	10	22	7
* DR2-15	15	30	7
DR2-20	20	35	7
* DR2-25	25	40	7
* DR2-30	30	47	7
* DR2-35	35	52	8
DR2-40	40	57	8
* DR2-45	45	62	8
* DR2-50	50	68	8
DR2-60	60	80	8
* DR2-70	70	90	10
* DR2-80	80	100	10

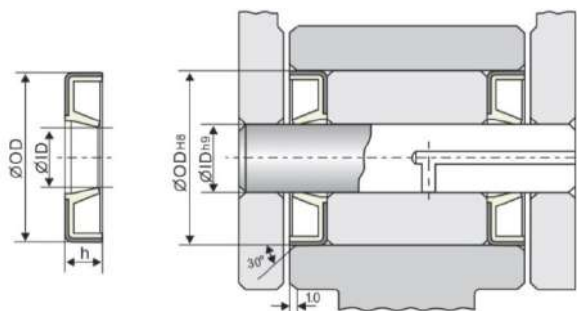
DL2 PIN WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~100°C

ITEM	ID	OD	H
DL2-025	25	33	4.2
DL2-030	30	38	4.2
DL2-030	30	40	4.2
DL2-030	30	45	4.2
DL2-040	40	48	4.2
DL2-050	50	60	4.2
DL2-040	40	50	4
DL2-045	45	55	4
DL2-050	50	63	4
* DL2-080	80	95	4
DL2-120	120	135	4
DL2-050	50	60	4.2
DL2-055	55	65	4.2
DL2-055	55	68	4.2
DL2-050	50	60	4.5
DL2-060	60	75	4.5
DL2-070	70	85	4.5
* DL2-080	80	90	4.5
* DL2-090	90	100	4.5
* DL2-100	100	110	4.5
* DL2-045	45	62	5
* DL2-045	45	65	5
* DL2-050	50	60	5
DL2-050	50	65	5
DL2-055	55	70	5
DL2-060	60	75	5
DL2-065	65	80	5
DL2-070	70	85	5
DL2-070	70	90	5
DL2-071	71	86	5
DL2-075	75	90	5
DL2-080	80	90	5
DL2-080	80	95	5
* DL2-085	85	95	5
DL2-085	85	100	5
DL2-090	90	105	5
DL2-100	100	115	5
* DL2-105	105	120	5
* DL2-110	110	125	5
* DL2-115	115	125	5
* DL2-120	120	135	5
DL2-045	45	55	6
DL2-050	50	60	6
DL2-055	55	68	6

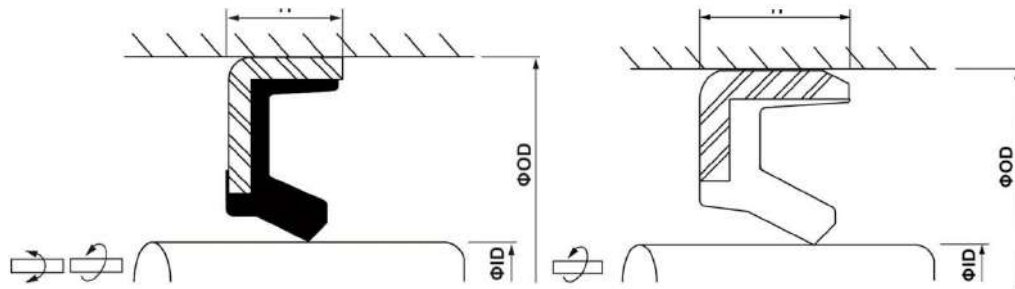
DL2 PIN WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~100°C

ITEM	ID	OD	H
* DL2-060	60	75	6
* DL2-065	65	80	6
* DL2-070	70	85	6
DL2-080	80	95	6
DL2-085	85	100	6
* DL2-090	90	100	6
DL2-090	90	105	6
DL2-095	95	110	6
DL2-100	100	115	6
DL2-115	115	135	6
* DL2-080	80	95	7
DL2 100	100	115	7
DL2-110	110	125	7
DL2-050	50	65	8
* DL2-050	50	72	8
DL2-060	60	75	8
* DL2-065	65	80	8
DL2-070	70	85	8
DL2-075	75	90	8
DL2-080	80	95	8
DL2-085	85	100	8
DL2-090	90	105	8
DL2-090	90	106	8
DL2-090	90	110	8
DL2-095	95	110	8
DL2 100	100	115	8
* DL2-100	100	116	8
DL2-110	110	125	8
* DL2-110	110	130	8
DL2-120	120	135	8
* DL2-120	120	140	8
DL2-125	125	140	8
DL2-140	140	155	8
DL2-100	100	115	9
DL2-110	110	125	9
DL2-090	90	110	10
DL2-110	110	130	10
DL2-120	120	140	10

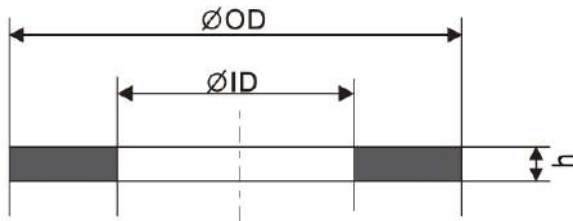
DWP PIN DUST SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	H
DWP-038	38	48	4
DWP-038	38	50	4
DWP-055	55	68	4
DWP-055	55	70	5
DWP-060	60	70	5
DWP-060	60	75	5
DWP-065	65	80	5
DWP-070	70	85	5
DWP-071	71	86	5
DWP-080	80	95	5
DWP-090	90	105	6
DWP-100	100	115	7
DWP-110	110	125	8
DWP-120	120	135	8
DWP-250	250	280	12
DWP(VB)-033	33	45	5
* DWP(VB)-035	35	45	4
DWP(VB)-040	40	52	5
DWP(VB)-045	45	52	7
* DWP(VB)-045	45	55	4.2
DWP(VB)-045	45	55	7
DWP(VB)-050	50	60	7
DWP(VB)-060	60	70	7
DWP(VB)-063	63	75	7
* DWP(VB)-065	65	80	4
DWP(VB)-075	75	96	10
DWP(VB)-080	80	90	5
DWP(VB)-085	85	95	5
DWP(VB)-090	90	100	5
DWP(VB)-090	90	110	8
DWP(VB)-095	95	115	12
DWP(VB)-110	110	130	10
DWP(VB)-115	115	135	6
DWP(VB)-125	125	140	7
DWP(VB)-155	155	170	7

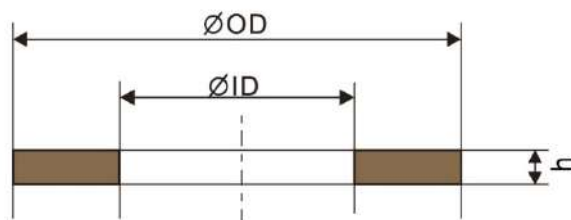
ROD SEAL BACKUP RING



APPLICATION		
MATERIAL	NY	POK
TEMP.	-55°C~120°C	-30~120°C

ITEM	ID	OD	h	ITEM	ID	OD	h
BT-040	40	50	3	BT-075	75	95	3
BT-040	40	55	3	BT-080	80	90	3
BT-045	45	55	3	BT-080	80	93	3
BT-045	45	60	3	BT-080	80	95	3
BT-045	45	65	3	BT-080	80	100	3
BT-050	50	60	3	BT-085	85	100	3
BT-050	50	63	3	BT-085	85	105	3
BT-050	50	65	3	BT-090	90	105	3
BT-050	50	70	3	BT-090	90	110	3
BT-055	55	65	3	BT-095	95	110	3
BT-055	55	68	3	BT-095	95	115	3
BT-055	55	70	3	BT-100	100	110	3
BT-055	55	71	3	BT-100	100	115	3
BT-055	55	75	3	BT-100	100	120	3
BT-055	55	80	3	BT-105	105	120	3
BT-060	60	70	3	BT-105	105	125	3
BT-060	60	73	3	BT-110	110	125	3
BT-060	60	75	3	BT-110	110	130	3
BT-060	60	76	3	BT-115	115	125	3
BT-060	60	80	3	BT-115	115	130	3
BT-063	63	73	3	BT-115	115	135	3
BT-080	64	80	3	BT-120	120	135	3
BT-065	65	73	3	BT-120	120	140	3
BT-065	65	75	3	BT-125	125	140	3
BT-065	65	78	3	BT-125	125	145	3
BT-065	65	80	3	BT-150	125	250	3
BT-065	65	85	3	BT-130	130	145	3
BT-065	65	90	3	BT-130	130	150	3
BT-070	70	80	3	BT-135	135	150	3
BT-070	70	83	3	BT-140	140	160	3
BT-070	70	85	3	BT-145	145	160	3
BT-070	70	90	3	BT-150	150	165	3
BT-075	75	85	3	BT-150	150	170	3
BT-075	75	88	3	BT-155	155	170	3
BT-075	75	90	3	BT-160	160	180	3

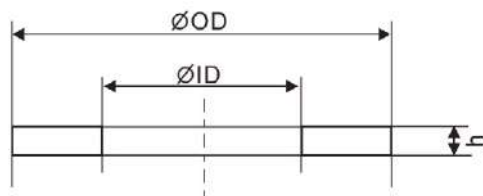
ROD SEAL BACKUP RING



APPLICATION	
MATERIAL	PTFE
TEMP.	-55°C~200°C

ITEM	ID	OD	h	ITEM	ID	OD	h
BRT-57	57	62	1.5	BRT-75	75	90	3
BRT-62	62	67	1.5	BRT-80	80	93	3
BRT-60	60	70	1.9	BRT-80	80	95	3
BRT-30	30	40	2	BRT-80	80	100	3
* BRT-35	35	45	2	BRT-85	85	100	3
* BRT-50	50	60	2	BRT-85	85	105	3
* BRT-80	80	100	2	BRT-90	90	105	3
BRT-45	45	55	2.5	BRT-95	95	110	3
BRT-50	50	60	2.5	BRT-95	95	115	3
BRT-52	52	65	2.5	BRT-100	100	115	3
BRT-57	57	70	2.5	BRT-100	100	120	3
BRT-62	62	75	2.5	BRT-105	105	120	3
BRT-65	65	80	2.5	BRT-105	105	125	3
BRT-40	40	50	3	BRT-110	110	125	3
BRT-40	40	55	3	BRT-110	110	130	3
BRT-45	45	55	3	BRT-115	115	130	3
BRT-45	45	60	3	BRT-120	120	140	3
BRT-50	50	60	3	BRT-125	125	150	3
BRT-50	50	63	3	BRT-130	130	150	3
BRT-50	50	65	3	BRT-140	140	165	3
BRT-55	55	68	3	BRT-160	160	185	3
BRT-55	55	70	3	BRT-295	295	325	3
BRT-55	55	71	3	BRT-65	65	78	3.5
BRT-56	56	66	3	BRT-65	65	80	3.5
BRT-60	60	70	3	BRT-70	70	83	3.5
BRT-60	60	73	3	BRT-70	70	85	3.5
BRT-60	60	75	3	BRT-75	75	88	3.5
BRT-60	60	76	3	BRT-80	80	93	3.5
BRT-65	65	78	3	* BRT-80	80	95	3.5
BRT-65	65	80	3	BRT-85	85	100	3.5
BRT-70	70	80	3	BRT-95	95	110	3.5
BRT-70	70	83	3	BRT-100	100	115	3.5
BRT-70	70	85	3	BRT-71	71	75	3.8
BRT-70	70	90	3	BRT-140	140	160	4
BRT-75	75	88	3	BRT-340	340	370	4

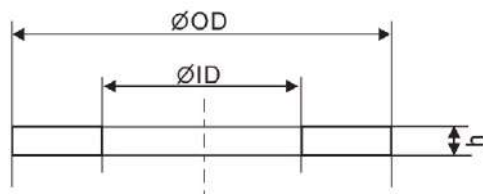
HY-P BACKUP RING



APPLICATION	
MATERIAL	HY
TEMP.	-40°C~100°C

ITEM	ID	OD	h	ITEM	ID	OD	h
* HY-P-003	3	6	1.25	HY-P-042	42	48	1.25
* HY-P-004	4	7	1.25	HY-P-044	44	50	1.25
* HY-P-005	5	8	1.25	HY-P-045	45	51	1.25
* HY-P-006	6	9	1.25	* HY-P-046	46	52	1.25
* HY-P-007	7	10	1.25	* HY-P-048	48	54	1.25
* HY-P-008	8	11	1.25	* HY-P-049	49	55	1.25
* HY-P-009	9	12	1.25	HY-P-050	50	56	1.25
HY-P-010	10	13	1.25	* HY-P-100	100	110	1.25
* HY-P-010A	10	14	1.25	HY-P-049	49	55	1.5
* HY-P-011	11	15	1.25	* HY-P-100	100	110	1.5
* HY-P-011.2	11.2	15.2	1.25	HY-P-048A	48	58	1.9
* HY-P-012	12	16	1.25	HY-P-050A	50	60	1.9
* HY-P-012.5	12.5	16.5	1.25	* HY-P-052	52	62	1.9
* HY-P-014	14	18	1.25	HY-P-053	53	63	1.9
HY-P-015	15	19	1.25	HY-P-055	55	65	1.9
* HY-P-016	16	20	1.25	HY-P-056	56	66	1.9
* HY-P-018	18	22	1.25	HY-P-058	58	68	1.9
HY-P-020	20	24	1.25	HY-P-060	60	70	1.9
* HY-P-021	21	25	1.25	HY-P-062	62	72	1.9
* HY-P-022	22	26	1.25	HY-P-063	63	73	1.9
* HY-P-022A	22	28	1.25	HY-P-065	65	75	1.9
* HY-P-022.4	22.4	28.4	1.25	HY-P-067	67	77	1.9
* HY-P-024	24	30	1.25	HY-P-070	70	80	1.9
HY-P-025	25	31	1.25	HY-P-071	71	81	1.9
* HY-P-025.5	25.5	31.5	1.25	HY-P-075	75	85	1.9
* HY-P-026	26	32	1.25	HY-P-078	78	88	1.9
* HY-P-028	28	34	1.25	HY-P-080	80	90	1.9
* HY-P-029	29	35	1.25	HY-P-085	85	95	1.9
* HY-P-029.5	29.5	35.5	1.25	HY-P-090	90	100	1.9
* HY-P-030	30	36	1.25	HY-P-095	95	105	1.9
* HY-P-031	31	37	1.25	HY-P-100	100	110	1.9
* HY-P-031.5	31.5	37.5	1.25	* HY-P-102	102	112	1.9
* HY-P-032	32	38	1.25	HY-P-105	105	115	1.9
* HY-P-034	34	40	1.25	HY-P-110	110	120	1.9
* HY-P-035	35	41	1.25	* HY-P-112	112	122	1.9
* HY-P-035.5	35.5	41.5	1.25	HY-P-115	115	125	1.9
* HY-P-036	36	42	1.25	HY-P-120	120	130	1.9
* HY-P-038	38	44	1.25	HY-P-125	125	135	1.9
* HY-P-039	39	45	1.25	HY-P-130	130	140	1.9
HY-P-040	40	46	1.25	HY-P-131	131	141	1.9
* HY-P-041	41	47	1.25	* HY-P-132	132	142	1.9
* HY-P-134	134	144	1.9	* HY-P-300	300	315	2.1
HY-P-135	135	145	1.9	* HY-P-315	315	330	2.1

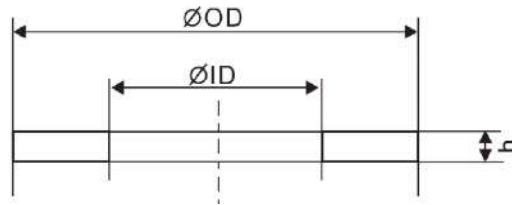
HY-P BACKUP RING



APPLICATION	
MATERIAL	HY
TEMP.	-40°C~100°C

ITEM	ID	OD	h	ITEM	ID	OD	h
HY-P-140	140	150	1.9	* HY-P-320	320	335	2.1
* HY-P-144	144	154	1.9	* HY-P-335	335	350	2.1
HY-P-145	145	155	1.9	* HY-P-340	340	355	2.1
HY-P-150	150	160	1.9	* HY-P-355	355	370	2.1
HY-P-152	152	162	1.9	* HY-P-360	360	375	2.1
* HY-P-172	172	182	1.9	* HY-P-375	375	390	2.1
* HY-P-192	192	202	1.9	* HY-P-385	385	400	2.1
HY-P-145A	145	160	2.1	* HY-P-400	400	415	2.1
* HY-P-150A	150	165	2.1	HY-P-110	110	120	2.5
* HY-P-155	155	170	2.1	HY-P-115	115	125	2.5
* HY-P-160	160	175	2.1	HY-P-125	125	135	2.5
* HY-P-165	165	180	2.1	HY-P-155	155	170	2.5
* HY-P-170	170	185	2.1	HY-P-150	150		2.75
* HY-P-175	175	190	2.1	HY-P-160	160	175	2.75
* HY-P-180	180	195	2.1	* HY-P-165	165	180	2.75
* HY-P-185	185	200	2.1	HY-P-170	170	185	2.75
* HY-P-190	190	205	2.1	* HY-P-175	175		2.75
HY-P-195	195	210	2.1	HY-P-180	180	195	2.75
* HY-P-200	200	215	2.1	* HY-P-185	185	200	2.75
* HY-P-205	205	220	2.1	* HY-P-190	190	215	2.75
* HY-P-209	209	224	2.1	* HY-P-195	195	210	2.75
* HY-P-210	210	225	2.1	* HY-P-200	200	215	2.75
* HY-P-215	215	230	2.1	* HY-P-205	205	220	2.75
* HY-P-220	220	235	2.1	* HY-P-209	209	224	2.75
* HY-P-225	225	240	2.1	* HY-P-210	210	225	2.75
* HY-P-230	230	245	2.1	* HY-P-215	215	230	2.75
* HY-P-235	235	250	2.1	* HY-P-220	220	235	2.75
* HY-P-240	240	255	2.1	* HY-P-225	225	240	2.75
* HY-P-245	245	260	2.1	* HY-P-230	230	245	2.75
* HY-P-250	250	265	2.1	* HY-P-235	235	250	2.75
* HY-P-255	255	270	2.1	* HY-P-240	240	255	2.75
* HY-P-260	260	275	2.1	* HY-P-245	245	260	2.75
* HY-P-265	265	280	2.1	* HY-P-255	255	270	2.75
* HY-P-270	270	285	2.1	* HY-P-260	260	275	2.75
* HY-P-275	275	290	2.1	* HY-P-265	265	280	2.75
* HY-P-280	280	295	2.1	* HY-P-270	270	285	2.75
* HY-P-285	285	300	2.1	* HY-P-275	275	290	2.75
* HY-P-290	290	305	2.1	* HY-P-280	280	295	2.75
* HY-P-295	295	310	2.1	* HY-P-285	285	300	2.75
* HY-P-290	290	305	2.75	* HY-P-315	315	330	2.75
* HY-P-295	295	310	2.75	* HY-P-320	320	335	2.75
* HY-P-300	300	315	2.75				

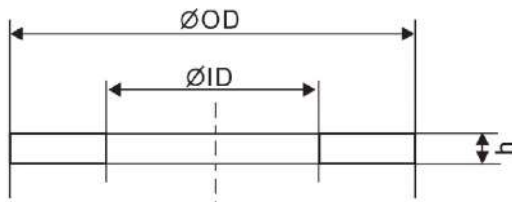
HY-G BACKUP RING



APPLICATION	
MATERIAL	HY
TEMP.	-40°C~100°C

ITEM	ID	OD	h	ITEM	ID	OD	h
* HY-G-014	14	18	1.25	HY-G-136	136	141	1.25
HY-G-025	25	30	1.25	HY-G-140	140	145	1.25
HY-G-030	30	35	1.25	HY-G-145	145	150	1.25
HY-G-035	35	40	1.25	* HY-G-146	146	151	1.25
HY-G-038	38	43	1.25	HY-G-045A	45	50	1.5
HY-G-040	40	45	1.25	HY-G-050A	50	55	1.5
HY-G-045	45	50	1.25	HY-G-055A	55	60	1.5
HY-G-050	50	55	1.25	HY-G-060A	60	65	1.5
HY-G-051	51	56	1.25	HY-G-065A	65	70	1.5
HY-G-055	55	60	1.25	HY-G-070A	70	75	1.5
HY-G-056	56	61	1.25	HY-G-075A	75	80	1.5
HY-G-058	58	63	1.25	HY-G-080A	80	85	1.5
HY-G-060	60	65	1.25	HY-G-085A	85	90	1.5
* HY-G-063	63	68	1.25	HY-G-090A	90	95	1.5
HY-G-065	65	70	1.25	HY-G-095A	95	100	1.5
HY-G-066	66	71	1.25	HY-G-100A	100	105	1.5
HY-G-070	70	75	1.25	HY-G-105A	105	110	1.5
HY-G-071	71	76	1.25	HY-G-106	106	111	1.5
HY-G-075	75	80	1.25	HY-G-110A	110	115	1.5
HY-G-076	76	81	1.25	HY-G-115A	115	120	1.5
HY-G-080	80	85	1.25	HY-G-120A	120	125	1.5
HY-G-081	81	86	1.25	HY-G-125A	125	130	1.5
HY-G-085	85	90	1.25	HY-G-126A	126	131	1.5
HY-G-086	86	91	1.25	HY-G-130A	130	135	1.5
* HY-G-087	87	92	1.25	HY-G-135A	135	140	1.5
HY-G-090	90	95	1.25	HY-G-140A	140	145	1.5
HY-G-091	91	96	1.25	HY-G-145A	145	150	1.5
HY-G-095	95	100	1.25	HY-G-155A	155	165	1.5
HY-G-096	96	101	1.25	HY-G-160A	160	170	1.5
HY-G-100	100	105	1.25	HY-G-080	80	85	1.9
HY-G-105	105	110	1.25	HY-G-085	85	90	1.9
HY-G-106	106	111	1.25	HY-G-090	90	95	1.9
HY-G-108	108	113	1.25	HY-G-095	95	100	1.9
HY-G-110	110	115	1.25	HY-G-110	110	115	1.9
HY-G-115	115	120	1.25	* HY-G-150	150	160	1.9
HY-G-116	116	121	1.25	HY-G-155	155	165	1.9
HY-G-120	120	125	1.25	HY-G-160	160	170	1.9
HY-G-125	125	130	1.25	HY-G-165	165	175	1.9
HY-G-126	126	131	1.25	HY-G-170	170	180	1.9
HY-G-128	128	133	1.25	HY-G-175	175	185	1.9
HY-G-130	130	135	1.25	HY-G-180	180	190	1.9
HY-G-135	135	140	1.25	HY-G-185	185	195	1.9

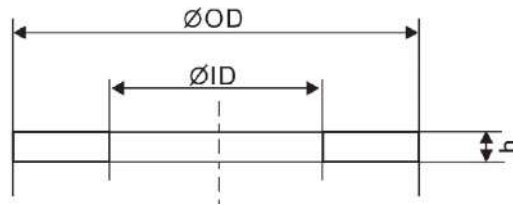
HY-G BACKUP RING



APPLICATION	
MATERIAL	HY
TEMP.	-40°C~100°C

ITEM	ID	OD	h	ITEM	ID	OD	h
HY-G-190	190	200	1.9	HY-G-161	161	170.56	1.95
HY-G-195	195	205	1.9	* HY-G-155A	155	165	2.5
HY-G-200	200	210	1.9	HY-G-160A	160	170	2.5
HY-G-210	210	220	1.9	* HY-G-170A	170	180	2.5
HY-G-220	220	230	1.9	HY-G-180A	180	190	2.5
* HY-G-230	230	240	1.9	* HY-G-190A	190	200	2.5
* HY-G-240	240	250	1.9	HY-G-205A	205	215	2.5
HY-G-250	250	260	1.9	* HY-G-215A	215	225	2.5
* HY-G-260	260	270	1.9	* HY-G-220A	220	230	2.5
* HY-G-270	270	280	1.9	* HY-G-230A	230	240	2.5
* HY-G-280	280	290	1.9	* HY-G-240A	240	250	2.5
* HY-G-290	290	300	1.9	* HY-G-250A	250	260	2.5
* HY-G-300	300	310	1.9	* HY-G-270A	270	280	2.5

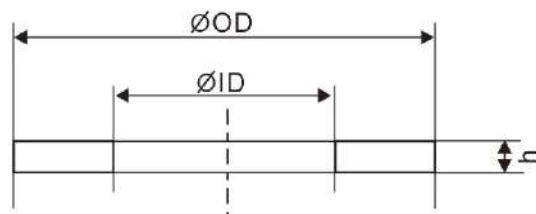
HY BACKUP RING



APPLICATION	
MATERIAL	HY
TEMP.	-35°C~80°C

ITEM	ID	OD	h	ITEM	ID	OD	h
* HY-025	25	33	1	HY-050	50	60	2
HY-252.66	252.66	258.46	1.09	HY-050	50	63	2
HY-017.5	17.5	19.9	1.16	HY-050	50	65	2
HY-021.1	21.1	24.9	1.16	HY-053	53	63	2
HY-017.3	17.3	19.7	1.2	HY-055	55	70	2
HY-020.7	20.7	24.5	1.2	HY-060	60	70	2
HY-022	22	30	1.25	* HY-065	65	75	2
HY-025	25	33	1.25	HY-065	65	80	2
HY-030	30	40	1.5	HY-070	70	80	2
HY-030	30	45	1.5	HY-075	75	90	2
HY-030.2	30.2	42.7	1.5	* HY-075	75	95	2
HY-035	35	45	1.5	HY-080	80	90	2
HY-036	36	44	1.5	HY-080	80	95	2
HY-040	40	50	1.5	HY-085	85	100	2
HY-042	42	52	1.5	HY-090	90	105	2
HY-050	50	60	1.5	HY-100	100	115	2
HY-070	70	80	1.5	HY-225.5	225.5	240.5	2.1
HY-080	80	90	1.5	HY-040	40	50	2.5
HY-014	14	22	2	HY-045	45	55	2.5
HY-016	16	24	2	HY-060	60	70	2.5
HY-020	20	28	2	HY-065	65	75	2.5
HY-022	22	30	2	HY-070	70	80	2.5
HY-025	25	33	2	HY-072	72	85	2.5
HY-025	25	35	2	HY-082	82	95	2.5
HY-030	30	40	2	HY-025	25	33	3
HY-030	30	45	2	HY-030	30	40	3
HY-032	32	42	2	HY-030	30	43	3
HY-032	32	48	2	HY-032	32	48	3
HY-035	35	45	2	HY-035	35	45	3
HY-038	38	48	2	HY-037	37	48	3
HY-040	40	50	2	HY-040	40	53	3
HY-040	40	53	2	HY-050	50	66	3
HY-040	40	60	2	HY-060	60	70	3
HY-042	42	51	2	* HY-090	90	105	3
HY-042	42	55	2	HY-085	85	95	3.8
HY-044	44	50	2	HY-012	12	17	4
HY-045	45	55	2	* HY-352	352	1.52	4.3
HY-045	45	60	2				
(INCH)							
HY-1.125	1.125	1.5	0.066	HY-1.875	1.875	2.25	0.08
HY-2.25	2.25	2.75	0.08				

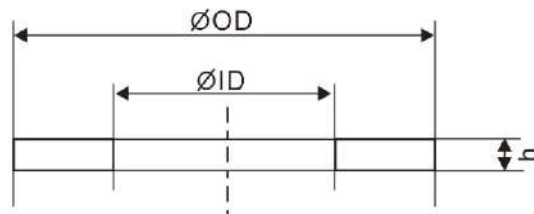
BACKUP RING—4F-P SERIES



APPLICATION	
MATERIAL	PTFE
TEMP.	-55°C~200°C

ITEM	ID	OD	W	h	ITEM	ID	OD	W	h
4F-P-003	3	6	1.5	1.25	4F-P-040	40	46	3	1.25
4F-P-004	4	7	1.5	1.25	4F-P-041	41	47	3	1.25
4F-P-005	5	8	1.5	1.25	4F-P-042	42	48	3	1.25
4F-P-006	6	9	1.5	1.25	4F-P-044	44	50	3	1.25
4F-P-007	7	10	1.5	1.25	4F-P-045	45	51	3	1.25
4F-P-008	8	11	1.5	1.25	4F-P-046	46	52	3	1.25
4F-P-009	9	12	1.5	1.25	4F-P-048	48	54	3	1.25
4F-P-010	10	13	1.5	1.25	4F-P-049	49	55	3	1.25
4F-P-010A	10	14	2	1.25	4F-P-050	50	56	3	1.25
4F-P-011	11	15	2	1.25	4F-P-018	18	22	2	1.5
4F-P-011.2	11.2	15.2	2	1.25	4F-P-105	105	111	3	1.5
4F-P-012	12	16	2	1.25	4F-P-048	48	58	5	1.9
4F-P-012.5	12.5	16.5	2	1.25	4F-P-050	50	60	5	1.9
4F-P-014	14	18	2	1.25	4F-P-052	52	62	5	1.9
4F-P-015	15	19	2	1.25	4F-P-053	53	63	5	1.9
4F-P-016	16	20	2	1.25	4F-P-055	55	65	5	1.9
4F-P-017	17	21	2	1.25	4F-P-056	56	66	5	1.9
4F-P-018	18	22	2	1.25	4F-P-058	58	68	5	1.9
4F-P-019	19	23	2	1.25	4F-P-060	60	70	5	1.9
4F-P-020	20	24	2	1.25	4F-P-062	62	72	5	1.9
4F-P-021	21	25	2	1.25	4F-P-063	63	73	5	1.9
4F-P-022	22	26	2	1.25	4F-P-065	65	75	5	1.9
4F-P-022A	22	28	3	1.25	4F-P-067	67	77	5	1.9
4F-P-022.4	22.4	28.4	3	1.25	4F-P-070	70	80	5	1.9
4F-P-024	24	30	3	1.25	4F-P-071	71	81	5	1.9
4F-P-025	25	31	3	1.25	4F-P-075	75	85	5	1.9
4F-P-025.5	25.5	31.5	3	1.25	4F-P-080	80	90	5	1.9
4F-P-026	26	32	3	1.25	4F-P-085	85	95	5	1.9
4F-P-028	28	34	3	1.25	4F-P-090	90	100	5	1.9
4F-P-029	29	35	3	1.25	4F-P-095	95	105	5	1.9
4F-P-029.5	29.5	35.5	3	1.25	4F-P-100	100	110	5	1.9
4F-P-030	30	36	3	1.25	4F-P-102	102	112	5	1.9
4F-P-031	31	37	3	1.25	4F-P-105	105	115	5	1.9
4F-P-031.5	31.5	37.5	3	1.25	4F-P-110	110	120	5	1.9
4F-P-032	32	38	3	1.25	4F-P-112	112	122	5	1.9
4F-P-034	34	40	3	1.25	4F-P-115	115	125	5	1.9
4F-P-035	35	41	3	1.25	4F-P-120	120	130	5	1.9
4F-P-035.5	35.5	41.5	3	1.25	4F-P-125	125	135	5	1.9
4F-P-036	36	42	3	1.25	4F-P-130	130	140	5	1.9
4F-P-038	38	44	3	1.25	4F-P-132	132	142	5	1.9
4F-P-039	39	45	3	1.25	4F-P-135	135	145	5	1.9

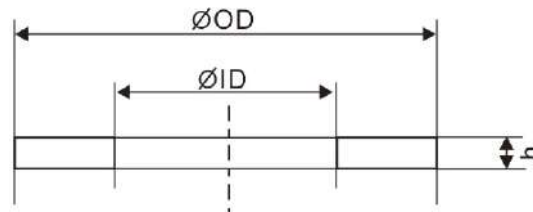
BACKUP RING—4F-P SERIES



APPLICATION	
MATERIAL	PTFE
TEMP.	-55°C~200°C

ITEM	ID	OD	W	h	ITEM	ID	OD	W	h
4F-P-140	140	150	5	1.9	4F-P-345	345	360	7.5	2.75
4F-P-145	145	155	5	1.9	4F-P-355	355	370	7.5	2.75
4F-P-150	150	160	5	1.9	4F-P-360	360	375	7.5	2.75
4F-P-150A	150	165	7.5	2.75	4F-P-375	375	390	7.5	2.75
4F-P-155	155	170	7.5	2.75	4F-P-385	385	400	7.5	2.75
4F-P-160	160	175	7.5	2.75	4F-P-400	400	415	7.5	2.75
4F-P-165	165	180	7.5	2.75	4F-P-405	405	420	7.5	3
4F-P-170	170	185	7.5	2.75	4F-P-410	410	425	7.5	3
4F-P-175	175	190	7.5	2.75	4F-P-415	415	430	7.5	3
4F-P-180	180	195	7.5	2.75	4F-P-420	420	435	7.5	3
4F-P-185	185	200	7.5	2.75	4F-P-425	425	440	7.5	3
4F-P-190	190	205	7.5	2.75	4F-P-430	430	445	7.5	3
4F-P-195	195	210	7.5	2.75	4F-P-435	435	450	7.5	3
4F-P-200	200	215	7.5	2.75	4F-P-440	440	455	7.5	3
4F-P-205	205	220	7.5	2.75	4F-P-445	445	460	7.5	3
4F-P-209	209	224	7.5	2.75	4F-P-450	450	465	7.5	3
4F-P-210	210	225	7.5	2.75	4F-P-455	455	470	7.5	3
4F-P-215	215	230	7.5	2.75	4F-P-460	460	475	7.5	3
4F-P-220	220	235	7.5	2.75	4F-P-465	465	480	7.5	3
4F-P-225	225	240	7.5	2.75	4F-P-470	470	485	7.5	3
4F-P-230	230	245	7.5	2.75	4F-P-475	475	490	7.5	3
4F-P-235	235	250	7.5	2.75	4F-P-480	480	495	7.5	3
4F-P-240	240	255	7.5	2.75	4F-P-485	485	500	7.5	3
4F-P-245	245	260	7.5	2.75	4F-P-490	490	505	7.5	3
4F-P-250	250	265	7.5	2.75	4F-P-495	495	510	7.5	3
4F-P-255	255	270	7.5	2.75	4F-P-500	500	515	7.5	3
4F-P-260	260	275	7.5	2.75	4F-P-260	260	275	7.5	2.75
4F-P-265	265	280	7.5	2.75	4F-P-265	265	280	7.5	2.75
4F-P-270	270	285	7.5	2.75	4F-P-270	270	285	7.5	2.75
4F-P-275	275	290	7.5	2.75	4F-P-275	275	290	7.5	2.75
4F-P-280	280	295	7.5	2.75	4F-P-280	280	295	7.5	2.75
4F-P-285	285	300	7.5	2.75	4F-P-285	285	300	7.5	2.75
4F-P-290	290	305	7.5	2.75	4F-P-290	290	305	7.5	2.75
4F-P-295	295	310	7.5	2.75	4F-P-295	295	310	7.5	2.75
4F-P-300	300	315	7.5	2.75	4F-P-300	300	315	7.5	2.75
4F-P-305	305	320	7.5	2.75	4F-P-305	305	320	7.5	2.75
4F-P-310	310	325	7.5	2.75	4F-P-310	310	325	7.5	2.75
4F-P-315	315	330	7.5	2.75	4F-P-315	315	330	7.5	2.75
4F-P-320	320	335	7.5	2.75	4F-P-320	320	335	7.5	2.75
4F-P-335	335	350	7.5	2.75	4F-P-335	335	350	7.5	2.75
4F-P-340	340	355	7.5	2.75	4F-P-340	340	355	7.5	2.75

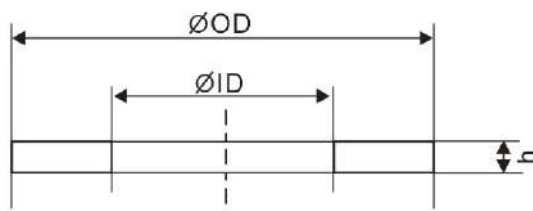
BACKUP RING—4F-G SERIES



APPLICATION	
MATERIAL	PTFE
TEMP.	-55°C~200°C

ITEM	ID	OD	W	h	ITEM	ID	OD	W	h
4F-G-025	25	30	2.5	1.25	4F-G-110	110	115	2.5	1.5
4F-G-026	26	31	2.5	1.25	4F-G-115	115	120	2.5	1.5
4F-G-028	28	32	2	1.25	4F-G-120	120	125	2.5	1.5
4F-G-030	30	35	2.5	1.25	4F-G-125	125	130	2.5	1.5
4F-G-035	35	40	2.5	1.25	4F-G-130	130	135	2.5	1.5
4F-G-040	40	45	2.5	1.25	4F-G-135	135	140	2.5	1.5
4F-G-042	42	47	2.5	1.25	4F-G-140	140	145	2.5	1.5
4F-G-043	43	48	2.5	1.25	4F-G-145	145	150	2.5	1.5
4F-G-045	45	50	2.5	1.25	4F-G-155	155	165	5	1.5
4F-G-050	50	55	2.5	1.25	4F-G-110	110	115	2.5	1.9
4F-G-055	55	60	2.5	1.25	4F-G-150	150	160	5	1.9
4F-G-058	58	63	2.5	1.25	4F-G-155	155	165	5	1.9
4F-G-060	60	65	2.5	1.25	4F-G-160	160	170	5	1.9
4F-G-063	63	68	2.5	1.25	4F-G-165	165	175	5	1.9
4F-G-065	65	70	2.5	1.25	4F-G-170	170	180	5	1.9
4F-G-067	67	72	2.5	1.25	4F-G-175	175	185	5	1.9
4F-G-070	70	75	2.5	1.25	4F-G-180	180	190	5	1.9
4F-G-072	72	77	2.5	1.25	4F-G-185	185	195	5	1.9
4F-G-075	75	80	2.5	1.25	4F-G-190	190	200	5	1.9
4F-G-080	80	85	2.5	1.25	4F-G-195	195	205	5	1.9
4F-G-085	85	90	2.5	1.25	4F-G-200	200	210	5	1.9
4F-G-090	90	95	2.5	1.25	4F-G-210	210	220	5	1.9
4F-G-095	95	100	2.5	1.25	4F-G-215	215	225	5	1.9
4F-G-100	100	105	2.5	1.25	4F-G-220	220	230	5	1.9
4F-G-105	105	110	2.5	1.25	4F-G-230	230	240	5	1.9
4F-G-110	110	115	2.5	1.25	4F-G-240	240	250	5	1.9
4F-G-115	115	120	2.5	1.25	4F-G-250	250	260	5	1.9
4F-G-120	120	125	2.5	1.25	4F-G-260	260	270	5	1.9
4F-G-125	125	130	2.5	1.25	4F-G-270	270	280	5	1.9
4F-G-130	130	135	2.5	1.25	4F-G-280	280	290	5	1.9
4F-G-135	135	140	2.5	1.25	4F-G-290	290	300	5	1.9
4F-G-140	140	145	2.5	1.25	4F-G-300	300	310	5	1.9
4F-G-145	145	150	2.5	1.25	4F-G-305	305	315	5	1.9
4F-G-040	40	45	2.5	1.5	4F-G-310	310	320	5	1.9
4F-G-070	70	75	2.5	1.5	4F-G-315	315	325	5	2
4F-G-080	80	85	2.5	1.5	4F-G-320	320	330	5	2
4F-G-085	85	90	2.5	1.5	4F-G-325	325	335	5	2
4F-G-090	90	95	2.5	1.5	4F-G-330	330	340	5	2
4F-G-095	95	100	2.5	1.5	4F-G-335	335	345	5	2
4F-G-100	100	105	2.5	1.5	4F-G-340	340	350	5	2
4F-G-105	105	110	2.5	1.5	4F-G-345	345	355	5	2

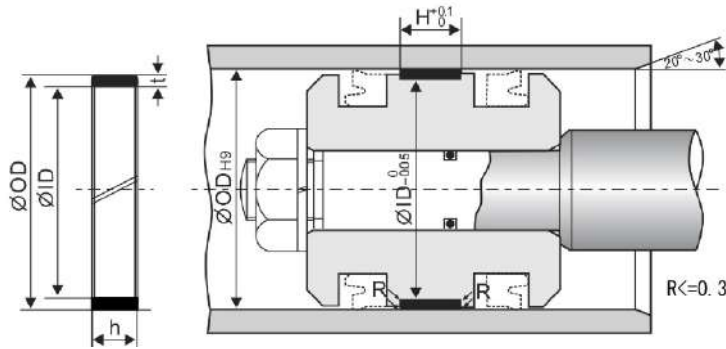
BACKUP RING—4F-G SERIES



APPLICATION	
MATERIAL	PTFE
TEMP.	-55°C~200°C

ITEM	ID	OD	W	h	ITEM	ID	OD	W	h
4F-G-350	350	360	5	2	4F-G-430	430	440	5	2
4F-G-355	355	365	5	2	4F-G-435	435	445	5	2
4F-G-360	360	370	5	2	4F-G-440	440	450	5	2
4F-G-365	365	375	5	2	4F-G-445	445	455	5	2
4F-G-370	370	380	5	2	4F-G-450	450	460	5	2
4F-G-375	375	385	5	2	4F-G-455	455	465	5	2
4F-G-380	380	390	5	2	4F-G-460	460	470	5	2
4F-G-385	385	395	5	2	4F-G-465	465	475	5	2
4F-G-390	390	400	5	2	4F-G-470	470	480	5	2
4F-G-395	395	405	5	2	4F-G-475	475	485	5	2
4F-G-400	400	410	5	2	4F-G-480	480	490	5	2
4F-G-405	405	415	5	2	4F-G-485	485	495	5	2
4F-G-410	410	420	5	2	4F-G-490	490	500	5	2
4F-G-415	415	425	5	2	4F-G-495	495	505	5	2
4F-G-420	420	430	5	2	4F-G-500	500	510	5	2
4F-G-425	425	435	5	2					

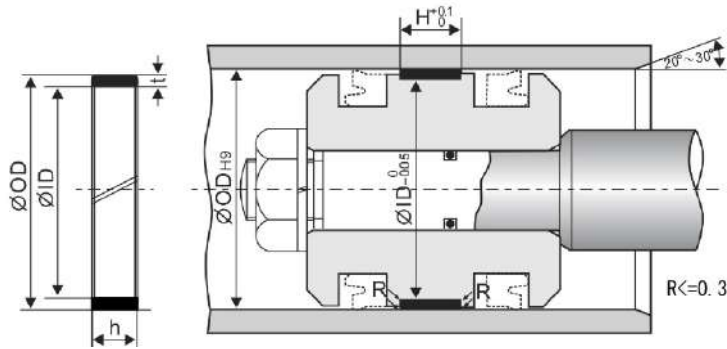
WRNF WEAR RING



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-50°C~120°C
SPEED	1m/s

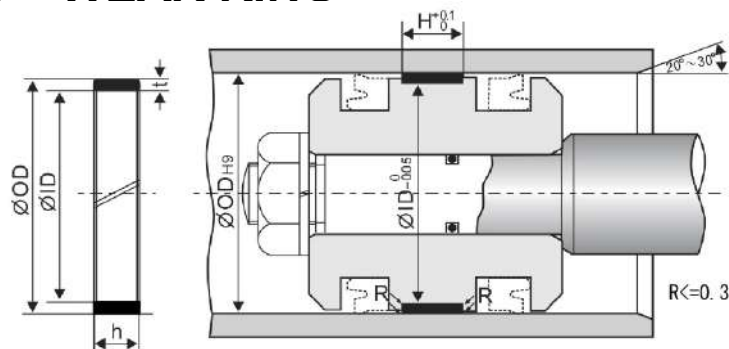
ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-040	40	37.7	4.9	1.15	WRNF-045	45	41	19.8	2.00
WRNF-050	50	47	7.8	1.50	WRNF-050	50	46	19.8	2.00
WRNF-055	55	52	7.8	1.50	WRNF-025	25	20	4.8	2.50
WRNF-035	35	32	14.8	1.50	WRNF-035	35	30	4.8	2.50
WRNF-048	48	45	22.3	1.50	WRNF-030	35	30	4.8	2.50
WRNF-053	53	50	24.4	1.50	WRNF-040	40	35	4.8	2.50
WRNF-040	40	36	5.8	2.00	WRNF-070	70	65	4.8	2.50
WRNF-050	50	46	5.8	2.00	WRNF-060	60	55	5.3	2.50
WRNF-063	63	59	5.8	2.00	WRNF-070	70	65	5.3	2.50
WRNF-090	90	86	6.0	2.00	WRNF-080	80	75	5.3	2.50
WRNF-034	34	30	7.8	2.00	WRNF-048	48	43	5.4	2.50
WRNF-040	40	36	7.8	2.00	WRNF-063	63	58	5.4	2.50
WRNF-050	50	46	7.8	2.00	WRNF-033	33	28	5.5	2.50
WRNF-055	55	51	7.8	2.00	WRNF-037	37	32	5.5	2.50
WRNF-030	30	26	7.9	2.00	WRNF-040	40	35	5.5	2.50
WRNF-029	29	25	9.5	2.00	WRNF-050	50	45	5.5	2.50
WRNF-045	45	41	9.5	2.00	WRNF-063	63	58	5.5	2.50
WRNF-050	50	46	9.5	2.00	WRNF-065	65	60	5.6	2.50
WRNF-044	44	40	9.6	2.00	WRNF-075	75	70	5.8	2.50
WRNF-049	49	45	9.7	2.00	WRNF-090	90	85	5.9	2.50
WRNF-054	54	50	9.7	2.00	WRNF-100	100	95	5.9	2.50
WRNF-063	63	59	9.7	2.00	WRNF-110	110	105	5.9	2.50
WRNF-064	64	60	9.7	2.00	WRNF-085	85	80	6.0	2.50
WRNF-100	100	96	9.7	2.00	WRNF-070	70	65	6.9	2.50
WRNF-125	125	121	9.7	2.00	WRNF-055	55	50	7.7	2.50
WRNF-035	35	31	9.8	2.00	WRNF-063	63	58	7.7	2.50
WRNF-050	50	46	9.8	2.00	WRNF-040	40	35	7.8	2.50
WRNF-062	62	58	9.8	2.00	WRNF-050	50	45	7.8	2.50
WRNF-080	80	76	9.8	2.00	WRNF-060	60	55	7.8	2.50
WRNF-065	65	61	10.0	2.00	WRNF-065	65	60	7.8	2.50
WRNF-045	45	41	11.8	2.00	WRNF-070	70	65	7.8	2.50
WRNF-049	49	45	11.8	2.00	WRNF-080	80	75	7.8	2.50
WRNF-063	63	59	11.8	2.00	WRNF-140	140	135	7.8	2.50
WRNF-039	39	35	12.5	2.00	WRNF-145	145	140	7.8	2.50
WRNF-029	29	25	12.8	2.00	WRNF-150	150	145	7.8	2.50
WRNF-045	45	41	14.8	2.00	WRNF-085	85	80	7.9	2.50
WRNF-050	50	46	14.8	2.00	WRNF-095	95	90	7.9	2.50
WRNF-075	75	71	15.0	2.00	WRNF-100	100	95	7.9	2.50
WRNF-044	44	40	19.8	2.00	WRNF-110	110	105	7.9	2.50

WRNF WEAR RING



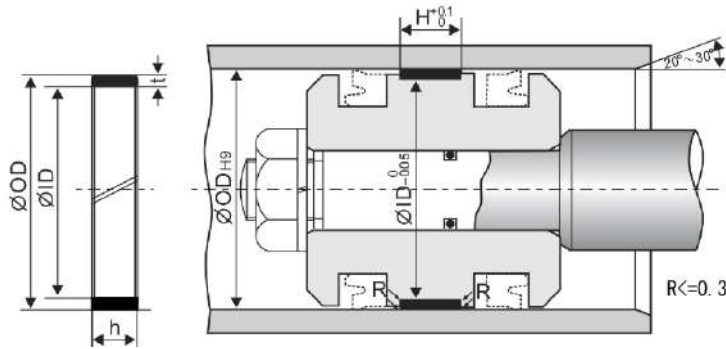
APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-50°C~120°C
SPEED	1m/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-115	115	110	7.9	2.50	WRNF-120	120	115	9.7	2.50
WRNF-120	120	115	7.9	2.50	WRNF-125	125	120	9.7	2.50
WRNF-125	125	120	7.9	2.50	WRNF-130	130	125	9.7	2.50
WRNF-130	130	125	7.9	2.50	WRNF-150	150	145	9.7	2.50
WRNF-135	135	130	7.9	2.50	WRNF-040	40	35	9.8	2.50
WRNF-155	155	150	7.9	2.50	WRNF-045	45	40	9.8	2.50
WRNF-032	32	27	8.9	2.50	WRNF-055	55	50	9.8	2.50
WRNF-037	37	32	8.9	2.50	WRNF-170	170	165	9.8	2.50
WRNF-055	55	50	9.4	2.50	WRNF-175	175	170	9.8	2.50
WRNF-030	30	25	9.5	2.50	WRNF-185	185	180	9.8	2.50
WRNF-035	35	30	9.5	2.50	WRNF-080	80	75	10.0	2.50
WRNF-041	41	36	9.5	2.50	WRNF-100	100	95	11.5	2.50
WRNF-045	45	40	9.5	2.50	WRNF-135	135	130	12.3	2.50
WRNF-050	50	45	9.5	2.50	WRNF-150	150	145	12.3	2.50
WRNF-055	55	50	9.5	2.50	WRNF-170	170	165	12.3	2.50
WRNF-060	60	55	9.5	2.50	WRNF-140	140	135	12.5	2.50
WRNF-061	61	56	9.5	2.50	WRNF-055	55	50	12.7	2.50
WRNF-063	63	58	9.5	2.50	WRNF-063	63	58	12.8	2.50
WRNF-065	65	60	9.5	2.50	WRNF-080	80	75	12.8	2.50
WRNF-068	68	63	9.5	2.50	WRNF-090	90	85	12.8	2.50
WRNF-070	70	65	9.5	2.50	WRNF-100	100	95	12.8	2.50
WRNF-075	75	70	9.5	2.50	WRNF-068	68	63	14.7	2.50
WRNF-080	80	75	9.5	2.50	WRNF-040	40	35	14.8	2.50
WRNF-085	85	80	9.5	2.50	WRNF-045	45	40	14.8	2.50
WRNF-090	90	85	9.5	2.50	WRNF-050	50	45	14.8	2.50
WRNF-100	100	95	9.5	2.50	WRNF-055	55	50	14.8	2.50
WRNF-105	105	100	9.5	2.50	WRNF-060	60	55	14.8	2.50
WRNF-110	110	105	9.5	2.50	WRNF-063	63	58	14.8	2.50
WRNF-115	115	110	9.5	2.50	WRNF-065	65	60	14.8	2.50
WRNF-120	120	115	9.5	2.50	WRNF-070	70	65	14.8	2.50
WRNF-125	125	120	9.5	2.50	WRNF-075	75	70	14.8	2.50
WRNF-135	135	130	9.5	2.50	WRNF-080	80	75	14.8	2.50
WRNF-140	140	135	9.5	2.50	WRNF-090	90	85	14.8	2.50
WRNF-145	145	140	9.5	2.50	WRNF-095	95	90	14.8	2.50
WRNF-170	170	165	9.5	2.50	WRNF-100	100	95	14.8	2.50
WRNF-190	190	185	9.5	2.50	WRNF-110	110	105	14.8	2.50
WRNF-090	90	85	9.7	2.50	WRNF-115	115	110	14.8	2.50
WRNF-110	110	105	9.7	2.50	WRNF-120	120	115	14.8	2.50
WRNF-115	115	110	9.7	2.50	WRNF-125	125	120	14.8	2.50



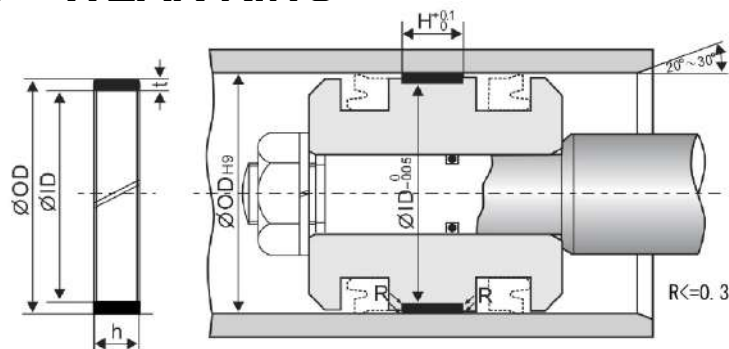
ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-130	130	125	14.8	2.50	WRNF-130	130	125	19.8	2.50
WRNF-135	135	130	14.8	2.50	WRNF-135	135	130	19.8	2.50
WRNF-140	140	135	14.8	2.50	WRNF-140	140	135	19.8	2.50
WRNF-145	145	140	14.8	2.50	WRNF-145	145	140	19.8	2.50
WRNF-150	150	145	14.8	2.50	WRNF-150	150	145	19.8	2.50
WRNF-155	155	150	14.8	2.50	WRNF-155	155	150	19.8	2.50
WRNF-165	165	160	14.8	2.50	WRNF-160	160	155	19.8	2.50
WRNF-170	170	165	14.8	2.50	WRNF-165	165	160	19.8	2.50
WRNF-175	175	170	14.8	2.50	WRNF-180	180	175	19.8	2.50
WRNF-190	190	185	14.8	2.50	WRNF-190	190	185	19.8	2.50
WRNF-200	200	195	14.8	2.50	WRNF-200	200	195	19.8	2.50
WRNF-220	220	215	14.8	2.50	WRNF-215	215	210	19.8	2.50
WRNF-230	230	225	14.8	2.50	WRNF-250	250	245	19.8	2.50
WRNF-250	250	245	14.8	2.50	WRNF-063	63	58	20.0	2.50
WRNF-300	300	295	14.8	2.50	WRNF-070	70	65	20.0	2.50
WRNF-045	45	40	15.0	2.50	WRNF-071	71	66	20.0	2.50
WRNF-050	50	45	15.0	2.50	WRNF-085	85	80	20.0	2.50
WRNF-085	85	80	15.0	2.50	WRNF-110	110	105	20.0	2.50
WRNF-115	115	110	15.0	2.50	WRNF-125	125	120	20.0	2.50
WRNF-135	135	130	15.0	2.50	WRNF-140	140	135	20.0	2.50
WRNF-140	140	135	15.0	2.50	WRNF-055	55	50	24.8	2.50
WRNF-160	160	155	15.0	2.50	WRNF-065	65	60	24.8	2.50
WRNF-130	130	125	15.7	2.50	WRNF-070	70	65	24.8	2.50
WRNF-055	55	50	15.8	2.50	WRNF-075	75	70	24.8	2.50
WRNF-045	45	40	19.8	2.50	WRNF-090	90	85	24.8	2.50
WRNF-050	50	45	19.8	2.50	WRNF-105	105	100	24.8	2.50
WRNF-060	60	55	19.8	2.50	WRNF-110	110	105	24.8	2.50
WRNF-065	65	60	19.8	2.50	WRNF-120	120	115	24.8	2.50
WRNF-070	70	65	19.8	2.50	WRNF-125	125	120	24.8	2.50
WRNF-071	71	66	19.8	2.50	WRNF-130	130	125	24.8	2.50
WRNF-075	75	70	19.8	2.50	WRNF-135	135	130	24.8	2.50
WRNF-080	80	75	19.8	2.50	WRNF-145	145	140	24.8	2.50
WRNF-085	85	80	19.8	2.50	WRNF-155	155	150	24.8	2.50
WRNF-090	90	85	19.8	2.50	WRNF-160	160	155	24.8	2.50
WRNF-100	100	95	19.8	2.50	WRNF-175	175	170	24.8	2.50
WRNF-105	105	100	19.8	2.50	WRNF-195	195	190	24.8	2.50
WRNF-110	110	105	19.8	2.50	WRNF-200	200	195	24.8	2.50
WRNF-115	115	110	19.8	2.50	WRNF-205	205	200	24.8	2.50
WRNF-120	120	115	19.8	2.50	WRNF-225	225	220	24.8	2.50

WRNF WEAR RING



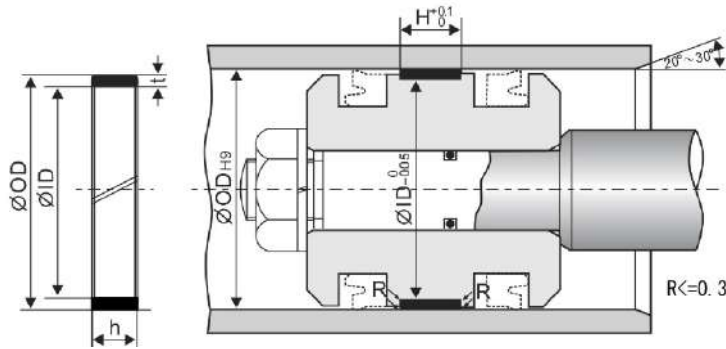
APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-50°C~120°C
SPEED	1m/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-235	235	230	24.8	2.50	WRNF-085	85	79	9.8	3.00
WRNF-240	240	235	24.8	2.50	WRNF-090	90	84	9.8	3.00
WRNF-250	250	245	24.8	2.50	WRNF-095	95	89	9.8	3.00
WRNF-300	300	295	24.8	2.50	WRNF-100	100	94	9.8	3.00
WRNF-060	60	55	25.0	2.50	WRNF-105	105	99	9.8	3.00
WRNF-085	85	80	25.0	2.50	WRNF-110	110	104	9.8	3.00
WRNF-100	100	95	25.0	2.50	WRNF-115	115	109	9.8	3.00
WRNF-185	185	180	25.0	2.50	WRNF-120	120	114	9.8	3.00
WRNF-190	190	185	25.0	2.50	WRNF-150	150	144	9.8	3.00
WRNF-055	55	50	29.3	2.50	WRNF-155	155	149	9.8	3.00
WRNF-170	170	165	44.8	2.50	WRNF-165	165	159	9.8	3.00
WRNF-080	80	74	4.9	3.00	WRNF-200	200	194	9.8	3.00
WRNF-085	85	79	5.8	3.00	WRNF-055	55	49	10.5	3.00
WRNF-065	65	59	5.9	3.00	WRNF-120	120	114	11.1	3.00
WRNF-075	75	69	5.9	3.00	WRNF-080	80	74	11.8	3.00
WRNF-080	80	74	5.9	3.00	WRNF-130	130	124	12.0	3.00
WRNF-100	100	94	5.9	3.00	WRNF-085	85	79	12.3	3.00
WRNF-110	110	104	5.9	3.00	WRNF-090	90	84	12.3	3.00
WRNF-120	120	114	5.9	3.00	WRNF-095	95	89	12.3	3.00
WRNF-050	50	44	7.8	3.00	WRNF-100	100	94	12.3	3.00
WRNF-055	55	49	7.8	3.00	WRNF-105	105	99	12.3	3.00
WRNF-095	95	89	7.9	3.00	WRNF-060	60	54	12.5	3.00
WRNF-100	100	94	8.8	3.00	WRNF-070	70	64	12.5	3.00
WRNF-055	55	49	9.4	3.00	WRNF-075	75	69	12.5	3.00
WRNF-046	46	40	9.5	3.00	WRNF-080	80	74	12.5	3.00
WRNF-050	50	44	9.5	3.00	WRNF-090	90	84	12.5	3.00
WRNF-051	51	45	9.5	3.00	WRNF-093	93	87	12.5	3.00
WRNF-051	51	45	9.5	3.00	WRNF-095	95	89	12.5	3.00
WRNF-056	56	50	9.5	3.00	WRNF-110	110	104	12.5	3.00
WRNF-063	63	57	9.5	3.00	WRNF-112	112	106	12.5	3.00
WRNF-075	75	69	9.5	3.00	WRNF-131	131	125	12.5	3.00
WRNF-170	170	164	9.5	3.00	WRNF-126	126	120	12.6	3.00
WRNF-185	185	179	9.5	3.00	WRNF-055	55	49	12.7	3.00
WRNF-045	45	39	9.8	3.00	WRNF-056	56	50	12.7	3.00
WRNF-055	55	49	9.8	3.00	WRNF-066	66	60	12.7	3.00
WRNF-060	60	54	9.8	3.00	WRNF-125	125	119	12.7	3.00
WRNF-065	65	59	9.8	3.00	WRNF-063	63	57	12.8	3.00
WRNF-070	70	64	9.8	3.00	WRNF-065	65	59	12.8	3.00
WRNF-080	80	74	9.8	3.00	WRNF-076	76	70	12.8	3.00



ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-085	85	79	12.8	3.00	WRNF-060	60	54	15.8	3.00
WRNF-086	86	80	12.8	3.00	WRNF-065	65	59	15.8	3.00
WRNF-090	90	84	12.8	3.00	WRNF-070	70	64	15.8	3.00
WRNF-096	96	90	12.8	3.00	WRNF-090	90	84	15.8	3.00
WRNF-100	100	94	12.8	3.00	WRNF-127	127	121	15.8	3.00
WRNF-111	111	105	12.8	3.00	WRNF-170	170	164	18.8	3.00
WRNF-126	126	120	12.8	3.00	WRNF-040	40	34	19.8	3.00
WRNF-136	136	130	12.8	3.00	WRNF-050	50	44	19.8	3.00
WRNF-140	140	134	12.8	3.00	WRNF-055	55	49	19.8	3.00
WRNF-146	146	140	12.8	3.00	WRNF-060	60	54	19.8	3.00
WRNF-150	150	144	12.8	3.00	WRNF-075	75	69	19.8	3.00
WRNF-140	140	134	13.8	3.00	WRNF-080	80	74	19.8	3.00
WRNF-145	45	39	14.8	3.00	WRNF-085	85	79	19.8	3.00
WRNF-050	50	44	14.8	3.00	WRNF-090	90	84	19.8	3.00
WRNF-055	55	49	14.8	3.00	WRNF-095	95	89	19.8	3.00
WRNF-065	65	59	14.8	3.00	WRNF-101	101	95	19.8	3.00
WRNF-080	80	74	14.8	3.00	WRNF-115	115	109	19.8	3.00
WRNF-085	85	79	14.8	3.00	WRNF-125	125	119	19.8	3.00
WRNF-090	90	84	14.8	3.00	WRNF-130	130	124	19.8	3.00
WRNF-095	95	89	14.8	3.00	WRNF-150	150	144	19.8	3.00
WRNF-100	100	94	14.8	3.00	WRNF-165	165	159	19.8	3.00
WRNF-105	105	99	14.8	3.00	WRNF-200	200	194	19.8	3.00
WRNF-110	110	104	14.8	3.00	WRNF-215	215	209	19.8	3.00
WRNF-115	115	109	14.8	3.00	WRNF-250	250	244	19.8	3.00
WRNF-130	130	124	14.8	3.00	WRNF-070	70	64	20.0	3.00
WRNF-150	150	144	14.8	3.00	WRNF-100	100	94	20.0	3.00
WRNF-165	165	159	14.8	3.00	WRNF-110	110	104	22.0	3.00
WRNF-190	190	184	14.8	3.00	WRNF-051	51	45	22.2	3.00
WRNF-200	200	194	14.8	3.00	WRNF-100	100	94	22.4	3.00
WRNF-220	220	214	14.8	3.00	WRNF-120	120	114	22.4	3.00
WRNF-230	230	224	14.8	3.00	WRNF-105	105	99	24.5	3.00
WRNF-250	250	244	14.8	3.00	WRNF-062	62	56	24.8	3.00
WRNF-060	60	54	15.0	3.00	WRNF-069	69	63	24.8	3.00
WRNF-070	70	64	15.0	3.00	WRNF-075	75	69	24.8	3.00
WRNF-075	75	69	15.0	3.00	WRNF-085	85	79	24.8	3.00
WRNF-120	120	114	15.0	3.00	WRNF-095	95	89	24.8	3.00
WRNF-125	125	119	15.0	3.00	WRNF-100	100	94	24.8	3.00
WRNF-065	65	59	15.7	3.00	WRNF-110	110	104	24.8	3.00
WRNF-055	55	49	15.8	3.00	WRNF-115	115	109	24.8	3.00

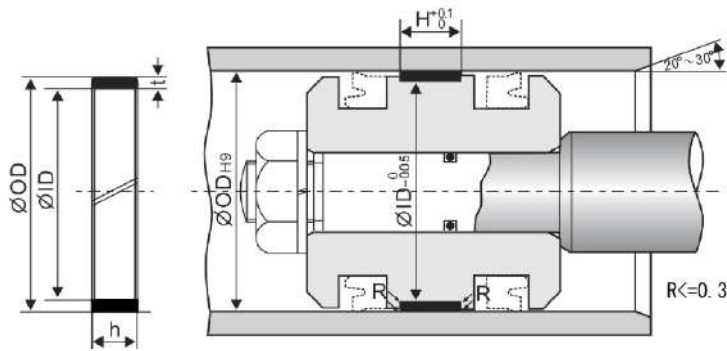
WRNF WEAR RING



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-50°C~120°C
SPEED	1m/s

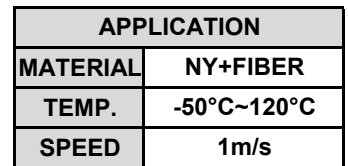
ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-120	120	114	24.8	3.00	WRNF-080	80	73.6	24.3	3.20
WRNF-140	140	134	24.8	3.00	WRNF-090	90	83.4	12.3	3.30
WRNF-150	150	144	24.8	3.00	WRNF-100	100	93.4	16.3	3.30
WRNF-215	215	209	24.8	3.00	WRNF-110	110	103.4	16.3	3.30
WRNF-250	250	244	24.8	3.00	WRNF-080	80	73.4	24.3	3.30
WRNF-056	56	50	25.0	3.00	WRNF-063	63	56.4	16.3	3.30
WRNF-080	80	74	25.0	3.00	WRNF-050	50	43	9.3	3.50
WRNF-090	90	84	25.0	3.00	WRNF-135	135	128	9.5	3.50
WRNF-100	100	94	25.0	3.00	WRNF-130	130	123	9.8	3.50
WRNF-225	225	219	25.0	3.00	WRNF-145	145	138	9.8	3.50
WRNF-069	69	63	29.8	3.00	WRNF-145	145	138	10.0	3.50
WRNF-080	80	74	29.8	3.00	WRNF-110	110	103	12.5	3.50
WRNF-115	115	109	29.8	3.00	WRNF-120	120	113	12.5	3.50
WRNF-120	120	114	29.8	3.00	WRNF-130	130	123	12.5	3.50
WRNF-130	130	124	29.8	3.00	WRNF-130	130	123	14.8	3.50
WRNF-165	165	159	29.8	3.00	WRNF-135	135	128	14.8	3.50
WRNF-190	190	184	29.8	3.00	WRNF-150	150	143	14.8	3.50
WRNF-090	90	84	30.0	3.00	WRNF-145	145	138	15.0	3.50
WRNF-100	100	94	30.0	3.00	WRNF-165	165	158	15.0	3.50
WRNF-110	110	104	30.0	3.00	WRNF-115	115	108	16.5	3.50
WRNF-120	120	114	30.0	3.00	WRNF-125	125	118	16.5	3.50
WRNF-110	110	104	34.8	3.00	WRNF-130	130	123	16.5	3.50
WRNF-120	120	114	35.0	3.00	WRNF-140	140	133	17.5	3.50
WRNF-120	120	114	39.8	3.00	WRNF-150	150	143	17.5	3.50
WRNF-086	86	80	49.8	3.00	WRNF-115	115	108	19.8	3.50
WRNF-200	200	194	59.8	3.00	WRNF-125	125	118	19.8	3.50
WRNF-220	220	214	59.8	3.00	WRNF-130	130	123	19.8	3.50
WRNF-115	115	108.8	7.8	3.10	WRNF-135	135	128	19.8	3.50
WRNF-090	90	83.7	15.0	3.15	WRNF-140	140	133	19.8	3.50
WRNF-060	60	53.66	12.7	3.17	WRNF-145	145	138	19.8	3.50
WRNF-114.3	114.3	107.95	12.7	3.18	WRNF-150	150	143	19.8	3.50
WRNF-127	127	120.65	12.7	3.18	WRNF-145	145	138	20.0	3.50
WRNF-127	127	120.65	15.8	3.18	WRNF-160	160	153	20.0	3.50
WRNF-120	120	113.6	14.8	3.20	WRNF-150	150	143	20.5	3.50
WRNF-125	125	118.6	14.8	3.20	WRNF-086	86	79	24.8	3.50
WRNF-135	135	128.6	19.3	3.20	WRNF-115	115	108	24.8	3.50
WRNF-105	105	98.6	19.4	3.20	WRNF-130	130	123	24.8	3.50
WRNF-145	145	138.6	19.4	3.20	WRNF-135	135	128	25.0	3.50
WRNF-165	165	158.6	19.4	3.20	WRNF-130	130	123	29.8	3.50

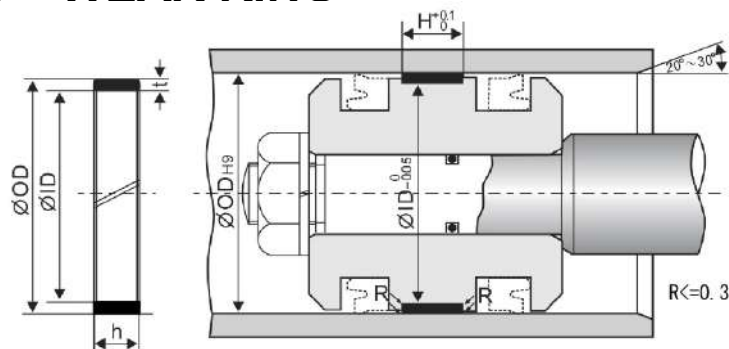
WRNF WEAR RING



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-50°C~120°C
SPEED	1m/s

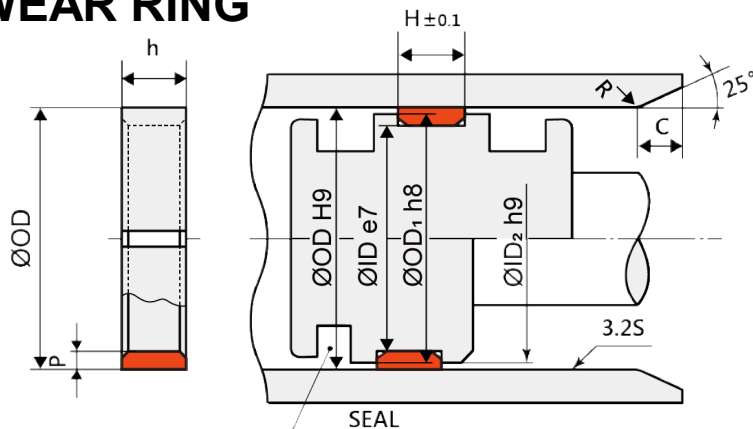
ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-130	130	123	30.0	3.50	WRNF-120	120	112	5.8	4.00
WRNF-140	140	133	34.8	3.50	WRNF-130	130	122	5.8	4.00
WRNF-150	150	143	34.8	3.50	WRNF-070	70	62	5.9	4.00
WRNF-140	140	133	35.0	3.50	WRNF-115	115	107	5.9	4.00
WRNF-140	140	133	39.8	3.50	WRNF-125	125	117	5.9	4.00
WRNF-146	146	139	39.8	3.50	WRNF-135	135	127	5.9	4.00
WRNF-150	150	143	39.8	3.50	WRNF-140	140	132	5.9	4.00
WRNF-170	170	163	39.8	3.50	WRNF-145	145	137	5.9	4.00
WRNF-120	120	113	40.0	3.50	WRNF-150	150	142	5.9	4.00
WRNF-130	130	123	40.0	3.50	WRNF-160	160	152	5.9	4.00
WRNF-160	160	153	40.0	3.50	WRNF-170	170	162	5.9	4.00
WRNF-140	140	133	44.8	3.50	WRNF-175	175	167	5.9	4.00
WRNF-150	150	143	45.0	3.50	WRNF-070	70	62	6.0	4.00
WRNF-160	160	153	45.0	3.50	WRNF-085	85	77	6.0	4.00
WRNF-170	170	162.4	25.0	3.80	WRNF-090	90	82	6.0	4.00
WRNF-135	135	127.3	9.9	3.85	WRNF-095	95	87	6.0	4.00
WRNF-070	70	62	3.8	4.00	WRNF-100	100	92	6.0	4.00
WRNF-075	75	67	3.8	4.00	WRNF-105	105	97	6.0	4.00
WRNF-080	80	72	3.8	4.00	WRNF-115	115	107	6.0	4.00
WRNF-085	85	77	3.8	4.00	WRNF-120	120	112	6.0	4.00
WRNF-090	90	82	3.8	4.00	WRNF-125	125	117	6.0	4.00
WRNF-095	95	87	3.8	4.00	WRNF-130	130	122	6.0	4.00
WRNF-100	100	92	3.8	4.00	WRNF-135	135	127	6.0	4.00
WRNF-105	105	97	3.8	4.00	WRNF-140	140	132	6.0	4.00
WRNF-115	115	107	3.9	4.00	WRNF-145	145	137	6.0	4.00
WRNF-070	70	62	4.0	4.00	WRNF-150	150	142	6.0	4.00
WRNF-075	75	67	4.0	4.00	WRNF-160	160	152	6.0	4.00
WRNF-080	80	72	4.0	4.00	WRNF-170	170	162	6.0	4.00
WRNF-085	85	77	4.0	4.00	WRNF-175	175	167	6.0	4.00
WRNF-090	90	82	4.0	4.00	WRNF-063	63	55	7.5	4.00
WRNF-095	95	87	4.0	4.00	WRNF-095	95	87	7.8	4.00
WRNF-100	100	92	4.0	4.00	WRNF-100	100	92	7.8	4.00
WRNF-105	105	97	4.0	4.00	WRNF-105	105	97	7.8	4.00
WRNF-115	115	107	4.0	4.00	WRNF-110	110	102	7.8	4.00
WRNF-085	85	77	5.8	4.00	WRNF-115	115	107	7.8	4.00
WRNF-090	90	82	5.8	4.00	WRNF-125	125	117	7.8	4.00
WRNF-095	95	87	5.8	4.00	WRNF-135	135	127	7.8	4.00
WRNF-100	100	92	5.8	4.00	WRNF-140	140	132	7.8	4.00
WRNF-105	105	97	5.8	4.00	WRNF-145	145	137	7.8	4.00

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ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF-170	170	162	50.0	4.00	WRNF-135	135	125	9.8	5.00
WRNF-225	225	217	50.0	4.00	WRNF-140	140	130	9.8	5.00
WRNF-180	180	172	54.8	4.00	WRNF-130	130	120	10.0	5.00
WRNF-190	190	182	54.8	4.00	WRNF-130	130	120	14.8	5.00
WRNF-250	250	242	55.0	4.00	WRNF-135	135	125	14.8	5.00
WRNF-110	110	101	5.9	4.50	WRNF-140	140	130	14.8	5.00
WRNF-120	120	111	5.9	4.50	WRNF-185	185	175	14.8	5.00
WRNF-090	90	81	9.8	4.50	WRNF-125	125	115	15.0	5.00
WRNF-095	95	86	9.8	4.50	WRNF-130	130	119	14.8	5.50
WRNF-100	100	91	9.8	4.50	WRNF-225	225	214	50.0	5.50
WRNF-105	105	96	9.8	4.50	WRNF-140	140	128	9.8	6.00
WRNF-110	110	101	9.8	4.50	WRNF-140	140	128	12.3	6.00
WRNF-115	115	106	9.8	4.50	WRNF-150	150	138	12.3	6.00
WRNF-120	120	111	9.8	4.50	WRNF-140	140	128	12.5	6.00
WRNF-125	125	116	9.8	4.50	WRNF-145	145	133	12.5	6.00
WRNF-100	100	91	10.0	4.50	WRNF-150	150	138	12.5	6.00
WRNF-105	105	96	10.0	4.50	WRNF-160	160	148	14.8	6.00
WRNF-110	110	101	10.0	4.50	WRNF-160	160	148	15.0	6.00
WRNF-090	90	81	12.3	4.50	WRNF-140	140	128	17.3	6.00
WRNF-095	95	86	12.3	4.50	WRNF-150	150	138	17.3	6.00
WRNF-100	100	91	12.3	4.50	WRNF-140	140	128	17.5	6.00
WRNF-105	105	96	12.3	4.50	WRNF-150	150	138	17.5	6.00
WRNF-090	90	81	12.5	4.50	WRNF-150	150	138	19.8	6.00
WRNF-095	95	86	12.5	4.50	WRNF-160	160	148	19.8	6.00
WRNF-100	100	91	12.5	4.50	WRNF-170	170	158	20.0	6.00
WRNF-105	105	96	12.5	4.50	WRNF-180	180	168	22.3	6.00
WRNF-110	110	101	12.5	4.50	WRNF-185	185	173	22.3	6.00
WRNF-115	115	106	14.8	4.50	WRNF-200	200	188	22.3	6.00
WRNF-120	120	111	14.8	4.50	WRNF-185	185	173	22.5	6.00
WRNF-135	135	126	30.0	4.50	WRNF-200	200	188	22.5	6.00
WRNF-254	254	244.4	60.0	4.80	WRNF-225	225	213	25.0	6.00
WRNF-125	125	115	9.8	5.00	WRNF-250	250	238	27.5	6.00
WRNF-130	130	120	9.8	5.00	WRNF-430	430	417	50.0	6.50

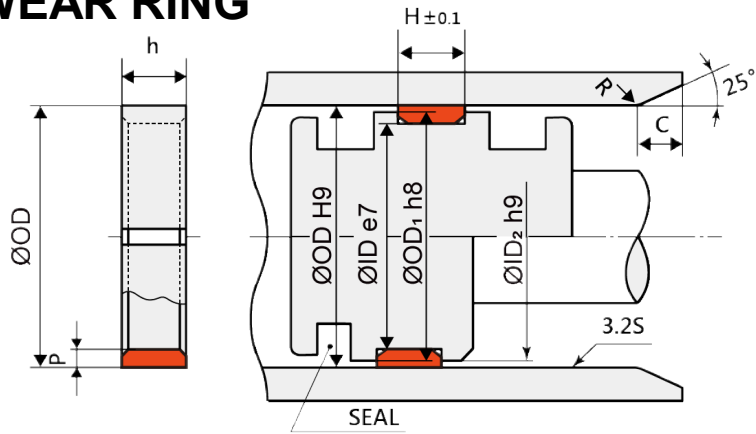
WROM WEAR RING



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	OD	ID	h
* WROM-006.96	6.96	5.5	1.15
* WROM-009.9	9.9	8	1.45
WROM-020	20	17	2
WROM-010	10	7	3
WROM-012	12	9	3
WROM-018	18	15	3
WROM-020	20	17	3
WROM-022	22	18	3
WROM-025	25	22	3
WROM-030	30	27	3
WROM-032	32	29	3
WROM-040	40	37	3
WROM-030	30	27	4
WROM-032	32	29	4
WROM-040	40	36	4
WROM-050	50	46	4
WROM-050	50	47	4
WROM-063	63	59	4
WROM-080	80	76	4
WROM-100	100	96	4
WROM-040	40	36	5
WROM-050	50	46	5
WROM-080	80	76	5
WROM-063	63	58	6
WROM-063	63	59	6
WROM-080	80	76	6
WROM-100	100	96	6
WROM-050	50	45	6.35
WROM-063	63	59	8
WROM-080	80	75	8
WROM-080	80	76	8
WROM-100	100	95	8
WROM-100	100	96	8
WROM-032	32	28	9.6
WROM-040	40	36	9.7
WROM-050	50	46	9.7
WROM-063	63	58	9.7
WROM-080	80	75	9.7

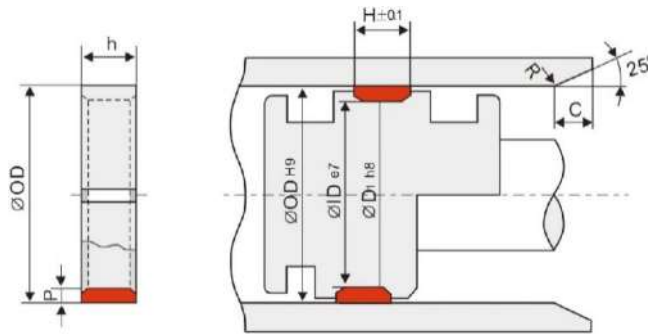
WROM WEAR RING



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	OD	ID	h
WROM-100	100	95	9.7
WROM-019	19	16	12
WROM-040	40	36	12
WROM-063	63	59	12
WROM-029	29	25	15

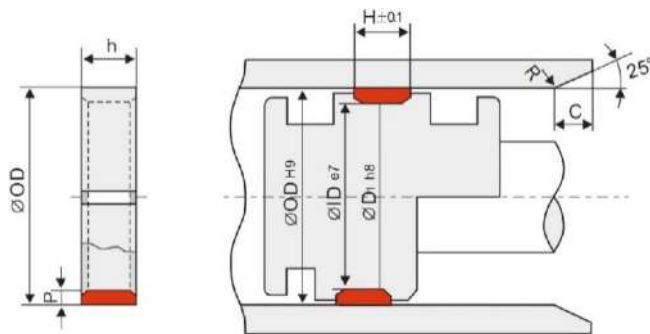
WRPOM WEAR RING FOR PISTON SEAL



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	OD	ID	h	t
WRPOM-025	25	21.9	4	1.55
WRPOM-060	60	56	5.8	2.0
WRPOM-063	63	59	5.8	2.0
WRPOM-125	125	121	5.8	2.0
WRPOM-040	40	36	7.8	2.0
WRPOM-050	50	46	7.8	2.0
WRPOM-65	65	61	7.9	2.0
WRPOM-032	32	28	9.5	2.0
WRPOM-036	36	32	9.5	2.0
WRPOM-042	42	38	9.5	2.0
WRPOM-045	45	41	9.5	2.0
WRPOM-045	45	41	9.8	2.0
WRPOM-063	63	59	9.8	2.0
WRPOM-080	80	76	9.8	2.0
WRPOM-100	100	96	9.8	2.0
WRPOM-125	125	121	9.8	2.0
WRPOM-045	45	41	14.8	2.0
WRPOM-050	50	46	14.8	2.0
WRPOM-045	45	41	19.8	2.0
WRPOM-055	55	50	5	2.5
WRPOM-072	72	67	5.3	2.5
WRPOM-075	75	70	5.3	2.5
WRPOM-065	65	60	5.35	2.5
WRPOM-068	68	63	5.35	2.5
WRPOM-085	85	80	5.4	2.5
WRPOM-090	90	85	5.8	2.5
WRPOM-090	90	85	5.35	2.5
WRPOM-100	100	95	5.35	2.5
WRPOM-021	21	16	5.4	2.5
WRPOM-048	48	43	5.4	2.5
WRPOM-050	50	45	5.4	2.5
WRPOM-057	57	52	5.4	2.5
WRPOM-060	60	55	5.4	2.5
WRPOM-063	63	58	5.4	2.5
WRPOM-065	65	60	5.4	2.5
WRPOM-070	70	65	5.4	2.5
WRPOM-080	80	75	5.4	2.5
WRPOM-100	100	95	5.4	2.5
WRPOM-55	55	50	5.8	2.5
WRPOM-060	60	55	5.8	2.5
WRPOM-065	65	60	5.8	2.5

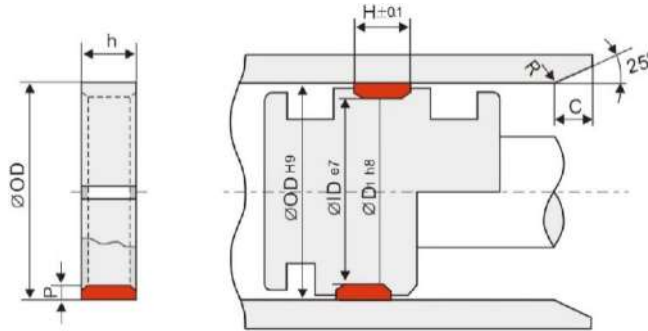
WRPOM WEAR RING FOR PISTON SEAL



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	OD	ID	h	t
WRPOM-070	70	65	5.8	2.5
WRPOM-075	75	70	5.8	2.5
WRPOM-080	80	75	5.8	2.5
WRPOM-085	85	80	5.8	2.5
WRPOM-095	95	90	5.8	2.5
WRPOM-100	100	95	5.8	2.5
WRPOM-105	105	100	5.9	2.5
WRPOM-060	60	55	7.5	2.5
WRPOM-035	35	30	7.8	2.5
WRPOM-115	115	110	7.8	2.5
WRPOM-120	120	115	7.8	2.5
WRPOM-135	135	130	7.8	2.5
WRPOM-150	150	145	7.8	2.5
WRPOM-110	110	105	7.9	2.5
WRPOM-125	125	120	7.9	2.5
WRPOM-130	130	125	7.9	2.5
WRPOM-065	65	60	9.3	2.5
WRPOM-032	32	27	9.5	2.5
WRPOM-033	33	28	9.5	2.5
WRPOM-037	37	32	9.5	2.5
WRPOM-040	40	35	9.5	2.5
WRPOM-055	55	50	9.5	2.5
WRPOM-063	63	58	9.5	2.5
WRPOM-070	70	65	9.5	2.5
WRPOM-080	80	75	9.5	2.5
WRPOM-085	85	80	9.5	2.5
WRPOM-090	90	85	9.5	2.5
WRPOM-095	95	90	9.5	2.5
WRPOM-100	100	95	9.5	2.5
WRPOM-105	105	100	9.5	2.5
WRPOM-110	110	105	9.5	2.5
WRPOM-115	115	110	9.5	2.5
WRPOM-120	120	115	9.5	2.5
WRPOM-135	135	130	9.5	2.5
WRPOM-140	140	135	9.5	2.5
WRPOM-145	145	140	9.5	2.5
WRPOM-170	170	165	9.5	2.5
WRPOM-180	180	175	9.5	2.5
WRPOM-185	185	180	9.5	2.5
WRPOM-045	45	40	9.8	2.5
WRPOM-050	50	45	9.8	2.5

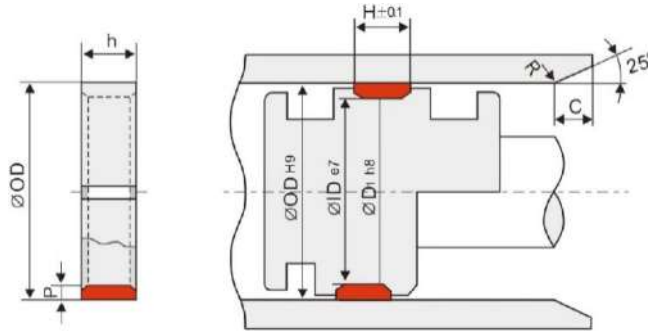
WRPOM WEAR RING FOR PISTON SEAL



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	OD	ID	h	t
WRPOM-090	90	85	9.8	2.5
WRPOM-125	125	120	9.8	2.5
WRPOM-150	150	145	9.8	2.5
WRPOM-135	135	130	12.3	2.5
WRPOM-055	55	50	12.5	2.5
WRPOM-065	65	60	12.5	2.5
WRPOM-070	70	65	12.5	2.5
WRPOM-075	75	70	12.5	2.5
WRPOM-075	75	70	13.8	2.5
WRPOM-045	45	40	14.8	2.5
WRPOM-050	50	45	14.8	2.5
WRPOM-055	55	50	14.8	2.5
WRPOM-060	60	55	14.8	2.5
WRPOM-063	63	58	14.8	2.5
WRPOM-080	80	75	14.8	2.5
WRPOM-085	85	80	14.8	2.5
WRPOM-110	110	105	14.8	2.5
WRPOM-115	115	110	14.8	2.5
WRPOM-125	125	120	14.8	2.5
WRPOM-130	130	125	14.8	2.5
WRPOM-140	140	135	14.8	2.5
WRPOM-150	150	145	14.8	2.5
WRPOM-185	185	180	14.8	2.5
WRPOM-225	225	220	14.8	2.5
WRPOM-065	65	60	17.8	2.5
WRPOM-075	75	70	17.8	2.5
WRPOM-055	55	50	19.8	2.5
WRPOM-070	70	65	19.8	2.5
WRPOM-075	75	70	19.8	2.5
WRPOM-080	80	75	19.8	2.5
WRPOM-170	170	165	19.8	2.5
WRPOM-175	175	170	19.8	2.5
WRPOM-045	45	40	24.8	2.5
WRPOM-050	50	45	24.8	2.5
WRPOM-080	80	75	24.8	2.5
WRPOM-100	100	95	24.8	2.5
WRPOM-055	55	50	29.8	2.5
WRPOM-065	65	60	29.8	2.5
WRPOM-031	31	25	9.5	3.0
WRPOM-034	34	28	9.5	3.0
WRPOM-036	36	30	9.5	3.0

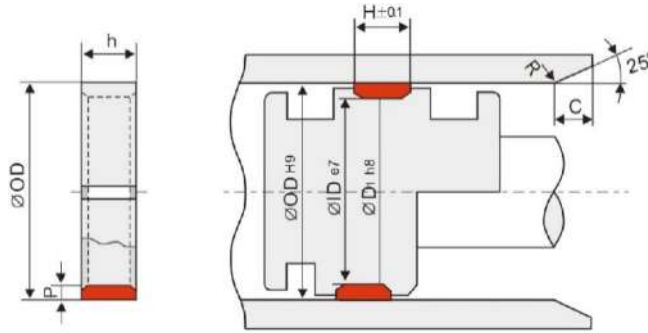
WRPOM WEAR RING FOR PISTON SEAL



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	OD	ID	h	t
WRPOM-038	38	32	9.5	3.0
WRPOM-041	41	35	9.5	3.0
WRPOM-050	50	44	9.5	3.0
WRPOM-061	61	55	9.5	3.0
WRPOM-066	66	60	9.5	3.0
WRPOM-071	71	65	11.8	3.0
WRPOM-090	90	84	12.3	3.0
WRPOM-100	100	94	12.3	3.0
WRPOM-110	110	104	12.3	3.0
WRPOM-120	120	114	12.3	3.0
WRPOM-041	41	35	12.5	3.0
WRPOM-050	50	44	12.5	3.0
WRPOM-070	70	64	12.5	3.0
WRPOM-075	75	69	12.5	3.0
WRPOM-085	85	79	12.5	3.0
WRPOM-055	55	49	12.7	3.0
WRPOM-0105	105	99	12.7	3.0
WRPOM-106	106	100	12.7	3.0
WRPOM-050	50	44	14.8	3.0
WRPOM-060	60	54	14.8	3.0
WRPOM-071	71	65	14.8	3.0
WRPOM-096	96	90	14.8	3.0
WRPOM-100	100	94	14.8	3.0
WRPOM-106	106	100	14.8	3.0
WRPOM-125	125	119	14.8	3.0
WRPOM-041	41	35	18.8	3.0
WRPOM-071	71	65	18.8	3.0
WRPOM-056	56	50	19.8	3.0
WRPOM-075	75	69	19.8	3.0
WRPOM-085	85	79	19.8	3.0
WRPOM-096	96	90	19.8	3.0
WRPOM-106	106	100	19.8	3.0
WRPOM-046	46	40	24.8	3.0
WRPOM-066	66	60	24.8	3.0
WRPOM-096	96	90	24.8	3.0
WRPOM-106	106	100	24.8	3.0
WRPOM-066	66	60	29.8	3.0
WRPOM-120	120	114	29.8	3.0
WRPOM-120	120	113	14.8	3.5
WRPOM-130	130	123	14.8	3.5
WRPOM-140	140	133	19.8	3.5

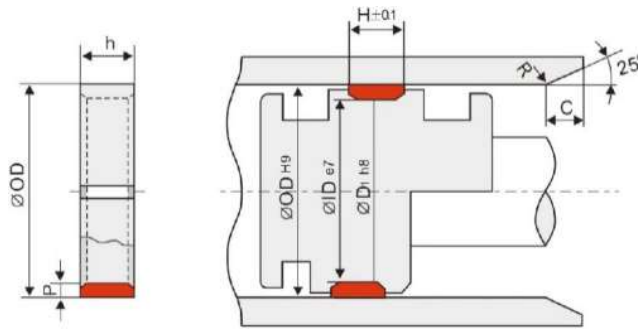
WRPOM WEAR RING FOR PISTON SEAL



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	OD	ID	h	t
WRPOM-135	135	128	24.8	3.5
WRPOM-180	180	173	24.8	3.5
WRPOM-130	130	123	29.8	3.5
WRPOM-140	140	133	29.8	3.5
WRPOM-190	190	183	29.8	3.5
WRPOM-170	170	162	8.8	4.0
WRPOM-170	170	162	24.8	4.0
WRPOM-190	190	182	28.3	4.0
WRPOM-115	115	106	9.5	4.5
WRPOM-105	105	96	9.8	4.5
WRPOM-115	115	106	9.8	4.5
WRPOM-120	120	111	9.8	4.5
WRPOM-110	110	101	12.3	4.5
WRPOM-120	120	111	14.8	4.5
WRPOM-130	130	120	9.5	5.0
WRPOM-135	135	125	9.8	5.0
WRPOM-135	135	125	14.8	5.0
WRPOM-140	140	128	17.3	6.0

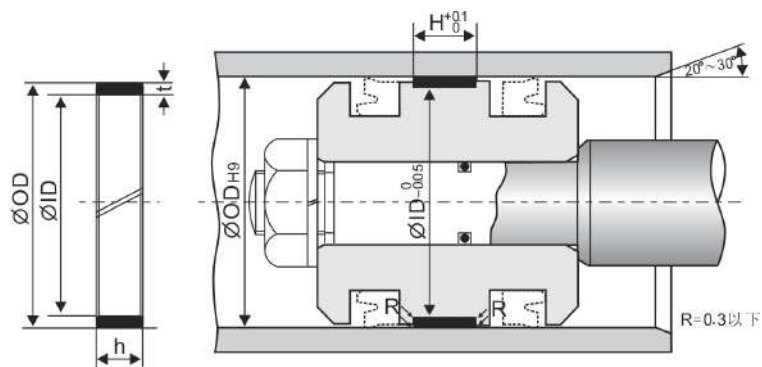
WRPOM WEAR RING FOR ROD SEAL



APPLICATION	
MATERIAL	POM
TEMP.	-40°C~100°C
SPEED	1m/s

ITEM	ID	OD	h	t
WRPOM-25	25	29	9.4	2.0
WRPOM-30	30	34	14.8	2.0
WRPOM-40	40	44	9.6	2.0
WRPOM-35	35	39	9.8	2.0
WRPOM-25	25	29	19.8	2.0
WRPOM-30	30	34	19.8	2.0
WRPOM-36	36	41	4.8	2.5
WRPOM-22	22	27	5.5	2.5
WRPOM-30	30	35	9.5	2.5
WRPOM-35	35	40	9.5	2.5
WRPOM-36	36	41	9.5	2.5
WRPOM-25	25	30	12.3	2.5
WRPOM-28	28	33	12.3	2.5
WRPOM-32	32	37	12.3	2.5
WRPOM-36	36	41	12.3	2.5
WRPOM-40	40	45	12.3	2.5
WRPOM-36	36	41	14.5	2.5
WRPOM-36	36	42	50.0	3.0
(INCH)				
WRPOM-1.625	1.625	1.821	0.375	0.1

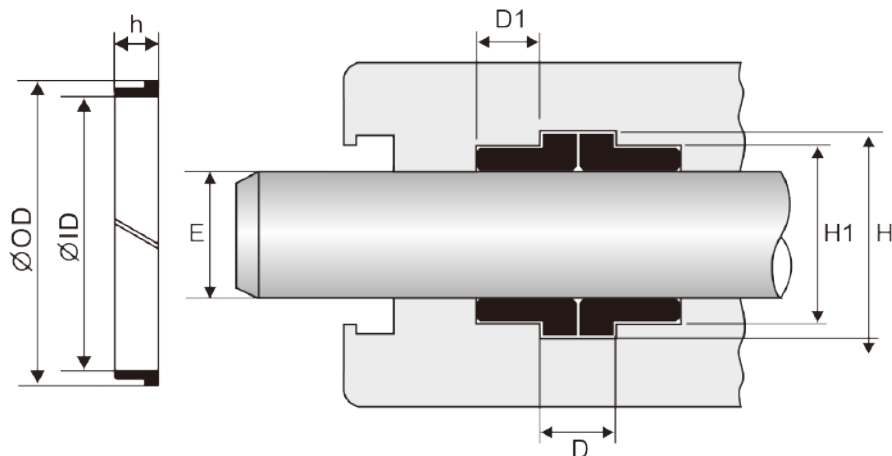
WRNP WEAR RING



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-50°C~120°C
SPEED	1m/s

ITEM	OD	ID	h	H	t
WRNP	50	45	5	5.2	2.5
WRNP	50	45	9.35	9.5	2.5
WRNP	65	60	9.35	9.5	2.5
WRNP	70	65	9.7	10	2.5
WRNP	50	46	11.8	12	2
WRNP	45	40	14.8	15	2.5
WRNP	55	50	14.8	15	2.5
WRNP	85	80	18.8	19	2.5

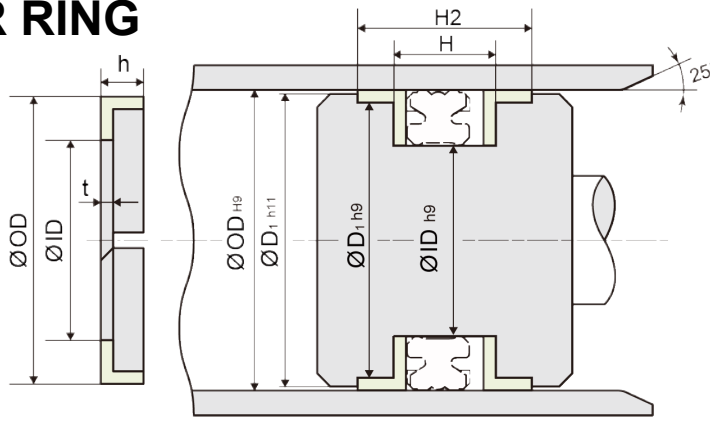
WRL WEAR RING



APPLICATION	
MATERIAL	POM
TEMP.	-35°C~100°C
SPEED	1m/s

ITEM	ID	OD	h	E	D	D1	H	H1
WRL-060	60	71	16	60	10	11	71	66
WRL-078	78	89	16	78	10	11	89	84
WRL-091	91	102	16	91			102	97
WRL-099	99	110	16	99	10	11	110	105
WRL-110	110	121	16	110			121	116
WRL-120	120	131	16	120	10	11	131	126
WRL-130	130	141	16	130			141	136
WRL-141	141	152	16	141	10	11	152	147
WRL-150	150	161	16	150			161	156
WRL-162	162	173	16	162	10	11	173	168
WRL-170	170	182	16	170			182	177
WRL-183	183	194	16	183	10	11	194	189
WRL-192	192	202	16	192			202	197
WRL-207	207	218	16	207	10	11	218	213
* WRL-060	60	68	18	60	8	14	68	65
* WRL-092	92	100	18	92	8	14	100	97

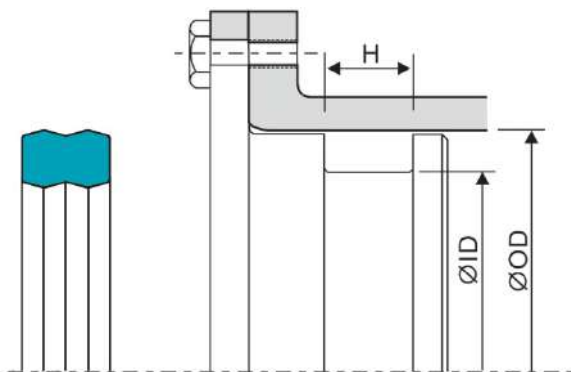
PL WEAR RING



APPLICATION	
MATERIAL	NY
TEMP.	-35°C ~ 100°C
SPEED	1 m/s

ITEM	OD	ID	h	t
PL-040	40	30	5.5	1.5
PL-045	45	35	5.5	1.5
PL-050	50	40	5.5	1.5
PL-055	55	45	5.5	1.5
PL-060	60	50	5.5	1.5
PL-063	63	53	5.5	1.5
PL-065	65	55	7.0	2.0
PL-070	70	55	7.0	2.0
PL-070	70	60	7.0	2.0
PL-075	75	65	7.0	2.0
PL-080	80	67	7.0	2.0
PL-085	85	72	7.0	2.0
PL-090	90	77	7.0	2.0
PL-095	95	82	7.0	2.0
PL-100	100	85	7.0	2.0
PL-120	120	105	7.0	2.0
PL-045	45	35	18.2	2.0
PL-050	50	40	18.2	2.0
PL-055	55	45	18.2	2.0

HEAD SEAL- HI

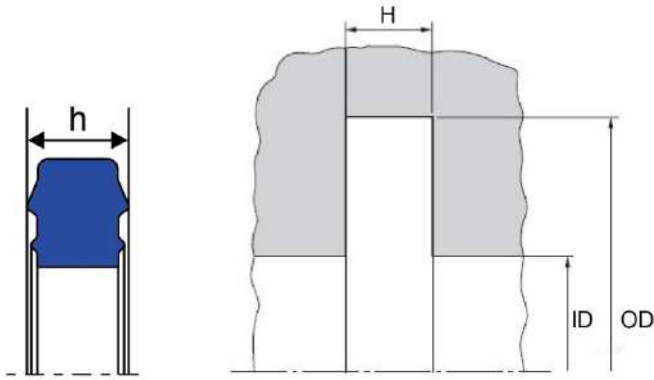


APPLICATION	
MATERIAL	PU
TEMP.	-40°C~100°C
PRESSURE	500kgf/cm ²

Flange

ITEM	OD	ID	H
HI-045	45	38.4	3.1
HI-060	60	53.4	3.1
HI-070	70	63.4	3.1
HI-057	57	52.2	3.5
HI-048	48	43.0	3.6
HI-55	55	51	3.6
HI-50	50	45.2	4
HI-60	60	55.2	4
HI-070	70	65.0	4
HI-78.58	78.58	84.7	4
HI-060	60	56.0	4.4
HI-065	65	59.0	4.5
HI-067.1	67.1	60.9	4.7
HI-042	42	36.0	4.8
HI-075	75	69.4	5.3
HI-070	75	70.0	5.35
HI-085	85	91.0	5.7
HI-060	60	54.4	5.8
HI-076	76	70.3	6
HI-081	81	75.3	6
HI-080	80	73.6	6.4
HI-160A	169	160	6.8
HI-101	110	101.4	8

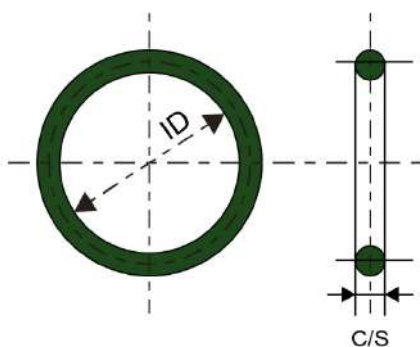
STATIC SEAL-HR



APPLICATION	
MATERIAL	PU
TEMP.	-35°C~100°C
PRESSURE	500kgf/cm ²

ITEM	ID	OD	h	H
HR-006	6	12	2.4	1.9
* HR-008	8	14	2.4	1.9
HR-010	10	16	2.4	1.9
HR-012	12	18	2.4	1.9
* HR-014	14	21	2.4	1.9
HR-016	16	23	2.4	1.9
HR-020	20	27	2.4	1.9
* HR-024	24	30	2.4	1.9
HR-025	25	33	3	2.4
HR-027	27	35	2.8	2.6
* HR-030	30	38	2.4	1.9
HR-032	32	40	3	2.4
HR-040	40	48	3	2.4
* HR-045	45	53	3	2.4
* HR-050	50	58	3.1	2.5

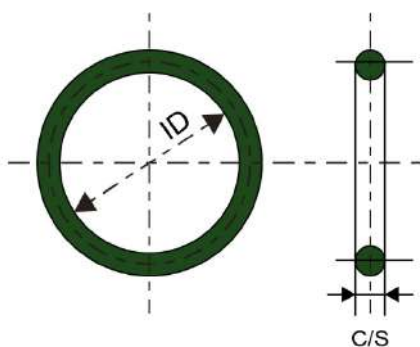
O-RING—POLYURETHANE O-RING



APPLICATION	
MATERIAL	POLYURETHANE
TEMP.	-40°C~100°C

ITEM	ID	C/S	COLOUR
P-016	15.8	2.4	GREEN
P-018	17.8	2.4	GREEN
P-021	20.8	2.4	IVORY
P-022A	21.7	3.5	GREEN
P-025	24.7	3.5	GREEN
P-026	25.7	3.5	IVORY
P-028	27.7	3.5	GREEN
P-030	29.7	3.5	GREEN
P-032	31.7	3.5	GREEN,IVORY
P-035	34.7	3.5	GREEN
P-035.5	35.2	3.5	GREEN
P-038	37.7	3.5	GREEN
P-045	44.7	3.5	GREEN
P-048	47.7	3.5	GREEN
P-070	69.6	5.7	GREEN
P-080	79.6	5.7	GREEN
P-085	84.6	5.7	GREEN
P-090	89.6	5.7	GREEN
P-100	99.6	5.7	GREEN
P-110	109.6	5.7	GREEN
P-115	114.6	5.7	GREEN
P-120	119.6	5.7	GREEN
P-125	124.6	5.7	GREEN
P-130	129.6	5.7	GREEN
P-135	134.6	5.7	GREEN
P-140	139.6	5.7	GREEN
P-150	149.6	5.7	GREEN
G-030	29.4	3.1	BLUE
G-035	34.4	3.1	GREEN
G-040	39.4	3.1	GREEN
G-045	44.4	3.1	IVORY
G-060	59.4	3.1	GREEN
G-066	65.4	3.1	IVORY
G-080	79.4	3.1	GREEN
G-085	84.4	3.1	GREEN
G-130	194.3	5.7	
G-195	194.3	5.7	BLACK
G-210	209.3	5.7	BLACK

O-RING—POLYURETHANE O-RING



APPLICATION	
MATERIAL	POLYURETHANE
TEMP.	-40°C~100°C

ITEM	ID	C/S	COLOUR
AS-008	4.47	1.78	IVORY,GRAY
AS-009	5.28	1.78	IVORY,GRAY
AS-010	6.07	1.78	IVORY,GRAY
AS-016	15.6	1.78	IVORY
AS-120	25.07	2.62	IVORY
AS-213	23.39	3.53	IVORY
AS-230	63.10	3.53	IVORY
AS-333	62.87	5.33	IVORY
AS-345	100.96	5.33	IVORY
AS-347	107.32	5.33	IVORY
AS-348	110.49	5.33	IVORY
AS-350	116.84	5.33	IVORY
mm	14.5	2.5	BLUE
mm	75	3	IVORY
mm	53.4	3.8	IVORY
mm	47	5	GREEN
* mm	70	5	GREEN
mm	90	5	GREEN
mm	76	8	GREEN
mm	86	8	GREEN
mm	112	8	GREEN



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