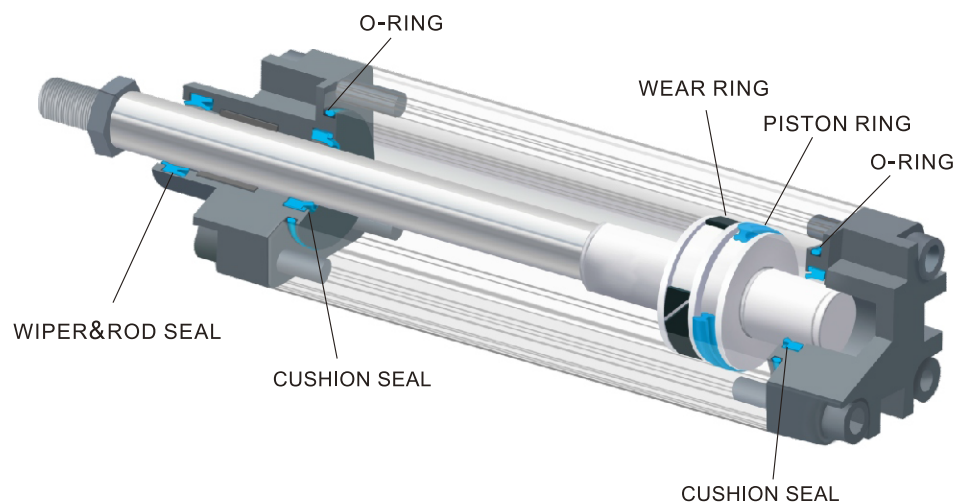








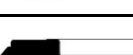










PNEUMATIC SEALS FOR GENERAL INDUSTRIES









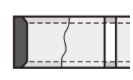
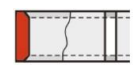








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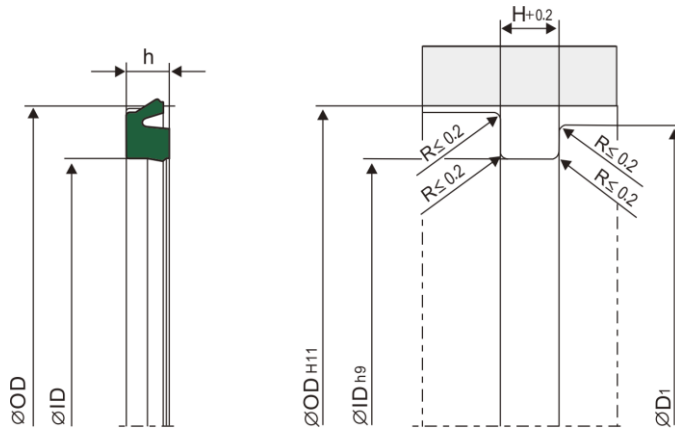
PNEUMATIC SEALS INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	SPEED (m/s)	PAGE
PISTON		NZ8	PU	-35℃～80℃	16	1	1
		NZ8	NBR	-30℃～80℃	16	1	2
			FKM	-15℃～150℃	16	1	
		NE4	NBR	-20℃～80℃	16	1	3
		NPZ	NBR	-20℃～80℃	12	1	4
		NPP	NBR	-20℃～80℃	10	1	5
		NGP	NBR	-20℃～80℃	10	1	6
			FKM	-5℃～150℃	10	1	
		TPD	NBR	-20℃～80℃	10	1	7
		APM	NBR	-20℃～80℃	10	1	7
ROD SEAL		NR5	PU	-35℃～80℃	16	1	9
		NPN	NBR	-25℃～80℃	10	1	9
		MY	NBR	-10℃～80℃	-	0.5	10
PISTON/ROD SEAL		NYA	NBR	-25℃～70℃	8	0.4	11
			FKM	-5℃～150℃			
		APY	NBR	-25℃～70℃	10	1	12
ROD/WIPER SEAL		NEU	PU	-35℃～80℃	16	1	13
		NEM	PU	-35℃～80℃	16	1	14

PNEUMATIC SEALS INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	SPEED (m/s)	PAGE
ROD/WIPER SEAL		PDR	NBR	-20℃～80℃	10	1	15
		NDU	NBR	-20℃～80℃	10	1	16
			FKM	-15℃～160℃	10	1	
		MBH	NBR+STEEL	-35℃～80℃	16	1	17
CUSHION		NTP	PU	-35℃～80℃	16	1	18
		NTP	NBR	-25℃～90℃	16	1	19
		NTU	PU	-35℃～80℃	16	1	20
		NTU	NBR	-25℃～90℃	16	1	21
		NVB	NBR+STEEL	-20℃～80℃	10	1	22
WEAR RING		WRA	PTFE	-55℃～200℃	16	3	23
		WROM	POM	-40℃～100℃	16	1	24
SOLENOID VALVE SEAL		AYP	NBR	-25℃～70℃	8	0.4	26
			HNBR	-30℃～120℃	10	1	27
		NSP	HNBR	-30℃～120℃	10	1	27
		I-RING	HNBR	-30℃～120℃	10	1	28
			HNBR	-30℃～120℃	10	1	28
		NPR	NBR	-30℃～120℃	10	1	28

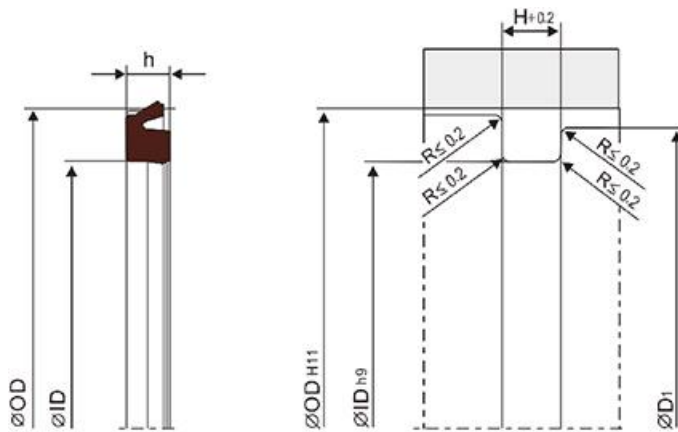
NZ8 PISTON SEAL



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

ITEM	OD	ID	h	D ₁	H
NZ8-016	16	10	2.55	15.6	3
NZ8-020	20	14	2.55	19.6	3
NZ8-025	25	19	3.25	24.4	3.5
NZ8-032	32	24	3.25	31.4	3.5
NZ8-040	40	32	3.25	39.4	3.5
NZ8-050	50	42	3.25	49.4	3.5
NZ8-063	63	53	4.25	62.4	4.5
NZ8-080	80	70	4.25	79.4	4.5
NZ8-100	100	90	4.25	99.4	4.5

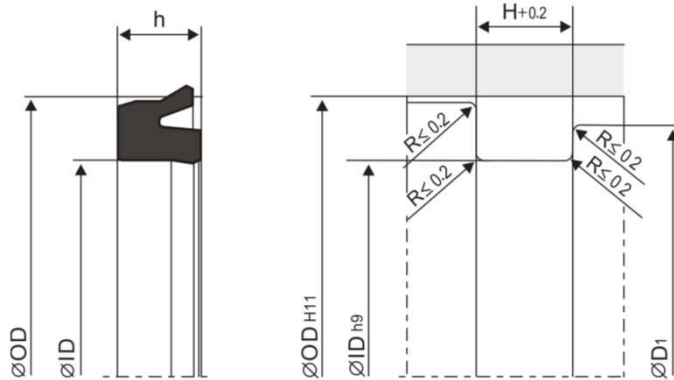
NZ8 PISTON SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-30°C ~ 80°C	-15°C ~ 150°C
PRESSURE	16kgf/cm ²	16kgf/cm ²
SPEED	1m/s	1m/s

ITEM	OD	ID	h	D1	H
NZ8-010	10	6	2.55	9.6	3
NZ8-012	12	7	2.55	11.6	3
NZ8-014	14	8	2.55	13.6	3
NZ8-016	16	10	2.55	15.6	3
NZ8-020	20	14	2.55	19.6	3
NZ8-025	25	19	3.25	24.4	3.5
* NZ8-030	30	22	3.25	29.4	3.5
NZ8-032	32	24	3.25	31.4	3.5
NZ8-035	35	27	3.25	34.4	3.5
NZ8-040	40	32	3.25	39.4	3.5
NZ8-050	50	42	3.25	49.4	3.5
NZ8-063	63	53	4.25	62.4	4.5
NZ8-070	70	60	4.25	69.4	4.5
NZ8-080	80	70	4.25	79.4	4.5
NZ8-100	100	90	4.25	99.4	4.5
NZ8-125	125	105	8.25	123.8	8.5
NZ8-160	160	140	8.25	158.8	8.5
NZ8-200	200	180	8.25	198.8	8.5

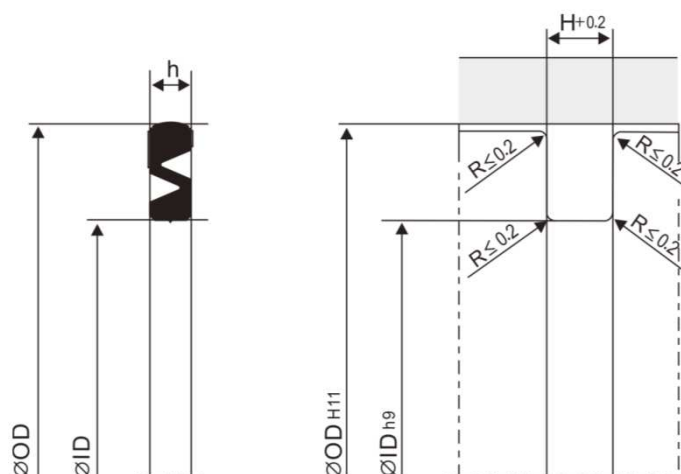
NE4 PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-20°C~80°C
PRESSURE	16kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	D1	H
* NE4-016	16	10	4	15	4.5
* NE4-020	20	14	4	19	4.5
* NE4-025	25	17	5.5	24	6
* NE4-032	32	24	5.5	31	6
* NE4-040	40	30	7	38.5	7.5
* NE4-050	50	40	7	48.5	7.5
* NE4-063	63	53	7	61.5	7.5
* NE4-080	80	68	8.5	78	9.5
* NE4-100	100	88	8.5	98	9.5
* NE4-125	125	110	10	122.5	11
* NE4-150	150	135	10	147.5	11
* NE4-160	160	140	14	155	15
* NE4-200	200	180	14	195	15

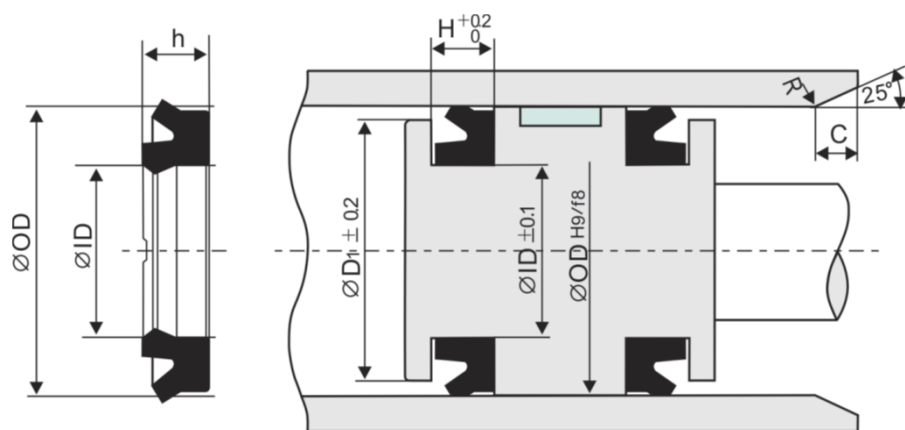
NPZ PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-20°C~80°C
PRESSURE	12kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	D ₁	H
NPZ-012	12	7	2	11.6	2.5
NPZ-016	16	9	2.1	15.6	2.5
NPZ-020	20	13	2.1	19.6	2.5
NPZ-025	25	18	2.1	24.6	2.5
* NPZ-028	28	19	2.5	27.6	3
* NPZ-030	30	21	2.5	29.6	3
NPZ-032	32	23	2.5	31.6	3
NPZ-040	40	31	2.5	39.5	3
NPZ-050	50	41	2.5	49.5	3
NPZ-063	63	51	3.4	62.5	4
NPZ-080	80	68	3.4	79.5	4
NPZ-100	100	88	3.4	99.4	4

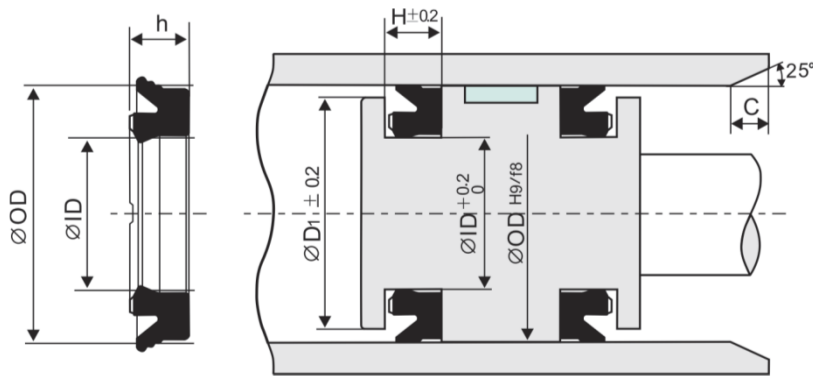
NPP PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-20°C~80°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	D ₁	H	C
NPP-004	4	1.2	2			
NPP-005	5	2	2			
NPP-006	6	3	2			
NPP-008	8	4	2.9	7.5	3.3	2.5
* NPP-010	10	6	2.9	9.5	3.3	2.5
NPP-010	10	7	2			
NPP-012	12	8	2.9	11.5	3.3	2.5
NPP-015	15	10	3.6	14	4	2.5
NPP-016	16	11	3.6	15	4	2.5
NPP-020	20	14	4.3	19	4.7	3
NPP-025	25	17	5.3	24	5.7	3
NPP-030	30	22	5.3			
NPP-032	32	24	5.3	31	5.7	3
* NPP-040	40	30	6.5	39	7	3

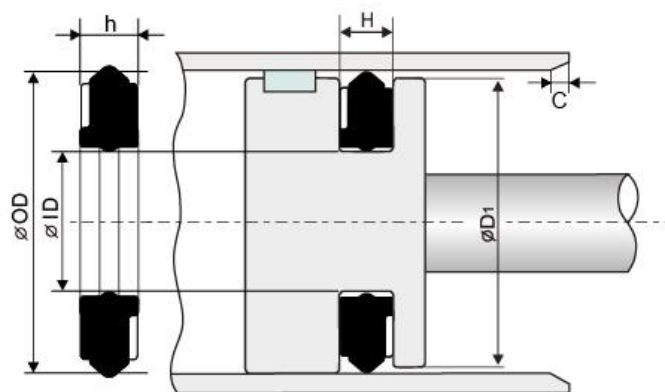
NGP PISTON SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-20°C~80°C	-5°C~150°C
PRESSURE	10kgf/cm ²	10kgf/cm ²
SPEED	1m/s	1m/s

ITEM	OD	ID	h	D ₁	H	C
NGP-040	40	30	6.5	39	7	3
* NGP-045	45	35	6.5	44	7	3
NGP-050	50	40	6.5	49	7	3
NGP-063	63	53	6.5	62	7	3
NGP-080	80	70	6.5	79	7	3
NGP-100	100	90	6.5	99	7	3
NGP-100	100	85	9.5	98.5	10	4
NGP-120	120	105	9.5	118.5	10	4
NGP-125	125	110	9.5	123.5	10	4
NGP-140	140	125	9.5	138.5	10	4
NGP-150	150	135	9.5	148.5	10	4
NGP-160	160	145	9.5	158.5	10	4
NGP-180	180	165	9.5	178.5	10	4
NGP-200	200	180	12	198	13	5
NGP-250	250	230	12	248	13	5
NGP-300	300	280	14	298	15	5
NGP-320	320	295	14	312.5	15	5

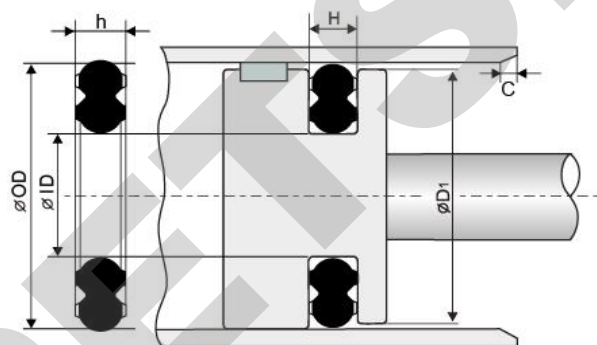
TPD PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-20°C ~80°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	H	D ₁	C
TPD 016	16	11.4	1.6	1.8	15.7	1.5
TPD 020	20	14	2.2	2.4	19.5	1.5
TPD-025	25	17	3	3.2	24.5	2
TPD 032	32	24	3	3.2	31.5	2
TPD 040	40	32	3	3.2	39.5	2
TPD 050	50	40	3.7	4	49.5	2.5
TPD 063	63	53	3.7	4	62.4	2.5
TPD 080	80	65	5.6	6	79.4	3
TPD 100	100	85	5.6	6	99.4	3

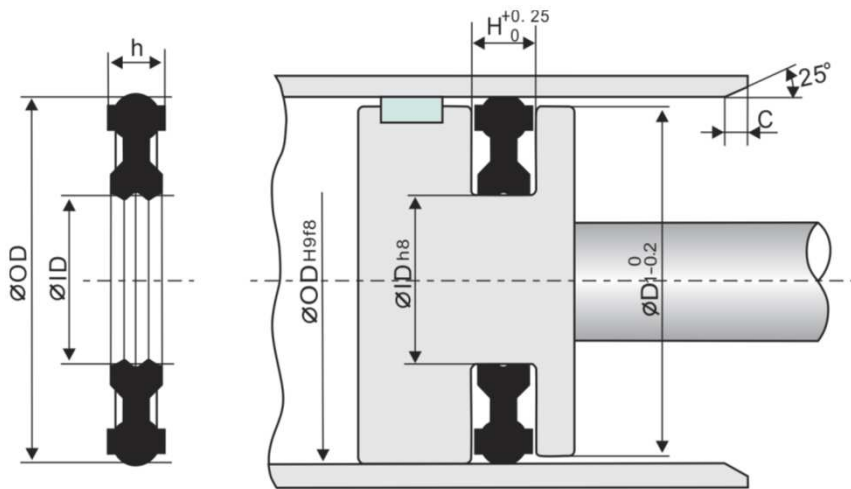
APM PISTON SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-20~80°C
PRESSURE	10 kgf/cm ²
SPEED	1 m/s

ITEM	OD	ID	h	H	D ₁	C
APM 012	12	7.4	1.6	1.8	11.7	1
APM 016	16	11.4	1.6	1.8	15.7	1
APM 020	20	14	2.24	2.4	19.5	1.5
APM 025	25	17	3	3.2	24.5	2
APM 030	30	22	3	3.2	29.5	2
APM 125	125	110	5.6	6	124.3	3.5

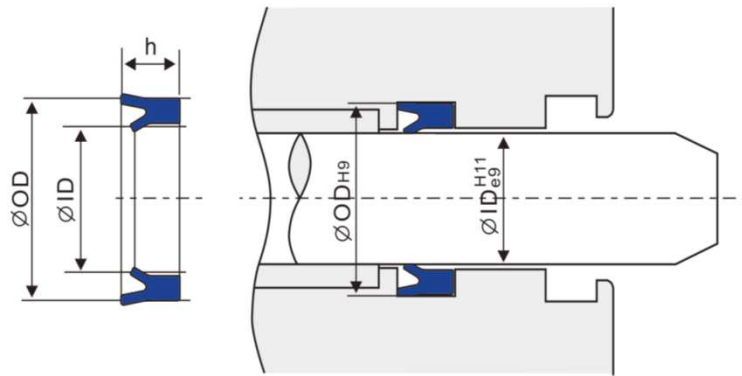
NPA PISTON SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-20°C~80°C	-15°C~150°C
PRESSURE	10kgf/cm ²	10kgf/cm ²
SPEED	1m/s	1m/s

ITEM	OD	ID	h	D1	H	C
NPA-010	10	5.4	1.6	9.7	1.8	1
NPA-012	12	7.4	1.6	11.7	1.8	1
NPA-015	15	10.4	1.6	14.7	1.8	1
NPA-016	16	11.4	1.6	15.7	1.8	1
NPA-020	20	14	2.2	19.5	2.4	1.5
NPA-025	25	17	3	24.5	3.2	2
* NPA-030	30	22	3	29.5		
NPA-032	32	24	3	31.5	3.2	2
NPA-040	40	32	3	39.5	3.2	2
NPA-050	50	40	3.8	49.5	4	2.5
NPA-063	63	53	3.8	62.4	4	2.5
NPA-080	80	65	5.6	79.4	6	3
NPA-100	100	85	5.6	99.4	6	3
NPA-125	125	110	5.7	124.3	6	3.5
NPA-140	140	125	5.7	139.3	6	3.5
NPA-150	150	135	5.7	149.3	6	3.5
NPA-160	160	140	7.6	159.3	8	5
NPA-180	180	160	7.6	179.3	8	5
NPA-200	200	180	7.6	199	8	5
NPA-250	250	230	7.6	249	8	5
NPA-300	300	280	7.6	299	8	5

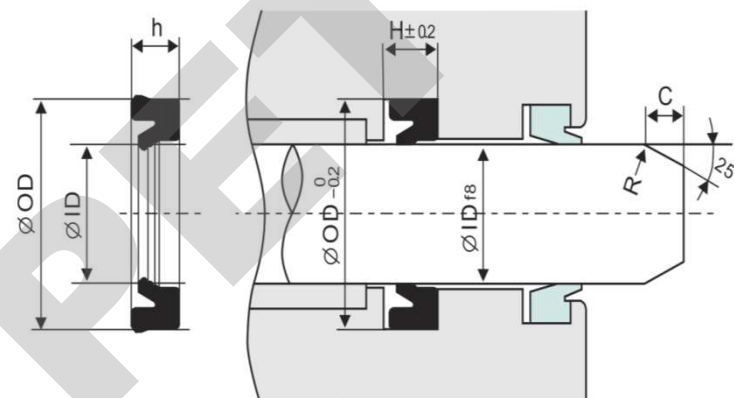
NR5 ROD SEAL



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

ITEM	ID	OD	h
NR5-006	6	12	7.3
NR5-008	8	14.9	7.3
NR5-010	10	16.4	7.3
NR5-012	12	18.4	7.5
NR5-014	14	20.4	7.3
NR5-016	16	22.4	7.5
NR5-020	20	28.5	8.3

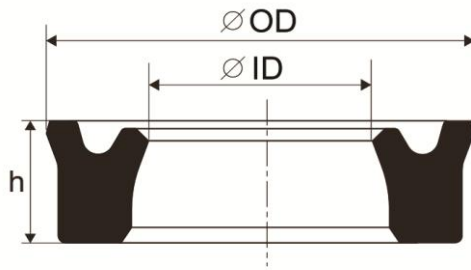
NPN ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~80°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h	H	C
* NPN-016	16	24	5.2	5.7	1.5
* NPN-020	20	28	5.2	5.7	1.5
* NPN-025	25	33	5.2	5.7	1.5

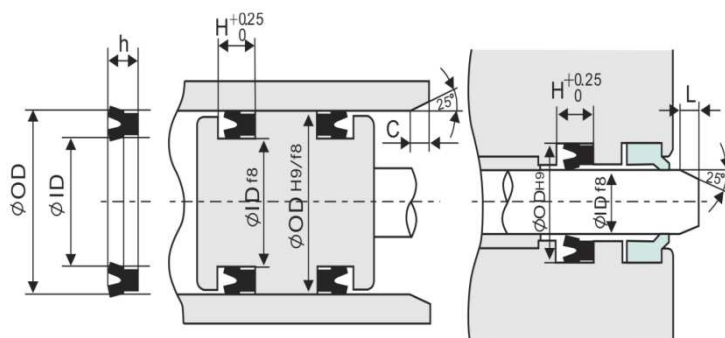
MY ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-10°C~80°C
SPEED	0.5 m/s

ITEM	ID	OD	h	Ga	Gb
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-007	7	10	2.1	2.5	3.9
MY-008	8	11	2.1	2.5	3.9
* MY-009	9	12	2.1	2.5	3.9
* MY-010	10	13	2.1	2.5	3.9
* 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-015	15	19	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

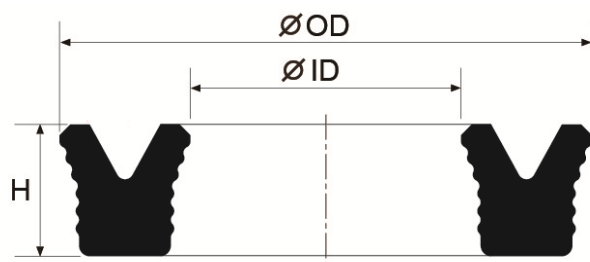
NYA PISTON & ROD SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-25°C~70°C	-5°C~150°C
PRESSURE	8kgf/cm ²	
SPEED	0.4m/s	

ITEM	ID	OD	h	H	C	L
NYA-003	3	6	2.1	2.5	2	1.5
NYA-004	4	7	2.1	2.5	2	1.5
NYA-005	5	8	2.1	2.5	2	1.5
NYA-006	6	9	2.1	2.5	2	1.5
NYA-007	7	10	2.1	2.5	2	1.5
NYA-008	8	11	2.1	2.5	2	1.5
NYA-009	9	12	2.1	2.5	2	1.5
NYA-010	10	13	2.1	2.5	2	1.5
NYA-010A	10	14	2.8	3.2	2.5	2
NYA-011	11	15	2.8	3.2	2.5	2
NYA-012	12	16	2.8	3.2	2.5	2
NYA-013.6	13.6	18	2.8	3.2	2.5	2
NYA-014	14	18	2.8	3.2	2.5	2
NYA-016	16	20	2.8	3.2	2.5	2
NYA-018	18	22	2.8	3.2	2.5	2
NYA-020	20	24	2.8	3.2	2.5	2
NYA-021	21	25	2.8	3.2	2.5	2
NYA-022	22	26	2.8	3.2	2.5	2
* NYA-024	24	30	4.2	4.7	3	3
* NYA-034	34	40	4.2	4.7	3	3

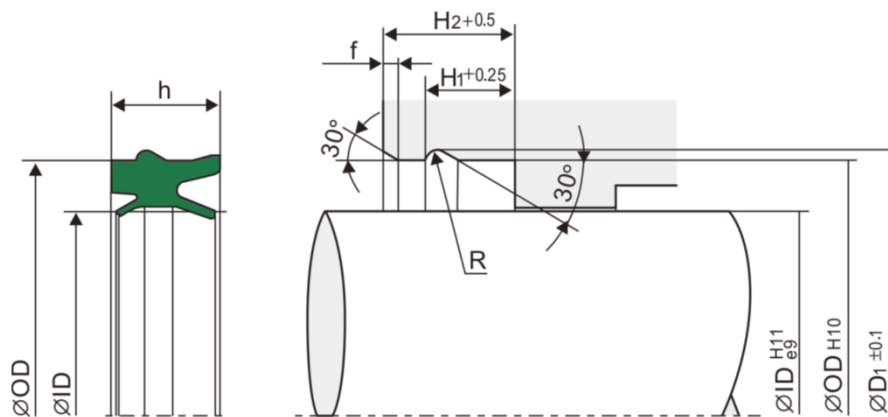
APY PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25 °C ~70°C
PRESSURE	10 kgf/cm ²
SPEED	1 m/s

ITEM	ID	OD	H
APY-135	135	150	9
APY-150	150	120	9

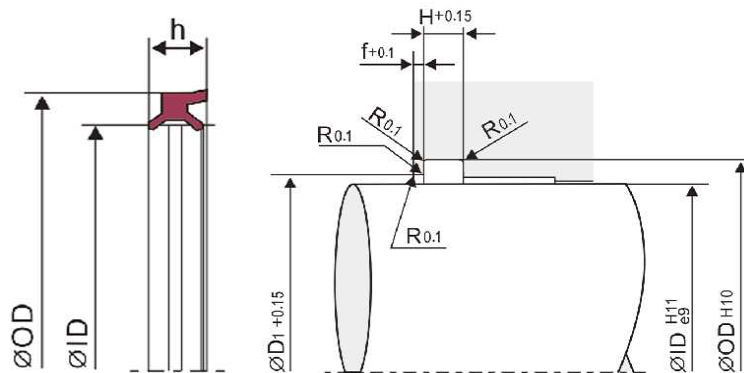
NEU ROD & WIPER SEAL



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

ITEM	ID	OD	h	D1	H1	H2	R	f
NEU-012	12	19	10	21	7.7	12	1	1.5
NEU-012	12	20	10.7	22	8.8	13	1.1	1.5
NEU-012	12	22	10.7	24	8.8	13	1.1	1.5
NEU-016	16	26	10.7	28	8.8	13	1.1	1.5
NEU-020	20	30	10.7	32	8.8	13	1.1	1.5
NEU-025	25	35	11.2	37.5	9.4	14	1.4	2
NEU-030	30	40	11.2	42.5	9.4	14	1.4	2
NEU-032	32	42	11.2	44.5	9.4	14	1.4	2
NEU-040	40	50	11.2	52.5	9.4	14	1.4	2

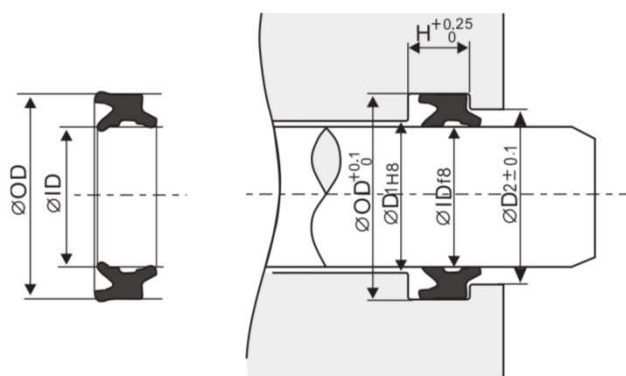
NEM ROD & WIPER SEAL



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

ITEM	ID	OD	h	D ₁	H	f
* NEM-004	4	7	2.8	5.6	2.7	0.8
NEM-006	6	9	2.8	8.1	2.7	1
NEM-008	8	11.5	3.2	10.1	3	1
NEM-010	10	14	3.7	12.1	3.4	1
NEM-012	12	16.5	4	14.1	3.7	1.2
NEM-016	16	20.5	4	18.1	3.7	1.2
NEM-020	20	25	4.6	23.1	4.15	1.2
NEM-025	25	30	4.6	26.9	4.15	1.2

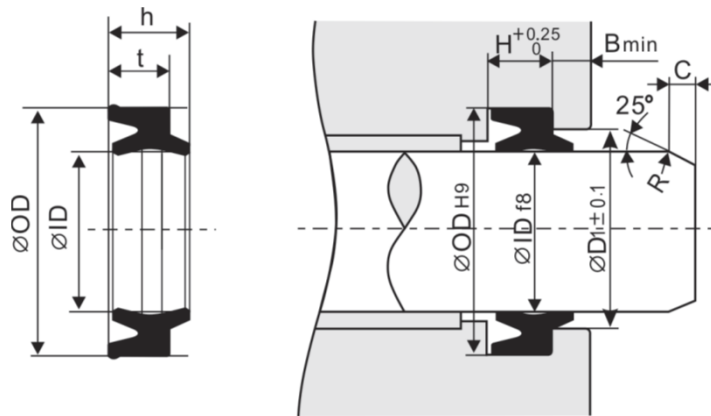
PDR ROD & WIPER SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-20°C~80°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

品名	ID	OD	H	D1	D2
PDR-016	16	24	6	16	19.4
PDR-020	20	28	6	20	23.4
PDR-025	25	33	6	25	28.4
PDR-030	30	40	7	30	34
PDR-035	35	45	7	35	39

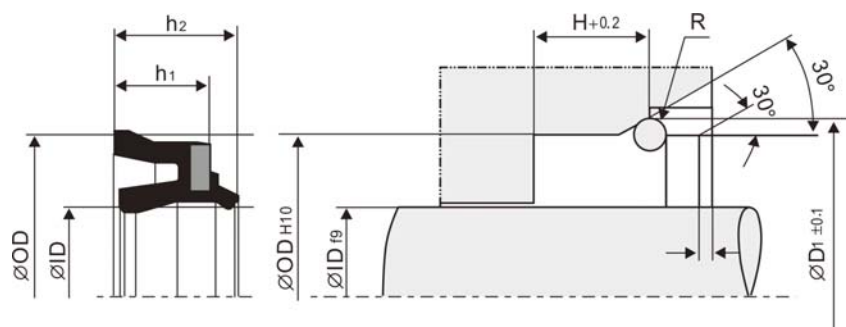
NDU ROD & WIPER SEAL



APPLICATION		
MATERIAL	NBR	FKM
TEMP.	-20°C~80°C	-15°C~160°C
PRESSURE	10kgf/cm ²	10kgf/cm ²
SPEED	1m/s	1m/s

ITEM	ID	OD	t/h	D1	H	B	R	C
NDU-006	6	10	3.0/4.4	7.6	3.5	2	0.5	1.5
NDU-008	8	12	3.5/4.7	9.6	4	2	0.5	1.5
NDU-010	10	14	3.5/4.7	11.6	4	2	0.5	1.5
NDU-012	12	16	3.5/4.7	13.6	4	2	0.5	1.5
NDU-013	13	20	5.0/6.5					
NDU-014	14	18	3.5/4.7	15.6	4	2	0.5	1.5
NDU-016	16	24	5.5/7.3	19.4	6	2	0.6	2
NDU-020	20	28	5.5/7.3	23.4	6	2	0.6	2
NDU-025	25	33	5.5/7.3	28.4	6	2	0.6	2
NDU-030	30	40	6.5/8.5	34	7	2	0.8	2.5
NDU-032	32	42	6.5/8.5	36	7	2	0.8	2.5
NDU-035	35	45	6.5/8.5	39	7	2	0.8	2.5
NDU-040	40	50	6.5/8.5	44	7	2	0.8	2.5
NDU-045	45	55	6.5/8.5	49	7	2	0.8	2.5
NDU-050	50	60	6.5/8.5	54	7	2	0.8	2.5

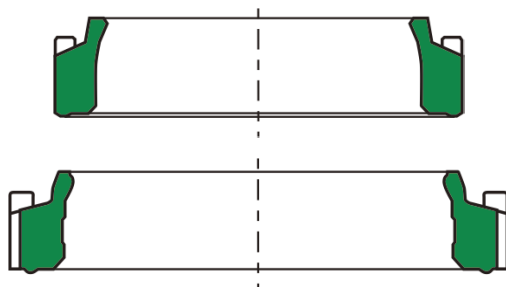
MBH ROD & WIPER SEAL



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

ITEM	ID	OD	h1	h2	D1	H	R
* MBH-012	12	20	6	8.5	22	7.5	1.1
* MBH-012	12	22	7	9.5	24	8.5	1.1
* MBH-014	14	24	7	9.5	26	8.5	1.1
MBH-016	16	26	7	9.5	28	8.5	1.1
MBH-018	18	26	6	8.5	28	7.5	1.1
MBH-020	20	30	7	9.5	32	8.5	1.1
MBH-022	22	32	7	9.5	34.5	8.8	1.4
MBH-025	25	35	7	9.5	37.5	8.8	1.4
MBH-030	30	40	7	9.5	42.5	8.8	1.4
MBH-032	32	42	7	9.5	44.5	8.8	1.4
MBH-040	40	50	7	9.5	52.5	8.8	1.4

NTP CUSHION SEAL

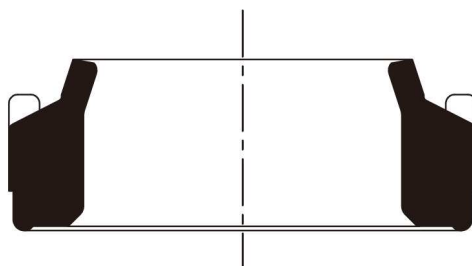


APPLICATION	
MATERIAL	PU
TEMP.	-35°C ~80°C
PRESSURE	16kgf/cm ²
SPEED	1m/s

*PP type

ITEM	ID	OD	t/h
* NTP-008	8	11.6	3.5
* NTP-009.5	9.5	15	4.6
* NTP-012	12	18	5
* NTP-014	14	22	7.8
* NTP-016x22	16	22	5.5
NTP-016x24	16	24	7.8
* NTP-018	18	26	7.8
NTP-020	20	28	7.8
* NTP-022	22	30	7.8
NTP-025	25	33	7.8
* NTP-028	28	36	7.8
NTP-030	30	40	7.8
* NTP-032	32	42	7.8
NTP-036	36	46	7.8
NTP-040	40	50	7.8
NTP-050	50	60	7.8
* NTP-057	57	74	11
* NTP-078	78	95	11

NTP CUSHION SEAL

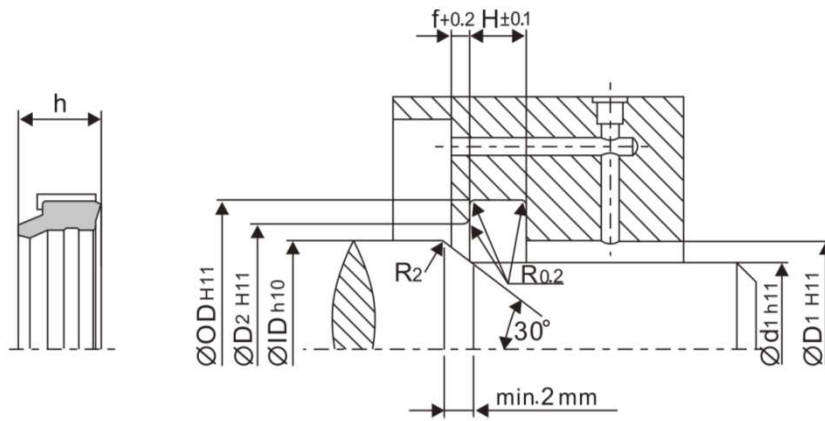


APPLICATION	
MATERIAL	NBR
TEMP.	-25℃~90℃
PRESSURE	16kgf/cm2
SPEED	1m/s

*PP type

ITEM	ID	OD	t/h
* NTP-008	8	11.6	3.5
* NTP-009.5	9.5	15	4.6
NTP-012	12	18	5
* NTP-014	14	22	7.8
NTP-015A	15	22	7.8
* NTP-016	16	22	5.5
NTP-016	16	24	7.8
* NTP-018	18	26	7.8
NTP-020A	20	26	7.8
NTP-020	20	28	7.8
* NTP-022	22	30	7.8
NTP-025	25	33	7.8
NTP-028	28	36	7.8
NTP-028A	28	37	7.8
NTP-030	30	40	7.8
* NTP-032	32	42	7.8
NTP-035A	35	45	7.8
* NTP-036	36	46	7.8
* NTP-040	40	50	7.8
* NTP-050	50	60	7.8
* NTP-057	57	74	11
* NTP-078	78	95	11

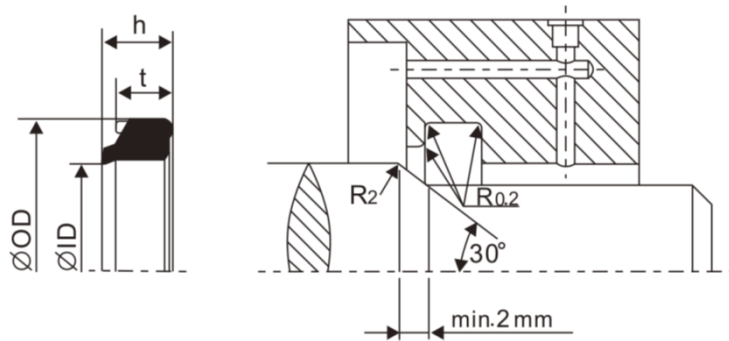
NTU CUSHION SEAL



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

ITEM	ID	OD	h	D1	D2	d1	H	f
NTU-016	16	24	7.8	17	21	14	7	2
NTU-020	20	28	7.8	21	24	17.5	7	2
NTU-022	22	30	7.8	23	26	19.5	7	2
NTU-025	25	33	7.8	26	29	22.5	7	2
NTU-028	28	36	7.8	29	32	25.5	7	2
NTU-030	30	40	7.8	31.5	35	27.5	7	2
NTU-035	35	45	7.8	36.5	40	32	7	2
NTU-040	40	50	7.8	41.5	45	37	7	2
NTU-050	50	60	7.8	51.5	55	47	7	2

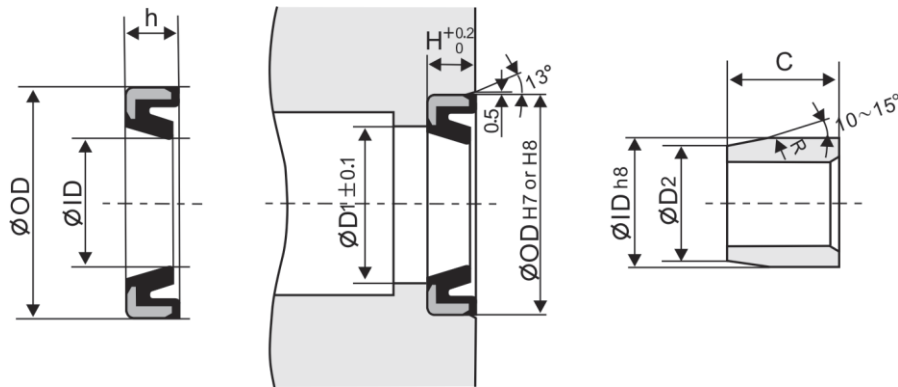
NTU CUSHION SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~90°C
PRESSURE	16kgf/cm2
SPEED	1m/s

ITEM	ID	OD	t/h
NTU-015	14.5	22	6.1/7.5
NTU-020	20	26.6	4.3/6.1
NTU-028	27.2	36.9	7.0/8.0
NTU-035	34.3	45	6.7/8.4

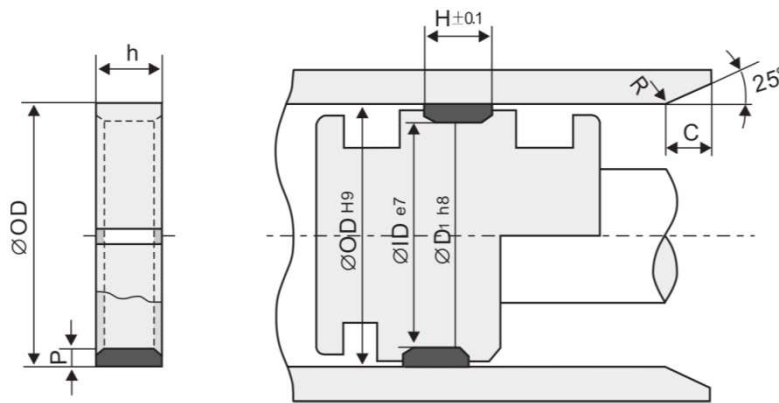
NVB CUSHION SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-20°C ~80°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	ID	OD	h/H	D1	D2	C
NVB-016	16	24	5	18.5	14	15~20
NVB-020	20	28	5	22.5	18	15~20
NVB-024	24	32	5	26.5	22	15~20
NVB-025	25	33	5	27.5	23	15~30
NVB-028	28	36	5	30.5	26	15~30
NVB-035	35	45	6	38	33	20~30
NVB-040	40	50	6	43	38	20~40
NVB-045	45	55	6	48	43	20~40
NVB-050	50	62	7	53	48	25~40
NVB-055	55	67	7	58	53	25~40
* NVB-060	60	72	7	63	58	25~40
* NVB-065	65	77	7	68	63	25~40
NVB-065	65	80	7	68	63	25~40

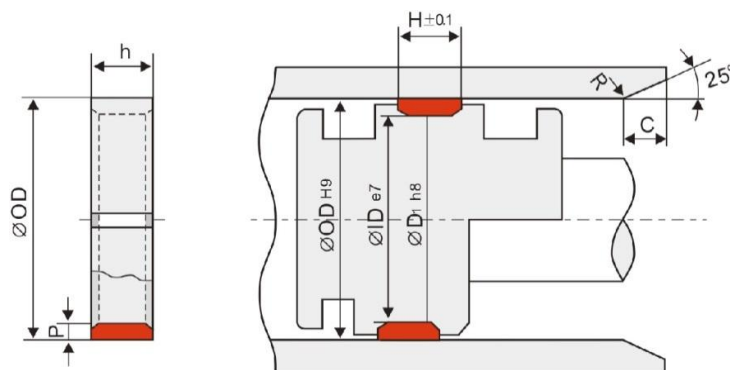
WRA WEAR RING



APPLICATION	
MATERIAL	PTFE
TEMP.	-55°C~200°C
PRESSURE	16kgf/cm ²
SPEED	3m/s

ITEM	OD	ID	h	P	D1	COLOUR
* WRA-020	20	17	3	1.5	19.5	WHITE
* WRA-025	25	22	3	1.5	24.5	WHITE
* WRA-030	30	27	4	1.5	29.5	WHITE
* WRA-032	32	29	4	1.5	31.5	WHITE
* WRA-040	40	36	5	2	39.5	BLACK
* WRA-050	50	46	5	2	49.5	BLACK
* WRA-063	63	59	6	2	62.4	BLACK
WRA-080	80	76	8	2	79.4	BLACK
WRA-100	100	95	10	2.5	99.4	BLACK
WRA-125	125	120	10	2.5	124.3	BLACK
* WRA-140	140	135	10	2.5	139.3	BLACK
* WRA-150	150	145	10	2.5	149.3	BLACK
WRA-160	160	155	10	2.5	159.3	BLACK
* WRA-180	180	175	10	2.5	179.3	BLACK
WRA-200	200	195	10	2.5	199.2	BLACK
* WRA-250	250	245	10	2.5	249.2	BLACK
* WRA-300	300	295	10	2.5	299.2	BLACK

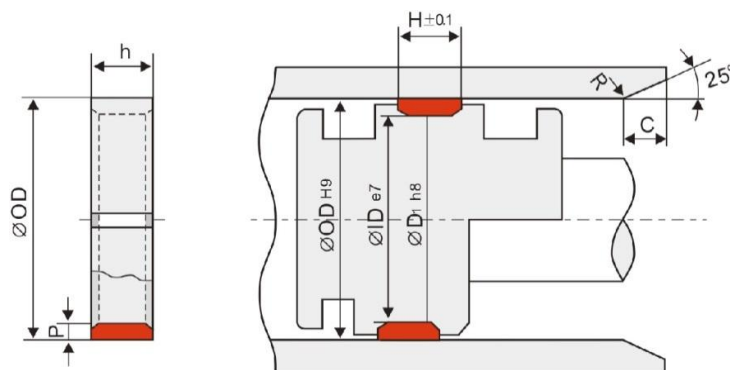
WROM WEAR RING



APPLICATION	
MATERIAL	POM
TEMP.	-40°C ~100°C
PRESSURE	16kgf/cm ²
SPEED	1m/s

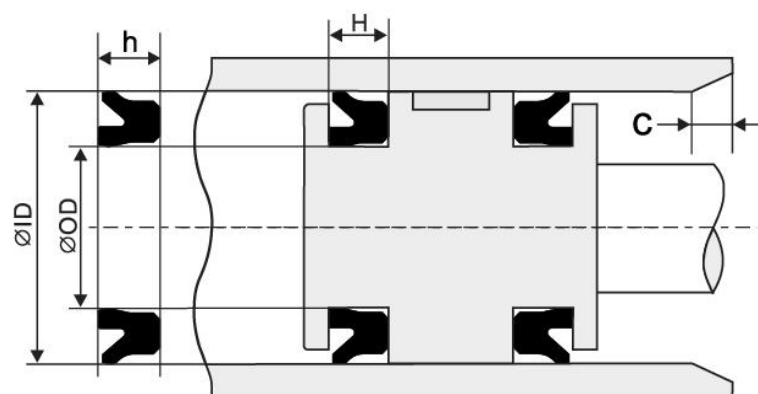
ITEM	OD	ID	h
WROM-010	10	7	3
WROM-012	12	9	3
WROM-015	15	12	3
WROM-018	18	15	3
WROM-020	20	17	2
WROM-020	20	17	3
WROM-022	22	18	3
WROM-025	25	22	2
WROM-025	25	22	3
WROM-030	30	27	3
WROM-030	30	27	4
WROM-032	32	28	9.6
WROM-032	32	29	3
WROM-032	32	29	4
WROM-040	40	36	4
WROM-040	40	36	5
WROM-040	40	36	9.6
WROM-040	40	37	3
WROM-050	50	45	6.35
WROM-050	50	46	4
WROM-050	50	46	5
WROM-050	50	46	9.7
WROM-050	50	47	4
WROM-063	63	58	6
WROM-063	63	58	9.7
WROM-063	63	59	4
WROM-063	63	59	6
WROM-063	63	59	8
WROM-080	80	75	8
WROM-080	80	75	9.7
WROM-080	80	76	4
WROM-063	63	59	4
WROM-080	80	76	6

WROM WEAR RING



APPLICATION	
MATERIAL	POM
TEMP.	-40°C ~100°C
PRESSURE	16kgf/cm ²
SPEED	1m/s

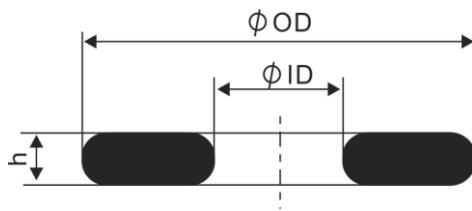
ITEM	OD	ID	h
WROM-080	80	76	8
WROM-100	100	95	8
WROM-100	100	95	9.7
WROM-100	100	96	4
WROM-100	100	96	6
WROM-100	100	96	8



APPLICATION	
MATERIAL	NBR
TEMP.	-25°C~70°C
PRESSURE	8kgf/cm ²
SPEED	0.4m/s

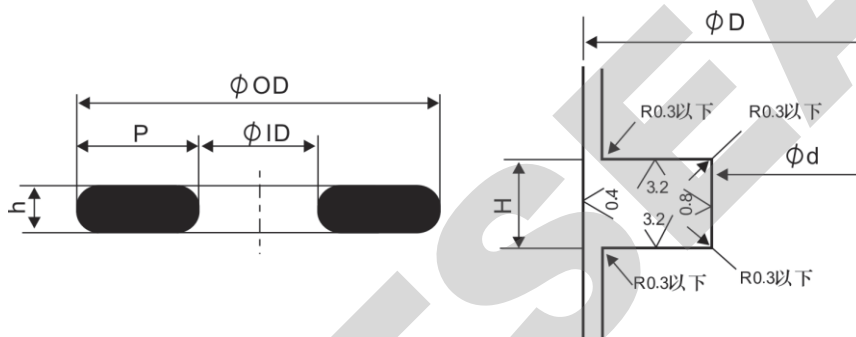
ITEM	OD	ID	h	H
* AYP-010	10	7	2.2	2.5
* AYP-012	12	9	2.2	2.5
AYP-014	14	10	2.8	3.2
* AYP-018	18	13.6	3	3.2
AYP-018	18	14	2.8	3.2
AYP-022	22	18	2.8	3.2
* AYP-024	24	20	2.8	3.2

I-RING SOLENOID VALVE SEAL



APPLICATION	
MATERIAL	HNBR
TEMP.	-30℃~120℃
PRESSURE	10kgf/cm ²
SPEED	1m/s

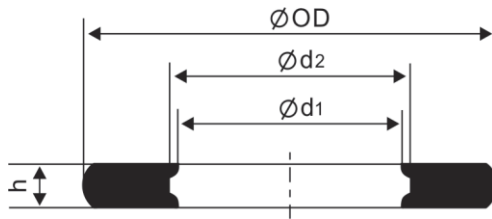
ITEM	BOREØ (inch)	OD	ID	h	MODEL	
G1014	1/8"	7.3	3.3	1	4A110	4V110
G1021	1/4"	10.2	5	1	4A210	4V210
G1027	3/8"	11.8	5.5	1	4A310	4V310
G1028	1/2"	16.2	8.4	1.1	4A410	4V410



APPLICATION	
MATERIAL	HNBR
TEMP.	-30℃~120℃
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	OD	ID	h	P	D	d	H
* NSP-05	5	3	0.5	1	5	3.1	0.7
* NSP-06	6	3	0.7	1.5	6	3.1	0.9
* NSP-07	7	3.5	0.9	1.75	7	3.6	1.1
NSP-7.62	7.62	3.9	0.88				
* NSP-010	10 ^{+0.10} _{+0.05}	5 ^{+0.10} _{+0.25}	1.3 ±0.05	2.5	10	5.1	1.5
* NSP-010.2	10.2	5	1.3				
NSP-10.35	10.35	5	1.3				
NSP-12	12	6.8	1.6				
* NSP-12.5	12.7	6.3	1.6	3	12.5	6.6	1.8
* NSP-16	16.3	8.2	1.6	4.5	16	8.4	1.8
* NSP-24	24.3	12.7	1.6	5.8	24	13	1.8

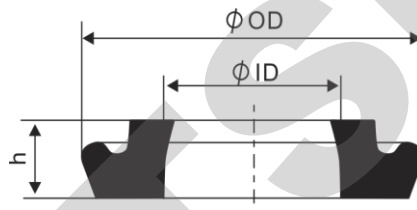
I-RING SOLENOID VALVE SEAL



APPLICATION	
MATERIAL	HNBR
TEMP.	-30°C~120°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	OD	d1	d2	h
* I-RING-6.12	6.12	2.9	0.1	0.66
I-RING-7.7	7.7	3.9	4.1	0.8
* I-RING-9.88	9.88	5	5.2	1.07
* I-RING-9.88	9.88	5.94	6.14	0.97
I-RING-10.0	10	5		1.3
I-RING-10.2	10.2	5		1.3
I-RING-10.4	10.4	5	5.2	1.3
I-RING-12.6	12.6	7.4	7.8	1.4
* I-RING-14.1	14.1	8.3		1.6
* I-RING-15.1	15.06	7.9	8.2	1.35
* I-RING-23.1	23.1	14.9	15.3	1.375

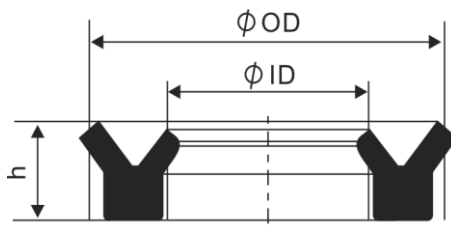
SOLENOID VALVE-PISTON SEAL



APPLICATION	
MATERIAL	HNBR
TEMP.	-30°C~120°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	BOREØ (inch)	OD	ID	h	MODEL	
G1019	1/4"	10.25	6	2	4A210	4V210
G1025	3/8"	11.75	7.7	2	4A310	4V310
G1022	1/2"	16.3	11.7	2.9	4A410	4V410

NPR SOLENOID VALVE-ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-30°C~120°C
PRESSURE	10kgf/cm ²
SPEED	1m/s

ITEM	BOREØ (inch)	ID	OD	h	MODEL
NPR-010	1/8"	10	14.3	2	4V110
NPR-014	1/4"	13.3	18.1	2.2	4V210
NPR-017	3/8"	16.8	21.4	3.2	4V310



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