



OIL SEALS



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INDEX



Rotating



Reciprocating



Oscillating

MOVEMENT	PROFILE	TYPE	LIP MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	PAGE
Rotating		SC	FKM	-15°C~150°C	0.3	1-2
			NBR	-30°C~80°C		
		SCY	NBR	-30°C~80°C	0.3	3
		SB	NBR	-30°C~80°C	0.3	
		SD	FKM NBR	(F)-15°C~150°C (N)-30°C~80°C	0.3	3
		TC			0.3	4-7
		TB	NBR SILICONE	(N)-30°C~80°C (S)-45°C~130°C	0.3	8-12
		TB2			0.3	
		VB	NBR	-30°C~80°C	-	13
		VC			-	13
		VHY	NBR	-30°C~80°C	0.3	14
		DCY	FKM	-15°C~150°C	0.3	
			NBR	-30°C~60°C		

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MOVEMENT	PROFILE	TYPE	LIP MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	PAGE
Rotating		SW	FKM	-15°C~150°C	0.3	15
			NBR	-30°C~60°C		
		15Z(DC)	NBR	-30°C~60°C		
		DB	NBR	-30°C~60°C	0.3	16
		DB2				
		OHTG9W /OHT6YR	NBR	-30°C~80°C	0.3	17
		VG	FKM+PTFE	-15°C~150°C	0.3	
Rotating and Oscillating		DL2	PU	-45°C~100°C	-	18-21
		DWP/VB	NBR	-30°C~100°C	1	
		VAY	NBR	-30°C~80°C	-	22
		PPY PP2Y	PU	-45°C~100°C	-	23
			NBR	-30°C~80°C		

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Rotating



Reciprocating



Oscillating

MOVEMENT	PROFILE	TYPE	LIP MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	PAGE
Rotating		COMBI	NBR+PU	-30°C~80°C	0.3	24
		CASSETTE	NBR	-30°C~80°C	0.3	25
		TA	FKM NBR	(F)-15°C~150°C (N)-30°C~80°C	0.3	26
		TA2			0.3	
		SG	FKM+PTFE	-15°C~150°C	0.3	
Rotating Oil Seals for high Pressure		TCV	FKM NBR	(F)-15°C~120°C (N)-15°C~ 60°C	3	27-29
		TC6Y			3	30
		ISP1D			3	31-32
		TCN			10	33-34
		TCZ			20	35

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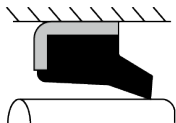
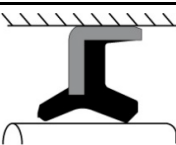
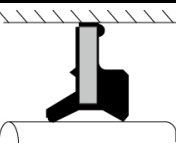
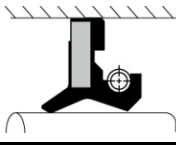
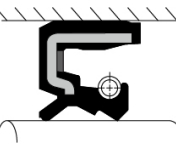
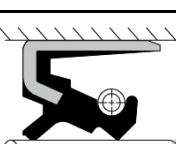
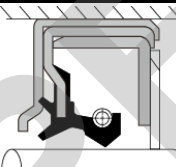
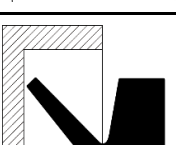
Rotating

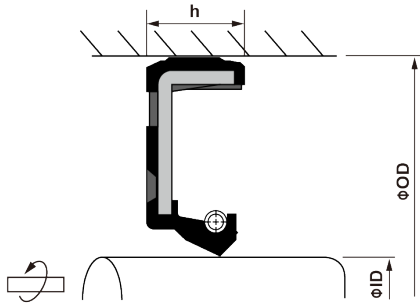


Reciprocating



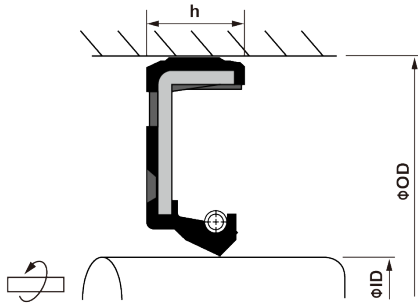
Oscillating

MOVEMENT	PROFILE	TYPE	LIP MATERIAL	TEMPERATURE	PRESSURE (kgf/cm ²)	PAGE
Reciprocating		DA2	NBR	-35°C~80°C	-	36-37
		DKN				38-39
		KCY				40
		TC4WY				
		TC4				41
		TB4				
Application		SWING	NBR	-30°C~80°C	0.3	42-44
		CENTER JOINT				45
		VA	NBR	-20°C~100°C	-	46-47



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30°C~80°C	-15°C~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

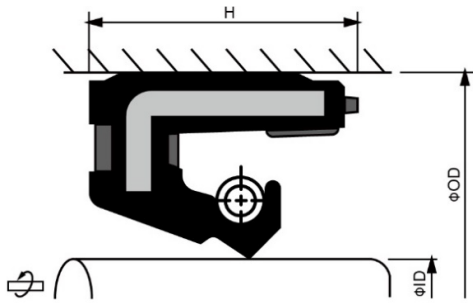
ITEM	ID	OD	h	NBR	FKM
SC-6*16*7	6	16	7	●	
SC-8*22*7	8	22	7	●	
* SC-10*22*8	10	22	8		
* SC-10*25*7	10	25	7		
* SC-11*22*7	11	22	7		
SC-12*24*6	12	24	6	●	
* SC-12*28*7	12	28	7		
* SC-15*24*7	15	24	7		
* SC-15*28*7	15	28	7		
SC-15*30*7	15	30	7		
* SC-15*35*7	15	35	7		
SC-17*28*7	17	28	7		
SC-17*30*5	17	30	5		●
SC-17*30*7	17	30	7	●	
* SC-17*32*7	17	32	7		
SC-17*35*7	17	35	7		
SC-17*35*8	17	35	8		
* SC-18*30*7	18	30	7		
SC-18*35*8	18	35	8		
SC-20*30*5	20	30	5		●
SC-20*32*5	20	32	5	●	
SC-20*35*7	20	35	7	●	
SC-20*40*7	20	40	7		
SC-20*42*7	20	42	7	●	
* SC-22*35*7	22	35	7		
SC-22*36*8	22	36	8		
SC-22*55*7	22	55	7		●
* SC-24*40*7	24	40	7		
SC-25*35*7	25	35	7	●	
SC-25*35*8	25	35	8	●	
SC-25*38*7	25	38	7	●	●
SC-25*40*7	25	40	7	●	●
SC-25*40*8	25	40	8	●	
* SC-25*42*10	25	42	10		
SC-25*52*7	25	52	7	●	
* SC-28*48*11	28	48	11		
SC-28.56*42*5.5	28.56	42	5.5	●	
SC-30*42*8	30	42	8		
SC-30*47*7	30	47	7		●
* SC-30*50*7	30	50	7		
SC-30*50*11	30	50	11	●	



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30°C~80°C	-15°C~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
* SC-30*52*7	30	52	7		
SC-30*52*10	30	52	10	●	
SC-30*55*7	30	55	7	●	●
SC-30*55*8	30	55	8	●	
SC-35*33.4*4	25	33.4	4		●
SC-33*45*7	33	45	7	●	
* SC-35*47*7	35	47	7		
SC-35*48*5.5	35	48	5.5	●	
SC-35*48*6	35	48	6	●	
SC-35*50*7	35	50	7		
SC-35*52*7	35	52	7	●	●
SC-35*55*8	35	55	8	●	
SC-38*50*8	38	50	8	●	
* SC-40*55*7	40	55	7		
SC-40*55*8	40	55	8		
* SC-40*58*8	40	58	8		
* SC-45*60*7	45	60	7		
SC-45*65*10	45	65	10		
HSC 47.6	47.6	72	8		●
SC-50*70*10	50	70	10		
* SC-50*72*9	50	72	9		
SC-50*75*10	50	75	10	●	
* SC-52*72*10	52	72	10		
SC-60*80*10	60	80	10	●	
SC-60*82*12	60	82	12		
SC-60*90*10	60	90	10	●	
SC-70*90*10	70	90	10	●	●
SC-70*95*13	70	95	13		
SC-75*95*10	75	95	10	●	
SC-75*100*13	75	100	13		
SC-80*100*10	80	100	10		
SC-80*115*10	80	115	10	●	
* SC-85*110*13	85	110	13		
* SC-110*140*14	110	140	14		
* SC-115*145*14	115	145	14		
SC-140*170*12.5	140	170	12.5	●	
* SC-160*190*15	160	190	15		
SC-165.1*190.5*13.5	165.1	190.5	13.5	●	
* SC-230*260*15	230	260	15		
* SC-240*270*15	240	270	15		

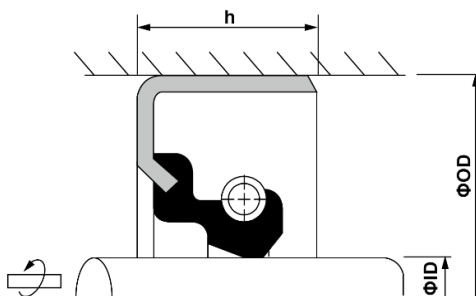
SCY



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	6kgf/cm ²

ITEM	ID	OD	H
SCY - 16*28*7	16	28	7
SCY - 18*28*8	18	28	8
SCY - 57*125*8	57	125	8

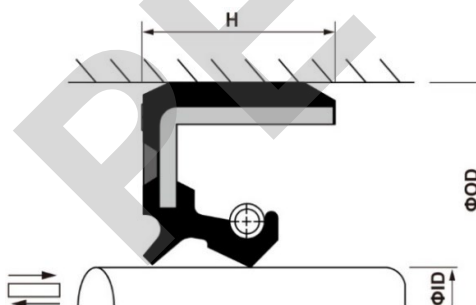
SB



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C ~ 80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h
* SB-6*11*4	6	11	4
* SB-17*35*8	17	35	8
* SB-40*47*4	40	47	4
* SB-57.12*67*5.5	57.12	67	5.5
* SB-80*95*5	80	95	5

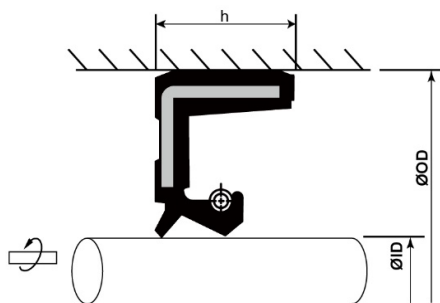
SD



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30~80°C	-15~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

ITEM	ID	OD	H	NBR	FKM
SD-019	19.00	31.7	8.0		•
SD-021	21.00	33.0	8.0	•	
SD-024.95	24.95	40.0	8.0	•	
SD-031.75	31.75	50.8	8.0		•
SD-038.1	38.10	50.8	8.2		•
SD-034	34.00	54.0	11.0	•	
SD-045	45.00	68.0	12.0		

TC

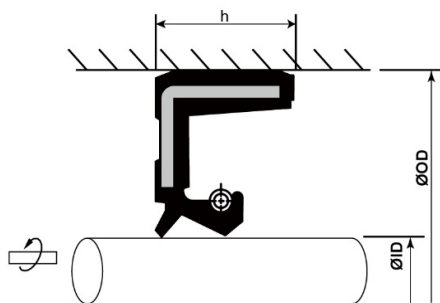


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APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30°C~80°C	-15°C~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TC-6*14*4	6	14	4	●	
TC-6*22*7	6	22	7	●	
TC-8*18*7	8	18	7	●	
TC-8*22*7	8	22	7	●	●
TC-10*16*4	10	16	4	●	
TC-10*22*7	10	22	7	●	●
TC-12*19*5	12	19	5	●	
TC-12*25*5	12	25	5	●	
TC-12*22*7	12	22	7	●	
TC-12*28*8	12	28	8	●	
TC-14*24*5	14	24	5	●	
TC-14*28*7	14	28	7	●	
TC-15*25*5	15	25	5	●	
TC-15*26*6	15	26	6	●	
TC-15*30*7	15	30	7	●	
TC-16*26*6	16	26	6	●	
TC-16*28*7	16	28	7	●	
TC-17*30*5	17	30	5		●
TC-17*35*5	17	35	5	●	●
TC-17*28*7	17	28	7	●	
TC-17*30*7	17	30	7	●	●
TC-17*35*7	17	35	7	●	●
TC-17*30*8	17	30	8	●	
TC-17*32*8	17	32	8	●	
TC-17*35*8	17	35	8	●	
TC-18*32*7	18	32	7	●	
TC-18*35*8	18	35	8		
TC-19*32*8	19	32	8	●	●
TC-20*26*4	20	26	4	●	
TC-20*28*4	20	28	4	●	
TC-20*30*5	20	30	5	●	●
TC-20*32*5	20	32	5	●	●
TC-20*35*5	20	35	5	●	●
TC-20*30*7	20	30	7	●	
TC-20*35*7	20	35	7	●	●
TC-20*37*7	20	37	7	●	
TC-20*38*7	20	38	7	●	●
TC-20*40*7	20	40	7		
TC-20*45*7	20	45	7	●	
TC-20*32*8	20	32	8	●	
TC-20*35*8	20	35	8		

TC

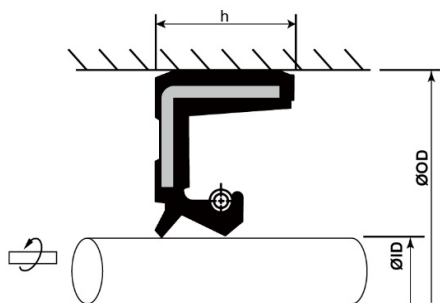


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APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30°C~80°C	-15°C~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TC-20*40*8	20	40	8	●	
TC-20*45*8	20	45	8	●	
TC-22*32*6	22	32	6	●	
TC-22*32*7	22	32	7	●	●
TC-22*42*11	22	42	11	●	
TC-24*40*8	24	40	8	●	
TC-25*35*5	25	35	5	●	●
TC-25*40*5	25	40	5	●	●
TC-25*35*7	25	35	7	●	●
TC-25*38*7	25	38	7	●	●
TC-25*40*7	25	40	7	●	●
TC-25*45*7	25	45	7	●	
TC-25*47*7	25	47	7	●	●
TC-25*35*8	25	35	8	●	
TC-25*38*8	25	38	8	●	●
TC-25*40*8	25	40	8	●	●
TC-25*42*8	25	42	8	●	●
TC-25*45*8	25	45	8	●	
TC-25*47*8	25	47	8	●	
TC-26*42*8	26	42	8	●	
TC-28*38*8	28	38	8	●	
TC-28*40*8	28	40	8	●	
TC-30*40*7	30	40	7	●	●
TC-30*42*7	30	42	7	●	●
TC-30*47*7	30	47	7	●	●
TC-30*55*7	30	55	7	●	●
TC-30*42*8	30	42	8	●	
TC-30*45*8	30	45	8	●	●
TC-30*50*8	30	50	8	●	●
TC-30*55*8	30	55	8	●	
TC-30*52*10	30	52	10	●	
TC-30*55*10	30	55	10	●	●
TC-30*50*11	30	50	11	●	
TC-32*48*8	32	48	8		
TC-32*52*8	32	52	8	●	
TC-32*52*11	32	52	11	●	
TC-35*45*7	35	45	7	●	●
TC-35*50*7	35	50	7		
TC-35*52*7	35	52	7	●	●
TC-35*72*7	35	72	7		
TC-35*45*8	35	45	8	●	

TC

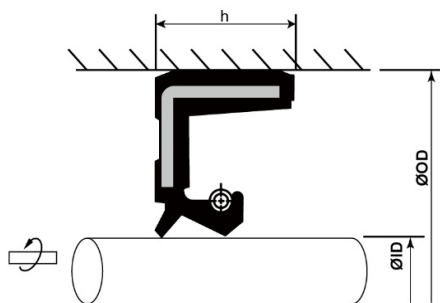


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APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30°C~80°C	-15°C~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TC-35*48*8	35	48	8		
TC-35*55*8	35	55	8	●	●
TC-35*55*11	35	55	11	●	
TC-35*52*12	35	52	12	●	
TC-38*50*8	38	50	8	●	●
TC-40*52*5	40	52	5	●	●
TC-40*50*8	40	50	8	●	
TC-40*52*8	40	52	8	●	
TC-40*55*8	40	55	8	●	●
TC-40*62*8	40	62	8	●	●
TC-40*62*10	40	62	10	●	
TC-40*60*12	40	60	12		
TC-40*62*12	40	62	12	●	●
TC-40*65*12	40	65	12	●	
TC-42*65*9	42	65	9	●	
TC-42*65*12	42	65	12	●	
TC-44.9*75*8	44.9	75	8		●
TC-45*58*7	45	58	7	●	
TC-45*62*8	45	62	8		●
TC-45*75*8	45	75	8		●
TC-45*62*9	45	62	9		
TC-45*75*10	45	75	10	●	
TC-45*68*12	45	68	12	●	
TC-50*65*8	50	65	8	●	
TC-50*65*9	50	65	9	●	
TC-50*70*10	50	70	10		
TC-50*72*10	50	72	10	●	
TC-50*75*10	50	75	10	●	●
TC-50*72*12	50	72	12		
TC-55*80*10	55	80	10		
TC-55*78*12	55	78	12		●
TC-59*68*5	59	68	5		●
TC-60*75*9	60	75	9	●	●
TC-60*80*10	60	80	10		●
TC-60*90*11	60	90	11	●	
TC-60*80*12	60	80	12		
TC-60*82*12	60	82	12		●
TC-62*85*12	62	85	12	●	
TC-65*95*14	65	95	14	●	
TC-69*78*5	69	78	5		●
TC-70*90*10	70	90	10		

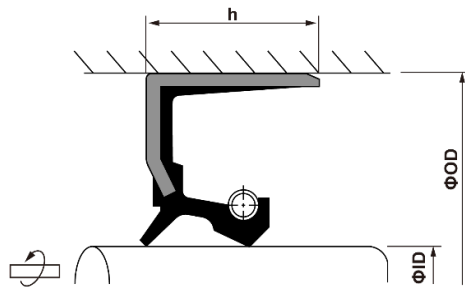
TC



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APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30°C~80°C	-15°C~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

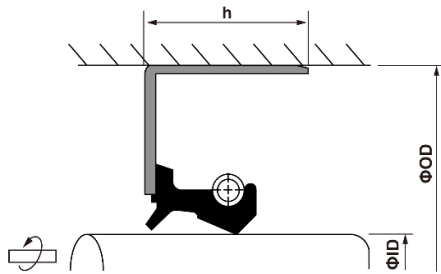
ITEM	ID	OD	h	NBR	FKM
TC-70*90*12	70	90	12		
TC-70*92*12	70	92	12		
TC-70*95*13	70	95	13	●	
TC-75*95*10	75	95	10	●	
TC-75*100*13	75	100	13	●	
TC-80*100*10	80	100	10	●	
TC-84*94*5	84	94	5		●
TC-85*110*12	85	110	12		
TC-90*110*10	90	110	10	●	
TC-90*110*12	90	110	12		
TC-90*120*12	90	120	12		
TC-95*120*13	95	120	13	●	●
TC-100*130*12	100	130	12		
TC-100*125*13	100	125	13	●	
TC-105*130*12	105	130	12		
TC-110*122*5	110	122	5		●
TC-110*135*13	110	135	13	●	
TC-120*150*14	120	150	14	●	
TC-120*160*15	120	160	15	●	
TC-125*150*14	125	150	14	●	
TC-130*160*15	130	160	15	●	
TC-135*160*15	135	160	15	●	
TC-140*170*15	140	170	15	●	
(inch)					
TC-92.07*120.65*12.7	92.07	120.65	12.7	●	



APPLICATION		
MATERIAL	NBR+STEEL	SILICONE+STEEL
TEMP.	-30°C~80°C	-45°C~130°C
PRESSURE	0.3 kgf/cm ²	0.3 kgf/cm ²

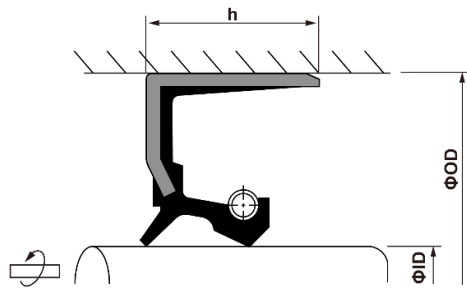
ITEM	ID	OD	h	NBR	SILICONE
TB-15*32*10	15	32	10	●	
TB-22*42*10	22	42	10	●	
TB-25*33*6	25	33	6		●
* TB-25.4*41.25*9.5	25.4	41.25	10		●
TB-35*54*8	35	54	8	●	●
TB-42*52*8	42	52	8	●	
TB-45*68*12	45	68	12		●
TB-48*70*12	48	70	12	●	●
TB-55*78*12	55	78	12		●
TB-60*82*12	60	82	12		●
TB-65*77*12	65	77	12	●	
TB-65*90*13	65	90	13	●	●
TB-70*92*12	70	92	12		●
TB-75*100*13	75	100	13	●	●
TB-80*105*13	80	105	13	●	●
TB-85*110*13	85	110	13	●	●
TB-95*120*13	95	120	13	●	
TB-105*135*14	105	135	14	●	
TB-120*150*14	120	150	14	●	
TB-140*170*14	140	170	14	●	
TB-145*175*14	145	175	14	●	
TB-150*180*14	150	180	14	●	
* TB-155*180*16	155	180	16	●	
TB-160*190*16	160	190	16	●	
* TB-170*200*16	170	200	16	●	
TB-180*210*16	180	210	16	●	
TB-190*225*16	190	225	16	●	
* TB-220*250*15	220	250	15	●	
TB-220*250*16	220	250	16	●	
TB-240*275*16	240	275	16	●	
* TB-280*320*20	280	320	20	●	
TBY-22*42*7	22	42	7	●	
TBR-65*90*13	65	90	13	●	

TB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3 kgf/cm ²

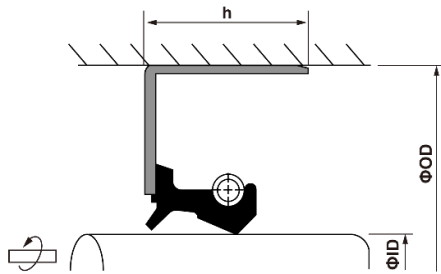
ITEM	ID	OD	h	NBR
TB-15*22*4	15	22	4	●
TB-28*48*11	28	48	11	●
TB-35*55*11	35	55	11	●
TB-40*62*11	40	62	11	●
TB-42*53*8	42	53	8	●
TB-42*55*8	42	55	8	●
TB-42*60*9	42	60	9	●
TB-48*70*12	48	70	12	●
TB-50*80*10	50	80	10	●
* TB-65*90*13	65	90	13	
* TB-85*110*13	85	110	13	
* TB-90*115*13	90	115	13	
TB-90*115*14	90	115	14	●
TB-100*125*13	100	125	13	●
TB-100*125*14	100	125	14	●
TB-110*140*14	110	140	14	●
TB-115*145*14	115	145	14	●
TB-120*155*18	120	155	18	●
TB-125*155*14	125	155	14	●
TB-130*160*14	130	160	14	●
* TB-135*165*14	135	165	14	
TB-145*170*13	145	170	13	●
TB-240*275*16	240	275	16	●
TB-280*320*22	280	320	22	●



APPLICATION		
MATERIAL	NBR+STEEL	SILICONE+STEEL
TEMP.	-30°C~80°C	-45°C~130°C
PRESSURE	0.3 kgf/cm ²	0.3 kgf/cm ²

ITEM	ID	OD	h	NBR	SILICONE
TB-15*32*10	15	32	10	●	
TB-22*42*10	22	42	10	●	
TB-25*33*6	25	33	6		●
* TB-25.4*41.25*9.5	25.4	41.25	10		●
TB-35*54*8	35	54	8	●	●
TB-42*52*8	42	52	8	●	
TB-45*68*12	45	68	12		●
TB-48*70*12	48	70	12	●	●
TB-55*78*12	55	78	12		●
TB-60*82*12	60	82	12		●
TB-65*77*12	65	77	12	●	
TB-65*90*13	65	90	13	●	●
TB-70*92*12	70	92	12		●
TB-75*100*13	75	100	13	●	●
TB-80*105*13	80	105	13	●	●
TB-85*110*13	85	110	13	●	●
TB-95*120*13	95	120	13	●	
TB-105*135*14	105	135	14	●	
TB-120*150*14	120	150	14	●	
TB-140*170*14	140	170	14	●	
TB-145*175*14	145	175	14	●	
TB-150*180*14	150	180	14	●	
* TB-155*180*16	155	180	16	●	
TB-160*190*16	160	190	16	●	
* TB-170*200*16	170	200	16	●	
TB-180*210*16	180	210	16	●	
TB-190*225*16	190	225	16	●	
* TB-220*250*15	220	250	15	●	
TB-220*250*16	220	250	16	●	
TB-240*275*16	240	275	16	●	
* TB-280*320*20	280	320	20	●	
TBY-22*42*7	22	42	7	●	
TBR-65*90*13	65	90	13	●	

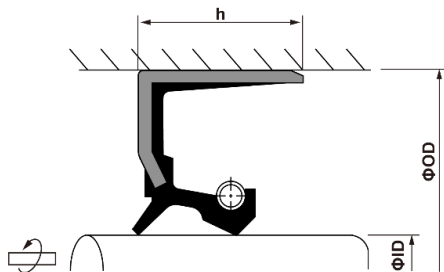
TB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3 kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TB2-15*22*4	15	22	4	●	
TB2-28*48*11	28	48	11	●	
TB2-35*55*11	35	55	11	●	
TB2-40*62*11	40	62	11	●	
TB2-42*53*8	42	53	8	●	
TB2-42*55*8	42	55	8	●	
TB2-42*60*9	42	60	9	●	
TB2-48*70*12	48	70	12		●
TB2-50*80*10	50	80	10	●	
* TB2-65*90*13	65	90	13		●
* TB2-85*110*13	85	110	13	●	
* TB2-90*115*13	90	115	13	●	
TB2-90*115*14	90	115	14	●	
TB2-100*125*13	100	125	13	●	
TB2-100*125*14	100	125	14	●	
TB2-110*140*14	110	140	14	●	
TB2-115*145*14	115	145	14	●	
TB2-120*155*18	120	155	18	●	
TB2-125*155*14	125	155	14	●	
TB2-130*160*14	130	160	14	●	
* TB2-135*165*14	135	165	14	●	
TB2-145*170*13	145	170	13	●	
TB2-240*275*16	240	275	16	●	
TB2-280*320*22	280	320	22	●	

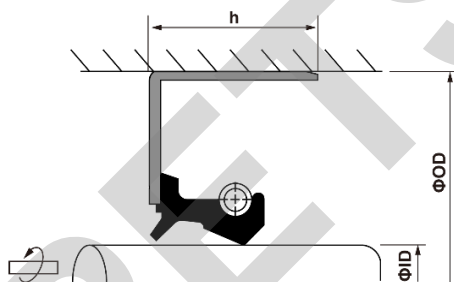
TB



APPLICATION		
MATERIAL	NBR+STEEL	SILICONE+STEEL
TEMP.	-30°C~80°C	-45°C~130°C
PRESSURE	0.3 kgf/cm ²	0.3 kgf/cm ²

ITEM	ID	OD	h	NBR	SILICONE
TB-0.75	0.750	1.124	0.187	●	
TB-0.942	0.942	1.496	0.250	●	
TB-1.29	1.290	2.000	0.312	●	
TB-1.375	1.375	2.125	0.312	●	
TB-1.937	1.937	2.470	0.312	●	
TB-2.25	2.250	3.000	0.375	●	
TB-2.417	2.417	3.355	0.375	●	●
TB-2.34	2.340	3.355	0.650	●	
TB-12.74	12.74	25.40	6.350	●	

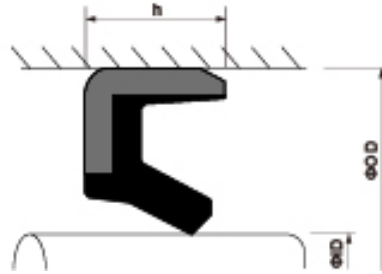
TB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3 kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TB2-1.078	1.078	1.625	0.254		●
TB2-1.078	1.078	1.625	0.254		●
TB2-1.25	1.250	2.000	0.437		●
TB2-1.25	1.250	2.000	0.437		●
TB2-1.399	1.399	2.250	0.250	●	
TB2-1.399	1.399	2.258	0.250	●	
TB2-2.5	2.500	3.250	0.375	●	
TB2-2.5	2.500	3.250	0.625	●	
* TB2-25.4	25.40	41.25	9.500	●	

VB



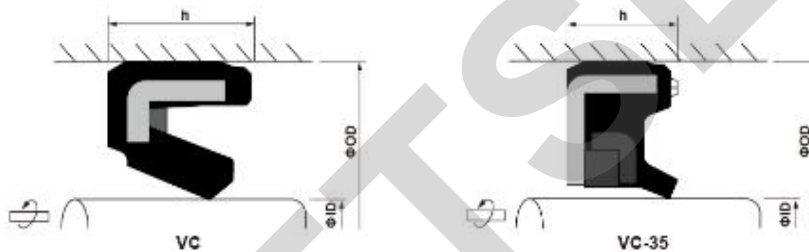
APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C

ITEM	ID	OD	h
VB-8*12*3	8	12	3.0
VB-12*18*5	12	18	5.0
VB-19*26*4	19	26	4.0
VB-25*32*4	25	32	4.0
VB-28*35*4	28	35	4.0
VB-28*37*6	28	37	6.0
VB-28*39*6	28	39	6.0
* VB-65*80*4	65	80	4.0
VB-110*125*5.5	110	125	5.5

(INCH)

VB-01	1.000	1.250	0.125
VB 1.75	1.750	2.000	0.125
VB 2.125	2.125	2.875	0.268
VB 3.125	3.125	3.750	0.312

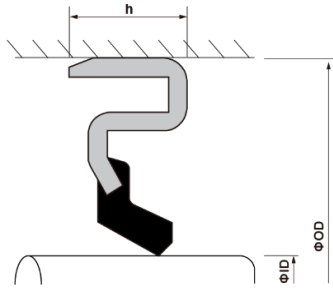
VC



APPLICATION		
MATERIAL	NBR+STEEL	NBR+PTFE+STEEL
TEMP.	-30°C ~ 80°C	-30°C ~ 80°C

ITEM	ID	OD	h
* VC-12*18*3	12	18	3.0
VC-33*40*3.4	33	40	3.4
* VC-12*21*4	12	21	4.0
* VC-15*21*4	15	21	4.0
* VC-18*24*4	18	24	4.0
VC-33*46*4	33	46	4.0
* VC-9*17*4.5	9	17	4.5
VC-35*48*4.8	35	48	4.8
* VC-10*20*5	10	20	5.0
VC-35*46*5	35	46	5.0
VC-80*100*7	80	100	7.0
(INCH)			
VC-1	1	1.25	0.165
VC-1.75	1.75	2.5	0.156

VHY

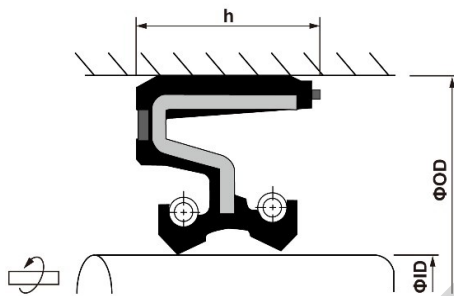


Unit : inch

APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C ~ 80°C
PRESSURE	0.3 kgf/cm ²

ITEM	ID	OD	h
VHY 1.5	1.5	2.25	0.25

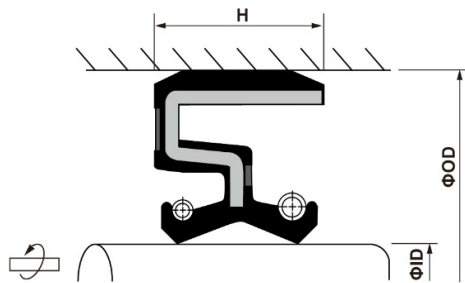
DCY



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-30°C~60°C	-15°C~150°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
DC4Y-012.5	12.5	26	7	●	
DC4Y-020	20	32	10	●	
DC4Y-040	40	50	7.5	●	
DCY-045	45	68	12		●
DCY-055	55	78	12		●
DCY-060	60	82	12		●
(inch)					
DCY-2.5	2.5	4.329	0.948	●	
DCY-3.5	3.5	4.5	0.52	●	

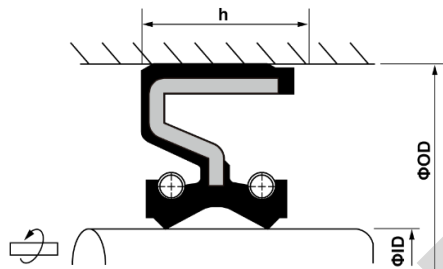
SW



APPLICATION		
MATERIAL	FKM+STEEL	NBR+STEEL
TEMP.	-15°C ~ 150°C	-30°C ~ 60°C
PRESSURE	0.3kgf/cm ²	0.3kgf/cm ²

ITEM	ID	OD	H	PART NO.
SW 045	45	65	10	
SW 042	42	65	12	
SW 055	55	78	12	
SW 060	60	82	12	

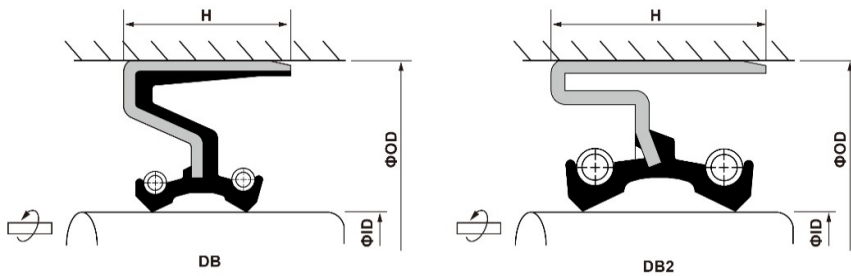
15Z(DC)



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C ~ 60°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	H	PART NO.
15Z-140	140	170	17	
15Z-150	150	180	15.2	
15Z-155	155	180	15	
15Z-160	160	190	16.5	

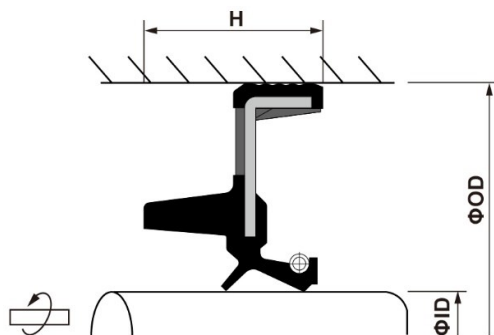
DB, DB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C ~ 60°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	H
DB-020	20	40	17
* DB-048	48	70	18
DB-070	70	95	20
DB-075	75	100	20
DB-080	80	105	20
DB-090	90	115	20
DB-090	90	120	18
DB-095	95	120	17
DB-100	100	125	20
* DB-105	105	135	18
DB-110	110	140	22
DB-120	120	150	22
* DB-125	125	155	22
DB-140	140	170	20
DB-160	160	190	23
DB-200	200	230	16
DB-200	200	235	26
DB-232	232	267	21
DB-240	240	275	21
DB-245	245	285	27
DB-252	252	287	21
DB-252	252	287	21
DB-260	260	300	28
DB2-122	122	152	21
DB2-122	122	155	21
DB2-160	160	195	21
DB2-190	190	225	21

OHTG9W / OHTGYR

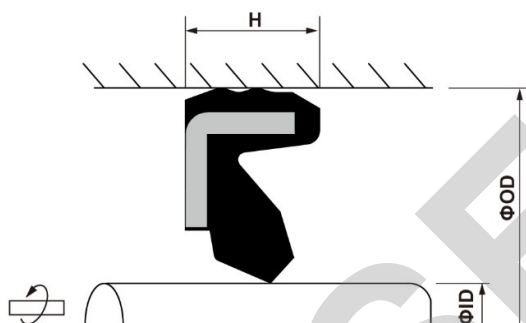


少HTGYR圖

APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	H
HTG9W 55	55	90	8/16
HTGYR 57.15	57.15	76.2	9.5/11.2

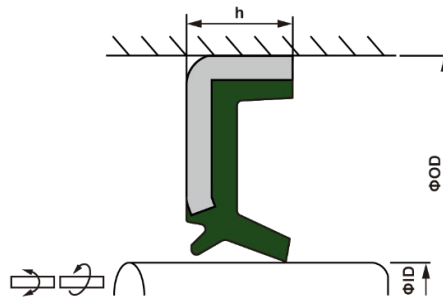
VG



APPLICATION	
MATERIAL	FKM+PTFE+STEEL
TEMP.	-15°C ~ 150°C
PRESSURE	0.3 kgf/cm ²

ITEM	ID	OD	H
VG 28*35*4	28	35	4
VG 38*51*5.7	38	51	5.7

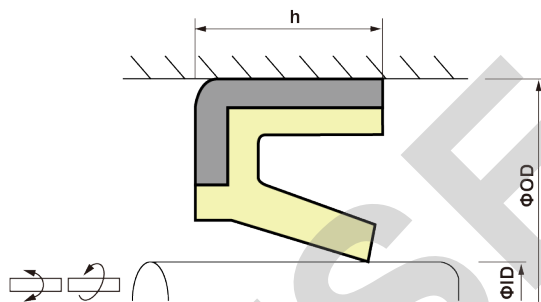
DL2 PIN WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°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

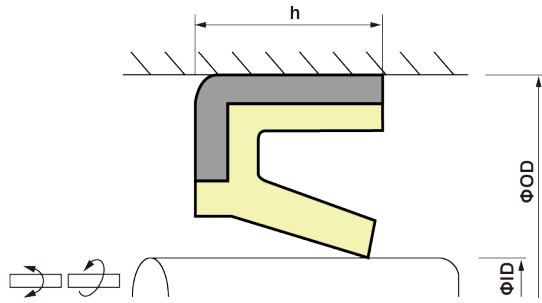
DL2 PIN WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°C

ITEM	ID	OD	h
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

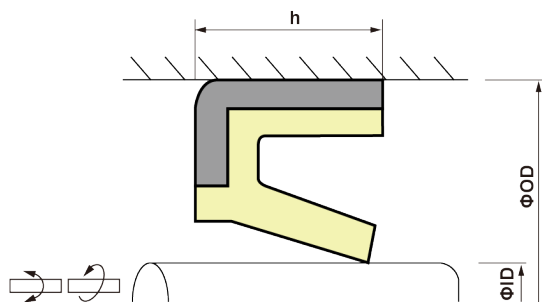
DL2 PIN WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°C

ITEM	ID	OD	h
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
* DL2-060	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

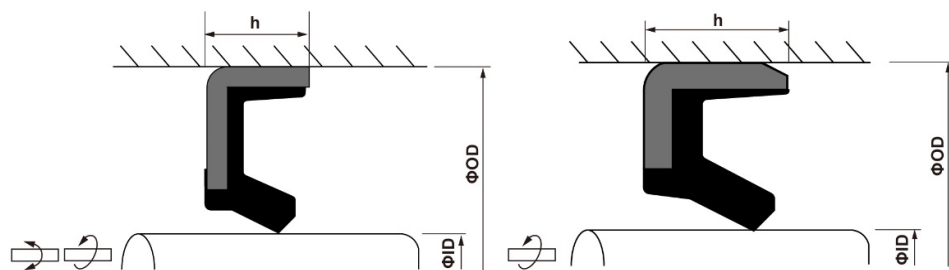
DL2 PIN WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-40°C~110°C

ITEM	ID	OD	h
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 WIPER SEAL



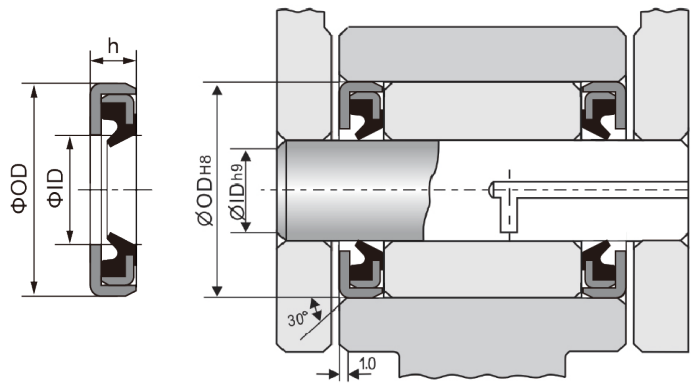
DWP

DWP(VB)

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-060	60	70	4
* DWP-050	50	65	5
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-085	85	100	6
DWP-090	90	105	6
DWP-100	100	115	7
* DWP-080	80	95	8
* DWP-090	90	105	8
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

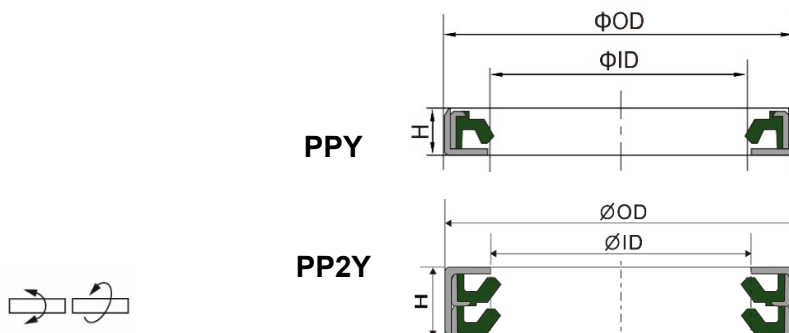
VAY PIN DUST SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C

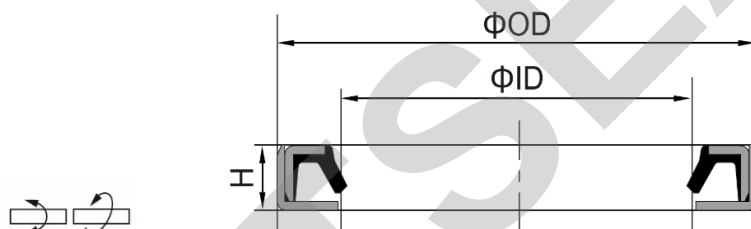
ITEM	ID	OD	h
VAY-025	25	35	4
VAY-030	30	40	4
VAY-035	35	42	2
VAY-035	35	45	4
VAY-040	40	50	4
VAY-045	45	55	4
VAY-050	50	60	4
VAY-050A	50	65	4
VAY-055	55	65	4
VAY-055	55	68	4
VAY-060	60	75	4
VAY-065	65	80	4
VAY-070	70	85	4
VAY-075	75	90	4
VAY-080	80	95	4
VAY-085	85	100	4
VAY-090	90	105	4
VAY-095	95	110	4
VAY-100	100	115	4
VAY-110	110	125	4
VAY-110	110	130	4
VAY-120	120	135	4
VAY-120	120	140	4
VAY-125	125	140	4

PPY/PP2Y PIN DUST SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-45°C~100°C
COLOR	Dark Green

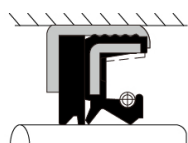
ITEM	ID	OD	H
* PPY-050	50	65	6
PPY-060	60	75	7.5
PPY-065	65	80	7.5
PPY-070	70	85	7.5
PPY-080	80	95	7.5
PPY-090	90	105	7.5
PP2Y-050	50	65	10.5
PP2Y-065	65	80	10.5
PP2Y-080	80	95	10.5
PP2Y-090	90	105	10.5



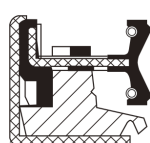
APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
COLOR	Black

ITEM	ID	OD	H
PPY-070	70	85	8
PPY-080	80	95	8
PPY-090	90	105	8
PPY-090	90	105	8

WHEEL HUB SEAL



SF



SF6



SF8



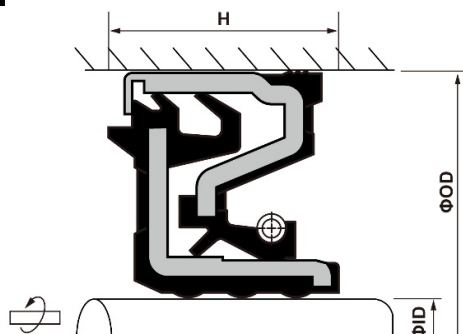
SF19

APPLICATION	
MATERIAL	NBR+PU+STEEL
TEMP.	-30~80°C
PRESSURE	0.3kgf/cm ²

※COMBI

ITEM	ID	OD	H	PART NO.	
SF-030	30	44	11	12001879B	
SF-035	35	52	16	CARRARO	12001882B
SF-040	40	58	10	12001887	
* SF-040	40	58	13		
SF-042	42	62	14	CARRARO	12001889B
SF-045	45	62	11	12012296	
SF-045	45	65	12	CARRARO	12011969B
* SF-045	45	65	15	904/50009	
* SF-045	45	65	16		
* SF-050	50	73	8		
* SF-055	55	90	8/16		
* SF-090	90	120	13	12001910	
SF6-040	40	55	15.5	12018848B	
SF6-040	40	60	18.5	CT	12012107B
SF6-042	42	62	21.5		
SF6-045	45	65	18.5	12012377B	
SF6-046	46	65	16	DX210W	0750 110 135J
SF6-046.15	46.15	80	16.5	12016669B	
SF6-056	56	75	16		
SF6-056	56	75	22.5	0750 110 138	
SF6-048	48	65	16.5	12017310B	
SF8-045	45	60	16	CARRARO	85824345
SF8-050	50	65	18	HX1400W-7	ZTAM-00062
SF19-046	46	65	21	CT	01027624B
SF19-060	60	75	17/19		
* BASL-65	65	90	10	904/07300	
* BARS127	127	146.05	11.1	813/00303	

WHEEL HUB SEAL

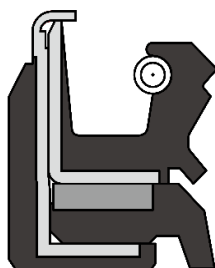


APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30~80°C
PRESSURE	0.3kgf/cm ²

※CASSETTE

ITEM	ID	OD	H		PART NO.
* TAN-025	25	52	11.5/18		904/13600
* TAN-025	25	52	12		12015223
TAN-035	35	65	14.5/17	CARRARO	12019775B
TAN-053	53.2	78	13/14	CT	12018678B
TAN-056	56	80	13/14.5		12018036
TAN-120	120	155	20.0		
TAN-127	127	160	15.5/17.5		12019068
TAN-130	130	160	14.5/16	CASE	311569 A1
TAN-136.8	136.8	165	13.5	CT	12014778B
TAN-145	145	175	14.5/15.5		
TAN-149.9	149.9	176	16	CARRARO	CAR 47705
TAN-150*14.5/16	150	180	14.5/16		229-5092
TAN-150	150.15	178	13/16	CT	12018750B
TAN-168	168	198	13/15.5		01027784B
* TAN-210	210	240	14.5/18		12015196B
TAN-240	240	270	14.5/16		

WHEEL HUB SEAL

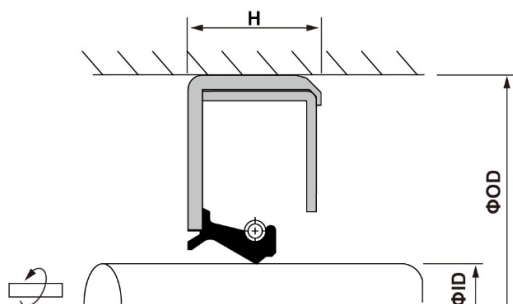


APPLICATION	
MATERIAL	NBR+PU+STEEL
TEMP.	-30~80°C
PRESSURE	0.3kgf/cm ²

※TC4AY

ITEM	ID	OD	H	MODEL	PART NO.
TC4AY-90	90	120	20.0	D65	07019-00090
TC4AY-95	95	125	20.0	D65	141-30-34230
TC4AY-130	130	160	20.0		07019-00130

TA

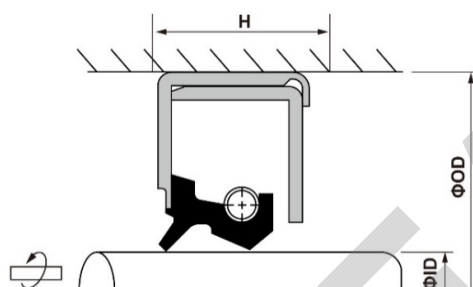


APPLICATION	
MATERIAL	FKM+STEEL
TEMP.	-15°C ~ 150°C
PRESSURE	0.3kgf/cm ²

Unit : inch

ITEM	ID	OD	H
TA-2.25	2.25	3.375	0.437
TA-2.5	2.50	3.50	0.500
TA-2.625	2.625	3.751	0.437
TA-3.875	3.875	5.251	0.438

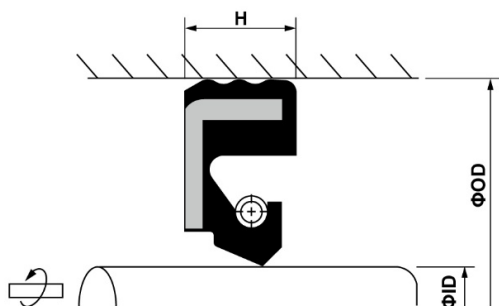
TA2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C ~ 80°C
PRESSURE	0.3 kgf/cm ²

ITEM	ID	OD	H
TA2-075	75	105	13
TA2-090	90	118	12
TA2-090	90	130	15
TA2-100	100	125	13
(inch)			
TA2-2.625	2.625	3.623	0.438
TA2-3.992	3.992	5.384	0.502

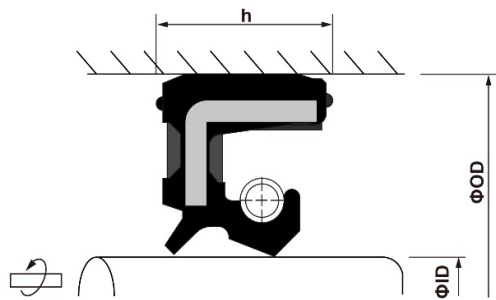
SG



APPLICATION	
MATERIAL	FKM+STEEL+PTFE
TEMP.	-15°C ~ 150°C
PRESSURE	3 kgf/cm ²

ITEM	ID	OD	H
SG-55	55	73.2	71

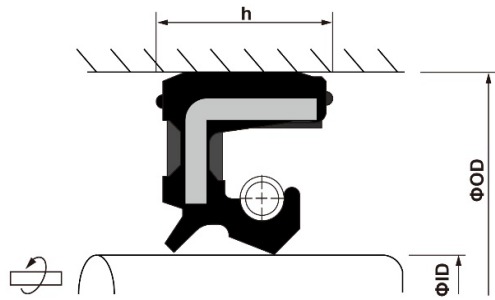
TCV OIL SEAL



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-15°C~80°C	-15°C~150°C
PRESSURE	3kgf/cm ²	3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TCV-8*22*6	8	22	6	●	●
TCV-12*22*8	12	22	8	●	●
TCV-12*25*7	12	25	7	●	●
TCV-14*28*7	14	28	7	●	●
TCV-15*30*7	15	30	7	●	●
TCV-16*28*7	16	28	7	●	●
TCV-16*30*7	16	30	7	●	●
TCV-17*28*8	17	28	8	●	●
TCV-17*30*8	17	30	8	●	●
TCV-17*32*8	17	32	8	●	●
TCV-17*35*7	17	35	7	●	●
* TCV-18*28*8	18	28	8	●	●
TCV-18*30*6.5	18	30	6.5	●	●
TCV-20*30*7	20	30	7	●	●
TCV-20*35*8	20	35	8	●	●
TCV-22*36*7	22	36	7	●	●
TCV-22*42*7	22	42	7	●	●
TCV-22*42*11	22	42	11	●	●
* TCV-22*47*8	22	47	8	●	●
TCV-24*40*8	24	40	8	●	●
TCV-25*38*7	25	38	7	●	●
TCV-28*40*6	28	40	6	●	●
TCV-30*42*6	30	42	6	●	●
TCV-30*50*11	30	50	11	●	●
TCV-30*52*11	30	52	11	●	●
TCV-32*45*8	32	45	8	●	●
TCV-32*52*11	32	52	11	●	●
TCV-35*50*7	35	50	7	●	●
TCV-35*55*11	35	55	11	●	●
TCV-35*72*10	35	72	10	●	●
* TCV-35*72*12	35	72	12	●	●
TCV-38*58*11	38	58	11	●	●
TCV-40*62*11	40	62	11	●	●
TCV-42*62*7	42	62	7	●	●
TCV-45*55*7	45	55	7	●	●
TCV-45*68*7	45	68	7	●	●
TCV-45*68*12	45	68	12	●	●
TCV-45*80*7	45	80	7	●	●
TCV-48*62*9	48	62	9	●	●

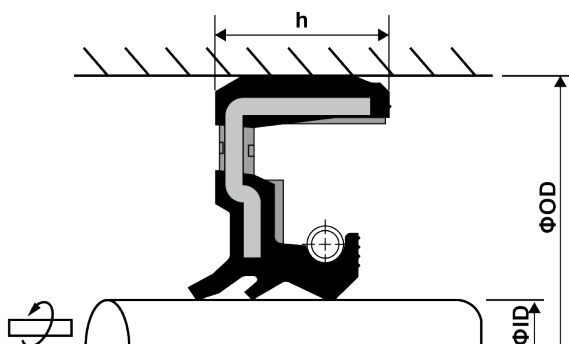
TCV OIL SEAL



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-15°C~80°C	-15°C~150°C
PRESSURE	3kgf/cm ²	3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TCV-50*72*7	50	72	7	●	●
TCV-50*80*8	50	80	8	●	●
TCV-60*78*9	60	78	9	●	●
TCV-60*80*8	60	80	8	●	●
TCV-60*82*9	60	82	9	●	●
TCV-65*88*7	65	88	7	●	●
TCV-65*90*10	65	90	10	●	●
TCV-66*85*10	66	85	10	●	●
TCV-68*78*9	68	78	9	●	●
TCV-69*90*10	69	90	10	●	●
TCV-70*90*7	70	90	7	●	●
* TCV-76*157*8	76	157	8	●	●
TCV-17.45*30.15*7.95	17.45	30.15	7.95	●	●
TCV-19*31.7*5	19.00	31.70	5.00	●	●
TCV-25.4*44.45*7.02	25.40	44.45	7.02	●	●
TCV-29.36*42.82*7.92	29.36	42.82	7.92	●	●
TCV-31.75*44.45*6.35	31.75	44.45	6.35	●	●
TCV-34.92*52*6	34.92	52.00	6.00	●	●
TCV-34.92*57.15*8.3	34.92	57.15	8.3	●	●
TCV-36.53*50.8*7.92	36.53	50.80	7.92	●	●
TCV-37.98*56.9*8	37.98	56.90	8.00	●	●
TCV-38.1*57.15*9.5	38.10	57.15	9.50	●	●
TCV-41.28*53.85*6.35	41.28	53.85	6.35	●	●
* TCV-42.8*63.5*7.94	42.80	63.50	7.94	●	●
TCV-44.45*60*7	44.45	60.00	7.00	●	●
(TCY)					
TCY-42*50*10	42	50	10	●	●
(TBV)					
TBV-18*32*7.9	18	32	7.9	●	●

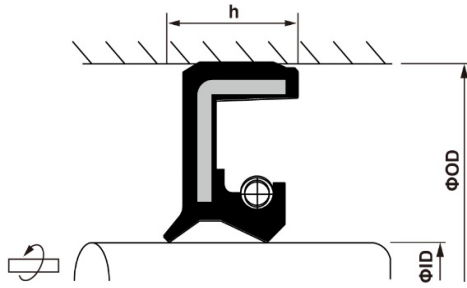
TC6Y OIL SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-15°C~80°C
PRESSURE	3 kg/cm2

ITEM	ID	OD	h
TC6Y-48*73*12.5/15.5	48	73	12.5/15.5
TC6Y-55*78*9.5/11	55	78	9.5/11
TC6Y-60*82*10.5/11	60	82	10.5/11
TC6Y-60*82*9	60	82	9
TC6Y-65*88*12	65	88	12
TC6Y-50*68*12	50	68	12
TC6Y-80*105*13	80	105	13
TCVY-45*68*12	45	68	12
TCVY-55*78*12	55	78	12

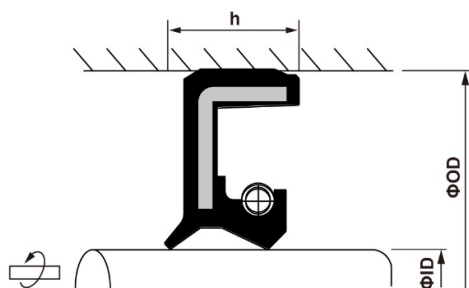
ISP1D OIL SEAL



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-15°C~80°C	-15°C~150°C
PRESSURE	3kgf/cm ²	3kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
ISP1D-12.4*25.4*7.9/8.5	12.4	25.4	7.9/8.5	●	
ISP1D-14*25*7	14.0	25	7	●	
ISP1D-20*32*7/7.9	20.0	32	7/7.9	●	
ISP1D-22*32*7	22.0	32	7	●	●
ISP1D-22*36*10/11	22.0	36	10/11	●	
ISP1D-25*35*6/6.7	25.0	35	6/6.7	●	
ISP1D-25*42*6.5/7.3	25.0	42	6.5/7.3	●	
ISP1D-25*47*6	25.0	47	6	●	
ISP1D-27*42*7/7.5	27.0	42	7/7.5	●	
* ISP1D-28*40*6	28.0	40	6		
ISP1D-28*40*8/8.9	28.0	40	8/8.9	●	●
ISP1D-28.575*50.8*6.8/7.3	28.6	50.8	6.8/7.3		●
ISP1D-30*52*7	30.0	52	7	●	●
ISP1D-35*47*7/8	35.0	47	7/8	●	
ISP1D-35*50*8/9	35.0	50	8/9	●	
ISP1D-35*52*6/7	35.0	52	6/7	●	●
ISP1D-35*54*6/6.5	35.0	54	6/6.5		●
ISP1D-38*50*6	38.0	50	6		
ISP1D-40*62*6/7	40.0	62	6/7	●	●
ISP1D-40*67*7/7.5	40.0	67	7/7.5		●
ISP1D-40*80*8/8.5	40.0	80	8/8.5		●
* ISP1D-42*62*7/7.9	42.0	62	7/7.9		
ISP1D-44.45*63.5*6/6.5	44.45	63.5	6/6.5		●
ISP1D-45*62*7/8	45.0	62	7/8		●
ISP1D-45*62*9/9.5	45.0	62	9/9.5	●	●
ISP1D-45*65*6/7	45.0	65	6/7		●
ISP1D-45*65*7/7.9	45.0	65	7/7.9	●	●
ISP1D-45*68*7	45.0	68	7		●
ISP1D-45*80*7/7.5	45.0	80	7/7.5		●
ISP1D-46*68*7	46.0	68	7		●
ISP1D-50*72*7/8	50.0	72	7/8	●	●
ISP1D-50*80*8	50.0	80	8	●	
ISP1D-52*72*7/8	52.0	72	7/8		●
ISP1D-55*70*7/7.5	55.0	70	7/7.5		●
ISP1D-55*70*8/8.5	55.0	70	8/8.5	●	●
ISP1D-55*72*9/10	55.0	72	9/10	●	
ISP1D-55*75*7/8	55.0	75	7/8		●
ISP1D-55*75*7/7.9	55.0	75	7/7.9	●	
ISP1D-55*78*8/9	55.0	78	8/9		●
* ISP1D-55*78*12/13	55.0	78	12/13		

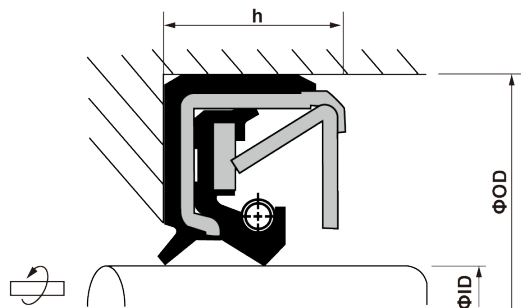
ISP1D OIL SEAL



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-15°C~80°C	-15°C~150°C
PRESSURE	3kgf/cm ²	3kgf/cm ²

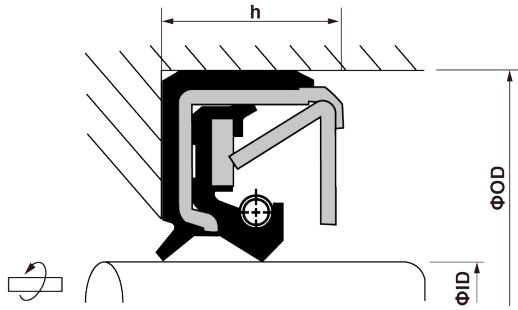
ITEM	ID	OD	h	NBR	FKM
* ISP1D-55*80*10/10.9	55.0	80	10/10.9		
ISP1D-55*90*7	55.0	90	7		●
ISP1D-60*90*7/6	60.0	90	7/6		●
ISP1D-62*85*7/8	62.0	85	7/8	●	●
ISP1D-70*90*7	70.0	90	7	●	●
* ISP1D-90*110*7/8	90.0	110	7/8		

(inch)					
ISP1D-1.75*2.5*0.4	1.75	2.5	0.4		●



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-15°C~60°C	-15°C~150°C
PRESSURE	10kgf/cm ²	10kgf/cm ²

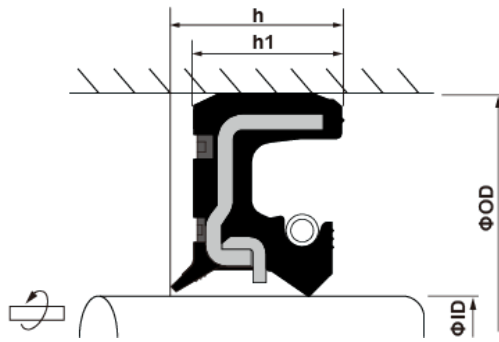
ITEM	ID	OD	h	NBR	FKM
TCN-20*40*11	20	40	11	●	
TCN-22*42*11	22	42	11	●	
TCN-25*45*11	25	45	11	●	●
TCN-25*45*12.5	25	45	12.5	●	●
TCN-28*48*11	28	48	11	●	
TCN-30*50*11	30	50	11	●	●
TCN-30*50*12.5	30	50	12.5	●	
TCN-32*52*11	32	52	11	●	●
* TCN-34*54*11	34	54	11		
TCN-35*55*11	35	55	11	●	●
TCN-35*55*12	35	55	12	●	●
TCN-35*60*15	35	60	15	●	●
TCN-38*58*11	38	58	11	●	●
TCN-40*60*12	40	60	12		●
TCN-40*62*11	40	62	11	●	●
TCN-40*62*12	40	62	12	●	●
TCN-42*65*12	42	65	12	●	●
TCN-45*68*12	45	68	12	●	●
TCN-48*70*12	48	70	12	●	●
TCN-50*72*12	50	72	12	●	●
TCN-52*75*9	52	75	9	●	
TCN-52*75*12	52	75	12	●	●
TCN-55*75*12	55	75	12		●
TCN-55*78*12	55	78	12	●	●
TCN-60*82*12	60	82	12	●	●
TCN-62*85*12	62	85	12	●	
TCN-65*90*9	65	90	9	●	
TCN-65*90*13	65	90	13	●	●
TCN-68*90*14	68	90	14	●	●
TCN-70*95*13	70	95	13	●	●
TCN-72*95*13	72	95	13	●	●
TCN-75*95*11	75	95	11	●	
TCN-75*100*13	75	100	13	●	●
TCN-80*105*13	80	105	13	●	●
TCN-85*110*13	85	110	13	●	●
TCN-90*115*13	90	115	13	●	●
TCN-95*120*13	95	120	13	●	●
TCN-100*125*13	100	125	13	●	●
TCN-105*135*14	105	135	14	●	●
TCN-110*140*14	110	140	14	●	●



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-15°C~60°C	-15°C~150°C
PRESSURE	10kgf/cm ²	10kgf/cm ²

ITEM	ID	OD	h	NBR	FKM
TCN-115*145*14	115	145	14	●	
TCN-120*150*14	120	150	14	●	●
TCN-125*155*14	125	155	14	●	
TCN-130*160*14	130	160	14	●	
TCN-135*165*14	135	165	14	●	
TCN-140*170*14	140	170	14	●	
TCN-150*180*14	150	180	14	●	
TCN-170*200*16	170	200	16	●	
* TCN-190*225*16	190	225	16		
(INCH)					
TCN-1.375*2.25*0.312	1.375	2.25	0.312		●
TCN-1.5*2.25*0.375	1.500	2.25	0.375		●
TCN-1.75*2.5*0.374	1.750	2.50	0.374		●
* TCN-2.75*3.5*0.5	2.750	3.50	0.500		
TCN-33.02*72.29*9.5	33.02	72.29	9.500	●	●
TCNY-22*36*10	22	36	10	●	
TCNY-35*60*15	35	60	15	●	
TCNY-45*65*12	45	65	12	●	●
(INCH)					
TCNY-0.5*1.125*0.25	0.5	1.125	0.25	●	

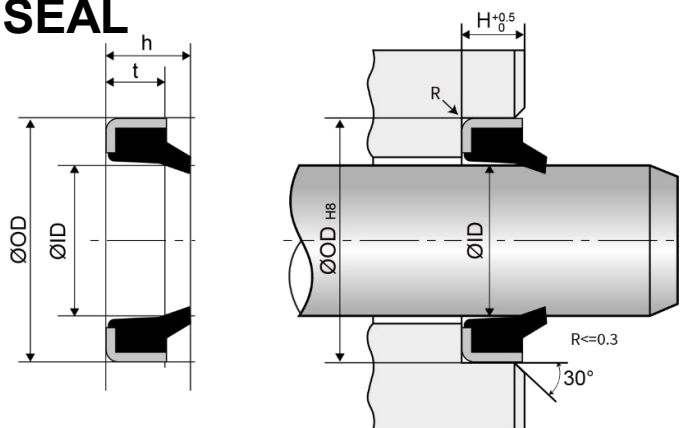
TCZ



APPLICATION		
MATERIAL	NBR+STEEL	FKM+STEEL
TEMP.	-15°C ~ 60°C	-15°C ~ 120°C
PRESSURE	20 kgf/cm ²	20 kgf/cm ²

ITEM	ID	OD	h	h	NBR	FKM
* TCZ-20*40*9/10.3	20	40	9	10.3		
TCZ-22*42*9/10.3	22	42	9	10.3	●	●
TCZ-25*45*9/10.3	25	45	9	10.3	●	●
TCZ-30*50*9/10.3	30	50	9	10.3	●	●
TCZ-32*52*9/10.3	32	52	9	10.3	●	●
TCZ-35*55*9/10.3	35	55	9	10.3	●	●
TCZ-40*62*9/10.3	40	62	9	10.3	●	●
TCZ-45*68*9/10.3	45	68	9	10.3	●	●
TCZ-50*72*9/10.3	50	72	9	10.3	●	●
TCZ-55*78*9/10.3	55	78	9	10.3	●	●
TCZ-60*82*9/10.3	60	82	9	10.3	●	●
* TCZ-65*90*9/10.3	65	90	9	10.3		
TCZ-28*48*10/11.4	28	48	10	11.4	●	●
(inch)						
TCZ-33.02	33.02	72.29	9.5		●	●
TCZ-2.75	2.75	3.5	0.5		●	●

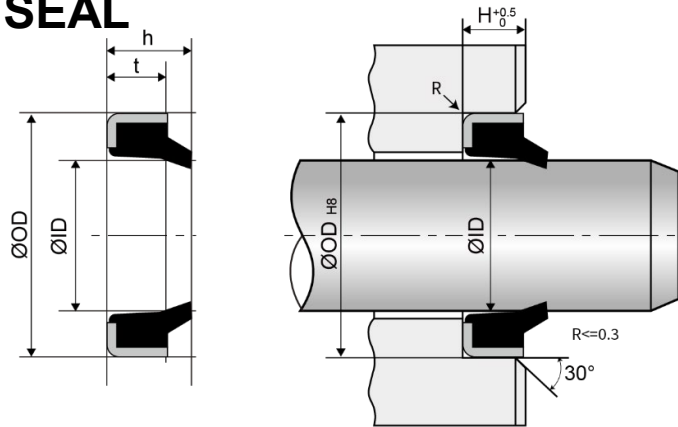
DA2 WIPER SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-35°C~80°C

ITEM	ID	OD	t	h
DA2-16*22*3/4	16	22	3	4
DA2-12*20*4/6	12	20	4	6
DA2-22*32*5/7	22	32	5	7
DA2-30*38*5/7	30	38	5	7
DA2-50*60*5/7	50	60	5	7
DA2-15*25*5/8	15	25	5	8
DA2-16*26*5/8	16	26	5	8
DA2-20*30*5/8	20	30	5	8
DA2-20*28*5/8	20	28	5	8
DA2-25*35*5/8	25	35	5	8
DA2-28*38*5/8	28	38	5	8
DA2-32*45*4/8	32	45	4	8
DA2-35*45*5/8	35	45	5	8
DA2-40*50*5/8	40	50	5	8
DA2-45*53*5/8	45	53	5	8
DA2-22*28*5/9	22	28	5	9
DA2-18*28*7/10	18	28	7	10
DA2-20*30*7/10	20	30	7	10
DA2-22*32*7/10	22	32	7	10
DA2-25*35*7/10	25	35	7	10
DA2-28*40*7/10	28	40	7	10
DA2-28*42*7/10	28	42	7	10
DA2-30*40*7/10	30	40	7	10
DA2-35*45*7/10	35	45	7	10
DA2-36*45*7/10	36	45	7	10
DA2-40*50*7/10	40	50	7	10
DA2-45*55*7/10	45	55	7	10
DA2-45*60*7/10	45	60	7	10
DA2-50*60*7/10	50	60	7	10
DA2-50*65*7/10	50	65	7	10
DA2-55*65*7/10	55	65	7	10
DA2-56*66*7/10	56	66	7	10
DA2-60*70*7/10	60	70	7	10
DA2-60*75*7/10	60	75	7	10
DA2-63*75*7/10	63	75	7	10
DA2-65*75*7/10	65	75	7	10
DA2-70*80*7/10	70	80	7	10
DA2-75*85*7/10	75	85	7	10

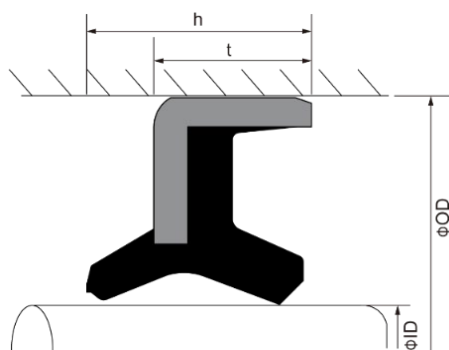
DA2 WIPER SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-35°C~80°C

ITEM	ID	OD	t	h
DA2-80*90*7/10	80	90	7	10
DA2-85*95*7/10	85	95	7	10
DA2-90*100*7/10	90	100	7	10
DA2-95*105*7/10	95	105	7	10
DA2-100*110*7/10	100	110	7	10
DA2-105*115*7/10	105	115	7	10
DA2-110*120*7/10	110	120	7	10
DA2-115*125*7/10	115	125	7	10
DA2-120*130*7/10	120	130	7	10
DA2-125*140*9/12	125	140	9	12
DA2-135*150*9/12	135	150	9	12
DA2-140*155*9/12	140	155	9	12
DA2-150*165*9/12	150	165	9	12
DA2-170*185*9/12	170	185	9	12
* DA2-22*28*5/14	22	28	5	14
DA2-180*195*10/14	180	195	10	14
DA2-185*200*10/14	185	200	10	14
DA2-200*220*12/16	200	220	12	16

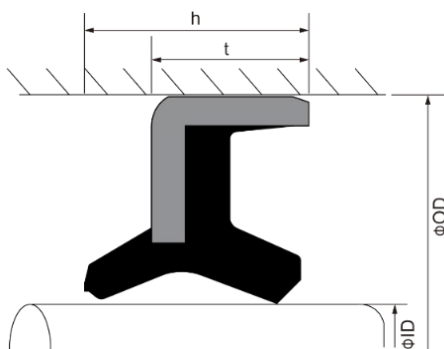
DKN WIPER SEAL



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

ITEM	ID	OD	t	h
DKN-010	10	20	5	8
DKN-014	14	22	4	5
DKN-014	14	24	5	7
DKN-016	16	26	5	7
DKN-018	18	30	6	9
DKN-019	19	31	6	9
DKN-020	20	32	6	9
DKN-022	22	32	6	9
DKN-022	22	34	6	9
DKN-025	25	37	6	9
DKN-025	25	42	6	9
DKN-028	28	40	6	9
DKN-030	30	42	6	9
DKN-030	30	45	6	9
DKN-030	30	47	7	10
DKN-032	32	44	7	10
DKN-032	32	52	8	11
DKN-035	35	47	7	10
DKN-035	35	55	9.3	12
DKN-040	40	52	7	10
DKN-040	40	62	7	10
DKN-045	45	57	7	10
DKN-045	45	68	7	10
DKN-050	50	62	7	10
DKN-050	50	72	8	11
DKN-055	55	69	8	11
DKN-056	56	70	8	11
DKN-060	60	74	8	11
DKN-060	60	82	11	14
DKN-065	65	79	8	11
DKN-070	70	84	8	11
DKN-075	75	89	8	11
DKN-080	80	94	8	11
DKN-085	85	99	8	11

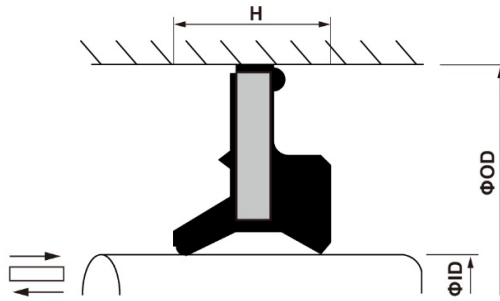
DKN WIPER SEAL



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

ITEM	ID	OD	t	h
DKN-090	90	104	8	11
DKN-095	95	109	8	11
DKN-100	100	114	8	11
DKN-105	105	121	9	12
DKN-110	110	126	9	12
DKN-112	112	128	9	12
DKN-115	115	131	9	12
DKN-120	120	136	9	12
DKN-125	125	141	9	12
DKN-130	130	146	9	12
DKN-140	140	160	10	14
DKN-150	150	170	10	14
DKN-155	155	175	10	14
DKN-160	160	180	10	14
DKN-170	170	190	10	14
DKN-180	180	205	12	17
DKN-200	200	225	12	17
DKN-210	210	235	12	17
DKN-225	225	250	12	17
DKN-250	250	275	12	17
DKN-260	260	285	12	17

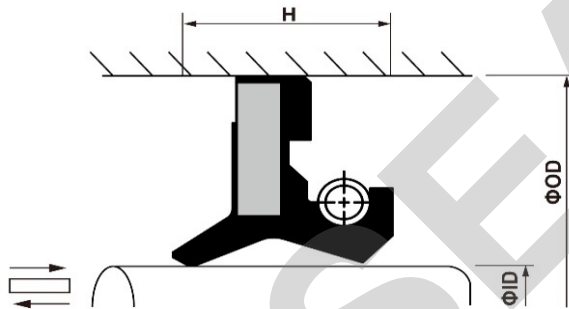
KCY



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C

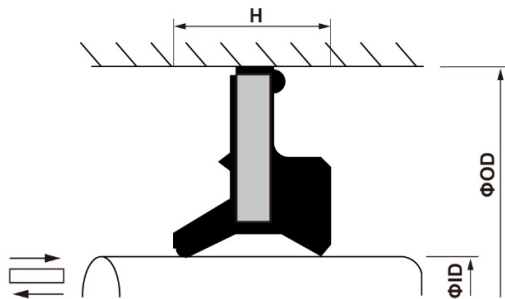
ITEM	ID	OD	H
KCY 18	18	30	3.6/4.5
KCY 22	22	34.5	2/5.7
KCY 25	25	37.8	2/5.5
KCY 29	29	40.8	2/5.5

TC4WY



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C

ITEM	ID	OD	H
TC4WY-9	9	20.2	6
TC4WY-12	12	24	2/7
TC4WY-12	12	25	1.5/7
TC4WY-14	14	25	2.1/5.9
TC4WY-15	15	27	2.2/6.8
TC4WY-15.8	15.8	30.5	2.9/6.7
TC4WY-19	19	35	2.3/7
TC4WY-20	20	32	2/7
TC4WY-21.4	21.4	34.8	2/6.4
TC4WY-22	22	34	2.1/6.2
* TC4WY-22	22	34	2.1/7
TC4WY-22	22	40	2.5/7
TC4WY-26	26	38.6	2.4/6.3
TC4WY-26	26	44	2.5/7

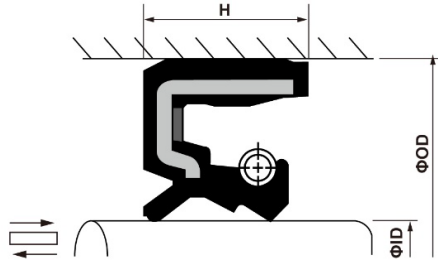


APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C

ITEM	ID	OD	H
KCY 18	18	30	3.6/4.5
KCY 22	22	34.5	2/5.7
KCY 25	25	37.8	2/5.5
KCY 29	29	40.8	2/5.5

PETSEALS

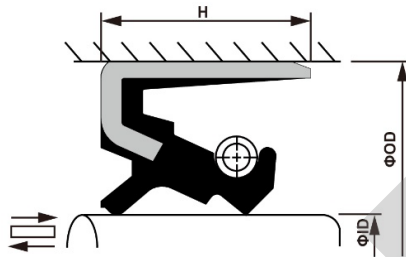
TC4



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C

ITEM	ID	OD	H
TC4-12	12	22	8
TC4-22.4	22	40	10
TC4V-19	19	32	7/7.7

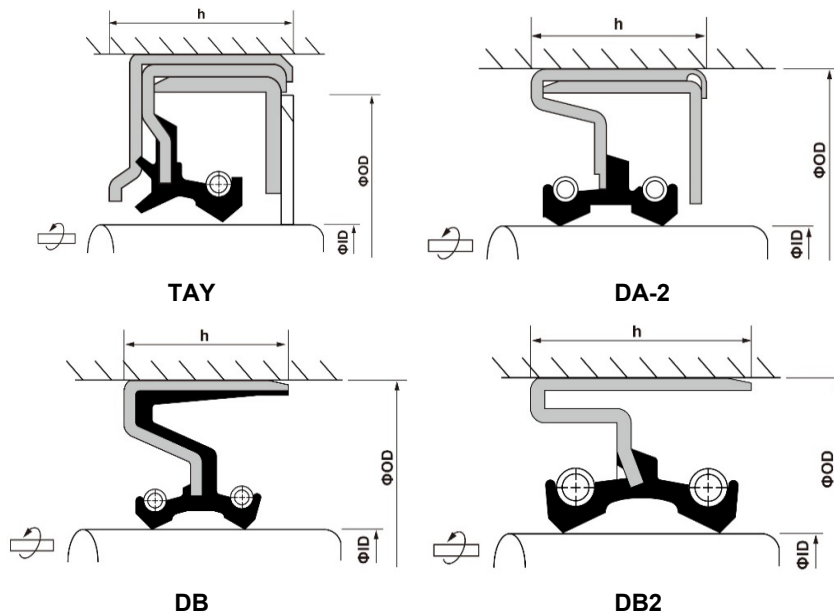
TB4



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C

ITEM	ID	OD	H
TB4-75	75	88	10
TB4-70	70	88	12
* TB4-85	85	110	13
* TB4-50	50	72	14
* TB4-60	60	82	14

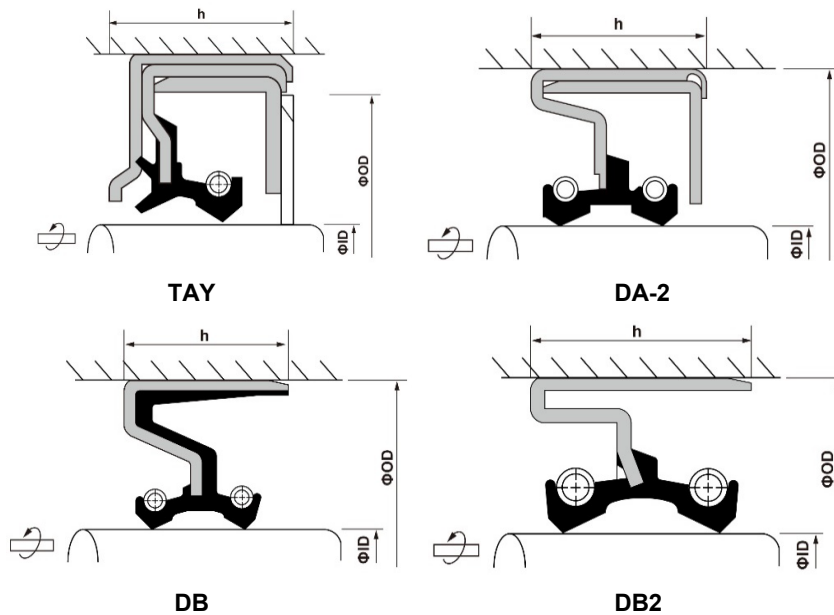
SWING-TAY, DA-2, DB, DB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h	MODEL	PART NO.
TAY-120	120	150	18	EX60	BA3494
TAY-180	180	210	18	EX120	BA3366
TAY-195	195	225	18	EX400	BA3659E
TAY-230	230	260	18	H-4187681(EX200-1)	BA4023
DA-2-125	125	155	18	PC200-6	BW0760F/20Y2621410
DA-2-140	140	170	18	PC300-7	BW5669-E0/207-26-61210
DA-2-150	150	180	18		BW5602
DAY-230	230	260	21	ZAX450	BW6659
DAY-240	240	275	21		BZ5284
DAY-265	265	300	21	ZAX890-5A	4723568
DB-020	20	40	17		
* DB-048	48	70	18		07013-10048
DB-070	70	95	20		07013-30070
DB-075	75	100	20		07013-10075
DB-080	80	105	20		07013-10080
DB-090	90	115	20		6141-21-1332
DB-090	90	120	18		07013-10090/20090/40090
DB-095	95	120	17	4D95/S6D95	07013-10100/BW4068
DB-100	100	125	20	E200B	07013-10100
* DB-105	105	135	18	6D105	6130-22-4231 / AW4350F
DB-110	110	140	22	SK 120-3/E200B	07013-20110 / BW4545
DB-120	120	150	22	SK 200	AW4350F / BW5073
* DB-125	125	155	22	PC300/400/6D355	07013-20125 / BW5054
DB-140	140	170	20	SK 120-3	07013-20130/10120 / 40120/BW5180
DB-160	160	190	23	EX200/220-2/300-3/ZX200	BW4527

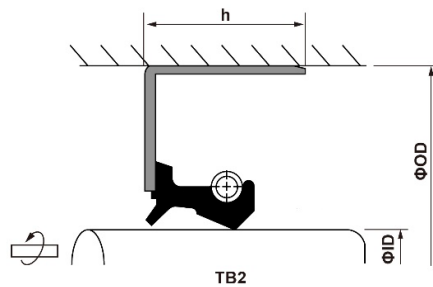
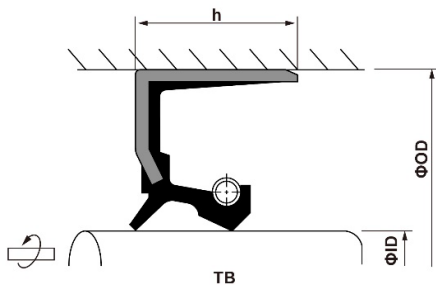
SWING-TAY, DA-2, DB, DB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h	MODEL	PART NO.
DB-200	200	230	16	ZAX850/870	BW5054
DB-200	200	235	26	SK300	BW4815
DB-230	230	260	21	ZX300/300-5	BW5856
DB-232	232	267	21	EX200/220-2/300-3/ZX200	425 3308/BW4813
DB-240	240	275	21	ZAX450	BW6659
DB-245	245	285	27	SK300-3	
DB-252	252	287	21	EX 60/100-3/PC60-6 ZX300/300-5	BW4680E-433 4750
DB-260	260	300	28		BW4401E
DB-265	265	300	21		
DB2-122	122	152	21	EX 60/100-3/PC60-6	
DB2-122	122	155	21		
DB2-160	160	195	21	EX100-2/3/5	BW4528/4244691
DB2-190 NBR	190	225	21	EX 120-3/200-2/3/5	BW4526EO
DB2-190 ACN	190	225	21		BW4526

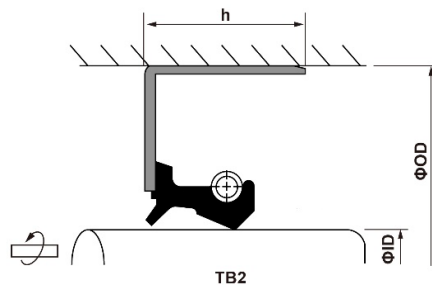
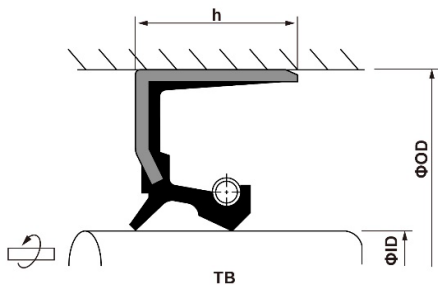
SWING-TB.TB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h	PART NO.
TB-15*32*10	15	32	10	
TB-22*42*10	22	42	10	07012-00022
TB 25*33*6	25	33	6	
TB 45*68*12	45	68	12	AD2668
TB 48*70*12	48	70	12	AD2791
TB 55*78*12	55	78	12	AD3055
TB 60*82*12	60	82	12	AD3222
TB 65*77*12	65	77	12	
TB 65*90*13	65	90	13	AD3409
TB 70*92*12	70	92	12	AD3519
TB 75*100*13	75	100	13	07012-00075 / AD3618G-S
TB 80*105*13	80	105	13	AD3744
TB-85*110*13	85	110	13	AD3842
TB-95*120*13	95	120	13	AD3994
TB-105*135*14	105	135	14	AD4153
TB-120*150*14	120	150	14	AD4346
TB-140*170*14	140	170	14	07012-10140 / AD4542
TB-145*175*14	145	175	14	AD4581
TB-150*180*14	150	180	14	AD4624
TB2-15*22*4	15	22	4	
TB2-35*55*11	35	55	11	07012-00035
TB2-40*66*8	40	66	8	
TB2-42*55*8	42	55	8	
TB2-42*60*9	42	60	9	144-916-7970
TB2-50*80*10	50	80	10	
TB2-90*115*14	90	115	14	
TB2-100*125*13	100	125	13	
TB2-100*125*14	100	125	14	
TB2-110*140*14	110	140	14	
TB2-115*145*14	115	145	14	

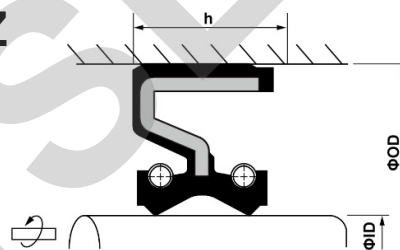
SWING-TB.TB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h	PART NO.
TB2-120*155*18	120	155	18	150-95-11180
TB2-125*155*14	125	155	14	
TB2-130*160*14	130	160	14	
TB2-145*170*13	145	170	13	
TB2-240*275*16	240	275	16	
TB2-280*320*22	280	320	22	
TB4-75*88*10	75	88	10	
TBY-22*42*7	22	42	7	AP1145E

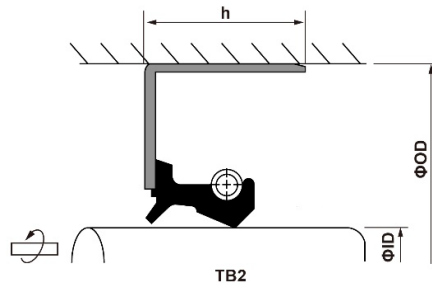
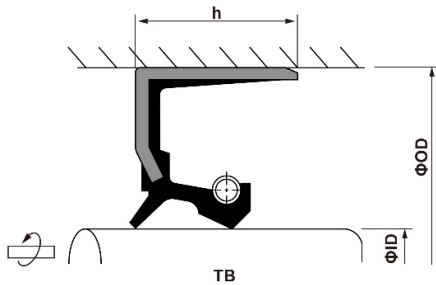
SWING-15Z(DC), 19Z, 31Z



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h	PART NO.
15Z-140	140	170	17	
15Z-150	150	180	15.2	
15Z-155	155	180	15	
15Z-160	160	190	16.5	
15Z-160	160	190	24.5	
19Z-74.8	74.8	90	6	
19Z-79.8	79.8	95	6	2445-R62
31Z-66	66	79	12.5	703-05-98140
31Z-78	78	105	15.4	2445-R63

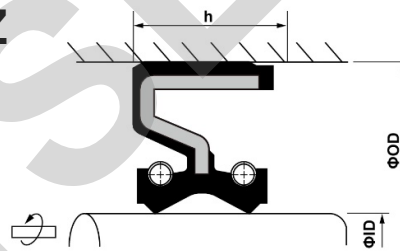
SWING-TB.TB2



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h	PART NO.
TB2-120*155*18	120	155	18	150-95-11180
TB2-125*155*14	125	155	14	
TB2-130*160*14	130	160	14	
TB2-145*170*13	145	170	13	
TB2-240*275*16	240	275	16	
TB2-280*320*22	280	320	22	
TB4-75*88*10	75	88	10	
TBY-22*42*7	22	42	7	AP1145E

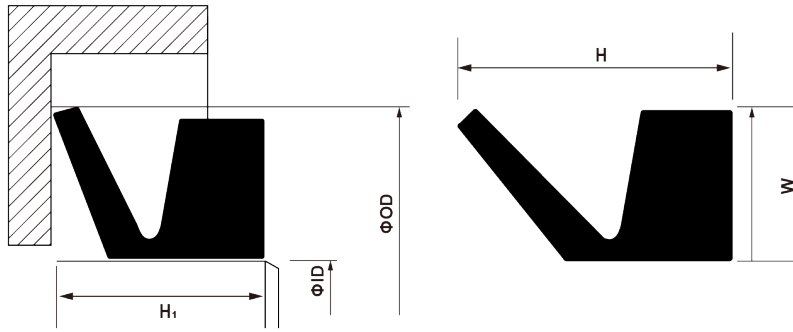
SWING-15Z(DC), 19Z, 31Z



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-30°C~80°C
PRESSURE	0.3kgf/cm ²

ITEM	ID	OD	h	PART NO.
15Z-140	140	170	17	
15Z-150	150	180	15.2	
15Z-155	155	180	15	
15Z-160	160	190	16.5	
15Z-160	160	190	24.5	
19Z-74.8	74.8	90	6	
19Z-79.8	79.8	95	6	2445-R62
31Z-66	66	79	12.5	703-05-98140
31Z-78	78	105	15.4	2445-R63

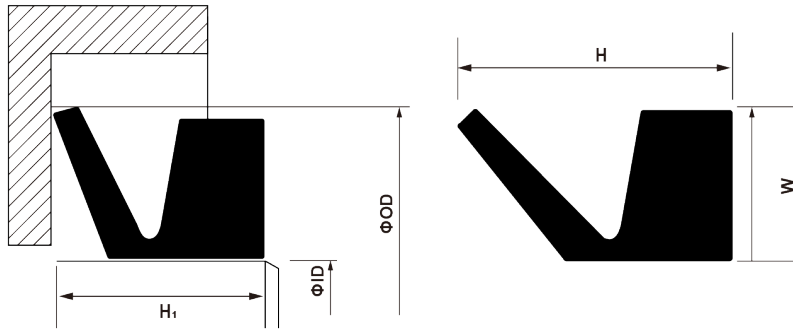
VA WIPER SEAL



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



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

ITEM	ID	OD	H
VA-160	144	160	14.5
* VA-170	153	169	14.5
* VA-180	162	178	14.5
* VA-190	171	187	14.5
* VA-199	180	196	14.5
* VA-200	180	210	25.0
* VA-220	198	228	25.0
* VA-250	225	255	25.0
* VA-275	247	277	25.0
* VA-300	270	300	25.0
* VA-325	292	322	25.0
* VA-350	315	345	25.0
* VA-375	337	367	25.0
* VA-400	360	390	25.0
* VA-450	405	435	25.0
* VA-500	450	480	25.0



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