



YOUR RELIABLE SEALING SOLUTION PARTNER

WONYOUNG SEAL CORPORATION

RELIABLE

PROFESSIONAL

MODERATE

SEAL CATALOG Ver. 2021

www.wys-seals.com



WONYOUNG SEAL CORPORATION

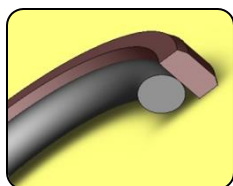
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1. Hydraulic seal ----- 3~126 PAGE
2. Hydraulic Breaker seal ----- 127~137 PAGE
3. Pneumatic seal ----- 138 PAGE
4. Floating seal ----- 139~140 PAGE
5. Custom oil seal ----- 141~142 PAGE
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7. Contact ----- 148 PAGE



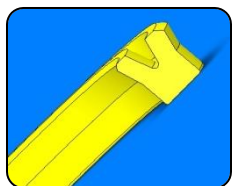
1. Hydraulic seal

PISTON SEAL



Style : **GRBW(D-SEAL/GR)**
Material : PTFE+NBR

Page:
17



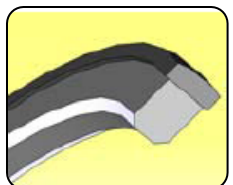
Style : **ODW/OSW(OSI/ODI)**
Material : PU

Page:
19



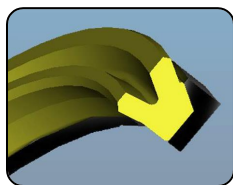
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Material : NBR+P/A

Page:
21



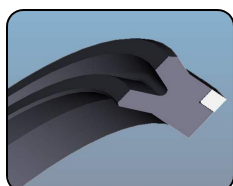
Style : **OK**
Material : NBR+P/A

Page:
22



Style : **OUYH(OUY)**
Material : PU+P/A

Page:
23



Style : **OUYK(OUY)**
Material : NBR+P/A

Page:
24

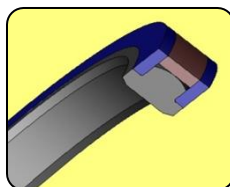
1. Hydraulic seal

PISTON SEAL



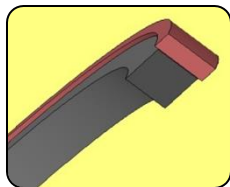
Style : **SPGA**
Material : NBR+P/A

Page:
25



Style : **SPGWB(SPGW)**
Material : NBR+P/A+PTFE

Page:
26



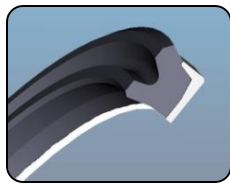
Style : **SPW(SPG)**
Material : NBR+PTFE

Page:
28



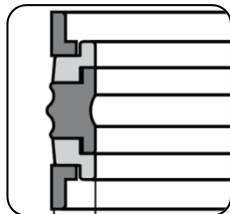
Style : **UKH**
Material : NBR+P/A

Page:
30



Style : **OUY**
Material : NBR+P/A

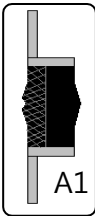
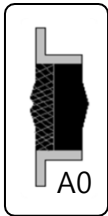
Page:
31



Style : **DAS**
Material :
NBR+TPE+,POM Glass Filler

Page:
32

1. Hydraulic seal



Style : NCF A0, NCF A1
Material : A1 : FABRIC NBR+TPE+POM
A0 : FABRIC NBR+POM

Page:
34-35

WEAR RING



Style : **WRW(WR)**
Material : PHENOL+COTTON

Page:
36-45



Style : **GWR(WR)**
Material : PHENOL+COTTON+GRAPHITE

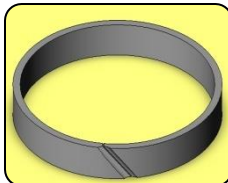
Page:
36-45



Style : **AWR(WR)**
Material : PHENOL+ARAMID+GRAPHITE

Page:
36-45

DUST RING



Style : **KZW(KZT)**
Material : PTFE(Bonze or Moly filled)

Page:
46-48

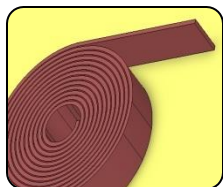


Style : **DZW(DR/DZT)**
Material : PTFE(Glass filled)

Page:
46-48

1. Hydraulic seal

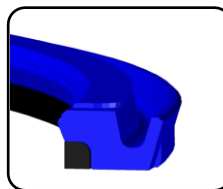
WEAR BAND



Style : **RYW(RYT)**
Material : PTFE(Bronze/Moly filled)

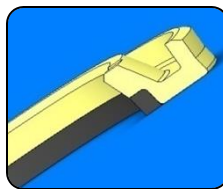
Page:
49-50

BUFFER SEAL



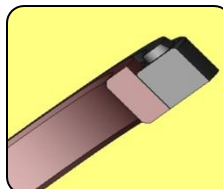
Style : **HBHW(HBY)**
Material : High performance PU+P/A

Page:
51-52



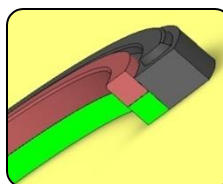
Style : **HBW(HBY)**
Material : PU+P/A

Page:
51-52



Style : **HBYW(HBTY)**
Material : NBR+PTFE

Page:
53

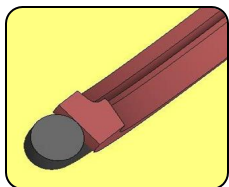


Style : **HBZW(HBTZ)**
Material : NBR+P/A +PTFE

Page:
54

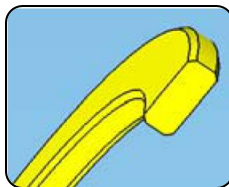
1. Hydraulic seal

BUFFER SEAL



Style : **SSW(SK/E-RING)**
Material : PTFE+NBR

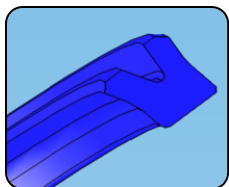
Page:
55



Style : **HBI**
Material : PU

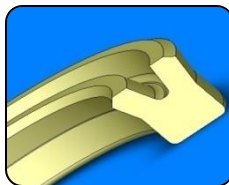
Page:
57

ROD SEAL



Style : **IDKW(IDI/ISI;NOK PUU641equivalent)**
Material : High performance PU

Page:
58-69



Style : **IDW/ISW(IDI/ISI)**
Material : PU

Page:
58-69



Style : **UPRH**
Material : NBR+PU

Page:
58-69

1. Hydraulic seal

ROD SEAL



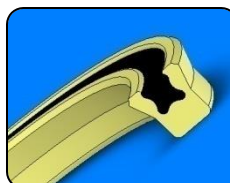
Style : **IUW(IUH old type)**
Material : NBR

Page:
58-69



Style : **IUW2(IUH new type)**
Material : NBR

Page:
58-69



Style : **UPRM**
Material : PU+NBR

Page:
58-69

ROD & PISTON SEAL



Style : **UPNW(UPH/USH)**
Material : NBR

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70



Style : **UPW(UIP)**
Material : PU

Page:
72-73

1. Hydraulic seal

O-RING BACK UP RING



Style : **T3G**
Material : PTFE(White)

Page:
74-75



Style : **T3P**
Material : PTFE(White)

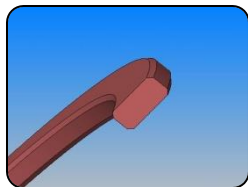
Page:
76-77

PACKING BACK UP RING



Style : **BRDW(BRN)**
Material : P/A + Special material

Page:
78-79



Style : **BRBW/BRWW/BRGW(BRT)**
Material : PTFE(Bronze/White/Glass filled)

Page:
80-82

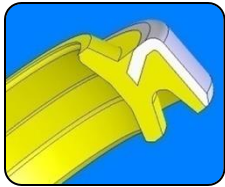


Style : **N4W**
Material : P/A(Glass filled)

Page:
83

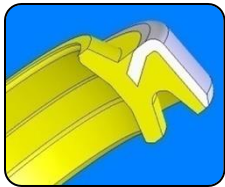
1. Hydraulic seal

DUST SEAL



Style : **DKBW(DKBI)**
Material : PU+SPCC

Page:
84-85



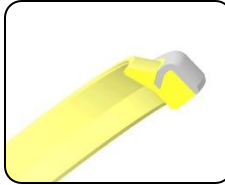
Style : **DKBIN**(KAYABA TYPE DKBI)
Material : PU+SPCC

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86



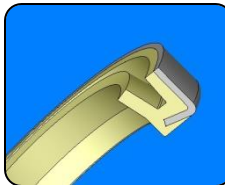
Style : **DKNW(DKB)**
Material : NBR+SPCC

Page:
87-88



Style : **DKW(DKI)**
Material : PU+SPCC

Page:
89-90



Style :
DWW(DWI;MM)/DWIN(DKIY;INCHI)
Material : PU+SPCC

Page:
91-92

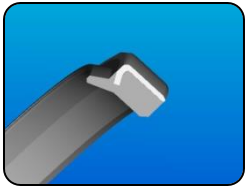


Style : **DWIW(DWIR)**
Material : PU+SPCC

Page:
93-94

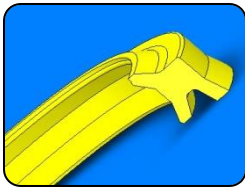
1. Hydraulic seal

DUST SEAL



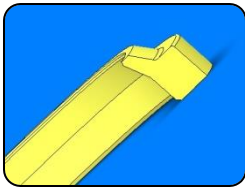
Style : **SA**
Material : NBR+SPCC

Page:
95-96



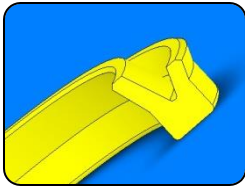
Style : **LBW(LBI)**
Material : PU

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97



Style : **DSW(DSI)**
Material : PU

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98



Style : **LPIY**
Material : PU

Page:
99



Style : **LBNW(LBH)**
Material : NBR/FKM

Page:
100

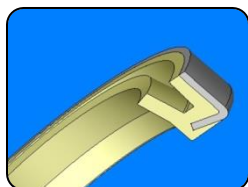
1. Hydraulic seal

PIN DUST SEAL



Style : **VAW(PPY,DKIY,VAY)**
Material : PU+SPCC

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101-
102



Style : **DLW(DLI)**
Material : PU+SPCC

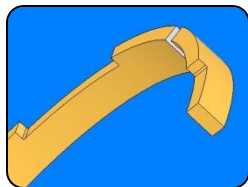
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103-
104



Style : **VB**
Material : NBR+SPCC

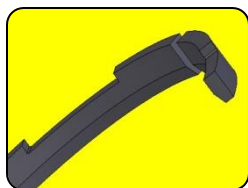
Page:
105

CUSHION SEAL



Style : **N4B**
Material : P/A(Glass filled)

Page:
106



Style : **N4BN(N4B new type)**
Material : P/A(Glass filled)

Page:
107

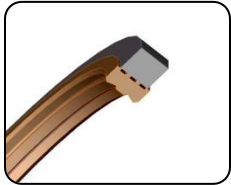
1. Hydraulic seal

CENTER JOINT SEAL



Style : **CSI / ROI**
Material : PU/High performance PU

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108



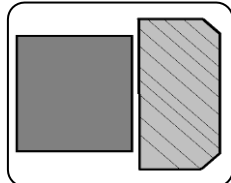
Style : **MSJA**
Material : PTFE+NBR

Page:
109



Style : **SPN**
Material : PTFE+NBR

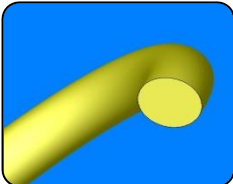
Page:
110



Style : **WSJG(LFT)**
Material : LFT+NBR

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111

PU O-RING/D-RING



Style : **ORI**
Material : PU

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112



Style : **DRI**
Material : PU

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113

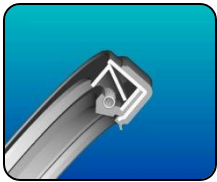
1. Hydraulic seal

OIL SEAL



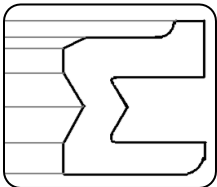
Style : **TCV**
Material : NBR/FKM+SPCC

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Style : **TCN**
Material : NBR/FKM+SPCC

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Style : **LINK SEAL**
Material : PU

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O-RING BOX



Style : **MM BOX**
Material : NBR

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Style : **INCH BOX**
Material : NBR

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1. Hydraulic seal

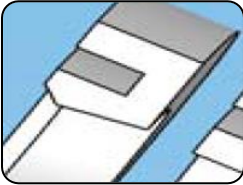
DU BUSH



Style : **DU**
Material : SPCC+PTFE PAINTED

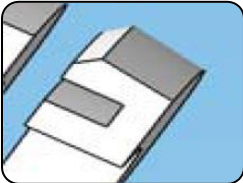
Page:
119

PTFE SEAL RING



Style : **IUT**
Material : PTFE(Glass filled)

Page:
121



Style : **OUT**
Material : PTFE(Glass filled)

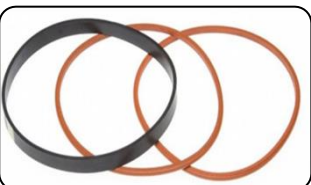
Page:
122

HUB SEAL & OIL SEAL & ENGINE LINER O-RING



HUB SEAL/SHAFT SEAL

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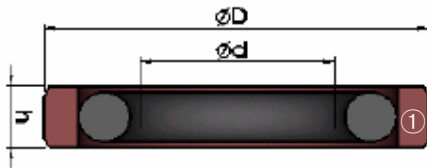


LINER -RING
Material : NBR/VMQ

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1. Hydraulic seal

PISTON SEAL – STYLE : GRBW(D-SEAL/GR)



Material & working condition	Main function	Feature
PTFE PISTON SEAL 70A NITRILE ENERGIZER Working Temperature : -30~100℃ Working Pressure : 35Mpa Speed : 0.05~1.5 m/s.	Retention of oil pressure	A PTFE seal ring ① with excellent friction and abrasion characteristics is used. It has the oil pressure introduction slit②, the oil pressure enter the installation groove(pressure side) beginning at the early stage of pressure application, smoothing movement of the packing to the side opposite the pressure side..

SEAL INFORMATION

PART
NUMBER

(Prefix)-D*d*h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
GRBW	40*29.3*4.2	GRBW	63*52.3*4.2	GRBW	75*59.9*6.3	GRBW	105*89.9*6.3
GRBW	42*31.3*4.2	GRBW	65*54.3*4.2	GRBW	80*64.9*6.3	GRBW	110*94.9*6.3
GRBW	45*34.4*4.2	GRBW	70*59.3*4.2	GRBW	85*69.9*6.3	GRBW	115*99.9*6.3
GRBW	50*39.3*4.2	GRBW	60*44.9*6.3	GRBW	90*74.9*6.3	GRBW	120*104.9*6.3
GRBW	55*44.3*4.2	GRBW	65*49.9*6.3	GRBW	95*79.9*6.3	GRBW	125*109.9*6.3
GRBW	60*49.3*4.2	GRBW	70*54.9*6.3	GRBW	100*84.9*6.3	GRBW	130*114.9*6.3

1. Hydraulic seal

PISTON SEAL – STYLE : **GRBW(D-SEAL/GR)**

PART NUMBER	
GRBW	80*59.5*8.1
GRBW	85*64.5*8.1
GRBW	90*69.5*8.1
GRBW	95*74.5*8.1
GRBW	100*79.5*8.1
GRBW	105*84.5*8.1

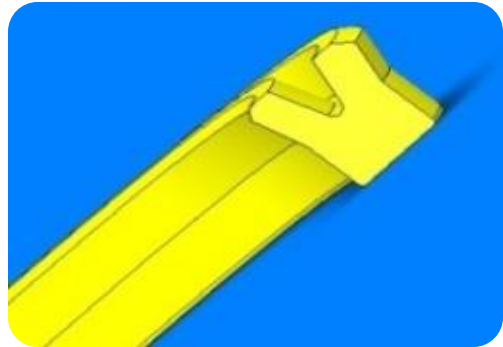
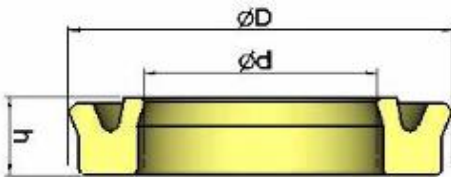
PART NUMBER	
GRBW	110*89.5*8.1
GRBW	115*94.5*8.1
GRBW	120*99.5*8.1
GRBW	125*104.5*8.1
GRBW	130*109.5*8.1
GRBW	135*114.5*8.1

PART NUMBER	
GRBW	140*119.5*8.1
GRBW	145*124.5*8.1
GRBW	150*129.5*8.1
GRBW	160*139.5*8.1
GRBW	165*144.5*8.1
GRBW	170*149.5*8.1

PART NUMBER	
GRBW	175*154.5*8.1
GRBW	180*159.5*8.1
GRBW	185*164.5*8.1
GRBW	190*169.5*8.1
GRBW	195*174.5*8.1
GRBW	200*179.5*8.1
GRBW	205*184.5*8.1

1. Hydraulic seal

PISTON SEAL – STYLE : ODW/OSW(OSI/ODI)



Material & working condition	Main function	Feature
Polyurethane Working Temperature : -35~100℃ Working Pressure : 0~35(70with nylon back up)Mpa Speed : 0.03~1 m/s.	Retention of oil pressure	ODW : Designed for large section, applicable for wide pressure range. OSW : Designed for smaller section, and able to be fitted into integrated groove.

SEAL INFORMATION

PART
NUMBER

(Prefix)-D*d*h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
OSW	40*30*6	OSW	65*55*6	OSW	100*85*9	OSW	125*110*9
OSW	45*35*6	OSW	70*60*6	OSW	105*90*9	OSW	125*112*9
OSW	50*40*6	OSW	75*65*6	OSW	110*95*9	OSW	130*115*9
OSW	55*45*6	OSW	80*70*6	OSW	115*100*9	OSW	140*125*9
OSW	60*50*6	OSW	85*75*6	OSW	120*105*9	OSW	150*135*9
OSW	63*53*6	OSW	90*80*6	OSW	120*106*8.5	OSW	150*136*8.5

1. Hydraulic seal

PISTON SEAL – STYLE : ODW/OSW(OSI/ODI)

PART NUMBER	
OSW	155*140*9
OSW	160*145*9
OSW	170*155*9
OSW	180*165*9
OSW	190*175*9
OSW	200*180*12
OSW	210*190*12

PART NUMBER	
ODW	35*25*6
ODW	45*30*6
ODW	45*30*9
ODW	45*30*10
ODW	50*35*9
ODW	50*35*10
ODW	50*40*10
ODW	55*40*10
ODW	60*45*9
ODW	60*45*10
ODW	63*48*9
ODW	60*50*9
ODW	65*50*9

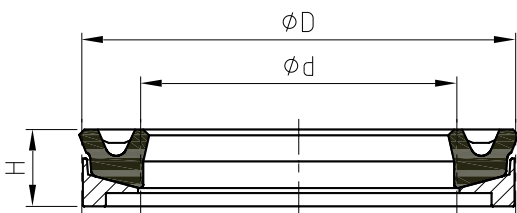
PART NUMBER	
ODW	65*50*10
ODW	70*55*9
ODW	70*55*10
ODW	75*60*9
ODW	75*60*10
ODW	80*60*12
ODW	80*65*9
ODW	80*65*10
ODW	85*65*12
ODW	85*70*10
ODW	90*75*9
ODW	90*75*10
ODW	95*80*10

PART NUMBER	
ODW	100*80*15
ODW	105*85*12
ODW	105*85*15
ODW	110*90*12
ODW	115*95*12
ODW	115*95*15
ODW	120*100*12
ODW	120*100*15
ODW	125*105*12
ODW	125*105*15
ODW	125*105*16
ODW	130*110*12
ODW	130*110*15

PART NUMBER	
ODW	130*110*16
ODW	132*112*15
ODW	135*115*12
ODW	140*120*12
ODW	140*120*16
ODW	150*130*12
ODW	150*130*14
ODW	150*130*16
ODW	160*140*10
ODW	160*140*12
ODW	160*140*16
ODW	170*150*16
ODW	180*160*12
ODW	180*160*16
ODW	225*200*16

1. Hydraulic seal

PISTON SEAL – STYLE : OHM



Material & working condition	Main function	Feature
70A NITRILE NYLON BACK-UP Working Temperature : -30~100℃ Working Pressure : 0~21 Mpa Speed : 0.008~1 m/s.	Retention of oil pressure	Molded from 70A nitrile for high seal ability they employ a hard nylon anti-extrusion ring as a companion piece.

SEAL INFORMATION

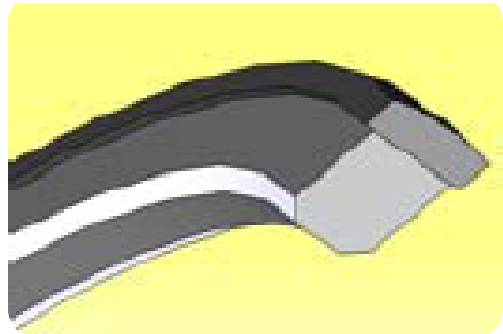
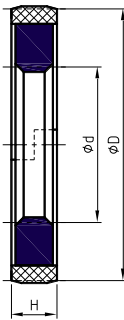
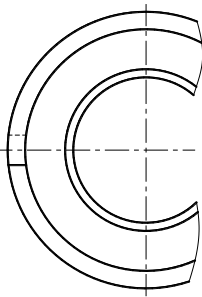
PART
NUMBER

(Prefix)-D*d*H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
OHM	45*27*12.1	OHM	80*58*14.5	OHM	120*98*14.5	OHM	150*128*14.5
OHM	50*32*12.1	OHM	85*67*14.5	OHM	125*103*14.5	OHM	160*138*14.5
OHM	55*37*12.1	OHM	90*68*14.5	OHM	130*108*14.5	OHM	170*148*14.5
OHM	60*42*12.1	OHM	100*78*14.5	OHM	135*113*14.5	OHM	180*158*14.5
OHM	65*47*12.1	OHM	110*88*14.5	OHM	140*118*14.5	OHM	190*168*14.5
OHM	70*48*14.5	OHM	115*93*14.5	OHM	145*123*14.5	OHM	200*178*14.5

1. Hydraulic seal

PISTON SEAL – STYLE : OK



Material & working condition	Main function	Feature
NYLON SEAL WITH NITRILE ENERGIZER Working Temperature : -30~110℃ Working Pressure : 0~50 Mpa Speed : 0.005~1 m/s.	Retention of oil pressure	The OK type double action piston seal is designed for heavy duty hydraulic applications. The small profile is resistant to shock loads and has high abrasion and extrusion resistance. Its split design allows simple installation on a solid piston..

SEAL INFORMATION

PART
NUMBER

(Prefix)-D*d*H

PART NUMBER	
OK	95*74*8
OK	100*79*8
OK	105*84*8
OK	110*89*8

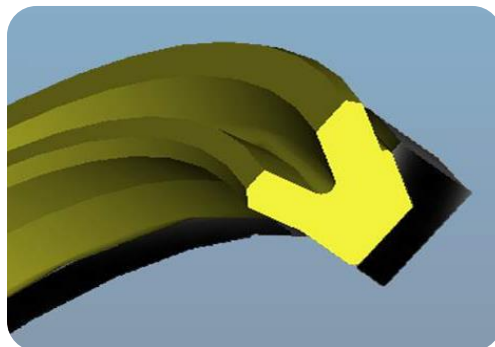
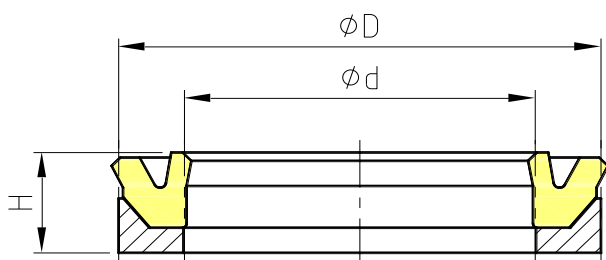
PART NUMBER	
OK	115*94*8
OK	120*99*8
OK	125*104*8
OK	130*109*8

PART NUMBER	
OK	135*114*8
OK	140*119*8
OK	145*124*8
OK	150*129*8

PART NUMBER	
OK	160*139*8
OK	165*144*8
OK	170*149*8
OK	175*154*8
OK	180*159*8
OK	190*169*8

1. Hydraulic seal

PISTON SEAL – STYLE : OUYH(OUY)



Material & working condition	Main function	Feature
Polyurethane SEAL NYLON BACK-UP Working Temperature : - 50~110℃ Working Pressure : 0~78.5 Mpa Speed : 0.03~1 m/s.	Retention of oil pressure	Molded from 95A PU for high sealability and pressure resistance. they employ a hard nylon anti-extrusion ring as a companion piece

SEAL INFORMATION

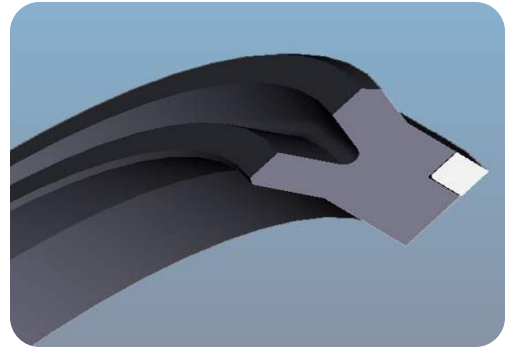
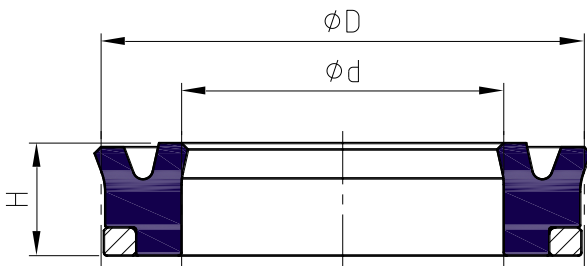
PART
NUMBER

(Prefix)-D*d*H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
OUYH	40*25*12	OUYH	55*40*12	OUYH	70*55*12	OUYH	85*70*12
OUYH	45*30*12	OUYH	60*45*12	OUYH	75*60*12	OUYH	95*80*12
OUYH	50*35*12	OUYH	65*50*12	OUYH	80*65*12		

1. Hydraulic seal

PISTON SEAL – STYLE : OUYK(OUY)



Material & working condition	Main function	Feature
70A NITRILE ACETAL BACK-UP Working Temperature : -30~110℃ Working Pressure : 0~27 Mpa Speed : 0.008~1 m/s.	Retention of oil pressure	Molded from 70A nitrile for high seal ability they employ a hard nylon anti-extrusion ring as a companion piece.

SEAL INFORMATION

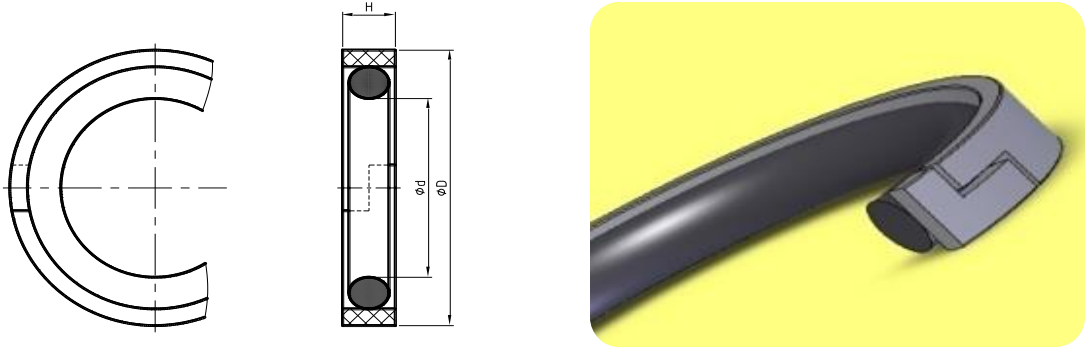
PART
NUMBER

(Prefix)-D*d*H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
OUYK	40*25*12	OUYK	60*35*15.5	OUYK	80*55*18	OUYK	70*55*10.5
OUYK	50*35*12	OUYK	60*45*15.5	OUYK	90*65*18		
OUYK	56*30*15.5	OUYK	70*45*15.5	OUYK	100*75*18		

1. Hydraulic seal

PISTON SEAL – STYLE : SPGA



Material & working condition	Main function	Feature
NYLON SEAL 70A NITRINE ENERGIZER Working Temperature : - 30~110℃ Working Pressure : 0~27 Mpa Speed : 0.008~1 m/s.	Retention of oil pressure	This seal is use for Caterpillar equipment The Nylon seal good for durability and extrusion and It's easy to fix on the piston for the step cut. And the o-ring is characterized the shape like oval energizer o-ring

SEAL INFORMATION

PART NUMBER (Prefix)-D*d*H

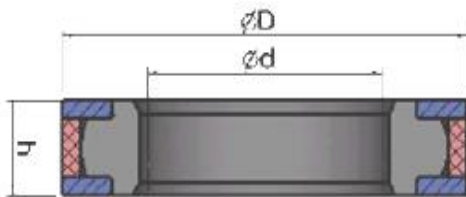
PART NUMBER	MANUFACTURE NO.
SPGA 100*85.75*6.9	9X-7298
SPGA 110*95.75*6.9	9X-7301
SPGA 120*105.75*6.9	9X-3592

PART NUMBER	MANUFACTURE NO.
SPGA 127*112.75*6.9	
SPGA 130*115.75*6.9	9X-3595
SPGA 150*130.63*9.4	9X-3601

PART NUMBER	MANUFACTURE NO.
SPGA 160*140.63*9.4	9X-3604
SPGA 170*150.63*9.4	9X-3605, 9X-3607
SPGA 190*170.63*9.4	

1. Hydraulic seal

PISTON SEAL – STYLE : SPGWB(SPGW)



Material & working condition	Main function	Feature
PTFE PISTON SEAL NYLON BACK-UP NITRILE ENERGIZER Working Temperature : -30~120℃ Working Pressure : 0~50 Mpa Speed : 0.005~1.5 m/s.	Retention of oil pressure	They consist of a filled PTFE cap energized by a T-shaped nitrile energizer and backed by two split nylon back-up rings. These seals offer low friction, high pressure operating conditions.

SEAL INFORMATION

PART
NUMBER

(Prefix)-D*d*h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
SPGWB	45*31*8.5	SPGWB	70*55*10.5	SPGWB	100*85*12	SPGWB	130*107*15.5
SPGWB	50*36*8.5	SPGWB	75*60*10.5	SPGWB	105*90*12	SPGWB	135*112*15.5
SPGWB	55*41*8.5	SPGWB	80*65*10.5	SPGWB	110*95*12	SPGWB	140*117*15.5
SPGWB	60*46*8.5	SPGWB	85*70*10.5	SPGWB	115*100*12	SPGWB	145*122*15.5
SPGWB	63*48*10.5	SPGWB	90*75*10.5	SPGWB	120*105*12	SPGWB	150*127*15.5
SPGWB	65*50*10.5	SPGWB	95*80*10.5	SPGWB	125*102*15.5	SPGWB	155*132*15.5

1. Hydraulic seal

PISTON SEAL – STYLE : SPGWB(SPGW)

PART NUMBER	
SPGWB	160*137*15.5
SPGWB	165*142*15.5
SPGWB	170*147*15.5
SPGWB	175*152*15.5
SPGWB	180*157*15.5

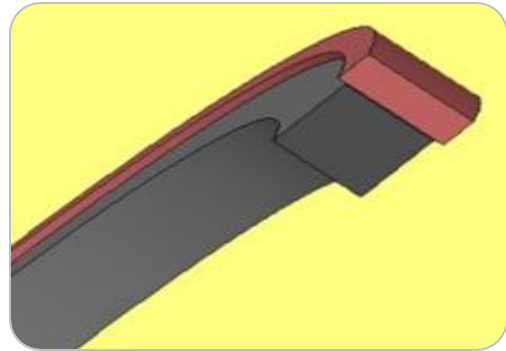
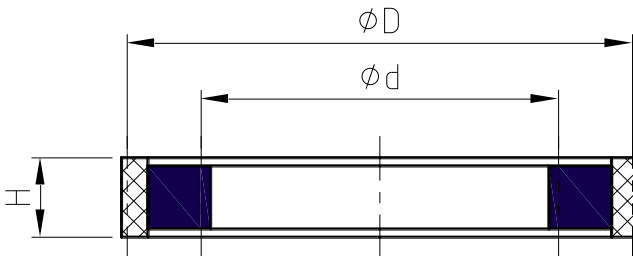
PART NUMBER	
SPGWB	185*162*15.5
SPGWB	190*167*15.5
SPGWB	195*172*15.5
SPGWB	200*177*15.5
SPGWB	210*187*15.5

PART NUMBER	
SPGWB	220*197*15.5
SPGWB	225*202*15.5
SPGWB	230*207*15.5
SPGWB	240*217*15.5
SPGWB	250*222*17

PART NUMBER	
SPGWB	260*232*17
SPGWB	270*242*17
SPGWB	280*252*17
SPGWB	290*262*17
SPGWB	300*272*17

1. Hydraulic seal

PISTON SEAL – STYLE : SPW(SPQ)



Material & working condition	Main function	Feature
PTFE PISTON SEAL NITRILE ENERGIZER Working Temperature : -30~100℃ Working Pressure : 0~35 Mpa Speed : 0.005~1.5 m/s.	Retention of oil pressure	This is a standard type of combination seal for wide range of application.

SEAL INFORMATION

PART NUMBER	(Prefix)-D*d*h
-------------	----------------

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
SPW	30*20.5*4.3	SPW	45*35*4.3	SPW	60*50*4.3	SPW	65*54*4.9
SPW	31.5*22*4.3	SPW	50*40*4.3	SPW	60*49*4.9	SPW	65*50*7.3
SPW	32*22.5*4.3	SPW	50*39*4.9	SPW	60*49*5.9	SPW	69*54*7.3
SPW	35*25.5*4.3	SPW	55*45*3.8	SPW	60*45*4.9	SPW	70*60*4.8
SPW	35.5*26*4.3	SPW	55*45*4.3	SPW	60*45*6	SPW	70*59*4.9
SPW	40*30*4.3	SPW	56*46*4.3	SPW	63*48*7.3	SPW	70*59*5.9

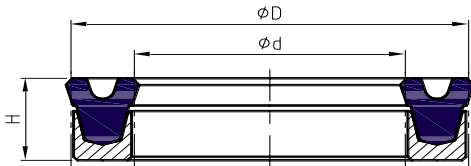
1. Hydraulic seal

PISTON SEAL – STYLE : SPW(SPG)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
SPW	70*56*6	SPW	110*94*5.9	SPW	180*158*10.8	SPW	320*296*11.7
SPW	70*55*6	SPW	110*94*7.3	SPW	185*163*10.8	SPW	330*308*9.85
SPW	70*55*7.3	SPW	112*96*7.3	SPW	190*168*10.8	SPW	63.5*53.98*4.7
SPW	71*56*7.3	SPW	115*99*5.9	SPW	195*173*10.8	SPW	69.85*60.33*4.7
SPW	75*60*7.3	SPW	115*99*7.3	SPW	200*178*10.8	SPW	76.2*62.48*4.7
SPW	80*69*4.9	SPW	120*104*7.3	SPW	204*182*10.8	SPW	82.55*68.83*4.7
SPW	80*65*6	SPW	125*109*7.3	SPW	210*188*10.8	SPW	88.9*75.18*4.7
SPW	80*65*7.3	SPW	130*114*7.3	SPW	215*203*4.8	SPW	101.6*84.71*6.3
SPW	85*70*7.3	SPW	135*114*7.3	SPW	220*198*10.8	SPW	107.95*91.06*6.3
SPW	90*80*5	SPW	140*128*5.3	SPW	224*202*10.8	SPW	114.3*97.41*6.3
SPW	90*79*5.9	SPW	140*124*7.3	SPW	225*203*10.8	SPW	120.65*103.76*6.3
SPW	90*75*5.9	SPW	140*122*7.9	SPW	230*208*10.8	SPW	127*107.32*9.5
SPW	90*75*7.3	SPW	145*129*7.3	SPW	240*218*10.8	SPW	139.7*120.02*9.5
SPW	95*80*7.3	SPW	150*134*7.3	SPW	250*236*10.8	SPW	152.4*129.41*9.5
SPW	100*86*5.9	SPW	150*132*7.9	SPW	260*236*11.7	SPW	158.75*135.76*9.5
SPW	100*85*7.3	SPW	155*139*7.3	SPW	270*246*11.7	SPW	165.1*142.11*9.5
SPW	105*89*7.3	SPW	160*144*7.3	SPW	280*256*11.7	SPW	177.8*154.81*9.5
SPW	108*92*7.3	SPW	160*138*10.8	SPW	290*266*11.7	SPW	184.15*161.16*9.5
SPW	110*95*5.9	SPW	170*148*10.8	SPW	300*276*11.7	SPW	209.55*184.28*9.5
SPW	110*95*7.3	SPW	175*153*10.8	SPW	310*286*11.7		

1. Hydraulic seal

PISTON SEAL – STYLE : UKH



Material & working condition	Main function	Feature
NITRILE PACKING NYLON BACK-UP Working Temperature : -30~100℃ Working Pressure : 0~21 Mpa Speed : 0.008~1 m/s.	Retention of oil pressure	Molded from 70A nitrile for high seal ability they employ a hard nylon anti-extrusion ring as a companion piece.

SEAL INFORMATION

PART
NUMBER

(Prefix)-D*d*h

PART NUMBER	
UKH	45*30*9
UKH	50*35*9
UKH	55*40*9
UKH	60*45*9

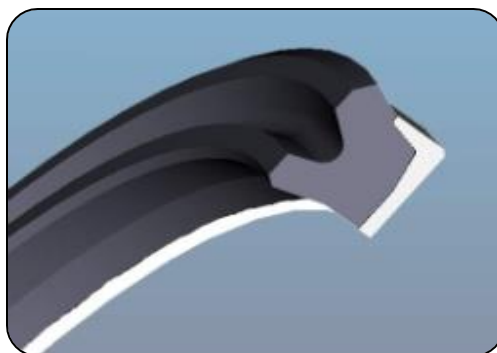
PART NUMBER	
UKH	65*50*9
UKH	70*55*9
UKH	75*60*12
UKH	80*65*12

PART NUMBER	
UKH	85*70*12
UKH	90*70*12
UKH	95*75*12
UKH	110*90*12

PART NUMBER	
UKH	120*100*13
UKH	150*130*13
UKH	160*140*13
UKH	180*160*15

1. Hydraulic seal

PISTON SEAL – STYLE : OUY



Material & working condition	Main function	Feature
NITRILE PACKING NYLON BACK-UP Working Temperature : -30~100℃ Working Pressure : 0~21 Mpa Speed : 0.008~1 m/s.	Retention of oil pressure	Molded from 70A nitrile for high seal ability they employ a hard nylon anti-extrusion ring as a companion piece.

SEAL INFORMATION

PART
NUMBER

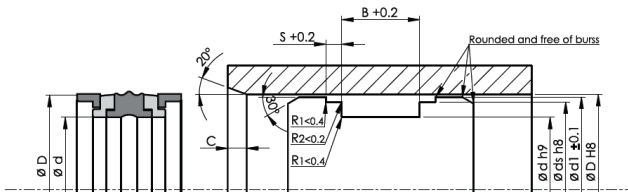
(Prefix)-D*d*h

PART NUMBER	
OUY	70*55*8
OUY	90*70*12
OUY	95*75*12
OUY	100*80*12

PART NUMBER	
OUY	110*90*13
OUY	130*110*13
OUY	140*120*13

1. Hydraulic seal

PISTON SEAL – STYLE : DAS



Material & working condition	Main function	Feature
NBR+TPE+,POM Glass Filler Working Temperature : -30~105℃ Working Pressure : 0~40 Mpa Speed : 0.005~1.5 m/s.	Retention of oil pressure	DAS Compact seals which have a widespread use are used as double acting sealing elements in hydraulic cylinders' piston applications. They can be easily assembled thanks to their 5-piece design.

SEAL INFORMATION

PART
NUMBER

(Prefix)-D*d*B*S

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DAS	20*11*13.5*2.1	DAS	30*17*15.4	DAS	32*24*10*4	DAS	40*30*12.5
DAS	25*15*16.4	DAS	30*21*13.5	DAS	35*25*16.4	DAS	40*30*12.3
DAS	25*15*12.5*4	DAS	32*22*16.4	DAS	38.1*25.4*15.87	DAS	40*32*15.5
DAS	25*16*13.5*2.1	DAS	32*22*15.5	DAS	40*24*18.4	DAS	40*32*10*4
DAS	25*17*10*4	DAS	32*22*12.5	DAS	40*26*15.5	DAS	44.45*28.57*19.05
DAS	25*17*13.5*3.2	DAS	32*24*15.5	DAS	40*30*16.4	DAS	45*29*18.4

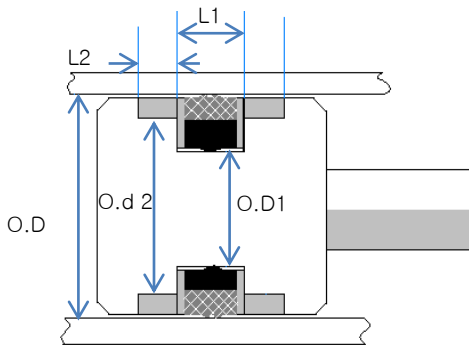
1. Hydraulic seal

PISTON SEAL – STYLE : DAS

PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
DAS 45*31*15.5	DAS 75*55*22.4	DAS 110*92*22.5	DAS 160*135*25.4
DAS 45*35*16.4	DAS 75*59*20.5	DAS 110*95*20	DAS 160*135*45
DAS 50.8*34.92*19.05	DAS 76.2*57.15*23.80	DAS 110*96*22.4	DAS 160*138*26.5/5.1
DAS 50*34*20.5	DAS 80*60*22.4	DAS 115*90*22.4	DAS 160*143*26.5
DAS 50*34*18.4	DAS 80*60*25	DAS 115*97*22.4	DAS 165*140*25.4
DAS 50*35*20	DAS 80*62*22.4	DAS 115*101*22.4	DAS 170*145*25.4
DAS 50*38*20.5	DAS 80*65*20	DAS 120*95*22.4	DAS 170*148*26.5
DAS 50*40*12.5	DAS 80*66*22.4	DAS 120*100*35	DAS 180*150*35.4
DAS 55*39*20.5	DAS 82*55*63.5*23.80	DAS 120*106*22.4	DAS 180*155*25.4
DAS 55*39*18.4	DAS 85*65*22.4	DAS 125*100*25.4	DAS 180*158*26.5
DAS 55*45*11	DAS 85*65*21.4	DAS 125*100*45	DAS 180*163*26.5
DAS 55*45*12.5	DAS 88.9*69.85*30.15	DAS 125*103*26.5	DAS 185*160*25.4*12.7
DAS 56*40*20.5	DAS 88.9*69.85*24.81*6.35	DAS 125*105*25.4	DAS 190*165*25.4*12.7
DAS 57.15*41.27*19.05	DAS 90*70*22.4	DAS 125*105*25*6.35	DAS 195*170*25.4*12.7
DAS 60*44*20.5	DAS 90*72*22.5	DAS 125*108*26.5	DAS 200*170*35.4
DAS 60*44*18.4	DAS 90*75*20	DAS 127*101.6*31.75	DAS 200*175*31.5
DAS 60*48*20.5	DAS 90*76*22.4	DAS 130*105*25.4	DAS 200*175*25.4
DAS 63.5*47.62*19.05	DAS 95*75*22.4	DAS 130*105*25.4/9.52	DAS 200*180*31.5
DAS 63.5*53.97*11.1	DAS 95*81*22.4	DAS 130*105*25.4/9.2	DAS 210*185*25.4
DAS 63*47*20.5	DAS 100*75*22.4	DAS 135*110*25.4*9.52	DAS 220*190*35.4
DAS 63*47*18.4	DAS 100*80*25.4	DAS 140*115*25.4	DAS 220*195*25.4*12.7
DAS 63*47*19.4	DAS 100*80*25	DAS 140*115*25.4*9.52	DAS 220*200*31.5
DAS 63*48*20	DAS 100*80*35	DAS 140*118*26.5	DAS 230*205*25.4
DAS 63*51*20.5	DAS 100*82*22.4	DAS 140*120*25*6.35	DAS 240*215*25.4*12.7
DAS 63*53*12.5	DAS 100*85*20	DAS 140*123*26.5	DAS 250*220*35.4
DAS 65*49*20.5	DAS 100*86*22.4	DAS 145*120*25.4*9.52	DAS 250*225*25.4
DAS 65*50*18.4	DAS 101.6*82.55*23.81	DAS 150*125*25.4*9.5	DAS 250*230*31.5
DAS 66.67*50.80*19.50	DAS 105*80*22.4	DAS 150*125*25.4*6.35	DAS 280*250*36.4
DAS 70*50*22.4	DAS 110*85*22.4	DAS 150*128*26.5	DAS 280*250*35.4*9.52
DAS 70*54*20.5	DAS 110*85*25.4	DAS 152.4*127*31.75	
DAS 70*55*20*5	DAS 110*90*35	DAS 160*130*25.4	
DAS 70*58*20.5	DAS 110*90*25.3*9.52	DAS 160*130*25.4*9.52	

1. Hydraulic seal

PISTON SEAL – STYLE : NCF A1



Material & working condition	Main function	Feature
FABRIC NBR + POM (Glass filler) + TPE Working Temperature : - 25~105℃ Working Pressure : 0~350Mpa Speed : 0.5 m/sn.	Retention of oil pressure	NCF A0 Compact seals which have a widespread use are used as double acting sealing elements in hydraulic cylinders' piston applications. They can be easily assembled thanks to their 5-piece design.

SEAL INFORMATION

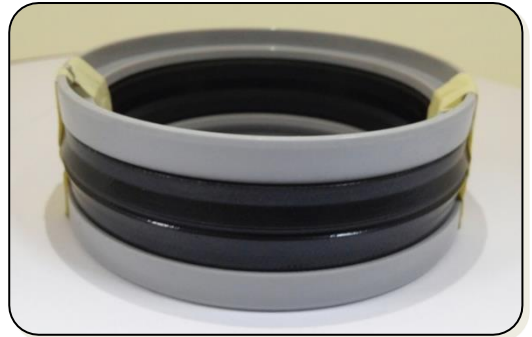
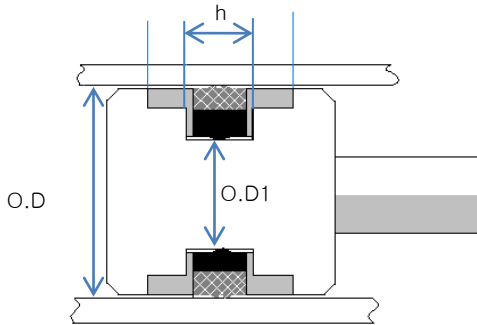
PART
NUMBER

(Prefix)-OD

Part Number	OD	OD1	Od2	L1	L2
NCF A1-70	70	56	61.5	22	7.95
NCF A1-80	80	66	71.5	22	7.95
NCF A1-90	90	76	81.5	22	7.95
NCF A1-100	100	86	91.5	22	9.95
NCF A1-110	110	96	101.5	22	9.95
NCF A1-120	120	106	111.5	22	9.95

1. Hydraulic seal

PISTON SEAL – STYLE : NCF A0



Material & working condition	Main function	Feature
FABRIC NBR+,POM Working Temperature : - 30~105℃ Working Pressure : 0~350Mpa Speed : 0.5 m/sn.	Retention of oil pressure	NCF A0 Compact seals which have a widespread use are used as double acting sealing elements in hydraulic cylinders' piston applications. They can be easily assembled thanks to their 5-piece design.

SEAL INFORMATION

PART
NUMBER

(Prefix)-O.D*O.D1*h

Part number	
NCF A0	30*22*13.5
NCF A0	40*32*15.5
NCF A0	63*51*20.5
NCF A0	70*58*20.5
NCF A0	80*66*22.5

Part number	
NCF A0	90*76*22.5
NCF A0	100*86*22.5
NCF A0	120*106*22.5
NCF A0	140*123*26.5
NCF A0	150*133*26.5

1. Hydraulic seal

WEAR RING- STYLE : WRW/GWR/AWR (WR)

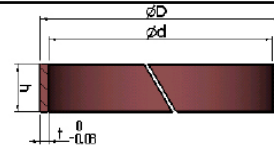


Material & working condition	Main function	Feature
①WRW: HRM 100, C/Strength 250Mpa (Temperature range: -40~120) ②GWR : HRM 105, C/Strength 280Mpa (Temperature range: -40~130) ③AWR : HRM 115, C/Strength 344Mpa (Temperature range: -40~200)	Bearing	Stick slip is prevented by using PTFE's excellent friction characteristics. Fabric phenol resin with high elasticity is used for applications requiring large lateral load. GWR : filled graphite compound for improving lubricant AWR : it is made of Aramid fabric which has very special compressive strength(344Mpa) and cold proof and high heat resistance. ※ When the O/D is over 100 Φ, Thickness is under 2.5 mm , Height is under 15 mm, we suggest to use AWR or at least use GWR to assure the compressive strength.

SEAL INFORMATION

PART
NUMBER

(Prefix)-D*d*H



PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	20*16*8	Prefix	26*22*8	Prefix	29*25*25	Prefix	30*25*15
Prefix	22*18*8	Prefix	28*24*8	Prefix	29*25*8	Prefix	30*25*20
Prefix	24*20*8	Prefix	29*22*20	Prefix	30*22*15	Prefix	30*25*8
Prefix	25*20*9.5	Prefix	29*22*25	Prefix	30*22*20	Prefix	30*25*9.5
Prefix	25*21*8	Prefix	29*22*8	Prefix	30*22*8	Prefix	30*26*8
Prefix	26*22*15	Prefix	29*25*20	Prefix	30*25*10	Prefix	31*22*16

1. Hydraulic seal

WEAR RING– STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	31*22*8	Prefix	39*35*10	Prefix	45*40*30	Prefix	50*46*12
Prefix	31*25*16	Prefix	39*35*25	Prefix	45*40*50	Prefix	50*46*15
Prefix	31*28*16	Prefix	40*30*5	Prefix	45*40*8	Prefix	50*46*20
Prefix	31.8*27.7*15.5	Prefix	40*35*10	Prefix	45*40*9.5	Prefix	50*46*35
Prefix	32*22*20	Prefix	40*35*15	Prefix	45*41*12	Prefix	50*46*8
Prefix	32*22*8	Prefix	40*35*20	Prefix	45*41*20	Prefix	51*45*12.5
Prefix	32*25*20	Prefix	40*35*5.5	Prefix	46*40*20	Prefix	51*45*50
Prefix	32*25*8	Prefix	40*35*8	Prefix	50*44*16	Prefix	51*45*6
Prefix	32*28*20	Prefix	40*35*9.5	Prefix	50*44*20	Prefix	52*49*8
Prefix	32*28*8	Prefix	40*36*10	Prefix	50*44*8	Prefix	53*50*12
Prefix	33*22*20	Prefix	40*36*20	Prefix	50*45*10	Prefix	53*50*8
Prefix	33*25*20	Prefix	40*36*5	Prefix	50*45*12	Prefix	53.8*50.8*24.7
Prefix	33*28*20	Prefix	40*36*8	Prefix	50*45*15	Prefix	55*49*15
Prefix	34*30*10	Prefix	40*36*9.7	Prefix	50*45*20	Prefix	55*49*16
Prefix	34*30*20	Prefix	41*36*9.7	Prefix	50*45*25	Prefix	55*49*20
Prefix	34*30*25	Prefix	42*39*16	Prefix	50*45*30	Prefix	55*49*6
Prefix	35*30*10	Prefix	45*39*14	Prefix	50*45*35	Prefix	55*50*10
Prefix	35*30*20	Prefix	45*39*15	Prefix	50*45*5	Prefix	55*50*15
Prefix	35*30*25	Prefix	45*39*20	Prefix	50*45*5.6	Prefix	55*50*20
Prefix	35*30*30	Prefix	45*40*10	Prefix	50*45*7	Prefix	55*50*25
Prefix	35*31*10	Prefix	45*40*12	Prefix	50*45*8	Prefix	55*50*30
Prefix	36*31*6	Prefix	45*40*15	Prefix	50*45*8.7	Prefix	55*50*8
Prefix	36*32*10	Prefix	45*40*20	Prefix	50*45*9.5	Prefix	55*50*9.5
Prefix	38*32*6	Prefix	45*40*25	Prefix	50*46*10	Prefix	55*51*10

1. Hydraulic seal

WEAR RING– STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	55*51*10	Prefix	63*58*10	Prefix	66*60*50	Prefix	73.03*60.2*45.5
Prefix	56*50*10	Prefix	63*58*12	Prefix	66*61*20	Prefix	73.03*66.68*22.0
Prefix	56*50*15	Prefix	63*58*15	Prefix	68*63*9.4	Prefix	75*64*15
Prefix	56*50*16	Prefix	63*58*20	Prefix	69*63*15	Prefix	75*69*12
Prefix	56*50*30	Prefix	63*58*25	Prefix	69*64*10	Prefix	75*69*12.5
Prefix	56*50*9.5	Prefix	63*58*6	Prefix	69*64*20	Prefix	75*69*15
Prefix	56*51*10	Prefix	63*58*8	Prefix	70*60*15	Prefix	75*69*20
Prefix	56*51*15	Prefix	63*58*9.5	Prefix	70*63.7*15.2	Prefix	75*69*25
Prefix	57.15*50.8*22.0	Prefix	63*59*10	Prefix	70*64*15	Prefix	75*70*10
Prefix	60*54*15	Prefix	63*59*4	Prefix	70*64*16	Prefix	75*70*12
Prefix	60*54*20	Prefix	63*59*8	Prefix	70*64*20	Prefix	75*70*15
Prefix	60*54*25	Prefix	65*55*10	Prefix	70*64.3*14.5	Prefix	75*70*20
Prefix	60*54*8	Prefix	65*57*12	Prefix	70*65*10	Prefix	75*70*25
Prefix	60*55*10	Prefix	65*59*10	Prefix	70*65*12	Prefix	75*70*30
Prefix	60*55*12	Prefix	65*59*15	Prefix	70*65*15	Prefix	75*70*40
Prefix	60*55*15	Prefix	65*59*16	Prefix	70*65*20	Prefix	75*70*50
Prefix	60*55*20	Prefix	65*59*20	Prefix	70*65*25	Prefix	75*70*9.5
Prefix	60*55*25	Prefix	65*60*10	Prefix	70*65*5.3	Prefix	76*70*10
Prefix	60*55*30	Prefix	65*60*15	Prefix	70*65*9.5	Prefix	76*70*20
Prefix	60*55*7	Prefix	65*60*20	Prefix	71*65*20	Prefix	76*71*20
Prefix	60*55*8	Prefix	65*60*25	Prefix	71*65*30	Prefix	76.2*69.85*12.7
Prefix	60*55*9.5	Prefix	65*60*30	Prefix	71*66*10	Prefix	80*73*10
Prefix	61*56*15	Prefix	65*60*9.5	Prefix	71*66*20	Prefix	80*74*10
Prefix	63*57*16	Prefix	66*60*10	Prefix	71*66*6	Prefix	80*74*12

1. Hydraulic seal

WEAR RING– STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	73.03*60.2*45.5	Prefix	80*74*15	Prefix	85*75*10	Prefix	90*84*15
Prefix	73.03*66.68*22.0	Prefix	80*74*16.5	Prefix	85*79*10	Prefix	90*84*20
Prefix	75*64*15	Prefix	80*74*17	Prefix	85*79*12.5	Prefix	90*84*25
Prefix	75*69*12	Prefix	80*74*20	Prefix	85*79*14.5	Prefix	90*84*30
Prefix	75*69*12.5	Prefix	80*74*25	Prefix	85*79*15	Prefix	90*84*35
Prefix	75*69*15	Prefix	80*74*30	Prefix	85*79*20	Prefix	90*85*10
Prefix	75*69*20	Prefix	80*74*6	Prefix	85*79*25	Prefix	90*85*12.5
Prefix	75*69*25	Prefix	80*74*8	Prefix	85*80*10	Prefix	90*85*15
Prefix	75*70*10	Prefix	80*75*10	Prefix	85*80*12	Prefix	90*85*20
Prefix	75*70*12	Prefix	80*75*12	Prefix	85*80*15	Prefix	90*85*25
Prefix	75*70*15	Prefix	80*75*15	Prefix	85*80*20	Prefix	90*85*35
Prefix	75*70*20	Prefix	80*75*20	Prefix	85*80*25	Prefix	90*85*40
Prefix	75*70*25	Prefix	80*75*25	Prefix	85*80*35	Prefix	90*85*6
Prefix	75*70*30	Prefix	80*75*30	Prefix	85*80*9.5	Prefix	90*85*9.5
Prefix	75*70*40	Prefix	80*75*6	Prefix	86*80*25	Prefix	90*86*20
Prefix	75*70*50	Prefix	80*75*9.5	Prefix	88*81.7*37.5	Prefix	91*81*13
Prefix	75*70*9.5	Prefix	80*76*10	Prefix	88.9*82.5*9.5	Prefix	93*84*12
Prefix	76*70*10	Prefix	80*76*15	Prefix	88.9*82.55*12.7	Prefix	95*85*15
Prefix	76*70*20	Prefix	80*76*30	Prefix	89*82*10	Prefix	95*86*12
Prefix	76*71*20	Prefix	80*76*5	Prefix	90*80*19.5	Prefix	95*86*12.5
Prefix	76.2*69.85*12.7	Prefix	80*76*8	Prefix	90*81*12.5	Prefix	95*87*6
Prefix	80*73*10	Prefix	82*72*12	Prefix	90*82*15	Prefix	95*89*10
Prefix	80*74*10	Prefix	83*75*6	Prefix	90*84*10	Prefix	95*89*12.5
Prefix	80*74*12	Prefix	84*78*15	Prefix	90*84*12.5	Prefix	95*89*15

1. Hydraulic seal

WEAR RING– STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	95*89*20	Prefix	100*95*10	Prefix	105*100*25	Prefix	110*103*35
Prefix	95*89*25	Prefix	100*95*12.5	Prefix	105*100*6	Prefix	110*104*12
Prefix	95*90*10	Prefix	100*95*15	Prefix	105*100*8	Prefix	110*104*12.5
Prefix	95*90*12.5	Prefix	100*95*20	Prefix	105*100*9.5	Prefix	110*104*13
Prefix	95*90*15	Prefix	100*95*25	Prefix	105*101*20	Prefix	110*104*14
Prefix	95*90*25	Prefix	100*95*30	Prefix	105*96*12.5	Prefix	110*104*15
Prefix	95*90*50	Prefix	100*95*5	Prefix	105*99*10	Prefix	110*104*20
Prefix	95*90*6	Prefix	100*95*6	Prefix	105*99*12.5	Prefix	110*104*25
Prefix	95*90*9.5	Prefix	100*95*8	Prefix	105*99*15	Prefix	110*104*30
Prefix	100*91*10	Prefix	100*95*9.5	Prefix	105*99*20	Prefix	110*104*35
Prefix	100*91*12.1	Prefix	100*96*10	Prefix	105*99*25	Prefix	110*104*40
Prefix	100*91*12.5	Prefix	100*96*15	Prefix	105*99*30	Prefix	110*105*10
Prefix	100*92*10	Prefix	100*96*5	Prefix	106*100*15	Prefix	110*105*12.5
Prefix	100*92*15	Prefix	100*96*6	Prefix	106*100*20	Prefix	110*105*15
Prefix	100*92*30	Prefix	100*96*8	Prefix	106*99*25	Prefix	110*105*20
Prefix	100*92*5.9	Prefix	101*95.6*10	Prefix	108*102*15	Prefix	110*105*25
Prefix	100*92*9.5	Prefix	101*95.6*12.5	Prefix	110*101*10	Prefix	110*105*30
Prefix	100*94*10	Prefix	101.0*95.25*12.7	Prefix	110*101*12.1	Prefix	110*105*40
Prefix	100*94*12.5	Prefix	102*96*8	Prefix	110*101*12.5	Prefix	110*105*6
Prefix	100*94*14	Prefix	103*94*12	Prefix	110*101*15	Prefix	110*105*8
Prefix	100*94*15	Prefix	105*100*10	Prefix	110*101*9.8	Prefix	110*105*9.5
Prefix	100*94*20	Prefix	105*100*12.5	Prefix	110*102*15	Prefix	110*106*15
Prefix	100*94*25	Prefix	105*100*15	Prefix	110*102*25	Prefix	112*106*10
Prefix	100*94*30	Prefix	105*100*20	Prefix	110*102*8	Prefix	112*106*15

1. Hydraulic seal

WEAR RING– STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	112*106*20	Prefix	120*111*15	Prefix	124*114*15	Prefix	125*120*40
Prefix	112*106*30	Prefix	120*112*15	Prefix	125*114*15	Prefix	125*120*50
Prefix	115*105*15	Prefix	120*112*6	Prefix	125*115*15	Prefix	125*120*6
Prefix	115*105*20	Prefix	120*112*8	Prefix	125*115*20	Prefix	125*120*8
Prefix	115*106*15	Prefix	120*112*9.5	Prefix	125*117*8	Prefix	125*120*9.5
Prefix	115*107*15	Prefix	120*113*20	Prefix	125*118*10	Prefix	125*121*10
Prefix	115*107*8	Prefix	120*113*30	Prefix	125*118*15	Prefix	126*120*10
Prefix	115*109*10	Prefix	120*114*10	Prefix	125*118*20	Prefix	126*120*30
Prefix	115*109*15	Prefix	120*114*12	Prefix	125*118*30	Prefix	127*121*15
Prefix	115*109*30	Prefix	120*114*15	Prefix	125*118*50	Prefix	129*119*30
Prefix	115*110*10	Prefix	120*114*20	Prefix	125*119*10	Prefix	130*118*7.5
Prefix	115*110*12.5	Prefix	120*114*25	Prefix	125*119*15	Prefix	130*120*15
Prefix	115*110*15	Prefix	120*114*30	Prefix	125*119*20	Prefix	130*120*16
Prefix	115*110*20	Prefix	120*114*35	Prefix	125*119*25	Prefix	130*120*20
Prefix	115*110*25	Prefix	120*115*10	Prefix	125*119*30	Prefix	130*120*30
Prefix	115*110*30	Prefix	120*115*12.5	Prefix	125*119*35	Prefix	130*121*15
Prefix	115*110*35	Prefix	120*115*15	Prefix	125*119*8	Prefix	130*122*8
Prefix	115*110*6	Prefix	120*115*20	Prefix	125*119*9.5	Prefix	130*122*9.5
Prefix	115*110*8	Prefix	120*115*25	Prefix	125*120*10	Prefix	130*123*10
Prefix	115*110*9.5	Prefix	120*115*30	Prefix	125*120*12.5	Prefix	130*123*15
Prefix	116*110*30	Prefix	120*115*35	Prefix	125*120*15	Prefix	130*123*20
Prefix	118*108*15	Prefix	120*115*8	Prefix	125*120*20	Prefix	130*123*25
Prefix	120*110*16	Prefix	120*115*9.5	Prefix	125*120*25	Prefix	130*123*30
Prefix	120*110*9.5	Prefix	122*117*15	Prefix	125*120*30	Prefix	130*123*35

1. Hydraulic seal

WEAR RING– STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	130*123*40	Prefix	135*128*25	Prefix	139.4*133.6*31.7	Prefix	140*135*10
Prefix	130*124*15	Prefix	135*128*35	Prefix	140*117*15	Prefix	140*135*12
Prefix	130*124*30	Prefix	135*128*50	Prefix	140*128*12	Prefix	140*135*12.5
Prefix	130*124*9.8	Prefix	135*128*9.5	Prefix	140*128*17	Prefix	140*135*15
Prefix	130*125*10	Prefix	135*129*14	Prefix	140*128*17.5	Prefix	140*135*20
Prefix	130*125*12.5	Prefix	135*129*15	Prefix	140*128*20	Prefix	140*135*25
Prefix	130*125*15	Prefix	135*129*20	Prefix	140*130*30	Prefix	140*135*30
Prefix	130*125*20	Prefix	135*129*25	Prefix	140*132*8	Prefix	140*135*35
Prefix	130*125*25	Prefix	135*129*30	Prefix	140*132*9.5	Prefix	140*135*50
Prefix	130*125*30	Prefix	135*129*35	Prefix	140*133*10	Prefix	140*135*8
Prefix	130*125*8	Prefix	135*129*8	Prefix	140*133*15	Prefix	140*135*9.5
Prefix	130*125*9.5	Prefix	135*130*10	Prefix	140*133*17	Prefix	142*135*15
Prefix	131*127*22	Prefix	135*130*12.5	Prefix	140*133*17.5	Prefix	145*130*40
Prefix	132*125*35	Prefix	135*130*15	Prefix	140*133*20	Prefix	145*133*17.5
Prefix	135*125*15	Prefix	135*130*8	Prefix	140*133*25	Prefix	145*135*15
Prefix	135*125*7.6	Prefix	135*130*9.5	Prefix	140*133*30	Prefix	145*137*10
Prefix	135*126*15	Prefix	136*130*10	Prefix	140*133*35	Prefix	145*138*10
Prefix	135*127*10	Prefix	137*127*17	Prefix	140*133*40	Prefix	145*138*15
Prefix	135*127*15	Prefix	137*130*30	Prefix	140*133*45	Prefix	145*138*17
Prefix	135*127*25	Prefix	137.4*133.6*31.7	Prefix	140*133*50	Prefix	145*138*20
Prefix	135*127*8	Prefix	138*130*15	Prefix	140*134*25	Prefix	145*138*25
Prefix	135*128*10	Prefix	138*132*20	Prefix	140*134*30	Prefix	145*138*30
Prefix	135*128*15	Prefix	139*127*17.2	Prefix	140*134*40	Prefix	145*138*35
Prefix	135*128*20	Prefix	139*132.7*31	Prefix	140*134*50	Prefix	145*138*50

1. Hydraulic seal

WEAR RING- STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	145*138*9.5	Prefix	150*143*30	Prefix	155*150*10	Prefix	160*153*45
Prefix	145*140*10	Prefix	150*143*35	Prefix	155*150*15	Prefix	160*154*15
Prefix	145*140*12.5	Prefix	150*143*40	Prefix	155*150*20	Prefix	160*154*40
Prefix	145*140*15	Prefix	150*143*45	Prefix	155*150*25	Prefix	160*154*50
Prefix	145*140*20	Prefix	150*143*50	Prefix	155*150*30	Prefix	160*155*10
Prefix	145*140*25	Prefix	150*144*35	Prefix	155*150*8	Prefix	160*155*12.5
Prefix	145*140*50	Prefix	150*144*40	Prefix	156*150*35	Prefix	160*155*15
Prefix	145*140*8	Prefix	150*144*50	Prefix	157*150*40	Prefix	160*155*20
Prefix	145*140*9.5	Prefix	150*145*10	Prefix	157*152*25	Prefix	160*155*25
Prefix	147*140*30	Prefix	150*145*12.5	Prefix	158*150*60	Prefix	160*155*40
Prefix	147*140*40	Prefix	150*145*15	Prefix	159*147*20	Prefix	160*155*50
Prefix	150*127*15	Prefix	150*145*20	Prefix	160*148*10	Prefix	160*155*8
Prefix	150*138*17.5	Prefix	150*145*25	Prefix	160*148*20	Prefix	160*155*9.5
Prefix	150*140*35	Prefix	150*145*35	Prefix	160*148*22	Prefix	165*157*10
Prefix	150*140*9.5	Prefix	150*145*40	Prefix	160*150*20	Prefix	165*157*15
Prefix	150*142*15	Prefix	150*145*50	Prefix	160*150*23	Prefix	165*157*20
Prefix	150*142*17	Prefix	150*145*8	Prefix	160*152*35	Prefix	165*157*25
Prefix	150*142*20	Prefix	150*145*9.5	Prefix	160*153*10	Prefix	165*157*30
Prefix	150*142*8	Prefix	150*145*9.7	Prefix	160*153*15	Prefix	165*157*35
Prefix	150*143*10	Prefix	151*145*50	Prefix	160*153*20	Prefix	165*157*45
Prefix	150*143*15	Prefix	152*147*13	Prefix	160*153*25	Prefix	165*157*50
Prefix	150*143*17.5	Prefix	152*147*15	Prefix	160*153*30	Prefix	165*157*9.5
Prefix	150*143*20	Prefix	155*148*15	Prefix	160*153*35	Prefix	165*158*15
Prefix	150*143*25	Prefix	155*148*35	Prefix	160*153*40	Prefix	165*158*50

1. Hydraulic seal

WEAR RING- STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	165*159*30	Prefix	170*164*9.5	Prefix	180*172*22.5	Prefix	180*175*35
Prefix	165*160*10	Prefix	170*165*10	Prefix	180*172*25	Prefix	180*175*40
Prefix	165*160*15	Prefix	170*165*15	Prefix	180*172*30	Prefix	180*175*45
Prefix	165*160*20	Prefix	170*165*20	Prefix	180*172*35	Prefix	180*175*50
Prefix	165*160*25	Prefix	170*165*25	Prefix	180*172*40	Prefix	180*175*8
Prefix	165*160*30	Prefix	170*165*30	Prefix	180*172*45	Prefix	180*175*9.5
Prefix	165*160*35	Prefix	170*165*35	Prefix	180*172*50	Prefix	184.5*178.2*25.4
Prefix	165*160*40	Prefix	170*165*50	Prefix	180*172*55	Prefix	185*173*20
Prefix	165*160*50	Prefix	170*165*8	Prefix	180*173*14.8	Prefix	185*173*22.5
Prefix	170*158*20	Prefix	170*165*9.5	Prefix	180*173*25	Prefix	185*173*25
Prefix	170*162*10	Prefix	175*165*15	Prefix	180*173*45	Prefix	185*177*15
Prefix	170*162*15	Prefix	175*168*15	Prefix	180*173*50	Prefix	185*177*45
Prefix	170*162*20	Prefix	175*169*50	Prefix	180*174*10	Prefix	185*180*10
Prefix	170*162*25	Prefix	175*170*10	Prefix	180*174*20	Prefix	185*180*14.8
Prefix	170*162*30	Prefix	175*170*25	Prefix	180*174*35	Prefix	185*180*25
Prefix	170*162*35	Prefix	180*168*22.5	Prefix	180*174*40	Prefix	185*180*50
Prefix	170*162*4.5	Prefix	180*170*25	Prefix	180*174*50	Prefix	186*180*20
Prefix	170*162*40	Prefix	180*170*8	Prefix	180*175*10	Prefix	190*178*22
Prefix	170*162*45	Prefix	180*172*10	Prefix	180*175*12	Prefix	190*182*10
Prefix	170*162*50	Prefix	180*172*12	Prefix	180*175*12.5	Prefix	190*182*15
Prefix	170*163*40	Prefix	180*172*12.5	Prefix	180*175*15	Prefix	190*182*20
Prefix	170*164*20	Prefix	180*172*15	Prefix	180*175*20	Prefix	190*182*22.5
Prefix	170*164*35	Prefix	180*172*20	Prefix	180*175*25	Prefix	190*182*25
Prefix	170*164*50	Prefix	180*172*22	Prefix	180*175*30	Prefix	190*182*30

1. Hydraulic seal

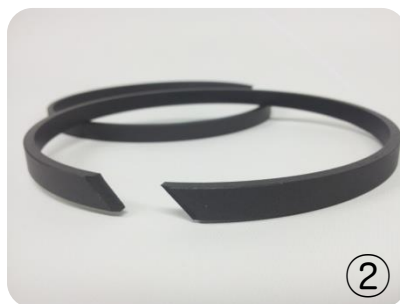
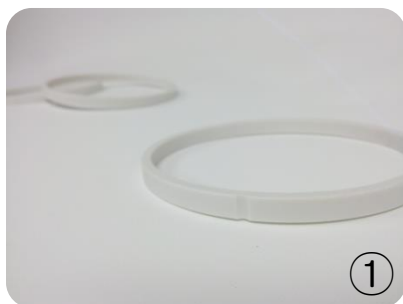
WEAR RING– STYLE : **WRW/GWR/AWR (WR)**

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	190*182*35	Prefix	200*192*15	Prefix	200*195*15	Prefix	218*211*12
Prefix	190*182*45	Prefix	200*192*20	Prefix	200*195*20	Prefix	220*212*20
Prefix	190*182*50	Prefix	200*192*22.5	Prefix	200*195*8	Prefix	220*212*40
Prefix	190*184*50	Prefix	200*192*25	Prefix	200*195*9.5	Prefix	220*212*45
Prefix	190*185*10	Prefix	200*192*30	Prefix	200*196*25	Prefix	220*212*50
Prefix	190*185*15	Prefix	200*192*40	Prefix	204*196*25	Prefix	220*214*60
Prefix	190*185*30	Prefix	200*192*45	Prefix	205*197*50	Prefix	224*215*50
Prefix	190*185*8	Prefix	200*192*50	Prefix	205*200*70	Prefix	224*216*25
Prefix	190*185*9.5	Prefix	200*194*10	Prefix	210*202*14	Prefix	224*216*26
Prefix	195*190*10	Prefix	200*194*15	Prefix	210*202*25	Prefix	224*218*60
Prefix	195*190*15	Prefix	200*194*20	Prefix	210*202*45	Prefix	225*213*22.5
Prefix	195*190*20	Prefix	200*194*25	Prefix	210*202*50	Prefix	225*217*25
Prefix	195*190*25	Prefix	200*194*30	Prefix	210*204*50	Prefix	225*217*45
Prefix	195*190*30	Prefix	200*194*35	Prefix	215*207*50	Prefix	225*217*50
Prefix	200*188*22.5	Prefix	200*194*40	Prefix	215*210*15	Prefix	230*222*30
Prefix	200*191*25	Prefix	200*194*50	Prefix	215*210*20	Prefix	270*262*35
Prefix	200*192*10	Prefix	200*195*10	Prefix	215*210*35	Prefix	280*268*30

If you looking for other size please contact us!
We are adding new size everyday!

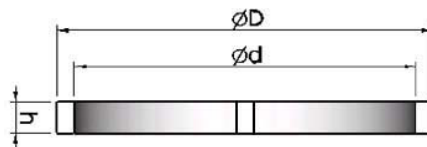
1. Hydraulic seal

DUST RING- STYLE : DZW(DR,DZT)/KZW(KZT)



Material & working condition	Main function	Feature
①DZW : Teflon(Glass filled) ②KZW : Teflon(Moly filled) Working Temperature : -55~220℃ Working Pressure : - Mpa Speed : 0.005~1.5 m/s.	Elimination of foreign objects in oil	Intrusion of foreign objects into the piston packing is inhibited by burying and capturing the foreign objects not only by scraping off foreign objects in the oil but also using PTFE's plastic deformability.

SEAL INFORMATION	
PART NUMBER	(Prefix)-D*d*h



PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	20*16*3.5	Prefix	50*42*14.8	Prefix	60*52*4	Prefix	60*55*6
Prefix	35*30*3	Prefix	55*47*4	Prefix	60*52*6	Prefix	60*55*8
Prefix	50*42*4	Prefix	55*47*5	Prefix	60*52*8	Prefix	60*55*9.5
Prefix	50*42*6	Prefix	55*47*9.5	Prefix	60*52*9.5	Prefix	63*55*4
Prefix	50*42*8	Prefix	55*50*4	Prefix	60*52*14.8	Prefix	63*55*8
Prefix	50*42*9.5	Prefix	58*50*9.5	Prefix	60*54*12	Prefix	63*55*9.5

1. Hydraulic seal

DUST RING- STYLE : DZW(DR,DZT)/KZW(KZT)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	65*57*4	Prefix	80*72*14.8	Prefix	95*87*9.5	Prefix	111*105*29.6
Prefix	65*57*8	Prefix	80*75*6	Prefix	95*87*14.8	Prefix	115*107*6
Prefix	65*57*9.5	Prefix	80*75*9.5	Prefix	95*90*8	Prefix	115*107*8
Prefix	65*60*9.5	Prefix	85*77*4	Prefix	95*90*9.5	Prefix	115*107*9.5
Prefix	69*65*3.6	Prefix	85*77*6	Prefix	95*90*14.8	Prefix	115*107*14.8
Prefix	70*62*4	Prefix	85*77*8	Prefix	100*92*6	Prefix	115*110*6
Prefix	70*62*6	Prefix	85*77*9.5	Prefix	100*92*8	Prefix	118*108*5.3
Prefix	70*62*8	Prefix	85*77*10	Prefix	100*92*9.5	Prefix	120*112*6
Prefix	70*62*9.5	Prefix	85*77*14.8	Prefix	100*92*14.8	Prefix	120*112*8
Prefix	70*62*12	Prefix	85*80*6	Prefix	100*95*6	Prefix	120*112*9.5
Prefix	70*62*14.8	Prefix	85*80*8	Prefix	100*95*9.5	Prefix	120*112*14.8
Prefix	70*65*9.5	Prefix	85*80*9.5	Prefix	100*95*20	Prefix	120*115*8
Prefix	75*67*4	Prefix	85*80*20	Prefix	105*97*6	Prefix	120*115*9.5
Prefix	75*67*6	Prefix	90*82*4	Prefix	105*97*8	Prefix	120*115*10
Prefix	75*67*8	Prefix	90*82*6	Prefix	105*97*9.5	Prefix	125*117*6
Prefix	75*67*9.5	Prefix	90*82*8	Prefix	105*97*14.8	Prefix	125*117*8
Prefix	75*67*12	Prefix	90*82*9.5	Prefix	105*100*6	Prefix	125*117*9.5
Prefix	75*67*14.8	Prefix	90*82*14.8	Prefix	105*100*9.5	Prefix	125*117*14.8
Prefix	75*70*9.5	Prefix	90*85*6	Prefix	108*100*9.5	Prefix	125*119*13.6
Prefix	80*72*4	Prefix	90*85*8	Prefix	110*102*6	Prefix	130*122*6
Prefix	80*72*6	Prefix	90*85*9.5	Prefix	110*102*8	Prefix	130*122*8
Prefix	80*72*8	Prefix	90*85*20	Prefix	110*102*9.5	Prefix	130*122*9.5
Prefix	80*72*9.5	Prefix	95*87*6	Prefix	110*102*14.8	Prefix	130*122*14.8
Prefix	80*72*12	Prefix	95*87*8	Prefix	110*105*10	Prefix	130*125*9.5

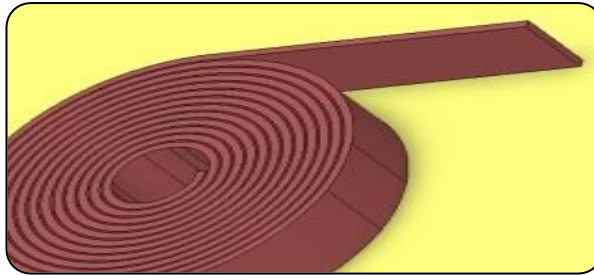
1. Hydraulic seal

DUST RING– STYLE : DZW(DR,DZT)/KZW(KZT)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	135*127*6	Prefix	150*142*6	Prefix	170*162*8	Prefix	190*182*6
Prefix	135*127*8	Prefix	150*142*8	Prefix	170*162*9.5	Prefix	190*182*8
Prefix	135*127*9.5	Prefix	150*142*9.5	Prefix	170*162*14.8	Prefix	190*182*9.5
Prefix	135*127*14.8	Prefix	150*142*14.8	Prefix	170*163*9.5	Prefix	190*182*14.8
Prefix	135*128*6	Prefix	155*147*6	Prefix	170*165*9.5	Prefix	195*187*6
Prefix	135*129*14	Prefix	155*147*8	Prefix	175*167*6	Prefix	195*187*8
Prefix	140*132*6	Prefix	155*147*9.5	Prefix	175*167*8	Prefix	195*187*9.5
Prefix	140*132*8	Prefix	155*147*14.8	Prefix	175*167*9.5	Prefix	195*187*14.8
Prefix	140*132*9.5	Prefix	160*152*6	Prefix	175*167*14.8	Prefix	200*192*6
Prefix	140*132*14.8	Prefix	160*152*8	Prefix	180*170*9.5	Prefix	200*192*8
Prefix	140*134*22.5	Prefix	160*152*9.5	Prefix	180*172*6	Prefix	200*192*9.5
Prefix	140*135*8	Prefix	160*152*14.8	Prefix	180*172*8	Prefix	200*192*14.8
Prefix	140*135*9.5	Prefix	165*157*6	Prefix	180*172*9.5	Prefix	205*197*8
Prefix	145*137*6	Prefix	165*157*8	Prefix	180*172*14.8	Prefix	205*197*9.5
Prefix	145*137*8	Prefix	165*157*9.5	Prefix	185*177*6	Prefix	210*202*8
Prefix	145*137*9.5	Prefix	165*157*14.8	Prefix	185*177*8	Prefix	210*202*9.5
Prefix	145*137*14.8	Prefix	168*160*9.5	Prefix	185*177*9.5	Prefix	215*207*8
Prefix	145*140*9.5	Prefix	170*162*6	Prefix	185*177*14.8	Prefix	215*207*9.5

1. Hydraulic seal

WEAR BAND- STYLE : RYW(RYT)



Material & working condition	Main function	Feature
Teflon : Bronze / Moly filled Working Temperature : - 55~220℃ Working Pressure : - Mpa Speed : 0.005~1.5 m/s.	Elimination of foreign objects in oil	Intrusion of foreign objects into the piston packing is inhibited by burying and capturing the foreign objects not only by scraping off foreign objects in the oil but also using PTFE's plastic deformability.

SEAL INFORMATION

PART NUMBER	(Prefix)-h*t*l(m)
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PART NUMBER	
Prefix	5*2*13m
Prefix	6*2*13m
Prefix	6*2.5*10m
Prefix	6*3*8m
Prefix	6*4*6m
Prefix	8*2*13m

PART NUMBER	
Prefix	8*2.5*10m
Prefix	8*3*8m
Prefix	8*4*6m
Prefix	9*2.5*10m
Prefix	9.5*2.5*10m
Prefix	9.5*3*8m

PART NUMBER	
Prefix	9.5*4*6m
Prefix	10*2*13m
Prefix	10*2.5*10m
Prefix	10*3*8m
Prefix	10*4*6m
Prefix	14.5*2.5*10m

PART NUMBER	
Prefix	14.5*3*8m
Prefix	14.5*4*6m
Prefix	15*2*13m
Prefix	15*2.5*10m
Prefix	15*3*8m
Prefix	15*3.5*7m

1. Hydraulic seal

WEAR BAND– STYLE : RYW(RYT)

PART NUMBER	
Prefix	15*4*6m
Prefix	20*2*13m
Prefix	20*2.5*10m
Prefix	20*3*8m
Prefix	20*4*6m
Prefix	25*2*13m

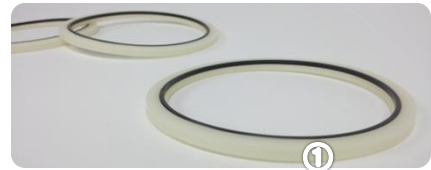
PART NUMBER	
Prefix	25*2.5*10m
Prefix	25*3*8m
Prefix	25*4*6m
Prefix	30*2*13m
Prefix	30*2.5*10m
Prefix	30*3*8m

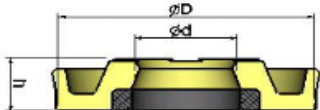
PART NUMBER	
Prefix	30*4*6m
Prefix	35*2.5*10m
Prefix	40*2.5*10m
Prefix	40*3*8m
Prefix	40*4*6m
Prefix	50*2.5*10m

PART NUMBER	
Prefix	50*3*8m
Prefix	50*4*6m
Prefix	60*3*8m
Prefix	70*3*8m

1. Hydraulic seal

BUFFER SEAL – STYLE : HBW/HBHW(HBY)



Material	Main function	Feature
①TPU : HS A 94 - Pressure: 0~45Mpa - Temperature range: -30~100 ②TPU : HS A 93 - Pressure: 0~50Mpa - Temperature range: -40~130 ③PA : Polyamide HS D 80	Buffering of impact pressure applied to rod packing	Since there are high pressure, TPU sealing ①② is used in combination with PA backup ring ③ , to use TPU with a combination of strength and flexibility so that the pressure resistance is supplemented. For your reference, since most sealing rod cover sealing performed by buffer seal. So the selection of proper buffer seal is very important than rod seal.
		SEAL INFORMATION
		PART NUMBER (Prefix)-d*D*h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	40*55.5*6	Prefix	70*85.5*6	Prefix	100*115.5*6	Prefix	130*145.5*6
Prefix	45*60.5*6	Prefix	75*90.5*6	Prefix	105*120.5*6	Prefix	135*150.5*6
Prefix	50*65.5*6	Prefix	80*95.5*6	Prefix	110*125.5*6	Prefix	140*155.5*6
Prefix	55*70.5*6	Prefix	85*100.5*6	Prefix	115*130.5*6	Prefix	150*165.5*6
Prefix	60*75.5*6	Prefix	90*105.5*6	Prefix	120*135.5*6	Prefix	155*170.5*6
Prefix	65*80.5*6	Prefix	95*110.5*6	Prefix	125*140.5*6	Prefix	160*175.5*6

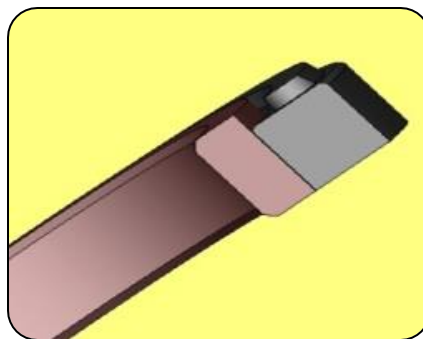
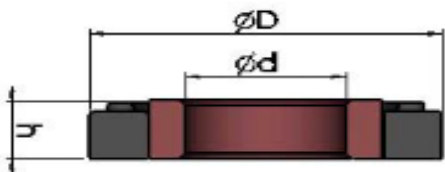
1. Hydraulic seal

BUFFER SEAL – STYLE : HBW/HBHW(HBY)

PART NUMBER	
Prefix	165*180.5*6
Prefix	170*185.5*6
Prefix	190*205.5*6

1. Hydraulic seal

BUFFER SEAL – STYLE : HBYW(HBTY)



Material & working condition	Main function	Feature
Bronze filled Teflon Rubber energizer Working Temperature : -30~100℃ Working Pressure : 0~35 Mpa Speed : 0.005~1.5 m/s.	Buffering of impact pressure applied to rod packing	Teflon is used for sliding material . This packing has low friction resistance eliminating stick slip and assuring high wear resistance.

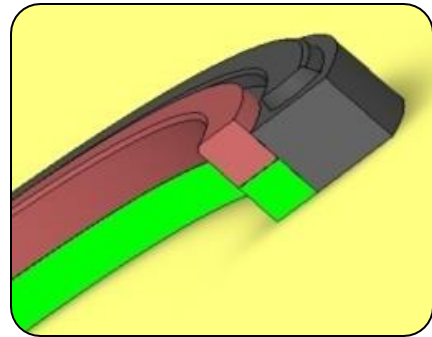
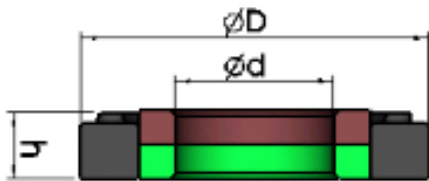
SEAL INFORMATION

PART NUMBER	(Prefix)-d*D*H(Groove height)
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PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
HBYW	40*55.5*6.3	HBYW	70*85.5*6.3	HBYW	100*115.5*6.3	HBYW	130*145.5*6.3
HBYW	45*60.5*6.3	HBYW	75*90.5*6.3	HBYW	105*120.5*6.3	HBYW	135*150.5*6.3
HBYW	50*65.5*6.3	HBYW	80*95.5*6.3	HBYW	110*125.5*6.3	HBYW	140*155.5*6.3
HBYW	55*70.5*6.3	HBYW	85*100.5*6.3	HBYW	115*130.5*6.3	HBYW	145*160.5*6.3
HBYW	60*75.5*6.3	HBYW	90*105.5*6.3	HBYW	120*135.5*6.3	HBYW	150*165.5*6.3
HBYW	65*80.5*6.3	HBYW	95*110.5*6.3	HBYW	125*140.5*6.3	HBYW	155*170.5*6.3
						HBYW	165*180.5*6.3

1. Hydraulic seal

BUFFER SEAL – STYLE : HBZW(HBTZ)



Material & working condition	Main function	Feature
Bronze filled Teflon Rubber energizer Nylon back up ring Working Temperature : -30~100℃ Working Pressure : 0~35 Mpa Speed : 0.005~1.5 m/s.	Buffering of impact pressure applied to rod packing	Teflon is used for sliding material . This packing has low friction resistance eliminating stick slip and assuring high wear resistance. The polyamide back up ring improve extrusion resistance.

SEAL INFORMATION

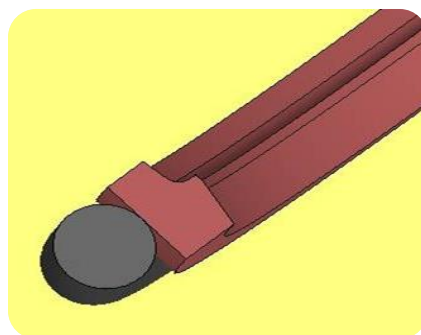
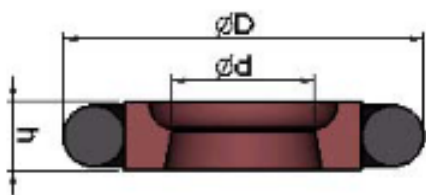
PART NUMBER

(Prefix)-d*D*H(Groove height)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
HBZW	40*55.5*6.3	HBZW	70*85.5*6.3	HBZW	100*115.5*6.3	HBZW	130*145.5*6.3
HBZW	45*60.5*6.3	HBZW	75*90.5*6.3	HBZW	105*120.5*6.3	HBZW	135*150.5*6.3
HBZW	50*65.5*6.3	HBZW	80*95.5*6.3	HBZW	110*125.5*6.3	HBZW	140*155.5*6.3
HBZW	55*70.5*6.3	HBZW	85*100.5*6.3	HBZW	115*130.5*6.3	HBZW	145*160.5*6.3
HBZW	60*75.5*6.3	HBZW	90*105.5*6.3	HBZW	120*135.5*6.3	HBZW	150*165.5*6.3
HBZW	65*80.5*6.3	HBZW	95*110.5*6.3	HBZW	125*140.5*6.3	HBZW	155*170.5*6.3
						HBZW	165*180.5*6.3

1. Hydraulic seal

BUFFER SEAL – STYLE : SSW(SK/E-RING)



Material & working condition	Main function	Feature
Bronze filled Teflon Rubber energizer Working Temperature : -30~100℃ Working Pressure : 0~35 Mpa Speed : 0.005~1.5 m/s.	Buffering of impact pressure applied to rod packing	Teflon is used for sliding material . This packing has low friction resistance eliminating stick slip and assuring high wear resistance. Compared to HBYW/HBZW the product is excellent in the sealing performance.

SEAL INFORMATION

PART NUMBER	(Prefix)-d*D*H(Groove height)
-------------	-------------------------------

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
SSW	35*45.7*4.2	SSW	55*65.7*4.2	SSW	55*70.5*6.3	SSW	75*90.5*6.3
SSW	36*46.7*4.2	SSW	60*70.7*4.2	SSW	60*75.5*6.3	SSW	80*95.5*6.3
SSW	38*48.7*4.2	SSW	90*100.7*4.2	SSW	63*78.5*6.3	SSW	85*100.5*6.3
SSW	40*50.7*4.2	SSW	40*55.5*6.3	SSW	65*80.5*6.3	SSW	90*105.5*6.3
SSW	45*55.7*4.2	SSW	45*60.5*6.3	SSW	68*83.5*6.3	SSW	95*110.5*6.3
SSW	50*60.7*4.2	SSW	50*65.5*6.3	SSW	70*85.5*6.3	SSW	98*113.5*6.3

1. Hydraulic seal

BUFFER SEAL – STYLE : SSW(SK/E-RING)

PART NUMBER	
SSW	100*115.5*6.3
SSW	105*120.5*6.3
SSW	110*125.5*6.3
SSW	115*130.5*6.3
SSW	120*135.5*6.3
SSW	125*140.5*6.3

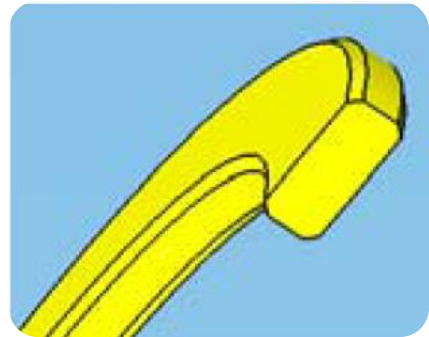
PART NUMBER	
SSW	130*145.5*6.3
SSW	135*150.5*6.3
SSW	136*151.5*6.3
SSW	137*152.5*6.3
SSW	138*153.5*6.3
SSW	140*155.5*6.3

PART NUMBER	
SSW	145*160.5*6.3
SSW	147*162.56.3
SSW	147.6*163.1*6.3
SSW	150*165.5*6.3
SSW	152*167.5*6.3
SSW	155*170.5*6.3

PART NUMBER	
SSW	157*172.5*6.3
SSW	160*175.5*6.3
SSW	165*180.5*6.3
SSW	170*185.5*6.3
SSW	177*192.5*6.3

1. Hydraulic seal

BUFFER SEAL – STYLE : HBI



Material & working condition	Main function	Feature
Polyurethane Working Temperature : - 35~110℃ Working Pressure : 0~35 Mpa Speed : 0.03~1.0 m/s.	Buffering of impact pressure applied to rod packing	Molded in polyurethane this buffer is a simple flat, washer-like profile

SEAL INFORMATION	
PART NUMBER	(Prefix)-d*D*H(Groove height)

PART NUMBER	
HBI	37.12*52.14*2.92
HBI	44.07*58.49*2.92
HBI	50.8*63.35*2.92
HBI	50.42*64.84*2.92

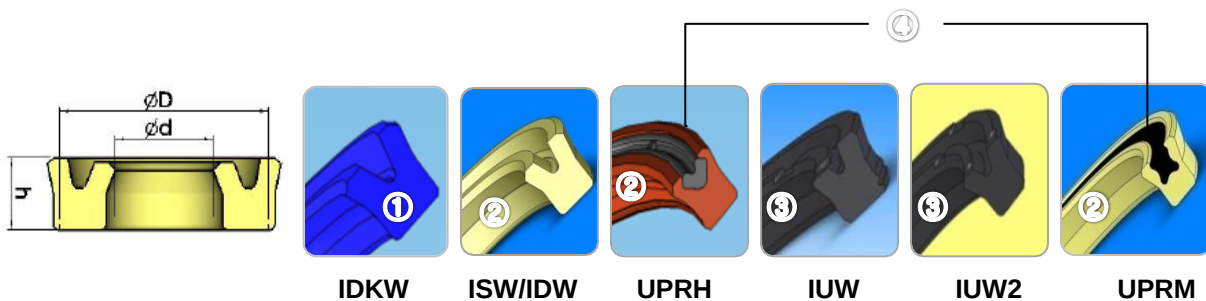
PART NUMBER	
HBI	53.19*68.07*2.92
HBI	57.15*72.6*4.78
HBI	56.77*74.05*4.78
HBI	59.94*77.22*4.78

PART NUMBER	
HBI	63.5*79.375*4.78
HBI	63.5*80.6*4.75
HBI	69.47*86.75*4.78
HBI	75.82*93.48*4.78

PART NUMBER	
HBI	69.47*96.75*4.78
HBI	82.17*99.45*4.78
HBI	88.9*106.48*4.78

1. Hydraulic seal

ROD SEAL – STYLE : IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)



Material & working condition	Main function	Feature
① PU: Heat resistance application (-35~130℃) ② PU: General temperature used (-30~100℃) ③ Nitrile rubber (-25~100℃) ④ Nitrile rubber for energizer. * Speed : ①/② : 0.03~1.0 m/s ③ : 0.008~1.0 m/s	Prevention of external oil leakage	IDKW : it's excellent use for high heat working condition. IDW/ISW : It has excellent wear resistance and sealing ability and can be apply very wide range. IUW : Improvement is made to prevent damages by back pressure. IUW2 : more improved to prevent the damage through outer sealing lip also. Also has low temperature resistance. UPRH/UPRM : Is good for use for old machine for more wide sealing lip size and rubber energizer.

SEAL INFORMATION

PART NUMBER

(Prefix)-d*D*h

PART NUMBER

Prefix							SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	UPRM	
	O						14*22*5.9
	O						14*24*5
	O						15*25*5

1. Hydraulic seal

ROD SEAL – STYLE

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER						
Prefix						SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	
		O				16*24*5
	O					18*28*8
	O					19*26*5
	O					19*27*6
		O				20*28*5
	O					20*30*6
		O				22*30*5
O		O			O	25*33*5
		O				25*35*5
	O					25*35*6
	O					25*35*8
	O					25*38*10
	O					25*40*10
O		O				28*35.5*5
	O					28*38*6
	O					28*43*10
	O					30*37*6
O		O			O	30*40*6
O	O					30*40*7
O	O					30*40*8
	O					30*45*9
		O				31.5*41.5*6
	O					31.8*44.45*9.5

1. Hydraulic seal

ROD SEAL – STYLE

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER						
Prefix						SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	
	O					32*42*6
	O					34*50*12
O		O			O	35*45*6
O	O				O	35*45*7
	O					35*45*8
	O					35*45*10
O	O				O	35*50*9
O	O				O	35*50*10
	O					35*50*12
	O					35*51*10
	O					36*46*7.3
	O					36*51*9.5
O	O					38*48*6
	O					40*48*5
	O					40*48*8
O		O			O	40*50*6
O	O		O		O	40*50*7
O	O				O	40*50*8
	O					40*52*9
	O					40*55*6
	O					40*55*7
O	O					40*55*9

1. Hydraulic seal

ROD SEAL – STYLE :

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER						
Prefix						SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	
O	O				O	40*55*10
	O					40*56*12
	O					40*60*12
	O					40*62*12
	O					44.45*54.03*6.35
	O					45*53*8
O		O			O	45*55*6
O					O	45*55*7
			O			45*55*7.3
O	O					45*55*8
O					O	45*55*10
O	O				O	45*60*9
			O	O		45*60*9.5
	O					45*60*10
O					O	45*60*12
O	O					45*65*12
	O					50*58*8
O		O	O		O	50*60*6
	O					50*60*6.2
	O					50*60*7.3
	O					50*60*8
	O					50*63*8

1. Hydraulic seal

ROD SEAL – STYLE :

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER							
Prefix							SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	UPRM	
O	O		O	O	O		50*63*10
O	O				O		50*65*9
O	O				O		50*65*10
O	O				O		50*70*12
	O						50.8*63.5*9.53
					O		50.8*63.5*9.7
	O						50.8*66.68*9
	O						53*63*10
O		O			O		55*65*6
	O						55*65*12
O	O		O	O	O		55*68*10
O	O			O	O		55*70*9
O	O				O	O	55*70*10
O	O				O	O	55*70*12
	O						55*71*12
O	O				O		55*75*12
		O					56*66*6
	O						56*71*9
	O						57.1*69.9*9.7
					O		57.15*69.85*9.7
O		O	O		O		60*70*6
O					O		60*70*7

1. Hydraulic seal

ROD SEAL – STYLE :

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER							
Prefix							SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	UPRM	
O	O				O		60*70*8
O							60*70*10
	O						60*70*12
	O						60*72*8
O	O		O	O	O		60*73*10
O	O			O	O		60*75*9
O	O				O	O	60*75*10
O					O	O	60*75*12
	O						60*76*10
O	O				O		60*80*12
	O						60*82*8
	O						60.325*73.025*9.525
	O						63*78*10
	O						63*83*12
					O		63.5*76.2*9.7
	O						63.5*76.25*9.7
O		O	O		O		65*75*6
O	O				O		65*75*8
O	O		O	O	O		65*78*10
	O						65*78*12
O	O			O	O		65*80*9
O	O				O	O	65*80*10

1. Hydraulic seal

ROD SEAL – STYLE :

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER							
Prefix							SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	UPRM	
○	○				○	○	65*80*12
○	○				○		65*85*12
	○						69.85*82.55*9.525
○		○			○		70*80*6
○	○				○		70*80*8
	○						70*83*9
○	○		○	○	○		70*83*10
○	○			○	○		70*85*9
○	○				○	○	70*85*10
○					○	○	70*85*12
○					○		70*90*10
○	○				○		70*90*12
		○					71*81*6
○		○			○		75*85*6
○	○				○		75*85*8
○					○		75*85*10
○	○		○	○	○		75*88*10
○	○			○	○		75*90*9
○	○				○	○	75*90*10
○					○	○	75*90*12
○	○				○		75*95*12
	○						76.2*88.9*9.53

1. Hydraulic seal

ROD SEAL – STYLE :

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER							
Prefix							SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	UPRM	
					O		76.2*88.9*9.7
O		O			O		80*90*6
O	O				O		80*90*8
	O						80*92*8
O	O		O	O	O		80*93*10
O	O			O	O	O	80*95*9
O	O		O	O	O	O	80*95*10
O	O				O	O	80*95*12
O							80*100*9
					O		80*100*10
O	O				O		80*100*12
	O						82.55*95.25*9.525
O							85*95*9
	O						85*98*10
	O						85*100*8
O		O		O	O	O	85*100*9
O	O		O	O	O	O	85*100*10
O					O	O	85*100*12
	O						85*100*15
O	O			O	O		85*105*12
	O						88.9*101.6*9.53
O	O				O		90*100*6

1. Hydraulic seal

ROD SEAL – STYLE :

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER							
Prefix							SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	UPRM	
O		O	O	O	O	O	90*105*9
O	O		O	O	O	O	90*105*10
O	O				O	O	90*105*12
O	O			O	O		90*110*12
O	O						90*110*15
O							95*105*9
O					O		95*105*10
O		O		O	O	O	95*110*9
O	O		O	O	O	O	95*110*10
O	O				O		95*110*12
	O						95*110.5*9
O	O			O	O	O	95*115*12
	O						95.25*107.95*9.525
		O					98*112*8
	O						98*115*12
	O						100*110*6
	O						100*112*8.5
O		O		O	O		100*115*9
O	O		O	O	O		100*115*10
O					O		100*115*12
			O	O	O		100*120*10
O	O			O	O	O	100*120*12

1. Hydraulic seal

ROD SEAL – STYLE :

IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER						
Prefix						SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	
○						100*120*15
	○					100*125*9
	○					101.6*117.5*9.5
○		○	○	○	○	105*120*9
○	○		○	○	○	105*120*10
○	○			○	○	105*125*12
○	○			○	○	105*125*15
○						110*120*12
○		○	○	○	○	110*125*9
○	○		○	○	○	110*125*10
○	○		○	○	○	110*130*10
○	○				○	110*130*12
○					○	110*130*13
○	○			○	○	110*130*15
○	○				○	110*130*16
		○				112*125*9
			○			115*130*8.5
○	○		○	○	○	115*130*9
			○			115*130*9.5
○	○			○	○	115*130*10
○	○			○	○	115*135*12
	○					115*135*15

1. Hydraulic seal

ROD SEAL – STYLE : IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER						
Prefix						SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	
○	○			○	○	115*135*16
○		○			○	118*133*9
○		○	○		○	120*135*9
○	○					120*135*10
○	○		○	○	○	120*140*10
○	○				○	120*140*12
○				○	○	120*140*15
	○					120*140*16
○		○				125*140*9
○	○				○	125*145*12
	○					125*145*16
○		○			○	130*145*9
○						130*145*10
○	○		○	○	○	130*150*12
○				○	○	130*150*16
	○					135*145*10
		○				135*150*9
	○					135*155*15
		○				136*150*8.5
	○					140*150*6
	○					140*150*7
		○				140*155*9

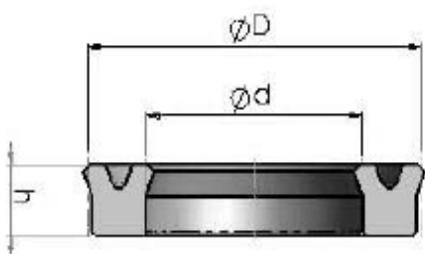
1. Hydraulic seal

ROD SEAL – STYLE : IDKW/ISW(ISI)/IDW(IDI)/UPRH/IUW(IUH)/IUW2(IUH new type)

PART NUMBER						
Prefix						SIZE
IDKW	IDW	ISW	IUW	IUW2	UPRH	
O						140*160*10
O	O				O	140*160*12
	O					140*160*15
	O					140*160*16
		O				145*160*9
		O				150*165*9
	O					150*170*12
	O					150*170*16
	O					155*165*6.3
		O				155*170*9
		O				160*175*9
O	O				O	160*180*12
	O					160*180*16
	O					160*185*16
		O				170*185*9
	O					170*190*12
	O					170*195*15
	O					170*195*16
		O				175*190*9
		O				180*200*12
	O					180*205*16
	O					190*215*16
	O					210*235*19

1. Hydraulic seal

ROD&PISTON SEAL – STYLE : UPNW(UPH/USH)



Material & working condition	Main function	Feature
Nitrile rubber Working temperature : -25~100℃ Speed : 0.008~1.0 m/s Working pressure : 0~15Mpa(w/o B.U.R), 0~32(w/ B.U.R)	Prevention of external oil leakage or Retention of oil pressure	This can be used for piston and rod seal. Nitrile rubber and fluoro rubber are available for material to assure wide range of operating temperature. Wide variation of size is available.

SEAL INFORMATION

PART NUMBER	(Prefix)-d*D*h
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PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
UPNW	10*14*2.2	UPNW	15*19*2.8	UPNW	19*25*3.5	UPNW	25*31*3.5
UPNW	10*14*3	UPNW	15*23*5.5	UPNW	19*27*6	UPNW	25*33*5
UPNW	10*17*5	UPNW	16*20*2.5	UPNW	22*32*6	UPNW	25*35*6
UPNW	10*18*6	UPNW	18*25*3	UPNW	22.4*30.4*5	UPNW	25*35*8
UPNW	11.2*21.2*7.5	UPNW	18*26*5	UPNW	22.4*32.4*6	UPNW	25*38*8
UPNW	14*16*3	UPNW	18*26*5.5	UPNW	24.9*31.3*4.2	UPNW	27*32*4

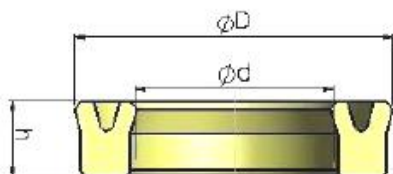
1. Hydraulic seal

ROD&PISTON SEAL – STYLE : UPNW(UPH/USH)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
UPNW	28.01*34.3*4.75	UPNW	49*65*8.5	UPNW	75*90*10	UPNW	120*140*12
UPNW	30*40*6	UPNW	50*60*6	UPNW	80*90*6	UPNW	120*140*15
UPNW	30*40*7.8	UPNW	50*60*9	UPNW	80*100*12	UPNW	125*140*9
UPNW	31.21*37.6*4.25	UPNW	50*65*9	UPNW	85*100*9	UPNW	125*150*13
UPNW	35*45*6	UPNW	50*65*10	UPNW	85*100*12	UPNW	130*140*6
UPNW	35*46*7	UPNW	53*63*6	UPNW	90*100*6	UPNW	130*145*9
UPNW	35*50*9	UPNW	54*70*12	UPNW	90*105*9	UPNW	130*150*15
UPNW	35*50*10	UPNW	55*70*10	UPNW	90*105*12	UPNW	135*150*9
UPNW	38*55*10	UPNW	55*75*12	UPNW	95*110*9	UPNW	140*155*9
UPNW	38*55*11	UPNW	60*70*5	UPNW	100*110*6	UPNW	145*160*9
UPNW	40*50*6	UPNW	60*70*6	UPNW	100*115*9	UPNW	150*165*9
UPNW	40*55*10	UPNW	60*80*12	UPNW	100*120*11	UPNW	155*170*9
UPNW	40*65*10	UPNW	63*73*6	UPNW	100*120*12	UPNW	155*180*15
UPNW	44*60*12	UPNW	64*80*12	UPNW	105*120*9	UPNW	165*180*9
UPNW	45*55*6	UPNW	65*75*6	UPNW	110*120*6	UPNW	170*180*6
UPNW	45*55*7	UPNW	65*80*12	UPNW	110*130*15	UPNW	175*190*9
UPNW	45*55*8	UPNW	65*85*12	UPNW	112*125*9	UPNW	180*200*12
UPNW	45*60*9	UPNW	70*80*6	UPNW	120*130*6		
UPNW	45*60*11	UPNW	75*85*6	UPNW	120*140*9		

1. Hydraulic seal

ROD&PISTON SEAL – STYLE : UPW(UPI)



Material & working condition	Main function	Feature
Polyurethane Working temperature : -35~100℃ Speed : 0.03~1.0 m/s Working pressure : 0~35Mpa	Prevention of external oil leakage or Retention of oil pressure	The Polyurethane material has excellent wear resistance and sealing ability. This packing can be used for wide range of operation.

SEAL INFORMATION

PART NUMBER	(Prefix)-d*D*h
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PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
UPW	30*40*6	UPW	38.08*57.15*12.7	UPW	44.45*61.917*9.52	UPW	55*75*12
UPW	31.8*44.5*9.5	UPW	38.1*47.625*6.35	UPW	45*55*6	UPW	57.15*69.85*9.52
UPW	32*45*8	UPW	40*50*9	UPW	45*70*15.5	UPW	60*70*6
UPW	35*45*6	UPW	40*50*10	UPW	47*80*16	UPW	60*70*10
UPW	36*51*9.5	UPW	40*60*11	UPW	47.57*73.13*15.7	UPW	60*74*8
UPW	38*52*10	UPW	44.45*53.97*6.35	UPW	50*60*6	UPW	60*80*12

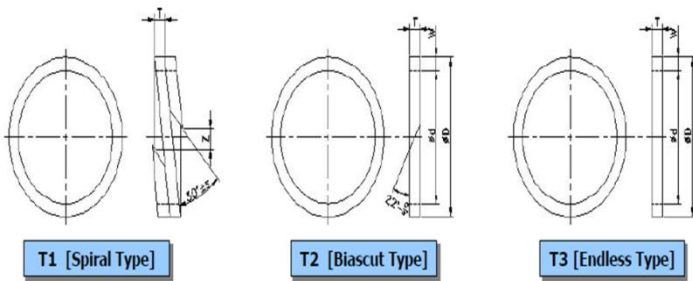
1. Hydraulic seal

ROD&PISTON SEAL – STYLE : UPW(UPI)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
UPW	61*71*6	UPW	80*94*8	UPW	110*130*12	UPW	150*170*15
UPW	65*85*12	UPW	80*100*12	UPW	110*130*15	UPW	170*195*15
UPW	70*80*8	UPW	80*100*15	UPW	120*140*12	UPW	180*205*15
UPW	70*90*12	UPW	85*105*12	UPW	120*140*15	UPW	185*210*15
UPW	70*92*12	UPW	90*110*12	UPW	130*150*15	UPW	210*230*12
UPW	75*90*10	UPW	95*115*12	UPW	132*152*15	UPW	210*235*18
UPW	75*95*12	UPW	100*120*12	UPW	139.7*152.11*14.3	UPW	220*245*19
UPW	76.2*101.6*16.66	UPW	106*120*8.5	UPW	140*160*15	UPW	230*255*18

1. Hydraulic seal

O-RING BACK UP RING – STYLE : T1/2/3 G



Material & working condition	Main function	Feature
Teflon Working temperature : -55~220 °C Speed : - m/s Working pressure : - Mpa	Prevent o - ring extrusion	This is used to prevent extrusion o - ring and to improve the pressure resistance of the o - rings. Standard cutting type is Endless type. But once need bias cut type can be supply by Bias cut type. Spiral type also available.

SEAL INFORMATION	
PART NUMBER	(Prefix)-d(d*D*h)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
G	25(25*30*1.25)	G	50(50*55*1.25)	G	60(60*65*1.25)	G	76(76*81*1.25)
G	30(30*35*1.25)	G	52(52*57*1.25)	G	62(62*67*1.25)	G	80(80*85*1.25)
G	34(34*39*1.25)	G	53(53*58*1.25)	G	65(65*70*1.25)	G	81(81*86*1.25)
G	35(35*40*1.25)	G	55(55*60*1.25)	G	67(67*72*1.25)	G	85(85*90*1.25)
G	40(40*45*1.25)	G	57(57*62*1.25)	G	70(70*75*1.25)	G	90(90*95*1.25)
G	45(45*50*1.25)	G	58(58*63*1.25)	G	75(75*80*1.25)	G	95(95*100*1.25)

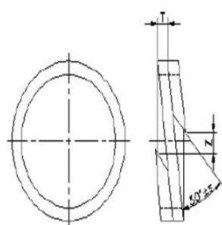
1. Hydraulic seal

O-RING BACK UP RING – STYLE : T1/2/3 G

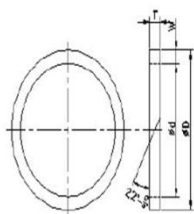
PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
G	95(95*100*1.25)	G	128(128*133*1.25)	G	165(165*175*1.9)	G	215(215*225*1.9)
G	100(100*105*1.25)	G	130(130*135*1.25)	G	170(170*180*1.9)	G	220(220*230*1.9)
G	105(105*110*1.25)	G	135(135*140*1.25)	G	175(175*185*1.9)	G	225(225*235*1.9)
G	106(106*111*1.25)	G	136(136*141*1.25)	G	180(180*190*1.9)	G	230(230*240*1.9)
G	108(108*113*1.25)	G	140(140*145*1.25)	G	185(185*195*1.9)	G	235(235*245*1.9)
G	110(110*115*1.25)	G	145(145*150*1.25)	G	190(190*200*1.9)	G	240(240*250*1.9)
G	115(115*120*1.25)	G	146(146*151*1.25)	G	192(192*202*1.9)	G	245(245*255*1.9)
G	116(116*121*1.25)	G	150(150*160*1.9)	G	195(195*205*1.9)	G	250(250*260*1.9)
G	120(120*125*1.25)	G	152(152*162*1.9)	G	200(200*210*1.9)		
G	125(125*130*1.25)	G	155(155*165*1.9)	G	205(205*215*1.9)		
G	126(126*131*1.25)	G	160(160*170*1.9)	G	210(210*220*1.9)		

1. Hydraulic seal

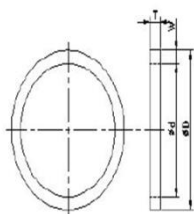
O-RING BACK UP RING – STYLE : T1/2/3 P



T1 [Spiral Type]



T2 [Biascut Type]



T3 [Endless Type]



Material & working condition	Main function	Feature
Teflon Working temperature : -55~220℃ Speed : - m/s Working pressure : - Mpa	Prevent o - ring extrusion	This is used to prevent extrusion o - ring and to improve the pressure resistance of the o - rings. Standard cutting type is Endless type. But once need bias cut type can be supply by Bias cut type. Spiral type also available.

SEAL INFORMATION

PART NUMBER	(Prefix)-d(d*D*h)
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PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
P 41(41*47*1.25)	P 49(49*55*1.25)	P 55(55*65*1.9)	P 67(67*77*1.9)
P 42(42*48*1.25)	P 50(50*56*1.25)	P 58(58*68*1.9)	P 70(70*80*1.9)
P 44(44*50*1.25)	P 48A(48A*58*1.9)	P 60(60*70*1.9)	P 71(71*81*1.9)
P 45(45*51*1.25)	P 50A(50A*60*1.9)	P 62(62*72*1.9)	P 75(75*85*1.9)
P 46(46*52*1.25)	P 52(52*62*1.9)	P 63(63*73*1.9)	P 80(80*90*1.9)
P 48(48*54*1.25)	P 53(53*63*1.9)	P 65(65*75*1.9)	P 85(85*95*1.9)

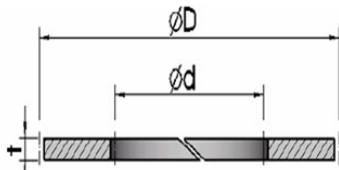
1. Hydraulic seal

O-RING BACK UP RING – STYLE : T1/2/3 P

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
P	90(90*100*1.9)	P	132(132*142*1.9)	P	190(190*205*2.75)	P	250(250*265*2.75)
P	91(91*96*1.9)	P	135(135*145*1.9)	P	195(195*210*2.75)	P	255(255*270*2.75)
P	95(95*105*1.9)	P	140(140*150*1.9)	P	200(200*215*2.75)	P	260(260*275*2.75)
P	100(100*110*1.9)	P	145(145*155*1.9)	P	205(205*220*2.75)	P	265(265*280*2.75)
P	102(102*112*1.9)	P	150(150*160*1.9)	P	209(209*224*2.75)	P	270(270*285*2.75)
P	105(105*115*1.9)	P	150A(150A*165*2.75)	P	210(210*225*2.75)	P	275(275*290*2.75)
P	110(110*120*1.9)	P	155(155*170*2.75)	P	215(215*230*2.75)	P	280(280*295*2.75)
P	112(112*122*1.9)	P	160(160*175*2.75)	P	220(220*235*2.75)	P	285(285*300*2.75)
P	115(115*125*1.9)	P	165(165*180*2.75)	P	225(225*240*2.75)	P	290(290*305*2.75)
P	120(120*130*1.9)	P	170(170*185*2.75)	P	230(230*245*2.75)	P	295(295*310*2.75)
P	125(125*135*1.9)	P	175(175*190*2.75)	P	235(235*250*2.75)	P	300(300*315*2.75)
P	126(126*136*1.9)	P	180(180*195*2.75)	P	240(240*255*2.75)		
P	130(130*140*1.9)	P	185(185*200*2.75)	P	245(245*260*2.75)		

1. Hydraulic seal

PACKING BACK UP RING – STYLE : BRDW(BRN)



Material & working condition	Main function	Feature
Special nylon material Working temperature : -55~120℃ Speed : - m/s Working pressure : - Mpa	Prevent packing extrusion	Material : Polyamide + Special Material Shock proof material inside. Low friction Material inside. ; It can be replaced also instead PTFE B/U ring to prevent the oil pollution and cost down.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t

PART NUMBER	
BRDW	40*50*3
BRDW	50*60*3
BRDW	50*63*3
BRDW	50*65*3
BRDW	55*65*3
BRDW	55*68*3

PART NUMBER	
BRDW	55*70*3
BRDW	55*71*3
BRDW	60*70*3
BRDW	60*73*3
BRDW	60*75*3
BRDW	60*76*3

PART NUMBER	
BRDW	60*80*3
BRDW	65*75*3
BRDW	65*78*3
BRDW	65*80*3
BRDW	65*85*3
BRDW	70*80*3

PART NUMBER	
BRDW	70*85*3
BRDW	70*85*4
BRDW	70*90*3
BRDW	70*93*3
BRDW	75*85*3
BRDW	75*88*3

1. Hydraulic seal

PACKING BACK UP RING – STYLE : BRDW(BRN)

PART NUMBER	
BRDW	75*90*3
BRDW	75*90*4
BRDW	75*95*3
BRDW	80*90*3
BRDW	80*93*3
BRDW	80*95*3
BRDW	80*95*4
BRDW	80*100*3
BRDW	85*100*1.9

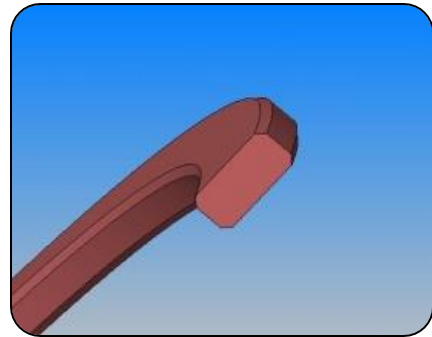
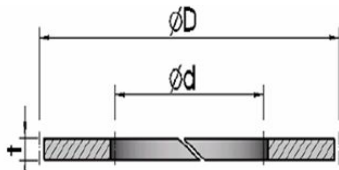
PART NUMBER	
BRDW	85*100*3
BRDW	85*100*4
BRDW	85*105*3
BRDW	90*105*3
BRDW	90*105*4
BRDW	90*110*3
BRDW	95*110*3
BRDW	95*110*4
BRDW	95*115*3

PART NUMBER	
BRDW	100*115*3
BRDW	100*115*4
BRDW	100*120*3
BRDW	105*120*3
BRDW	105*125*3
BRDW	110*125*3
BRDW	110*130*3
BRDW	115*130*3
BRDW	115*135*3

PART NUMBER	
BRDW	120*135*3
BRDW	120*140*3
BRDW	120*140*4
BRDW	125*145*3
BRDW	130*150*3
BRDW	140*160*3
BRDW	145*165*4
BRDW	150*170*3
BRDW	150*170*4
BRDW	160*160*3
BRDW	160*180*4

1. Hydraulic seal

PACKING BACK UP RING – STYLE : BRBW/BRWW/BRGW (BRT)



Material & working condition	Main function	Feature
Teflon (B:Bronze,W:white,G:glass) filled. Working temperature : -55~120℃ Speed : - m/s Working pressure : - Mpa	Prevent packing extrusion	This is used to prevent extrusion packing and to improve the pressure resistance of the packing. Standard cutting type is Endless type. But once need bias cut type can be supply by Bias cut type.

SEAL INFORMATION

PART NUMBER	(Prefix)- d*D*t
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PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	16*24*2	Prefix	20*30*2	Prefix	22.4*33*2	Prefix	25*35*3
Prefix	16*26*2	Prefix	20*33*2	Prefix	23.5*31.5*2	Prefix	25*38*2
Prefix	18*26*2	Prefix	22*30*2	Prefix	24*32*2	Prefix	25.5*35.5*2
Prefix	18*31*2	Prefix	22*33*2	Prefix	25*33*2	Prefix	27*40*3
Prefix	20*25*2	Prefix	22*35*2	Prefix	25*33*3	Prefix	28*35*3
Prefix	20*28*2	Prefix	22.4*30*2	Prefix	25*35*2	Prefix	28*36*3

1. Hydraulic seal

PACKING BACK UP RING – STYLE : BRBW/BRWW/BRGW (BRT)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	28*40*3	Prefix	45*60*3	Prefix	64*80*3	Prefix	90*105*3
Prefix	28*41*3	Prefix	47*61*3	Prefix	65*75*3	Prefix	90*110*3
Prefix	30*40*2	Prefix	47*63*3	Prefix	65*78*3	Prefix	95*105*3
Prefix	30*40*3	Prefix	48*63*3	Prefix	65*80*3	Prefix	95*105*3.5
Prefix	30*45*3	Prefix	50*60*3	Prefix	65*85*3	Prefix	95*110*3
Prefix	31.5*41.5*3	Prefix	50*63*3	Prefix	67*77*3	Prefix	95*110*3.5
Prefix	31.5*44.5*3	Prefix	50*65*3	Prefix	70*80*3	Prefix	95*115*3
Prefix	32*38*2	Prefix	50*70*3	Prefix	70*83*3	Prefix	100*115*3
Prefix	32*38*3	Prefix	53*63*3	Prefix	70*85*3	Prefix	100*115*4
Prefix	32*42*3	Prefix	54*60*3	Prefix	70*90*3	Prefix	100*120*3
Prefix	32*48*3	Prefix	54*70*3	Prefix	71*80*3	Prefix	100*125*3
Prefix	34*50*3	Prefix	55*65*3	Prefix	71*81*3	Prefix	105*120*3
Prefix	35*45*2	Prefix	55*68*3	Prefix	75*85*3	Prefix	105*125*3
Prefix	35*45*3	Prefix	55*70*3	Prefix	75*88*3	Prefix	106*120*3
Prefix	35*50*3	Prefix	55*71*3	Prefix	75*90*3	Prefix	106*123*3
Prefix	35.5*45*3	Prefix	55*75*3	Prefix	75*95*3	Prefix	106*126*3
Prefix	35.5*51.5*3	Prefix	60*70*3	Prefix	80*90*3	Prefix	110*125*3
Prefix	36*46*3	Prefix	60*71*3	Prefix	80*93*3	Prefix	110*125*4
Prefix	40*50*2	Prefix	60*73*3	Prefix	80*95*3	Prefix	110*130*3
Prefix	40*50*3	Prefix	60*75*3	Prefix	80*100*3	Prefix	112*125*3
Prefix	40*55*3	Prefix	60*76*3	Prefix	85*95*3	Prefix	115*130*3
Prefix	40*56*3	Prefix	60*80*3	Prefix	85*100*2	Prefix	115*135*3
Prefix	45*55*3	Prefix	61*71*3	Prefix	85*100*3	Prefix	120*135*3
Prefix	45*56*3	Prefix	63*73*3	Prefix	85*105*3	Prefix	120*140*3

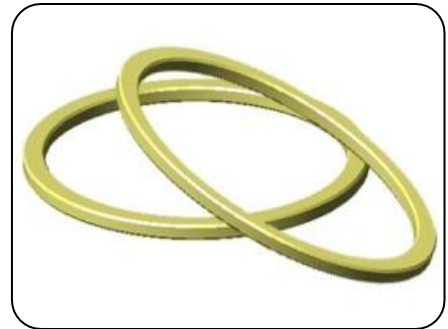
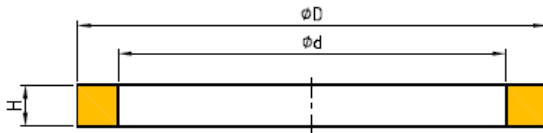
1. Hydraulic seal

PACKING BACK UP RING – STYLE : BRBW/BRWW/BRGW (BRT)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	125*140*3	Prefix	150*170*3	Prefix	190*200*4	Prefix	250*270*4
Prefix	125*150*3	Prefix	155*170*4	Prefix	190*210*3	Prefix	250*275*4
Prefix	130*145*3	Prefix	155*180*4	Prefix	190*210*4	Prefix	255*280*4
Prefix	130*150*3	Prefix	160*175*4	Prefix	200*220*4	Prefix	260*285*4
Prefix	135*150*3	Prefix	160*180*4	Prefix	200*225*4	Prefix	265*290*4
Prefix	135*160*3	Prefix	160*185*4	Prefix	204*224*4	Prefix	265*297*4
Prefix	136*150*3	Prefix	165*180*4	Prefix	205*220*4	Prefix	270*295*4
Prefix	140*155*3	Prefix	170*180*4	Prefix	205*225*4	Prefix	270*300*4
Prefix	140*160*3	Prefix	170*190*4	Prefix	210*230*4	Prefix	275*300*4
Prefix	140*165*3	Prefix	170*200*4	Prefix	220*240*4	Prefix	280*305*4
Prefix	145*160*3	Prefix	175*190*4	Prefix	225*245*4	Prefix	280*312*4
Prefix	145*165*3	Prefix	175*200*4	Prefix	225*250*4	Prefix	290*315*4
Prefix	145*170*3	Prefix	180*200*4	Prefix	230*250*4	Prefix	300*325*4
Prefix	150*165*3	Prefix	180*205*4	Prefix	240*260*4	Prefix	300*332*4

1. Hydraulic seal

SLIPPER SEAL BACK UP RING – STYLE : N4W



Material & working condition	Main function	Feature
Nylon glass filled Working temperature : -55~120℃ Speed : - m/s Working pressure : - Mpa	Prevent packing extrusion	It's special back ring for combination with slipper seal.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*H

PART NAME	
N4W	75*70*2.5
N4W	80*75*2.5
N4W	85*80*2.5

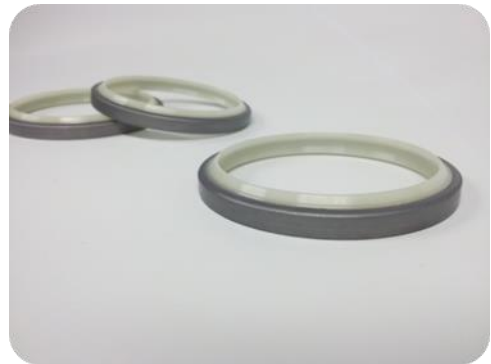
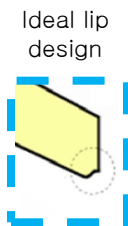
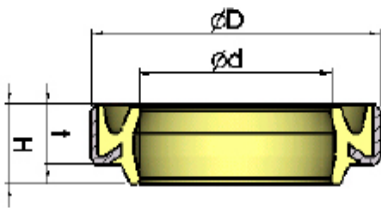
PART NAME	
N4W	90*85*2.5
N4W	95*90*2.5
N4W	110*104*3

PART NAME	
N4W	115*109*3
N4W	120*114*3
N4W	125*119*3

PART NAME	
N4W	130*120*3
N4W	135*129*3
N4W	140*134*3
N4W	150*144*3
N4W	170*164*3

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DKBW(DKBI)



Material & working condition	Main function	Feature
① TPU : - Pressure: - Mpa - Temperature range: -55~100 ② SPCC	Prevent of intrusion of foreign objects	To cope with the harsh external contaminant conditions, high strength TPU is used to resist plastic deformation. Since the SPCC phosphate process, the bonding with TPU is very strong. Since the ideal design of the dust sealing lip, it can be done ideal dust wiping for good dust resistance and good oil film making.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DKBW	19*31*6/9	DKBW	32*52*8/11	DKBW	45*57*7/10	DKBW	70*84*8/11
DKBW	20*31*6/9	DKBW	35*45*7/10	DKBW	50*62*7/10	DKBW	75*87*7/10
DKBW	20*32*6/9	DKBW	35*47*7/10	DKBW	55*69*8/11	DKBW	75*89*8/11
DKBW	22*34*6/9	DKBW	40*50*7/10	DKBW	60*74*8/11	DKBW	80*94*8/11
DKBW	25*37*6/9	DKBW	40*52*7/10	DKBW	65*79*8/11	DKBW	85*99*8/11
DKBW	30*42*6/9	DKBW	44.5*53.82*5/7	DKBW	70*82*7/10	DKBW	90*104*8/11

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DKBW(DKBI)

PART NUMBER	
DKBW	95*109*8/11
DKBW	100*114*8/11
DKBW	105*121*9/12
DKBW	110*126*9/12
DKBW	115*131*9/12
DKBW	120*136*9/12

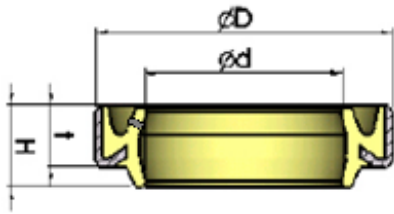
PART NUMBER	
DKBW	125*141*9/12
DKBW	130*146*9/12
DKBW	135*155*10/14
DKBW	140*160*10/14
DKBW	145*165*10/14
DKBW	150*170*10/14

PART NUMBER	
DKBW	155*175*10/14
DKBW	160*180*10/14
DKBW	165*185*10/14
DKBW	170*190*10/14
DKBW	175*195*10/14
DKBW	180*200*10/14

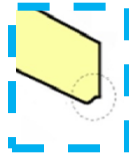
PART NUMBER	
DKBW	180*205*12/17
DKBW	190*205*9/12
DKBW	200*216*10/14

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DKBIN(KAYABA TYPE DKBI)



Ideal lip design



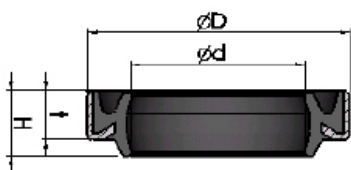
Material & working condition	Main function	Feature
① TPU : - Pressure: - Mpa - Temperature range: -55~100 ② SPCC	Prevent of intrusion of foreign objects	To cope with the harsh external contaminant conditions, high strength TPU is used to resist plastic deformation. The more longer dust lip than DKBW improve dust resistance. Small one point hole in oil lip allows build to escape and prevents loss or damage to the dust seal.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DKBIN	45*57*7/11	DKBIN	70*84*8/13	DKBIN	95*109*8/13	DKBIN	120*136*9/14
DKBIN	50*62*7/11	DKBIN	75*89*8/13	DKBIN	100*114*9/14	DKBIN	130*146*9/14
DKBIN	55*69*8/13	DKBIN	80*94*8/13	DKBIN	105*121*9/14		
DKBIN	60*74*8/13	DKBIN	85*99*8/13	DKBIN	110*126*9/14		
DKBIN	65*79*8/13	DKBIN	90*104*8/13	DKBIN	115*131*9/14		

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DKNW(DKB)



Material & working condition	Main function	Feature
①Nitrile rubber : - Pressure: - Mpa - Temperature range: -20~100 ②SPCC	Prevent of intrusion of foreign objects	Employing nitrile rubber as material . This is a double lip dust seal to prevent oil scraping off.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DKNW	13*19*4/5.4	DKNW	20*32*6/9	DKNW	40*52*7/10	DKNW	70*84*8/11
DKNW	14*25*5/7	DKNW	22*34*6/9	DKNW	45*57*7/10	DKNW	75*89*8/11
DKNW	14.5*22*4/5.5	DKNW	30*42*6/9	DKNW	50*62*7/10	DKNW	80*94*8/11
DKNW	18*26*6.6/12.4	DKNW	32*52*8/11	DKNW	55*69*8/11	DKNW	85*99*8/11
DKNW	18*30*6/9	DKNW	35*47*7/10	DKNW	60*74*8/11	DKNW	90*104*8/11
DKNW	20*26*6/9	DKNW	35*48*6/9	DKNW	65*79*8/11	DKNW	95*105*8/11

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DKNW(DKB)

PART NUMBER	
DKNW	95*109*8/11
DKNW	100*114*8/11
DKNW	105*121*9/12

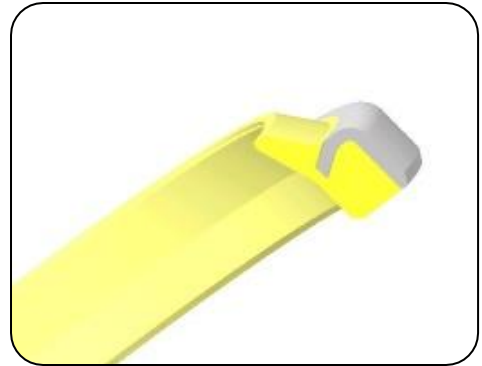
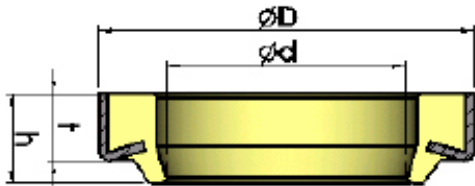
PART NUMBER	
DKNW	110*126*9/12
DKNW	115*131*9/12
DKNW	120*136*9/12

PART NUMBER	
DKNW	130*146*9/12
DKNW	140*160*10/14
DKNW	145*165*10/14

PART NUMBER	
DKNW	160*180*10/14
DKNW	170*190*10/14

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DKW(DKI)



Material & working condition	Main function	Feature
① TPU : - Pressure: - Mpa - Temperature range: -55~100 ② SPCC	Prevent of intrusion of foreign objects	This is a standard type of dust seal of Polyurethane with high dust proof performance.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DKW	25*37*6/9	DKW	35*47*7/10	DKW	55*69*8/11	DKW	85*99*8/11
DKW	28*40*6/9	DKW	38*50*7/10	DKW	60*74*8/11	DKW	90*104*8/11
DKW	30*42*6/9	DKW	40*52*7/10	DKW	65*79*8/11	DKW	95*109*8/11
DKW	30*45*7/10	DKW	45*57*7/10	DKW	70*84*8/11	DKW	100*114*8/11
DKW	32*44*7/10	DKW	50*60*7/10	DKW	75*89*8/11	DKW	105*121*9/12
DKW	32*52*8/11	DKW	50*62*7/10	DKW	80*94*8/11	DKW	110*126*9/12

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DKW(DKI)

PART NUMBER	
DKW	115*131*9/12
DKW	120*136*9/12

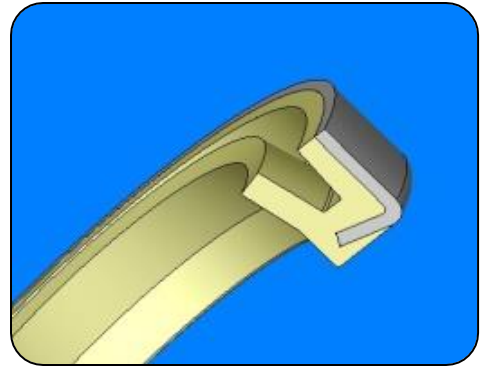
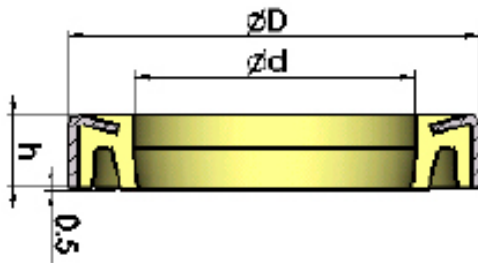
PART NUMBER	
DKW	130*146*9/12
DKW	140*160*10/14

PART NUMBER	
DKW	150*170*10/14
DKW	160*180*10/14

PART NUMBER	
DKW	180*205*12/17
DKW	190*215*12/17

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DWW(DWI;MM)



Material & working condition	Main function	Feature
①TPU : - Pressure: - Mpa - Temperature range: -55~100 ②SPCC	Prevent of intrusion of foreign objects	Employing polyurethane as material, this seal serves under severe dust conditions such as construction equipment.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DWW	25*37*6	DWW	50*60*7	DWW	70*84*8	DWW	100*114*8
DWW	35*45*7	DWW	50*62*7	DWW	75*89*8	DWW	105*121*9
DWW	35*47*7	DWW	50*65*7	DWW	80*94*8	DWW	110*126*9
DWW	36*46*7	DWW	55*69*8	DWW	85*99*8	DWW	115*131*9
DWW	40*52*7	DWW	60*74*8	DWW	90*104*8	DWW	120*136*9
DWW	45*57*7	DWW	65*79*8	DWW	95*109*8	DWW	125*141*9

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DWW(DWI;MM)

PART NUMBER	
DWW	130*146*9
DWW	140*160*10
DWW	150*170*10

DUST SEAL(Steel cover) – STYLE : DWIN(DKIY;INCH)

PART NO.	WYS PART NAME
7K-9201	DWIN 38.1*50.8*6.35
4J-8979	DWIN 38.1*57.15*9.52
7K-9202	DWIN 44.45*57.15*6.35
7K-9203	DWIN 50.8*63.5*6.35

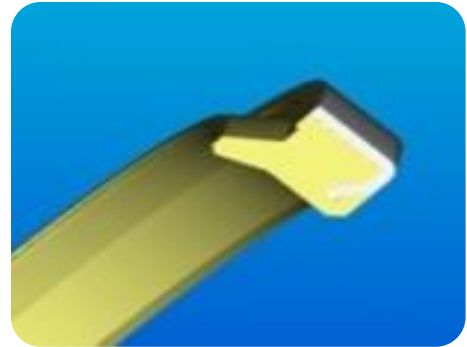
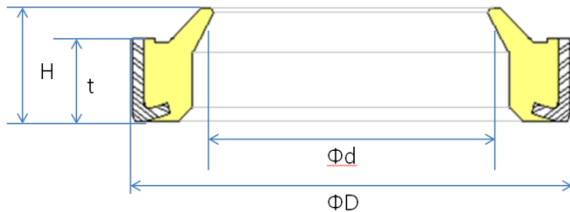
PART NO.	WYS PART NAME
1K-6981	DWIN 50.8*68.33*9.5
7K-9204	DWIN 57.15*69.85*6.35
4J-3515	DWIN 57.15*76.2*9.525
6J-3892	DWIN 60.32*79.48*9.5

PART NO.	WYS PART NAME
7K-9205	DWIN 63.5*76.2*7.94
1K-6982, 7K-9027, 8C-3840	DWIN 63.5*82.55*9.525
7K-9208	DWIN 69.85*82.55*7.92
1J-3540	DWIN 69.85*95.25*12.7

PART NO.	WYS PART NAME
2J-1411	DWIN 76.2*101.8*12.7
7K-9209	DWIN 76.2*88.9*7.925
6J-4169	DWIN 82.55*108.08*12.7
7K-9210	DWIN 82.55*95.25*7.92
5P-5343, 7K-9212	DWIN 88.9*104.78*7.92
4J-8981	DWIN 88.9*114.45*12.7

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DWIW(DWIR)



Material & working condition	Main function	Feature
① TPU : - Pressure: - Mpa - Temperature range: -55~100 ② SPCC	Prevent of intrusion of foreign objects	Employing polyurethane material as material, this is same performance as DWW, excellent in preventing of oil scraping off and follow ability to the eccentricity.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DWIW	20*30*5/7	DWIW	50*60*5/7	DWIW	35*45*7/10	DWIW	50*60*7/10
DWIW	25*35*5/7	DWIW	20*30*7/10	DWIW	35*47*7/10	DWIW	50*62*7/10
DWIW	30*40*5/7	DWIW	22*32*7/10	DWIW	40*50*7/10	DWIW	55*65*7/10
DWIW	35*45*5/7	DWIW	25*35*7/10	DWIW	40*52*7/10	DWIW	60*70*7/10
DWIW	40*50*5/7	DWIW	28*38*7/10	DWIW	45*55*7/10	DWIW	65*75*7/10
DWIW	45*55*5/7	DWIW	30*40*7/10	DWIW	45*57*7/10	DWIW	70*80*7/10

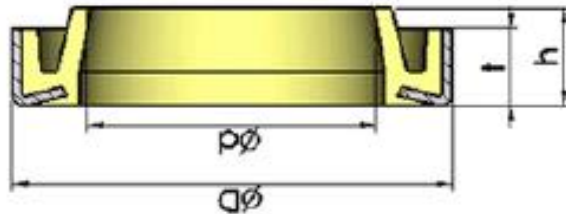
1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : DWIW(DWIR)

PART NUMBER	
DWIW	75*85*7/10
DWIW	80*90*7/10
DWIW	85*95*7/10

PART NUMBER	
DWIW	90*100*7/10
DWIW	90*105*7/10
DWIW	95*105*7/10

PART NUMBER	
DWIW	100*110*7/10
DWIW	110*120*7/10
DWIW	120*130*7/10



SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/h

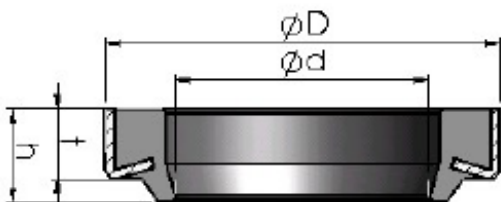
PART NUMBER	
DWIW	55*69*8/13
DWIW	60*74*8/13
DWIW	65*79*8/13
DWIW	70*84*8/13
DWIW	75*89*8/13

PART NUMBER	
DWIW	80*94*8/13
DWIW	85*99*8/13
DWIW	90*104*8/13
DWIW	95*109*8/13
DWIW	100*114*9/14

PART NUMBER	
DWIW	105*121*9/14
DWIW	110*126*9/14
DWIW	115*131*9/14
DWIW	120*136*9/14
DWIW	130*146*9/14
DWIW	140*160*10/15

1. Hydraulic seal

DUST SEAL(Steel cover) – STYLE : SA



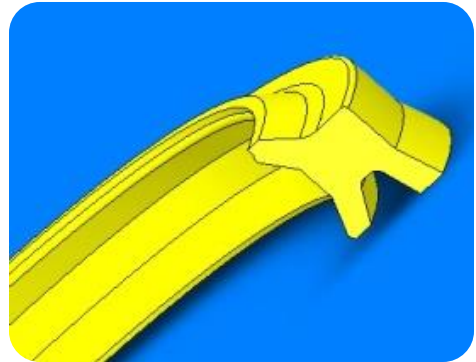
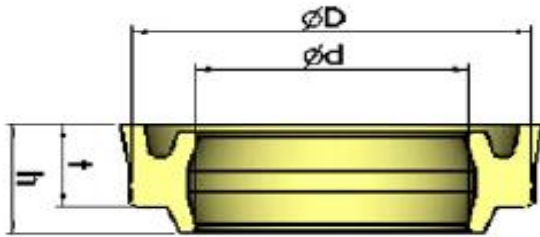
Material & working condition	Main function	Feature
①Nitrile rubber : - Pressure: - Mpa - Temperature range: -20~100 ②SPCC	Prevent of intrusion of foreign objects	Employing nitrile rubber as material . This is a single lip dust seal.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
SA	25*35*7/10	SA	55*63*7/10	SA	80*90*7/10	SA	105*115*7/10
SA	30*40*7/10	SA	55*65*7/10	SA	80*88*7/10	SA	110*120*7/10
SA	35*45*7/10	SA	60*70*7/10	SA	85*95*7/10	SA	110*122*7/10
SA	40*50*7/10	SA	65*75*7/10	SA	90*100*7/10	SA	115*125*7/10
SA	45*55*7/10	SA	70*80*7/10	SA	95*105*7/10	SA	120*130*7/10
SA	50*60*7/10	SA	75*85*7/10	SA	100*110*7/10	SA	170*185*9/12

1. Hydraulic seal

DUST SEAL – STYLE : LBW(LBI)



Material & working condition	Main function	Feature
①TPU : - Pressure: - Mpa - Temperature range: -55~100	Prevent of intrusion of foreign objects	This product uses the polyurethane as material, and is a double lip rubber only dust seal aiming at preventing scrape out of oil.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
LBW	16*24*4.5/6	LBW	22.4*30.4*4.5/6	LBW	32*40*5/6.5	LBW	40*50*5/6.5
LBW	18*26*4.5/6	LBW	25*33*4.5/6	LBW	35*43*5/6.5	LBW	45*53*5/6.5
LBW	20*25*4.5/6	LBW	26*34*4.5/6	LBW	35.5*43.5*5/6.5	LBW	45*55*5/6.5
LBW	20*28*4.5/6	LBW	28*36*4.5/6	LBW	36*44*5/6.5	LBW	50*58*5/6.5
LBW	20*28*5/6.5	LBW	30*38*5/6.5	LBW	38*46*5/6.5	LBW	50*60*5/6.5
LBW	22*30*4.5/6	LBW	31.5*39.5*5/6.5	LBW	40*48*5/6.5	LBW	53*61*5/6.5

1. Hydraulic seal

DUST SEAL – STYLE : LBW(LBI)

PART NUMBER	
LBW	55*63*5/6.5
LBW	56*64*5/6.5
LBW	60*68*5/6.5
LBW	63*71*5/6.5
LBW	65*73*5/6.5
LBW	67*75*5/6.5

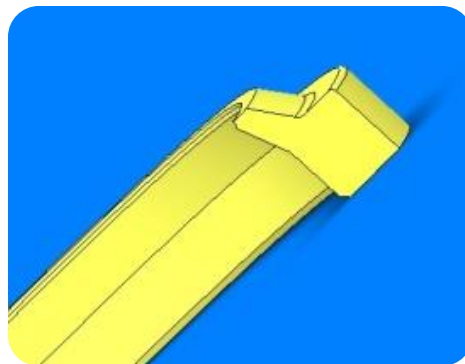
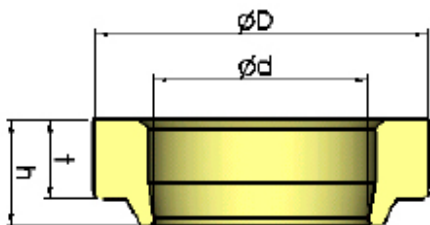
PART NUMBER	
LBW	70*80*6/8
LBW	71*81*6/8
LBW	75*85*6/8
LBW	80*90*6/8
LBW	85*95*6/8
LBW	90*100*6/8

PART NUMBER	
LBW	95*105*6/8
LBW	100*110*6/8
LBW	105*115*6/8
LBW	110*120*6/8
LBW	112*122*6/8
LBW	115*125*6/8

PART NUMBER	
LBW	118*128*6/8
LBW	118*130*6/8
LBW	120*130*6/8
LBW	125*138*7/9.5
LBW	130*143*7/9.5

1. Hydraulic seal

DUST SEAL – STYLE : DSW(DSI)



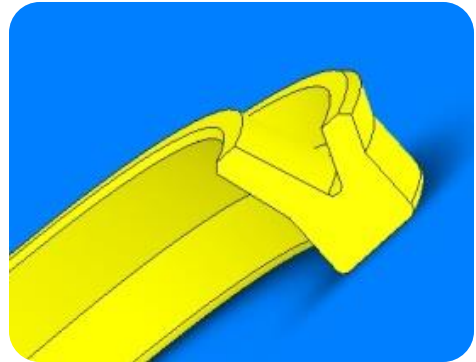
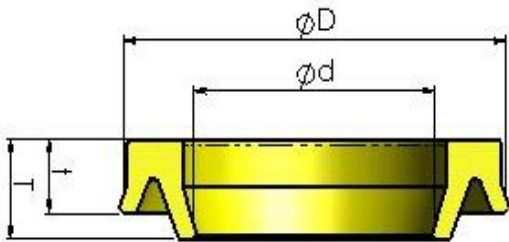
Material & working condition	Main function	Feature
①TPU : - Pressure: - Mpa - Temperature range: -55~100	Prevent of intrusion of foreign objects	Employing polyurethane as material . This is single lip all rubber dust seal.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DSW	25*33*4.5/6	DSW	50*58*5/6.5	DSW	70*80*6/8	DSW	100*110*6/8
DSW	30*38*5/6.5	DSW	50*60*6/8	DSW	75*85*6/8	DSW	105*115*6/8
DSW	35*43*5/6.5	DSW	55*63*5/6.5	DSW	80*90*6/8	DSW	106*116*6/8
DSW	40*48*5/6.5	DSW	55*65*6/8.5	DSW	85*95*6/8	DSW	110*120*6/8
DSW	40*50*6/8	DSW	63.5*76.2*6.35/9.525	DSW	90*100*6/8	DSW	112*122*6/8
DSW	45*53*5/6.5	DSW	65*73*5/6.5	DSW	95*105*6/8	DSW	118*128*6/8
						DSW	120*130*6/8

1. Hydraulic seal

DUST SEAL – STYLE : LPIY



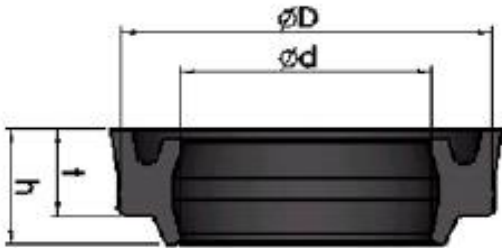
Material & working condition	Main function	Feature
①TPU : - Pressure: - Mpa - Temperature range: -55~100	Prevent of intrusion of foreign objects	Employing polyurethane as material . This is single lip all rubber dust seal. excellent in preventing of oil scraping off and follow ability to the eccentricity

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
LPIY	45*55*6/8	LPIY	75*88*7/9.5	LPIY	95*108*7/9.5	LPIY	130*143*7/9.5
LPIY	60*73*7/9.5	LPIY	80*93*7/9.5	LPIY	100*113*7/9.5	LPIY	140*153*7.9.5
LPIY	65*78*7/9.5	LPIY	85*98*7/9.5	LPIY	110*123*7/9.5	LPIY	145*158*7/9.5
LPIY	70*83*7/9.5	LPIY	90*103*7/9.5	LPIY	125*138*7/9.5		

1. Hydraulic seal

DUST SEAL – STYLE : LBNW(LBH)



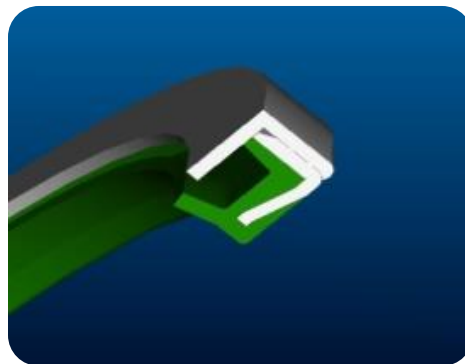
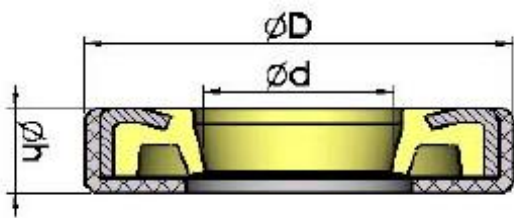
Material & working condition	Main function	Feature
①Nitrile rubber : - Pressure: - Mpa - Temperature range: -25~100	Prevent of intrusion of foreign objects	This is a double lip all rubber dust seal to prevent oil scraping off. Nitrile rubber and fluoro rubber are available as material for wide rage of operation temperature.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
LBNW	12.5*20.5*4.5/6	LBNW	30*38*5/6.5	LBNW	55*63*5/6.5	LBNW	90*100*6/8
LBNW	12.7*20*5/6.5	LBNW	31.5*39.5*5/6.5	LBNW	60*68*5/6.5	LBNW	95*105*6/8
LBNW	13*20*5/6.5	LBNW	35*43*5/6.5	LBNW	65*73*5/6.5	LBNW	100*110*6/8
LBNW	20*28*4.5/6	LBNW	40*48*5/6.5	LBNW	70*80*6/8	LBNW	105*115*6/8
LBNW	22*30*4.5/6	LBNW	45*53*5/6.5	LBNW	80*90*6/8	LBNW	132*145*7/9.5
LBNW	25*33*4.5/6	LBNW	50*58*5/6.5	LBNW	85*95*6/8		

1. Hydraulic seal

PIN DUST SEAL – STYLE : VAW(PPY,DKIY,VAY)



Material & working condition	Main function	Feature
①TPU : - Pressure: - Mpa - Temperature range: -35~100 ②SPCC	This is a dust seal for oscillating and rotating movement for hinge pin and bush.	This can be used under severe dust conditions to improve the durability of the equipment . Relief effect makes easy to drain used grease when filling up new grease. The metallic protection plate reduce the lip wear and prevent the seal lip from harsh impact like stone from out side.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
VAW	25*35*4	VAW	45*55*6	VAW	55*65*4	VAW	60*75*5
VAW	30*40*4	VAW	50*60*4	VAW	55*68*4	VAW	60*75*6
VAW	35*45*4	VAW	50*60*5	VAW	55*70*4	VAW	60*75*8
VAW	40*50*4	VAW	50*60*6	VAW	55*70*6	VAW	65*75*4
VAW	40*50*6	VAW	50*65*6	VAW	55*75*6	VAW	65*79*6
VAW	45*55*4	VAW	50*65*7.5	VAW	60*75*4	VAW	65*80*4

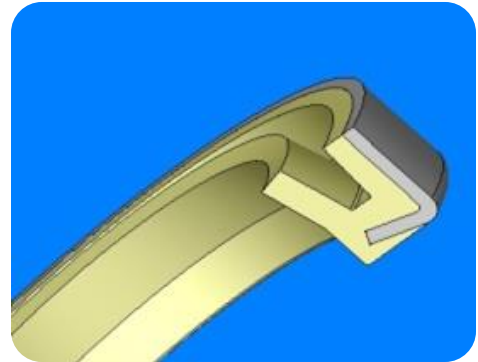
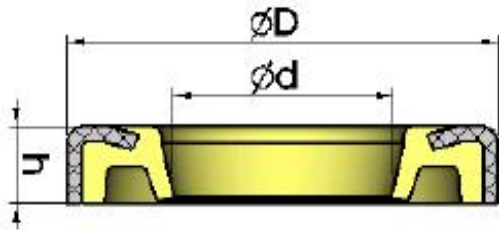
1. Hydraulic seal

PIN DUST SEAL – STYLE : VAW(PPY,DKIY,VAY)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
VAW	65*80*5	VAW	75*90*5	VAW	90*100*4.5	VAW	100*120*8
VAW	65*80*6	VAW	75*90*8	VAW	90*105*4	VAW	100*120*10
VAW	65*80*7	VAW	75*95*7	VAW	90*105*4.3	VAW	110*125*4
VAW	65*80*8	VAW	80*90*4	VAW	90*105*6	VAW	110*125*8
VAW	65*85*5	VAW	80*90*5	VAW	90*105*7.5	VAW	110*125*9
VAW	65*85*6	VAW	80*95*4	VAW	90*105*8	VAW	110*130*4
VAW	68*94*4	VAW	80*95*5	VAW	90*105*11	VAW	110*130*8
VAW	70*80*4	VAW	80*95*6	VAW	90*105*13	VAW	110*135*8
VAW	70*80*6	VAW	80*95*7	VAW	90*110*6	VAW	115*130*8
VAW	70*85*4	VAW	80*95*8	VAW	90*110*8	VAW	120*130*8
VAW	70*85*5	VAW	80*95*10	VAW	90*110*10	VAW	120*135*4
VAW	70*85*6	VAW	80*95*11	VAW	95*110*4	VAW	120*140*4
VAW	70*85*7	VAW	80*100*6	VAW	95*110*8	VAW	120*140*8
VAW	70*85*8	VAW	85*95*5	VAW	100*115*4	VAW	125*140*4
VAW	75*89*6	VAW	85*100*4	VAW	100*115*8	VAW	140*155*4
VAW	75*90*4	VAW	85*100*8	VAW	100*115*11	VAW	140*155*8
VAW	75*90*5	VAW	90*100*4	VAW	100*120*4		

1. Hydraulic seal

PIN DUST SEAL – STYLE : DLW(DLI)



Material & working condition	Main function	Feature
①TPU : - Pressure: - Mpa - Temperature range: -35~100 ②SPCC	This is a dust seal for oscillating and rotating movement for hinge pin and bush.	This can be used under severe dust conditions to improve the durability of the equipment . Relief effect makes easy to drain used grease when filling up new grease. This is a standard type of hinge pin seal excellent in dust resistance.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DLW	25*35*4	DLW	35*45*5	DLW	45*55*4	DLW	50*60*4
DLW	30*40*3.2	DLW	40*50*3.2	DLW	45*55*4.2	DLW	50*60*4.2
DLW	30*40*4	DLW	40*50*4	DLW	45*55*5	DLW	50*60*4.5
DLW	30*40*5	DLW	40*50*5	DLW	45*55*6	DLW	50*60*5
DLW	35*45*3.2	DLW	42*52*5	DLW	45*60*5	DLW	50*63*8
DLW	35*45*4	DLW	45*55*3.2	DLW	45*62*5	DLW	50*65*5

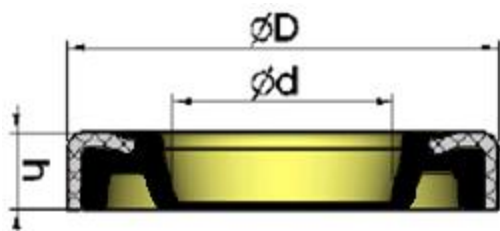
1. Hydraulic seal

PIN DUST SEAL – STYLE : DLW(DLI)

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DLW	50*65*7.5	DLW	65*80*8	DLW	85*100*8	DLW	110*125*5
DLW	55*65*3.2	DLW	70*80*5	DLW	90*105*5	DLW	110*125*8
DLW	55*65*4	DLW	70*83*8	DLW	90*105*6	DLW	110*125*9
DLW	55*65*4.2	DLW	70*85*5	DLW	90*105*8	DLW	110*125*9.5
DLW	55*65*5	DLW	70*85*8	DLW	90*108*5	DLW	110*130*8
DLW	55*68*4	DLW	70*90*5	DLW	90*110*5	DLW	110*130*9
DLW	55*68*6	DLW	71*85*6	DLW	90*110*9.5	DLW	110*130*10
DLW	55*70*5	DLW	71*86*5	DLW	90*110*10	DLW	110*160*16
DLW	55*70*6	DLW	75*87*8	DLW	90*115*8	DLW	120*135*5
DLW	55*70*7.5	DLW	75*90*5	DLW	90*130*13	DLW	120*135*8
DLW	60*70*4	DLW	75*90*6	DLW	95*110*6	DLW	120*140*8
DLW	60*70*5	DLW	75*90*8	DLW	95*110*8	DLW	120*140*10
DLW	60*73*8	DLW	80*90*4.5	DLW	100*115*6	DLW	120*147*10
DLW	60*75*4	DLW	80*93*5	DLW	100*115*7	DLW	125*140*8
DLW	60*75*5	DLW	80*93*8	DLW	100*115*7.5	DLW	125*140*8
DLW	60*75*6	DLW	80*95*5	DLW	100*118*5	DLW	125*145*10
DLW	60*75*8	DLW	80*95*6	DLW	100*120*7	DLW	140*155*8
DLW	60*85*5	DLW	80*95*8	DLW	100*120*8	DLW	140*160*10
DLW	63*75*8	DLW	80*100*5	DLW	100*120*10	DLW	145*160*8
DLW	63*77*8	DLW	80*100*6	DLW	100*125*4	DLW	190*210*10
DLW	63*80*5	DLW	80*100*10	DLW	105*120*8		
DLW	65*75*5	DLW	85*95*5	DLW	105*125*10		
DLW	65*80*5	DLW	85*100*6	DLW	110*125*4		

1. Hydraulic seal

PIN DUST SEAL – STYLE : VB



Material & working condition	Main function	Feature
①Nitrile rubber : - Pressure: - Mpa - Temperature range: -20~100 ②SPCC	This is a dust seal for oscillating and rotating movement for hinge pin and bush.	This can be used under severe dust conditions to improve the durability of the equipment . Relief effect makes easy to drain used grease when filling up new grease. This is a standard type of hinge pin seal excellent in dust resistance. And the rubber material is good for low temperature resistance. And reduce the torque.

SEAL INFORMATION

PART NUMBER	(Prefix)- d*D*t/H
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PART NUMBER	
VB	45*55*4.2
VB	55*70*5
VB	60*75*5

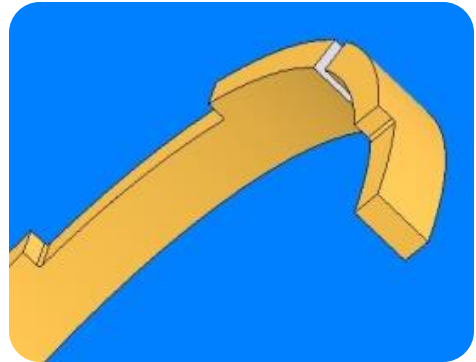
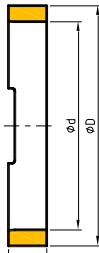
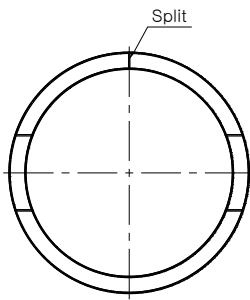
PART NUMBER	
VB	65*80*4
VB	65*80*5
VB	71*86*5

PART NUMBER	
VB	80*90*5
VB	80*95*5
VB	85*95*5

PART NUMBER	
VB	90*105*6
VB	100*115*7
VB	115*135*6
VB	125*140*7
VB	155*170*7

1. Hydraulic seal

CUSHION SEAL – STYLE : N4B



Material & working condition	Main function	Feature
Nylon glass filled Working temperature : -20~110 °C	Cushion at the end of the stroke in a hydraulic cylinder.	This is a standard type of cushion seal.

SEAL INFORMATION

PART NUMBER	(Prefix)- D*d*t
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PART NUMBER	
N4B	30*26*5
N4B	30*25*5
N4B	38*33*6
N4B	39*32.8*6
N4B	40*35*6
N4B	46*41*6

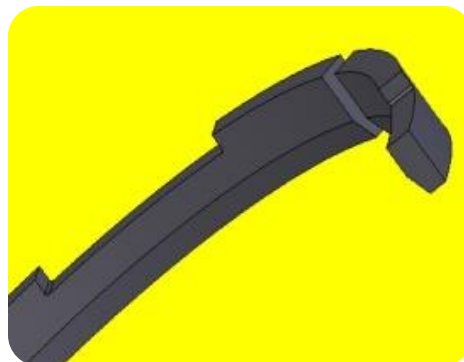
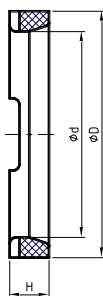
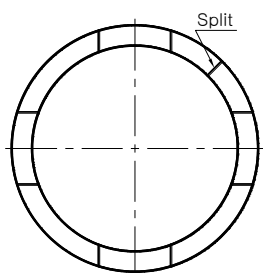
PART NUMBER	
N4B	55*50*6
N4B	60*55*6
N4B	65*60*6
N4B	67.5*62.5*6
N4B	70*65*6
N4B	75*70*6

PART NUMBER	
N4B	80*75*6
N4B	82.5*77.5*6
N4B	85*80*6
N4B	90*85*6
N4B	92.5*87.5*6
N4B	95*90*6

PART NUMBER	
N4B	100*95*6
N4B	105*100*6
N4B	110*105*6
N4B	115*110*6
N4B	120*115*6

1. Hydraulic seal

CUSHION SEAL – STYLE : N4BN(N4B NEW TYPE)



Material & working condition	Main function	Feature
Nylon glass filled Black color Working temperature : -20~110℃	Cushion at the end of the stroke in a hydraulic cylinder.	This is a standard type of cushion seal. Seal inside has damper.

SEAL INFORMATION	
PART NUMBER	(Prefix)- D*d*H

PART NUMBER	
N4BN	30*25*5
N4BN	38*32*6
N4BN	40*34*6

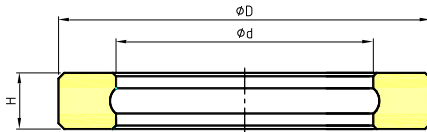
PART NUMBER	
N4BN	65*59*6
N4BN	70*64*6
N4BN	75*69*6

PART NUMBER	
N4BN	80*74*6
N4BN	90*84*6
N4BN	95*89*6

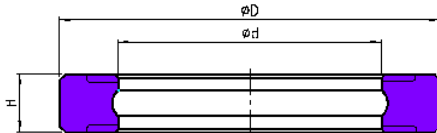
1. Hydraulic seal

CENTER JOINT SEAL – STYLE : ROI/CSI

ROI



CSI



Material & working condition	Main function	Feature
Polyurethane Working temperature : -20~100℃ Working pressure : 0~35Mpa	Retention of oil pressure	This is a special seal for center swivel with excellent wear resistance and extrusion proof ability. Since the perfect sealing cannot be expected, please provide a drain at end and use oil seal for rotating pressure with it.

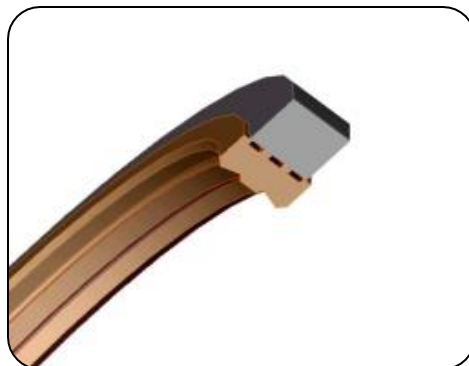
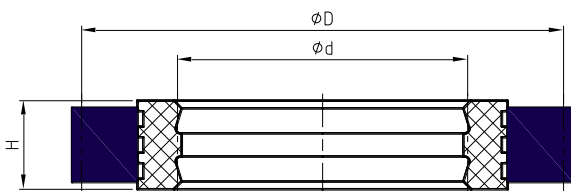
SEAL INFORMATION

PART NUMBER	(Prefix)- d*D*H
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PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Prefix	70.5*81*4.9	Prefix	90*101*4.9	Prefix	105*116*4.9	Prefix	125*136*4.9
Prefix	80*91*4.9	Prefix	95*106*4.9	Prefix	115*126*4.9	Prefix	130*141*4.9
Prefix	85*96*4.9	Prefix	100*111*4.9	Prefix	120*131*4.9	Prefix	150*161*4.9

1. Hydraulic seal

CENTER JOINT SEAL – STYLE : MSJA



Material & working condition	Main function	Feature
PTFE and energizer nitrile rubber Working temperature : -20~100℃ Working pressure : 0~35Mpa	Retention of oil pressure	The special PTFE seal designed optimize the sealing ability without friction.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER	
MSJA	50
MSJA	60

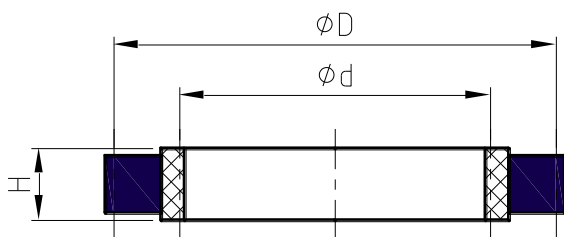
PART NUMBER	
MSJA	80
MSJA	90

PART NUMBER	
MSJA	95
MSJA	100

PART NUMBER	
MSJA	110
MSJA	120

1. Hydraulic seal

CENTER JOINT SEAL – STYLE : SPN



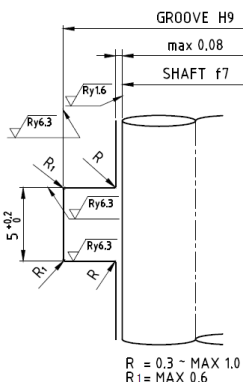
Material & working condition	Main function	Feature
PTFE and energizer nitrile rubber Working temperature : -20~100℃ Working pressure : 0~35Mpa	Retention of oil pressure	This is a standard PTFE swivel joint seal.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*H

PART NUMBER	
SPN	75*85.6*4.8
SPN	80*90.6*4.8

PART NUMBER	
SPN	90*100.6*4.8
SPN	95*105*4.8

PART NUMBER	
SPN	120*130.6*4.8
SPN	130*140.6*4.8



Material & working condition	Main function	Feature
Engineering plastic(GUR) and Energizer nitrile rubber(NBR) Working temperature : -20~100℃ Working pressure : 0~35Mpa	Retention of oil pressure	NBR: wear resistance, oil resistance, heat resistance up. GUR: Life time up(3time longer than PTFE type), low torque, Prevent broken at low temperature resistance up. Reducing oil pollution.

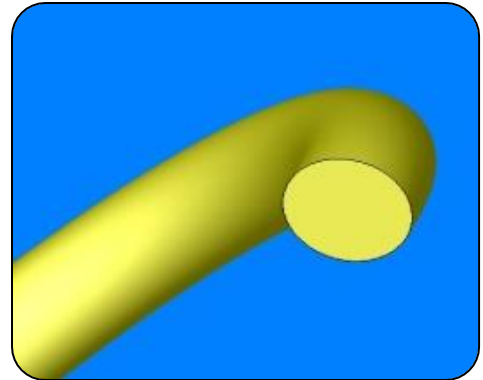
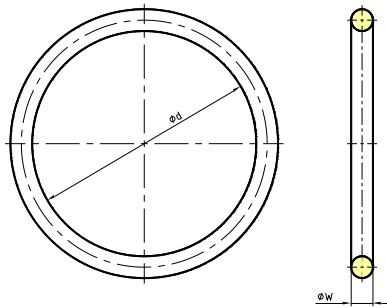
PART NUMBER

(Prefix)- d^*D^*h

PART NUMBER		Φd	ΦD	Shaft	Groove
WSJG	50*60.4*4.6	50	60.4	50	60
WSJG	60*70.4*4.6	60	70.4	60	70
WSJG	70*80.4*4.6	70	80.4	70	80
WSJG	80*90.6*4.6	80	90.6	80	90
WSJG	90*100.8*4.6	90	100.8	90	100
WSJG	95*105.8*4.6	95	105.8	95	105
WSJG	100*111.2*4.6	100	111.2	100	110
WSJG	110*121.2*4.6	110	121.2	110	120
WSJG	120*131.2*4.6	120	131.2	120	130
WSJG	125*136.2*4.6	125	136.2	125	135

1. Hydraulic seal

PU O-RING – STYLE : ORI



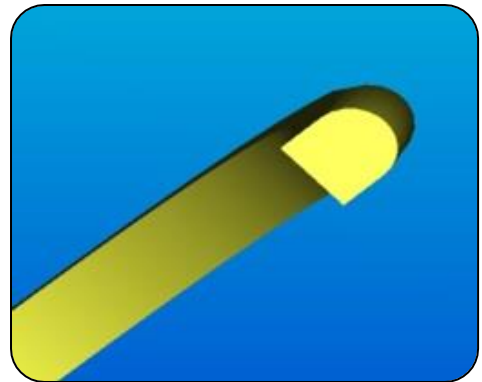
Material & working condition	Main function	Feature
Polyurethane Working Temperature : -30~100℃ Working pressure : 35Mpa	Retention of oil pressure	Use for oil pump.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
ORI P 15.6	15.6*2.4	ORI	60*5	ORI P 110	109.6*5.7	ORI P 135	134.6*5.7
ORI P 18	17.8*2.4	ORI P 70	69.6*5.7	ORI P 115	114.6*5.7	ORI G 140	139.4*3.1
ORI P 19	18.77*2.4	ORI P 80	79.6*5.7	ORI G 120	119.4*3.1	ORI P 140	139.6*5.7
ORI P 25	24.7*3.5	ORI P 85	84.6*5.7	ORI P 120	119.6*5.7	ORI P 150	149.6*5.7
ORI P 30	29.7*3.5	ORI P 90	89.6*5.7	ORI G 125	124.4*3.1	ORI ARP 260	164.9*3.53
ORI P 32	31.7*3.5	ORI P 100	99.6*5.7	ORI P 125	124.6*5.7		
ORI	53.8*3.8	ORI ARP 345	100.96*5.33	ORI P 130	129.6*5.7		

1. Hydraulic seal

PU D-RING – STYLE : DRI



Material & working condition	Main function	Feature
Polyurethane Working Temperature : -30~100℃ Working pressure : 35Mpa	Retention of oil pressure	Use for oil pump.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/H

PART NUMBER	
DRI P 70	69.6*5.7
DRI P 90	89.6*5.7
DRI P 100	99.6*5.7

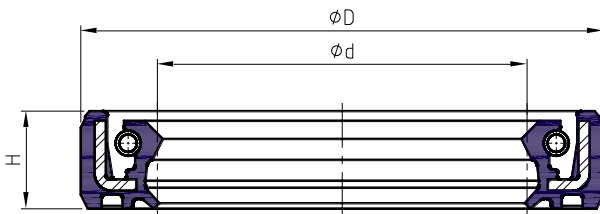
PART NUMBER	
DRI P 110	109.6*5.7
DRI P 120	119.6*5.7
DRI P 125	124.6*5.7

PART NUMBER	
DRI P 148	147.6*5.7
DRI P 150	149.6*5.7
DRI P 155	154.5*5.7

PART NUMBER	
DRI	187.6*3.4

1. Hydraulic seal

OIL SEAL – STYLE : TCV



Material & working condition	Main function	Feature
NBR/FKM+SPCC	Prevention of external oil leakage Prevent the internal of foreign object to in side.	This is used for relatively small diameter and medium pressure operation.

SEAL INFORMATION

PART NUMBER

(Prefix)- d*D*H

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
TCV	20*30*6	TCV	18*35*8	TCV	28*48*11	TCV	48*62*9
TCV	22*34*7	TCV	28*40*6	TCV	30*50*11	TCV	45*62*7
TCV	25*35*6	TCV	30*42*7	TCV	28.58*50.75*6.4	TCV	45*62*7
TCV	25*35*7	TCV	25*45*11	TCV	35*52*6	TCV	42*62*7
TCV	20*35*7	TCV	25*47*6	TCV	35*55*11	TCV	42*62*7
TCV	19*35*8	TCV	38*48*11	TCV	38*58*11	TCV	40*62*6

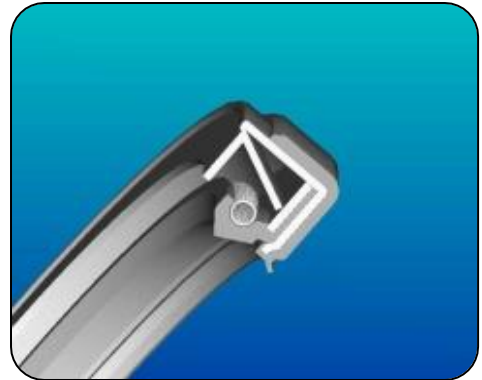
1. Hydraulic seal

OIL SEAL – STYLE : TCV

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
TCV	40*62*6	TCV	50*72*7	TCV	60*80*7	TCV	80*100*10
TCV	40*62*11	TCV	50*72*12	TCV	62*85*7	TCV	90*110*10
TCV	55*65*7	TCV	55*75*7	TCV	70*90*6.5	TCV	80*110*12
TCV	45*68*12	TCV	55*78*8	TCV	70*90*7		
TCV	52*72*7	TCV	55*78*12	TCV	90*100*10		

1. Hydraulic seal

OIL SEAL – STYLE : TCN



Material & working condition	Main function	Feature
NBR/FKM+SPCC	Prevention of external oil leakage Prevent the internal of foreign object to in side.	This is used for relatively high pressure operation.

SEAL INFORMATION

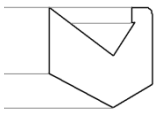
PART NUMBER

(Prefix)- d*D*H

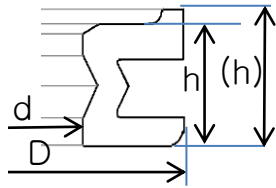
PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
TCN	17.46*30.16*8	TCN	35*55*11	TCN	50*72*12	TCN	80*105*13
TCN	25*45*12	TCN	38*58*11	TCN	52*75*12	TCN	100*125*13
TCN	25*45*11	TCN	40*62*11	TCN	55*78*12	TCN	105*135*14
TCN	28*48*11	TCN	42*65*12	TCN	60*82*12	TCN	110*140*13
TCN	30*50*11	TCN	45*68*12	TCN	65*90*13	TCN	110*140*14
TCN	32*52*11	TCN	48*70*12	TCN	70*95*13	TCN	125*155*14
						TCN	130*160*14

1. Hydraulic seal **LINK SEAL**

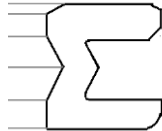
V type



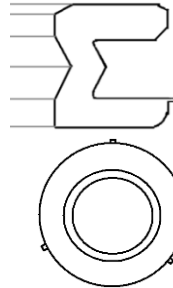
W type



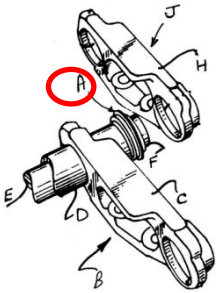
W2 type



W3 type



J type



SEAL INFORMATION

PART NUMBER

$d \cdot D \cdot h(h)$

Material
&
working
condition

TPU

Main
function

Prevent the foreign object entry to track link shaft

Feature

Link seal is used for oscillating application in order to retain lubricant oil. Prevent entry of dust. The sealing characteristics are good for excellent abrasion resistance, even under the severe condition like mud, earth and sand, etc. exist.

WYS SIZE	USING MODEL	TYPE
22.8*35*3.5	TDL135	J type
24.0*41.7*9.6	PC60	V type
24.5*41.4*9.3(10.3)	PC60-7, SY75, P154, R80C-7	W3 type
24.5*42.2*10.4	PC60-3/5	V type
28.4*46.7*10.8(12.0)	TDL154	W type
30.4*46.5*10.7(11.9)	PC100-5/6, P175	W3 type
30.4*47.0*9.4(10.4)	PC120-1	W type
32.8*48.6*10.8(12.0)	TDL175	W type
34.0*52.0*10.4	EX120, CAT312	W type
34.0*52*10.7	PC120, EX120-5, EX100	W type
34.2*54.2*11.5(13.0)	TDL171	W type
37.3*58.8*13.0(14.5)	CAT320, SY205, LDM1908, SH200, SP190, DCF TREK 225-5	W/W2/3 type
38.8*59.7*13.0(14.5)	PC200, EC210, R210-5	W type
47.8*71.4*13.6(15.1)	TDL216	W type

1. Hydraulic seal

O-RING BOX – STYLE : MM/INCH BOX

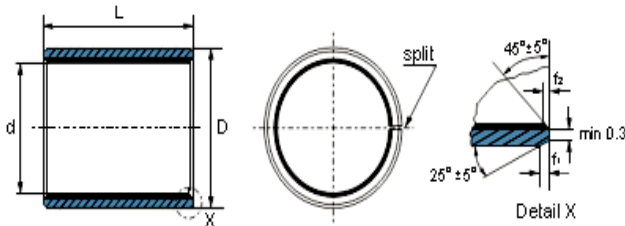


Material & working condition	Main function	Feature
Nitrile rubber	Construction equipment repairing	Metric size o-rings for Japan and Korea machines. Inch size o-rings for American machined.

SEAL INFORMATION	
PART NUMBER	MM/INCH BOX

1. Hydraulic seal

DU BUSH – STYLE : DU



Material & working condition	Main function	Feature
SPCC+Teflon compose	Bearing for cylinder rod.	It characterized dry lubrication by teflon compose.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*L

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DU	6*10	DU	14*20	DU	17*25	DU	19*15
DU	10*20	DU	14*25	DU	18*15	DU	19*25
DU	12*10	DU	16*15	DU	18*20	DU	20*10
DU	12*15	DU	16*20	DU	18*25	DU	20*20
DU	12*20	DU	16*25	DU	18*30	DU	20*25
DU	12*25	DU	17*20	DU	19*10	DU	20*30

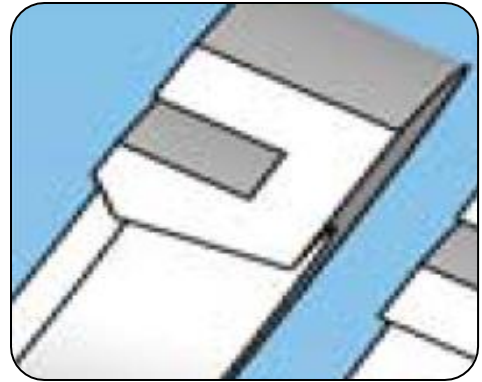
1. Hydraulic seal

DU BUSH – STYLE : DU

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
DU	70*15	DU	85*50	DU	100*45	DU	120*20
DU	70*25	DU	85*60	DU	100*50	DU	120*30
DU	70*30	DU	85*70	DU	100*60	DU	120*35
DU	70*35	DU	85*80	DU	100*70	DU	120*40
DU	70*40	DU	90*20	DU	100*90	DU	120*50
DU	70*50	DU	90*30	DU	100*95	DU	120*60
DU	70*60	DU	90*35	DU	105*30	DU	120*95
DU	75*15	DU	90*40	DU	105*35	DU	125*50
DU	75*30	DU	90*40	DU	105*40	DU	125*60
DU	75*35	DU	90*45	DU	105*45	DU	130*35
DU	75*40	DU	90*50	DU	105*50	DU	130*50
DU	75*60	DU	90*60	DU	105*60	DU	130*60
DU	80*15	DU	90*75	DU	110*30	DU	130*80
DU	80*30	DU	95*30	DU	110*35	DU	135*50
DU	80*30	DU	95*35	DU	110*40	DU	135*60
DU	80*35	DU	95*40	DU	110*45	DU	140*35
DU	80*40	DU	95*45	DU	110*50	DU	140*50
DU	80*40	DU	95*50	DU	110*55	DU	140*60
DU	80*50	DU	95*60	DU	110*60	DU	140*65
DU	80*60	DU	100*20	DU	115*35	DU	140*70
DU	80*80	DU	100*30	DU	115*40	DU	140*100
DU	85*30	DU	100*35	DU	115*45	DU	145*60
DU	85*35	DU	100*35	DU	115*50	DU	150*95
DU	85*40	DU	100*40	DU	115*60	DU	150*100
DU 160*80		DU 160*100		DU 200*70		DU 240*70	
DU 160*95		DU 170*50		DU 205*70			
DU 160*96		DU 180*120		DU 210*70			

1. Hydraulic seal

PTFE SEAL RING – STYLE : IUT



Material & working condition	Main function	Feature
PTFE Glass filled	Sealing at engine	It employing PTFE glass filled as material. It characterized low friction. Inner sealing

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*H

PART NUMBER	
IUT	80*86*2.8
IUT	85*92*2.8
IUT	92*85*2.8
IUT	104*96*2.8

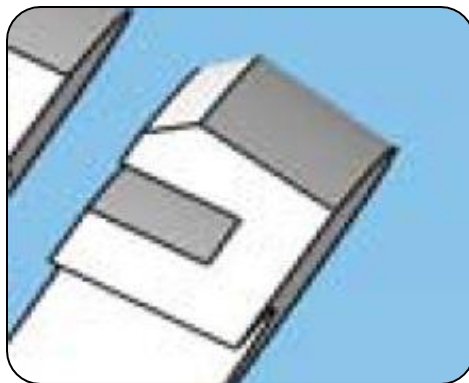
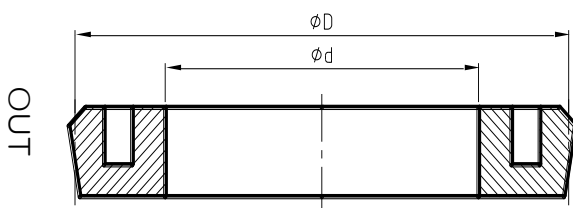
PART NUMBER	
IUT	116*110*2.8
IUT	141*135*2.8
IUT	155*161*2.8
IUT	175*181*2.8

PART NUMBER	
IUT	186*180*2.8
IUT	200*194*2.8
IUT	201*195*2.8
IUT	215*221*2.8

PART NUMBER	
IUT	221*215*2.8
IUT	235*241*2.8

1. Hydraulic seal

PTFE SEAL RING – STYLE : OUT



Material & working condition	Main function	Feature
PTFE Glass filled	Sealing at engine	It employing PTFE glass filled as material. It characterized low friction. outer sealing

SEAL INFORMATION

PART NUMBER	(Prefix)- d*D*t/H
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PART NUMBER	
OUT	113*107*2.8
OUT	130*123.6*2.8
OUT	135*129*2.8
OUT	140*134*2.8
OUT	145*139*2.8
OUT	160*153*2.8

PART NUMBER	
OUT	160*154*2.8
OUT	164*158*2.8
OUT	170*164*2.8
OUT	175*169*2.8
OUT	180*174*2.8
OUT	184.5*178*2.8

PART NUMBER	
OUT	186*180*2.8
OUT	188.6*182.2*2.8
OUT	196*190*2.8
OUT	198*192*2.8
OUT	198.8*192.4*2.8
OUT	200*194*2.8

PART NUMBER	
OUT	205*199*2.8
OUT	210*203*2.8
OUT	214*208*2.8
OUT	215*209*2.8
OUT	216*210*2.8
OUT	220*214*2.8

1. Hydraulic seal

PTFE SEAL RING – STYLE : OUT

PART NUMBER	
OUT	221*215*2.8
OUT	230*224*2.8
OUT	235*229*2.8
OUT	240*234*2.8
OUT	245*239*2.8
OUT	250*244*2.8
OUT	259.5*253*2.8
OUT	270*264*2.8

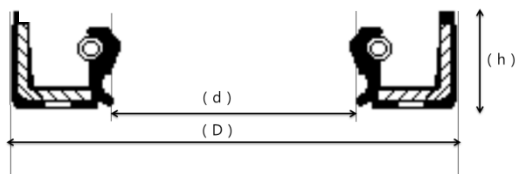
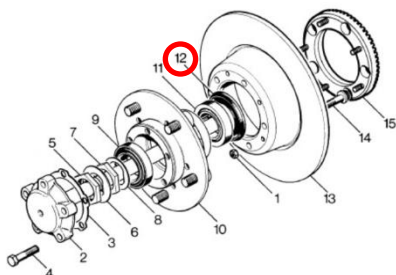
PART NUMBER	
OUT	275*269*2.8
OUT	280*274*2.8
OUT	285*278*3.3
OUT	285*279*2.8
OUT	290*284*2.8
OUT	300*294*2.8
OUT	305*299*2.8
OUT	313.4*307*2.8

PART NUMBER	
OUT	315*309*2.8
OUT	320*314*2.8
OUT	325*318*3.3
OUT	325*319*2.8
OUT	335*328*3.3
OUT	335*329*2.8
OUT	340*334*2.8
OUT	350*344*2.8

PART NUMBER	
OUT	360*353*3.3
OUT	360*354*2.8
OUT	397.8*391.4*2.8
OUT	400*392*3.8
OUT	400*394*2.8
OUT	425*417*3.8
OUT	455*447*3.8

1. Hydraulic seal

STYLE : HUB SEAL



Main function

Prevention of external oil leakage / Prevent the internal of foreign

SEAL INFORMATION

PART NUMBER

(Prefix)- d*D*h

PART NAME	SIZE	REMARKS
OIL SEAL(0750 110 134)	DSS 46*65*16	
SHAFT SEAL(0750 110 135J)	DSS 56*75*15.5	DX210W
OIL SEAL(0750 110 138)	DSS 56*75*22.5	
OIL SEAL(ZF 0734 309 430)	COMBI 46*65*21(K9001482)	DX140W(NEW TYPE)
OIL SEAL(ZTAM-00062)	COMBI 50*65*18	HX1400W-7
OIL SEAL(ZTAM-00046)발포	COMBI 55*80*11	HX1400W-7
OIL SEAL(ZTAM-00118)	COMBI 55*90*10	
OIL SEAL(ZF 0734 309 262)	COMBI 56*75*16	
OIL SEAL(ZF 0734 309 763)	COMBI 56*75*22.5	K9004138 DX210W
0734 319 697 (2HL-290)	COMBI 80*110*10.3/19	
OIL SEAL(0734 319 557)	COMBI 80*110*12/16	
0734 319 718(2HL-290)	COMBI 80*110*11/17	
SHAFT SEAL(K9001471)	TC3 60*90*10/14.5	DX140W
SHAFT SEAL(ZGAQ-02303)	TC3 65*105*10/14.5	8220-10010 TRAVLE MORTOR&MISSION SEAL

1. Hydraulic seal

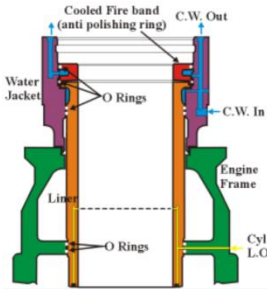
STYLE : HUB SEAL

PART NAME	SIZE	REMARKS
HUB SEAL(001.21.1393K)	CASSETTE 110*140*14.5 / 16	EW55,MX-3W-R
HUB SEAL(7114-12431)	QLFY 120*150*14-OLD	MX132W
HUB SEAL(7114-12431)	QLFY 120*150*14-NEW	MX132W
HUB SEAL(CFW TYPE)	CASSETTE 120*150*14/15.5	
HUB SEAL(A033565)	CASSETTE 121.8*150*13	D50S / FX50D
HUB SEAL(200W)발포	COMBI 136*165.5*15	
HUB SEAL(0750 110 156)	CASSETTE 136.8*165*13	
HUB SEAL(212.06.055.01N)	CASSETTE 145*175*14.5 / 15.5	R1400W-7
HUB SEAL(278.06.032.01N)	CASSETTE 148*170*14	MX-3W-F)(275.06.008.01L)
HUB SEAL(0750 110 155)	CASSETTE 150.15*178*13/16	DX140W,R140W(K9001529)(ZGAQ-02912)
HUB SEAL(7124-42400)	CASSETTE 155*190*19	S170W-3
HUB SEAL(A233367)	CASSETTE 167.5*203*15	
HUB SEAL(0734 309 281)401	CASSETTE 167.8*198*16	MX8
HUB SEAL(0734 319 425)	CASSETTE 190*230*17	DX210W,R2000(2115-00485)
HUB SEAL(0734 300 225)	COMBI 235*280*15/22.5	
HUB SEAL(2180-1235)	STEFA 120*160*14/17	
HUB SEAL(7124-52550)	STEFA 190*230*14/17	MEGA 400(FRONT)
HUB SEAL(7114-22410)	STEFA 140*170*14/17	
HUB SEAL(7124-22530)	STEFA 178*205*14/19	

PART NAME	SIZE	REMARKS
1-09625-350-0	TA2Y 118*174*16/28_A037006	
43090-90000	OCY 124*170*14.5_A037010	
43090-90003	OC 140*185*15_A037008	
9828-01120	TB3 140*160*14_OIL SEAL(A037009)	
A23-30	TC 140*160*14_OIL SEAL(NBR)_A037001	
A23-32	TC 185*210*15_OIL SEAL(NBR)_A037002	
A23-32-철	TB2 185*210*15_OIL SEAL(NBR)_A037007	
BPW13501567080N	SCY 135*156.7*8/10_OIL SEAL(NBR)_A037012	
DI14015514	TC 140*155*14_OIL SEAL(NBR)_A037004	
DI14015575	TC 140*155*7.5_OIL SEAL(NBR)_A037005	
DI15518015	TC 155*180*15_OIL SEAL(NBR)_A037003	
OS124174145	OCY 124*174*14.5_A037011	

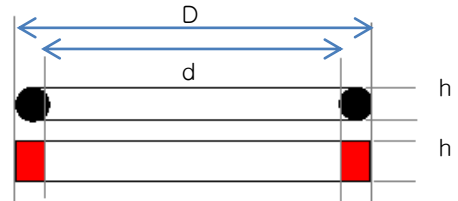
1. Hydraulic seal

STYLE : LINER O-RING AND RING FOR ENGINE



Material & working condition	Main function
VMQ : -60~+225, HNBR : -25~+140 NBR : -40~+125	Prevention the external of cooling water to out side Prevent the internal of foreign object to in side

SEAL INFORMATION	
PART NUMBER	(Prefix)- d / d*h / d*D*h



PART NAME	SIZE	REMARKS
1-09623-270-0	OR 128.7*4.2_O-RING(VMQ70)10PA0_B037001	
1-09623-271-0	OR 129.7*2.4_O-RING(VMQ70)10PA-1_B037002	
1-09623-319-0	OR 131.7*2.4_O-RING(VMQ70)10PC-1_B037014	
1-09623-410-0	OR 132.2*4.2_O-RING(VMQ70)10PC-1_B037013	
1-09623-432-0	Y 130.6*135*7_PACKING(NBR70)_B037003	
11018-01T01	Y 104*108.4*8_PACKING(NBR70)_B037020	
11026-T9000	Y 104*110*8_PACKING(NBR70)_B037019	
30907-22300	Y 138.8*145.2*9_PACKING(NBR70)_B037009	
31107-02401	1AG 140_O-RING(VMQ70)6D22_B037008	
31207-62302	1AG 145_O-RING(VMQ70)8DC-8_B037011	
31207-62400	Y 145*151.4*12_PACKING_8DC-8_B037012	
6127-21-2221	OR 162.5*5.33_O-RING(NBR75)_B037023	

1. Hydraulic seal

STYLE : LINER O-RING AND RING FOR ENGINE

PART NAME	SIZE	REMARKS
6127-21-2241z	OR 162.5*5.33_O-RING(VMQ70)_B037024	
6127-21-2252	Y 165.5*173.5*14_PACKING(NBR70)B037025	
8M20ME161592	OR 157*166.6*4.8_O-RING(S7504)_B037021	
8M20ME165230	Y 159.8*166*12_PACKING(HNBR)_B037022	
9-11267-010-0	OR 112.5*4.2_O-RING(NBR75)_B037015	
ME031601	Y 119*123.4*9_PACKING_6D15_B037006	
ME031605	OR 122.2*3.53_O-RING(VMQ70)6D14_B037004	
ME031610	1AG 120_O-RING(VMQ70)6D15_B037005	
ME071066	Y 117*120.4*7.8_PACKING(NBR70)_B037007	
ME151039(ME051375)	1S 140_O-RING(VMQ70)6D22_B037010	
MH035606	OR 152.3*158.5*3.1_(VMQ)B037017	
MH035614	OR 154.0*158.8*2.4_(VMQ)B037018	

2. Hydraulic Breaker seal



WYS providing special concept of high quality Hydraulic Breaker seals.

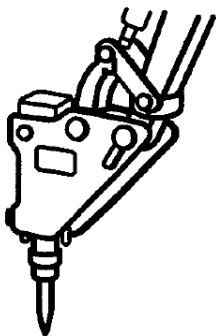
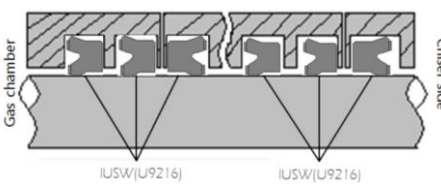
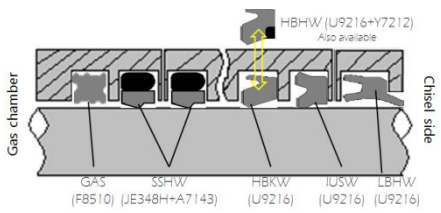
The quality already verified by supplying OEM manufacturer like

The Korea biggest Breaker manufacture **Everdigm** etc.

The Special polyurethane material is developed by WYS

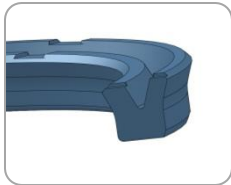
And produced by WYS also.

2. Hydraulic Breaker seal

Equipment	Operating condition	Magnified view of sealing system	Feature
 Hydraulic breaker	0~16.7 Mpa {0~170kgf /cm ² } - 30~100 °C		All seal using IUSW type only, because of high speed and high pressure. U9216 poly urethane material is used for severe operating condition.
	0~17.7 Mpa {0~180kgf /cm ² } - 30~100 °C		'HBKW' is used upper hydraulic seals to reduce the friction. 'SSHW' is also used to absorb impact pressure and reduce the friction. 'GAS' with high wear resistance characteristics is used for gas seals to prevent oil scrapping off from the gas chamber.

2. Hydraulic Breaker seal

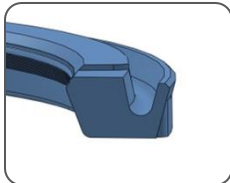
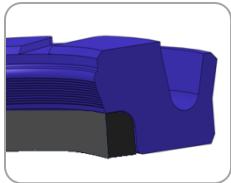
ROD SEAL



Style : **IUSW(IUSI)**
Material : High performance PU

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211

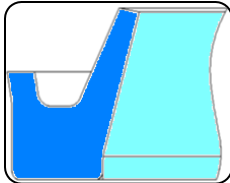
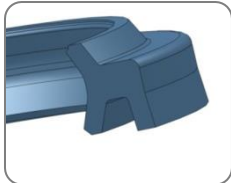
BUFFER SEAL



Style :
HBHW(HBY)/HBKW
Material : High performance
PU+P/A / High performance PU

Page:
213-14

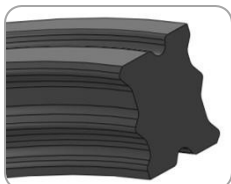
DUST SEAL



Style : **LBHW(LBI)/LPIY**
Material : High
performance PU

Page:
215-216

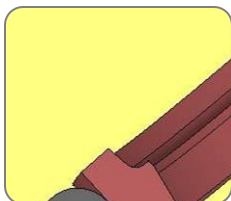
GAS SEAL



Style : **GAS**
Material : FKM

Page:
217

STEP SEAL

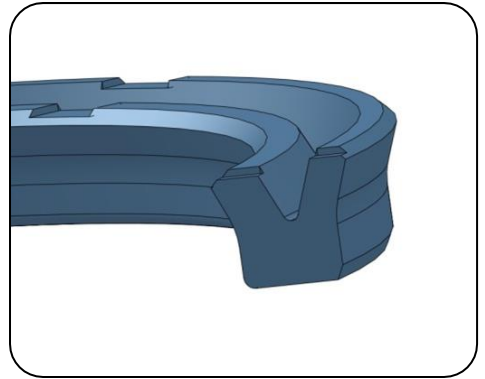
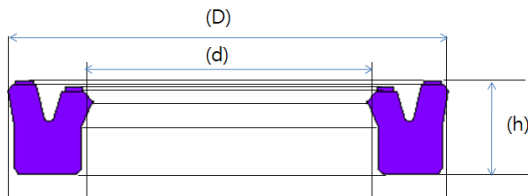


Style : **SSW(E-RING,SK)**
Material : PTFE+NBR

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218

2. Hydraulic Breaker seal

ROD SEAL- STYLE : IUSW



Material	Main function	Feature
Heat resistance PU - Pressure: 0~50Mpa - Temperature range: -35~130	Prevention of external oil leakage	Since the heat resistance PU material has very special heat resistance for low temperature and high temperature, it can be used at very wide temperature range. And since it has very good elasticity even under hard working condition, good for prolong the seal life time (Compression set : 25% in 80 °C 70hr)

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*h

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
IUSW	40*50*6	IUSW	60*70*6	IUSW	124*134*6	IUSW	150*165*9
IUSW	42*52*6	IUSW	70*80*6	IUSW	125*140*10	IUSW	155*165*6
IUSW	45*55*6	IUSW	85*100*9	IUSW	125*140*9	IUSW	155*170*9
IUSW	50*60*6	IUSW	98*112*8.5	IUSW	130*145*9	IUSW	156*171*10
IUSW	53*63*6	IUSW	100*115*9	IUSW	140*150*6	IUSW	160*175*9
IUSW	55*65*6	IUSW	120*135*9	IUSW	140*155*9	IUSW	170*180*6

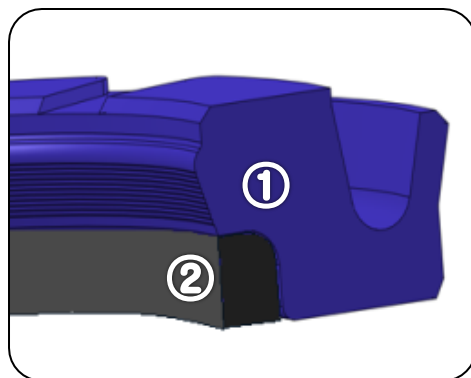
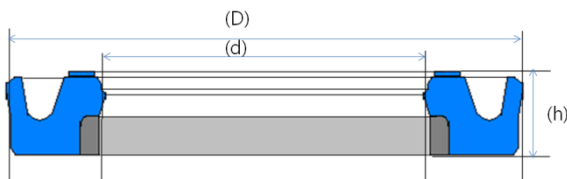
2. Hydraulic Breaker seal

ROD SEAL– STYLE : IUSW

PART NUMBER	
IUSW	170*185*9
IUSW	175*190*9
IUSW	180*200*12
IUSW	185*205*12
IUSW	186*206*13
IUSW	200*220*12
IUSW	210*230*12

2. Hydraulic Breaker seal

ROD SEAL- STYLE : HBHW



Material	Main function	Feature
① Heat resistance PU - Pressure: 0~50Mpa - Temperature range: -35~130 ② Nylon back up ring	Buffering of impact pressure applied to rod packing	Since there are high pressure & impact , TPU sealing ① is used in combination with P/A backup ring ②, to use TPU with a combination of strength and flexibility so that the pressure resistance is supplemented. Some case, the P/A back up ring can scratch the rod, without back up ring style "HBKW" also available to use.

SEAL INFORMATION

PART NUMBER	(Prefix)- d*D*h
-------------	-----------------

PART NAME	
HBHW	50*65.5*6
HBHW	55*70.5*6
HBHW	60*75.5*6
HBHW	65*80.5*6
HBHW	70*85.5*6
HBHW	75*90.5*6

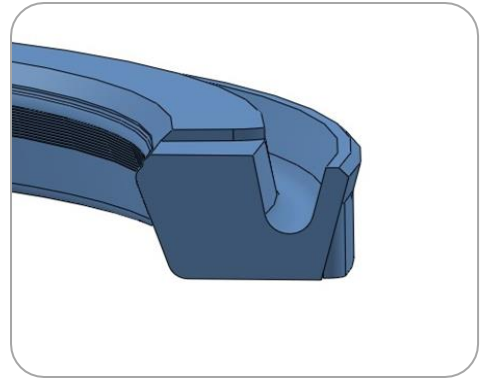
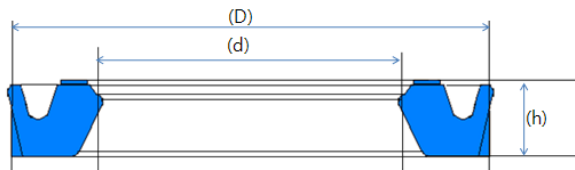
PART NAME	
HBHW	80*95.5*6
HBHW	85*100.5*6
HBHW	90*105.5*6
HBHW	95*110.5*6
HBHW	100*115.5*6
HBHW	105*120.5*6

PART NAME	
HBHW	110*125.5*6
HBHW	115*130.5*6
HBHW	120*135.5*6
HBHW	124*139.5*6
HBHW	130*145.5*6
HBHW	132*147.5*6

PART NAME	
HBHW	140*155.5*5.8
HBHW	145*160.5*5.8
HBHW	155*170.5*5.8
HBHW	160*175.5*6
HBHW	170*185.5*6
HBHW	180*195.5*6

2. Hydraulic Breaker seal

BUFFER SEAL- STYLE : HBKW



Material	Main function	Feature
① Heat resistance PU - Pressure: 0~50Mpa - Temperature range: -35~130	Buffering of impact pressure applied to rod packing	Some case, the nylon back up ring can scratch the rod, without back up ring style 'HBKW' also available to use.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*h

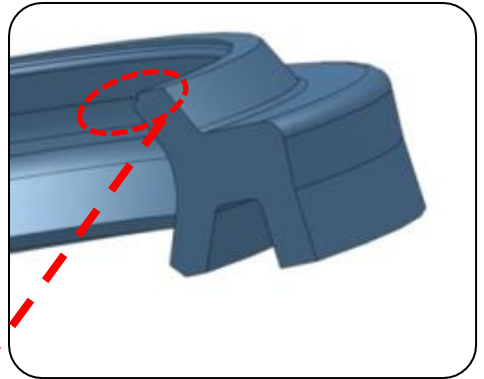
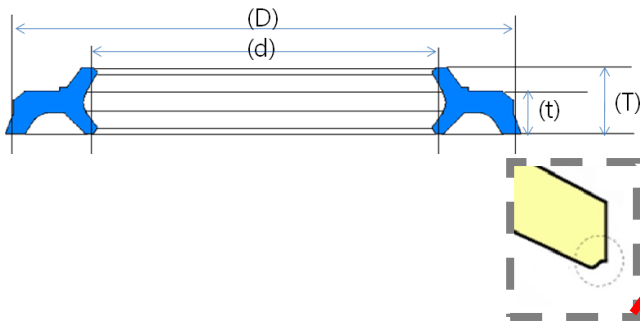
PART NAME	
HBKW	75*90.5*6
HBKW	85*100.5*6
HBKW	100*115.5*6
HBKW	124*139.5*6
HBKW	130*145.5*6
HBKW	132*147.5*6

PART NAME	
HBKW	135*150.5*6
HBKW	140*155.5*6
HBKW	150*165.5*6
HBKW	155*170.5*6
HBKW	160*175.5*6
HBKW	170*185.5*6

PART NAME	
HBKW	180*195.5*6
HBKW	185*200.5*6

2. Hydraulic Breaker seal

DUST SEAL- STYLE : LBHW



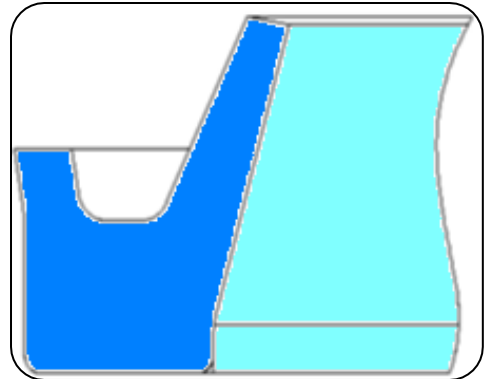
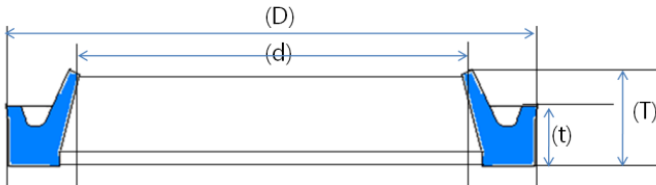
Material	Main function	Feature
Heat resistance PU - Pressure: 0~50Mpa - Temperature range: -35~130	Prevent of intrusion of foreign objects	To cope with the harsh external contaminant conditions, high strength TPU is used to resist plastic deformation. Since the ideal design of the dust sealing lip, it can be done ideal dust wiping for good dust resistance and good oil film making.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/T

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
LBHW	40*48*5/6.5	LBHW	85*95*6/8	LBHW	150*163*7*9.5	LBHW	185*198*7/9.5
LBHW	45*53*5*6.5	LBHW	100*110*6/8	LBHW	156*169*7/9.5	LBHW	186*201*7/9.5
LBHW	53*61*5/6.5	LBHW	120*130*6/8	LBHW	160*173*7/9.5	LBHW	200*213*7/9.5
LBHW	55*63*5/6.5	LBHW	125*138*7/9.5	LBHW	170*183*7/9.5	LBHW	210*223*7/9.5
LBHW	60*68*5/6.5	LBHW	130*143*7/9.5	LBHW	175*188*7*9.5		
LBHW	70*80*6/8	LBHW	140*153*7/9.5	LBHW	180*193*7/9.5		

2. Hydraulic Breaker seal

DUST SEAL- STYLE : LPIY



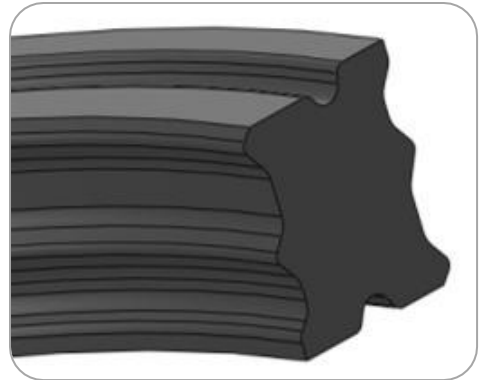
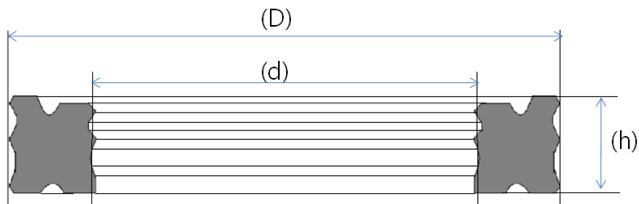
Material	Main function	Feature
Heat resistance PU - Pressure: 0~50Mpa - Temperature range: -35~130	Prevent of intrusion of foreign objects	To cope with the harsh external contaminant conditions, high strength TPU is used to resist plastic deformation. Since the ideal design of the dust sealing lip, it can be done ideal dust wiping for good dust resistance and good oil film making.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*t/T

PART NUMBER	
LPIY	124*139*6.5/10.3
LPIY	155*170*6.5/10.3
LPIY	140*155*6.5/10.3

2. Hydraulic Breaker seal

GAS SEAL- STYLE : GAS



Material	Main function	Feature
FKM	Prevention of external gas leakage	'GAS' with high wear resistance characteristics is used for gas seals to prevent oil scrapping off from the gas chamber.

SEAL INFORMATION	
PART NUMBER	(Prefix)- d*D*h(±0.2)

PART NAME	
GAS	68*78*5.4
GAS	83.5*93.5*7.2
GAS	98*108*7.2
GAS	120*133*9.8
GAS	128*141*9.8

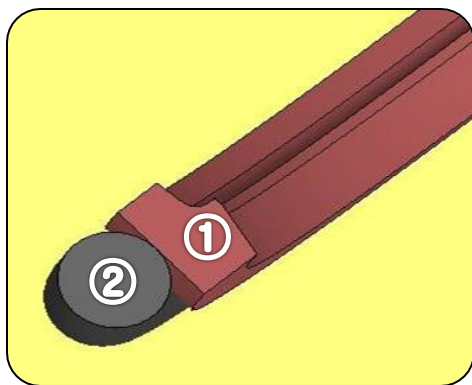
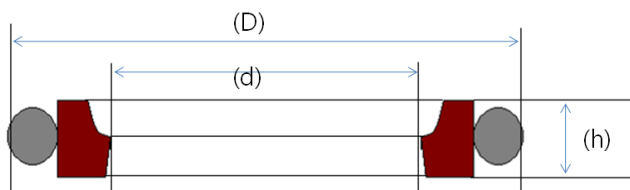
PART NAME	
GAS	130*145*10.2
GAS	133*146*9.8
GAS	135*148*9.8
GAS	136*149*9.8
GAS	137*150*9.8

PART NAME	
GAS	138*151*9.8
GAS	147*160*9.8
GAS	150*163*9.8
GAS	150*163*9.8
GAS	157*170*9.8

PART NAME	
GAS	163*176*9.8
GAS	165*178*9.8
GAS	167*180*9.8
GAS	177*190*9.8
GAS	182*195*9.8

2. Hydraulic Breaker seal

STEP SEAL- STYLE : SSHW



Material	Main function	Feature
① Teflon(Bronze50%filled) ② Nitrile rubber	Absorb pressure impact to Gas seal	'SSHW' is used to absorb impact pressure and reduce the friction.

SEAL INFORMATION

PART NUMBER	(Prefix)- d*D*h
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PART NUMBER	
SSHW	37*47.7*3.9
SSHW	42*52.7*3.9
SSHW	50*60.7*3.9
SSHW	57*72.1*5.9
SSHW	68*83.1*5.9
SSHW	83.5*98.6*5.9
SSHW	98*113.1*5.9

PART NUMBER	
SSHW	118*133.1*5.9
SSHW	120*135.1*5.9
SSHW	123.5*138.6*5.9
SSHW	128*143.1*5.9
SSHW	135*150.1*5.9
SSHW	136*151.1*5.9
SSHW	137*152.1*5.9

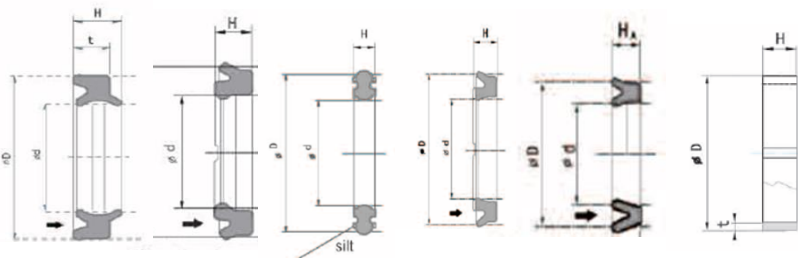
PART NUMBER	
SSHW	138*153.1*5.9
SSHW	147*162.1*5.9
SSHW	150*165.1*5.9
SSHW	155*170.1*5.9
SSHW	157*172.1*5.9
SSHW	165*180.1*5.9
SSHW	167*182.1*5.9

PART NUMBER	
SSHW	172*187.1*5.9
SSHW	177*192.1*5.9
SSHW	180*195.1*5.9
SSHW	195*210.5*5.9

3. Pneumatic seal



WYS providing high quality pneumatic seals.



CUW

PRW

PPYW

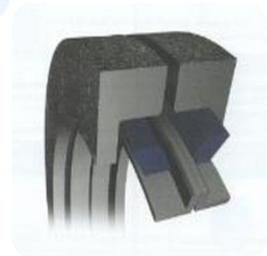
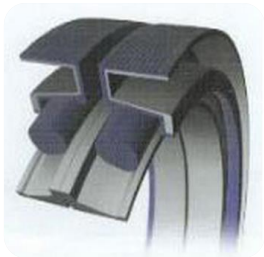
PPW

PGW

MYW

TWR

4. Floating seal



WYS providing special high quality floating seal.

Same seal we are providing to

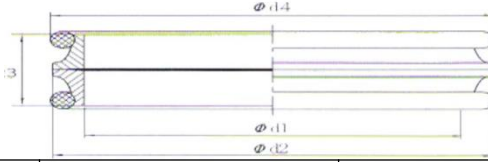
Jin sung(Caterpillar)also.

Our production process and material is characterized as follow.

* SHELL MOULD process is 'Hi-Cr'

* Centrifugal casting process is 'Ni-HARD' .

4. Floating seal



No.	PART No.	ORIGINAL PART No.	ORIGINAL PART No.	DIMENSION			
				φ d1	φ d2	φ d4	t3
1	WY042FS	58645-01500	110-30-00045	45	58	61.6	21
2	WY045FS	760S045FS	4110358	48	62	68	25
3	WY053FS	760S053FS	4508192	56	70	76	25
4	WY055FS	140-30-00040	140-30-00040	58	75	79.4	27
5	WY060FS	2M2858	2M2858	63.5	82	86.8	31.8
6	WY061FS	4060225	4060225	64	78	84.6	25
7	WY063FS	760S063FS	760S063FS	66	85	90	28
8	WY067FS	58845-20500	58845-20500	69	84	90.6	26
9	WY068FS	141-30-00610	141-30-00610	70	90	95.5	29
10	WY070FS	1M8747	1M8747	73	92	96.2	31.8
11	WY071FS		20Y-30-00070	74	86	91	22
12	WY074FS	150-30-00035	150-30-00035	76	94	101	29
13	WY077FS	170-30-00110	170-30-00110	80	99	105	29
14	WY078FS	760S078FS	760S078FS	81	100	104	29
15	WY085FS		6S 3285	90	105	107.8	28
16	WY087FS	1M8746	1M8746	90.5	109	113.6	31.8
17	WY089FS		20Y-30-00041	92	109.3	114.6	22
18	WY091FS		20Y-30-00040	94	106.7	112	22
19	WY092FS	760S092FS	4153468	95	114	120	30
20	WY095FS		760S095FS	98.5	119	*	30
21	WY096FS	V20801	205-30-00050	98.5	119	123.5	29
22	WY097FS	1M8748	1M8748	100	118	123.2	31.8
23	WY099FS	760S099FS	4153731	102	122	127.2	32
24	WY100FS		20Y-30-00100	104	117	122.2	20
25	WY101FS		20Y-30-00101	104	122	125.8	22
26	WY106FS	760S106FS	130-27-00020	109	132	136.6	32
27	WY107FS	4508193	4508193	110	127	133	32
28	WY112FS	147-27-00015	150-27-00015	115	137	141.8	31
29	WY117FS		JB5640	120	143	149	38
30	WY121FS		207-30-00101	124	141	147	22
31	WY122FS			125	144.1	148.5	31.8
32	WY123FS	1P7249	1P7249	127	146	150.2	31.8
33	WY124FS			127	141	148	25
34	WY126FS	760S126FS	45007221	130	152	150	38
35	WY127FS	170-27-00010	170-27-00010	130	150	155.6	32
36	WY134FS			136	153	161.7	30
37	WY140FS	5K5288	5K5285	143	157	159.7	25
38	WY143FS	4K6049	4K6049	146	171.7	177	38
39	WY145FS			148	170	175.6	31
40	WY147FS	760S147FS	JB5620	150	172	179	40
41	WY149FS		760S149FS	152	176	*	32
42	WY151FS	5K1078	5K1078	154	168	171	25
43	WY156FS		180-27-00020/1	159.5	180	186.3	32
44	WY160FS	7M481	7M0481	163.3	191.2	196.4	38
45	WY175FS		4513173	178	200	210.6	38
46	WY179FS	5M1176	5M1176	182	210	215.4	38
47	WY179-1FS		9W6674	182	210	215.4	50
48	WY189FS		FL5420	192	215	220.8	33
49	WY206FS		JB5650	209	234	242.6	42
50	WY217FS		760S217FS	220	246	254.6	41
51	WY220FS	5M8647	5M8647	223	252	258	38
52	WY220-1FS		8P1252	223	248	257	48
53	WY222FS	760S222FS	760S222FS	225	252	258	37
54	WY223FS		130-27-00010	225	252	258	38
55	WY236FS	141-27-00025	141-27-00010	239	268	274.2	40
56	WY247FS	760S247FS	760S247FS	250	276	284.6	41
57	WY247-1FS		4514259	250	276	284.6	44
58	WY262FS	5M1177	5M1177	265	293	298	37
59	WY297FS	150-27-00025	150-27-00025/20	300	328	333	40
60	WY315FS		5M7294	318	343	351.6	37
61	WY337FS	170-27-0020	170-27-0020	340	368	374.8	38
62	WY363FS		4D4521	365	391	399.5	37

6. Custom oil seal



WYS available providing any type of oil seal as customer request by our design and material and molding

This oil seal can be used for Car and Heavy equipment and other industrial using
Kindly check below profile of available oil seal and if you need any type of oil seal, please contact with us

Also if you can not find the type which you looking for, please try to contact with us
we can discuss about new development also

6. Custom oil seal(SEAL PROFILE)

● OIL SEAL

STYLE	SC	TC	TB	TCK	VC	KC	TCZ
PRODUCT IMAGE							

STYLE	TCV	TCN	TC4	TCJ	SA1J	VAJ	VA3J
PRODUCT IMAGE							

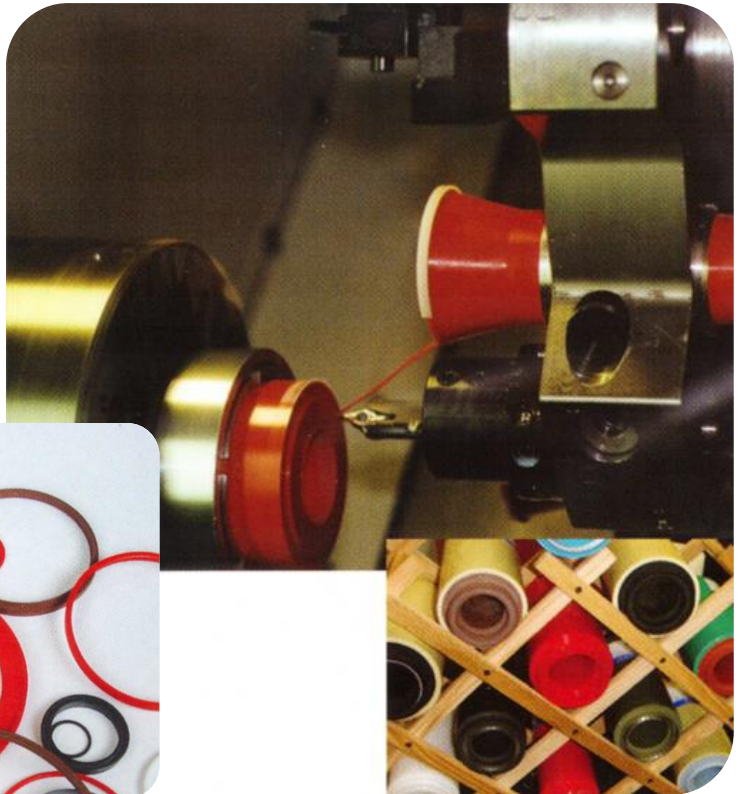
STYLE	DC	OC	QLFY	VR	ZF	ZT	SBB
PRODUCT IMAGE							

STYLE	SB(BIG SIZE)	TB(BIG SIZE)	MG	WT	WTT	OKC3
PRODUCT IMAGE						

● OTHERS

STYLE	MECHANICAL SEAL	VALVE STEM SEAL	CHANGE LEVER SEAL
PRODUCT IMAGE			

7. Machined seal



WYS available to provides a wide selection of custom, cost effective sealing solutions using advanced rapid-prototype technology.

The programmable CNC production cell can manufacture both hydraulic and pneumatic styles of o-rings, rod seals, piston seals, wipers, backup rings, rotary seals, swivel seals and static seals in both imperial and metric sizes for almost any fluid power application including agriculture, automotive, heavy construction, material handling, manufacturing, mining, logging, fluid handling and refuse.

WYS technology gives you the ability to source custom manufactured products with a short turn-around time and with no mold costs. **WYS** software offers over 100 standard profiles and can produce countless custom designs by modifying the standard dimensions. The advanced lathe technology results in exceptional sealing products with smooth corners and fillets, fine surface finishes and sharp lips. **WYS** cooperate with leading Korea factory who has a large inventory of high quality materials in numerous sizes including materials from elastomers of rubber and urethane to plastics of fluoro-polymers (PTFE) and Acetal (POM) available for your sealing application.

7. Machined seal(MATERIAL DATA SHEET)

Material			Polyurethane								Rubber				
Properties	Standard	Unit	HPU	C-HPU	HPU 55D	C-HPU 57D	C-HPU 72D	LT-PU	HT-PU	SL-PU	NBR	H-NBR	FPM	EPDM	VMQ
Color			Red	Red	Yellow	Yellow	Nature	Blue	Nature	Grey	Black	Green	Brown	Black	Blue
Hardness	ISO 868	Shore A	95±2	96±2				96±2	96±2	96±2	85±5	85±5	85±5	85±5	85±5
Hardness	ISO 868	Shore D	48±3	50±3	55±3	57±3	70±3	50±3	47±3	48±3					
Ball indentation hardness	DIN 53456	MPa													
Tensile strength	DIN 53504	MPa	50	45	45	45	50	60	45	45	17	20	9	12	7
Elongation at break	DIN 53504	%	350	450	340	350	150	550	500	350	150	190	200	80	120
Modulus 100%	DIN 53504	MPa	15	12	20	20	30	12	11	12	11	10	6		4
Modulus 300%	DIN 53504	MPa	28	22	35	33		22	22	22					
Rebound elasticity	DIN 53512	%									20	30	7	37	35
Tear strength	DIN ISO 34-1	kN/mm	110	80	110	110	110	80	80	80	18	15	20	10	15
Spec. gravity	ISO 1183	kg/m ³	1200	1130	1210	1160	1210	1170	1170	1190	1320	1320	2530	1220	1580
Abrasion	DIN 53516	mm ³	17	20	25	25		17	15		100	135	175	140	
Compressive strength	DIN 53455	MPa													
Thermal conductivity	DIN 52612	J*10 ³ /m ² *h*K													
Coefficient of thermal expansion		K ⁻¹ x 10 ⁻⁵													
Coefficient of friction	DIN 52612														
Spec. gravity	DIN 53479	kg/m ³													
Compression set *	ISO 815	%	27	30	30	30		27	32	30	5	12	17	7	8
Compression set **	ISO 815	%	33	35	35	35		33	35	35	6	14	10	7	9
Compression set ***	ISO 815	%										22	15		
Temperature min.	°C		-20	-37	-20	-30	-20	-50	-35	-20	-30	-20	-20	-45	-60
Temperature max.	°C		115	110	115	110	110	110	135	110	110	150	220	130	200
Temp. max. water/steam	°C		80		80							120	150	150	120
Temp. max. hot air(short)	°C											180	300	180	300
Young's modulus	DIN 53457	MPa													
FDA-approval			√	√											
Special compound with FDA approval					√							√	√	√	√

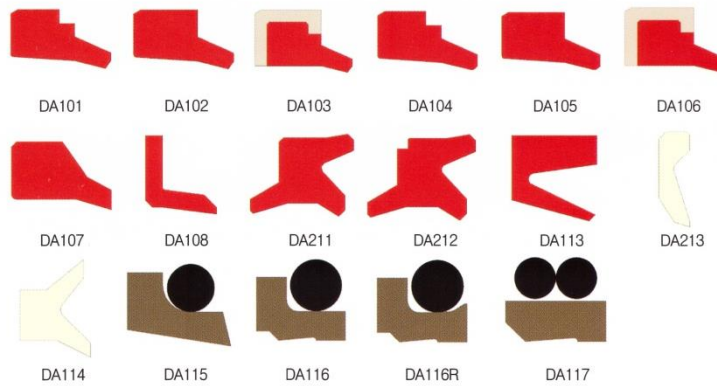
* 24h 70°C 25% deflection ** 24h 100°C 25% deflection *** 24h 150°C 25% deflection

The test results are average-results measured from test specimen and cannot be transferred to seal applications.

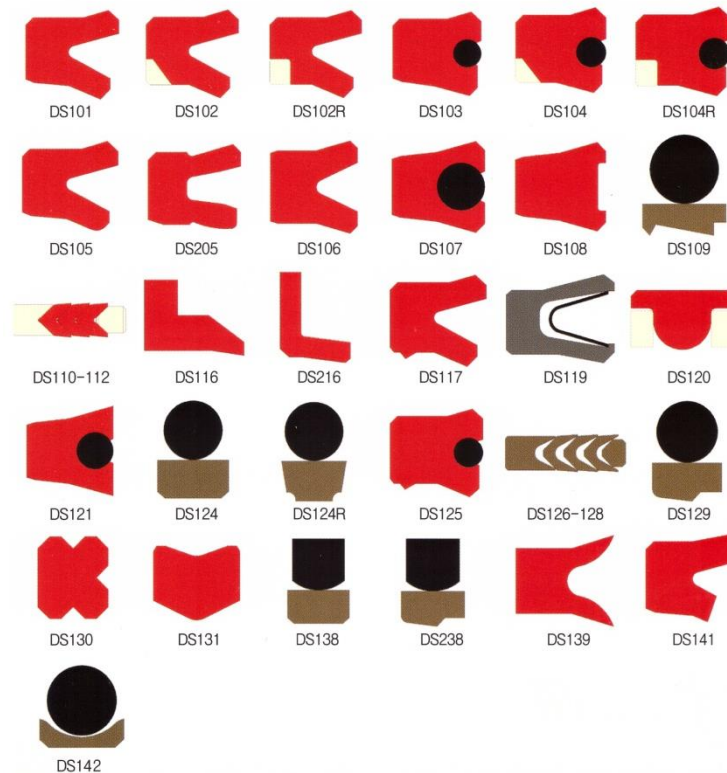
Material			Fluoropolymer											Thermoplastic		
Properties	Standard	Unit	PTFE Virgin	PTFE D05	PTFE D08	PTFE Glass	PTFE I	PTFE II	PTFE D46	PTFE Carbon	PTFE E-Carbon	PTFE Ekonol	POM	PA	UHMW-PE	
					Glass 15%	Glass 25%	Glass/MoS ₂	Bronze40%	Bronze46%	Carbon25%	Carbon10%	Ekonol10%				
Color			White	Turquoise	Orange	Grey	Grey	Brown	Green	Black	Black	Cream	White	Nature	Nature	
Hardness	ISO 868	Shore A														
Hardness	ISO 868	Shore D	55±3	57±3	62±3	60±3	58±3	60±3	63±3	67±3	60±3	56±3	85±3	85±3	61±3	
Ball indentation hardness	DIN 53456	MPa	23±5	28±5	24±5	24±5	27±5	33±5	35±5	35±5	30±5	28±5	160	153	36	
Tensile strength	DIN 53504	MPa	27	31	26	17	16	22	24	12	24	20	70	80	40	
Elongation at break	DIN 53504	%	250	270	300	170	185	200	170	45	250	250	40	40	50	
Modulus 100%	DIN 53504	MPa														
Modulus 300%	DIN 53504	MPa														
Rebound elasticity	DIN 53512	%														
Tear strength	DIN ISO 34-1	kN/mm														
Spec. gravity	ISO 1183	kg/m ³														
Abrasion	DIN 53516	mm ³														
Compressive strength	DIN 53455	MPa	4	4	8	8	8	10	10			11	88	110	88	
Thermal conductivity	DIN 52612	J ⁻¹ 0 ³ /m ² h ² K	0.8	0.8	1.1	1.3	1.1	4	4.2	3.5	3.5	5.4	0.25	0.29	0.41	
Coefficient of thermal expansion		K ⁻¹ x 10 ⁻⁵	19	19	10	10.7	13	8	8.5	10.9	10.9	8.4	11	8	15	
Coefficient of friction	DIN 52612		0.08	0.08	0.13	0.16	0.13	0.13	0.15	0.17	0.18	0.18	0.28	0.4	0.25	
Spec. gravity	DIN 53479	kg/m ³	2150	2170	2230	2210	2260	3110	3200	2060	2140	2040	1410	1130	930	
Compression set *	ISO 815	%														
Compression set **	ISO 815	%														
Compression set ***	ISO 815	%														
Temperature min.	°C		-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-45	-40	-200	
Temperature max.	°C		260	260	260	260	260	260	260	260	260	260	100	110	80	
Temp. max. water/steam	°C															
Temp. max. hot air(short)	°C															
Young's modulus	DIN 53457	MPa	540	540			1230	1375	1420				3000	3000	680	
FDA-approval			√										√			
Special compound with FDA approval																
* 24h 70 °C 25% deflection ** 24h 100 °C 25% deflection *** 24h 150 °C 25% deflection																
The test results are average-results measured from test specimen and cannot be transferred to seal applications.																

7. Machined seal(SEAL PROFILES)

WIPER



ROD SEALS



8. Machined seal(SEAL PROFILES)

PISTON SEALS



DK101

DK102

DK102R



DK105

DK205

DK106



DK109

DK110-112

DK116



DK119

DK120

DK120N



DK124

DK125

DK126



DK139

DK140

DK141

ROTARY SEALS



DR101

DR102

DR103



DR107

DR108

DR109



DR115

DR116

DR117



DK103

DK104

DK104R



DK107

DK108

DK108R



DK216

DK117

DK118



DK122

DK222

DK123



DK127

DK138

DK238



DK142

DK151

DK152



DR104

DR105

DR106



DR110

DR111

DR112



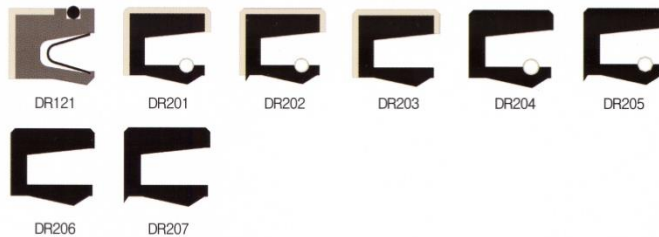
DR118

DR119

DR120

7. Machined seal(SEAL PROFILES)

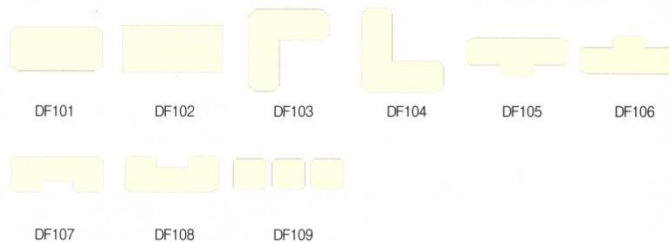
ROTARY SEALS



LIP SEALS



GUIDE RINGS



BACKRINGS



GASKETS





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