






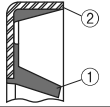
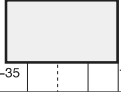
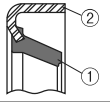
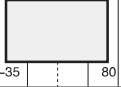
2. Types and Features of Dust Seals

(2) Dust seals for oscillating application

Dust seals for oscillating motion are mainly used for hinge pin and bush parts. In contrast to dust seals for reciprocating motion, the shape of lip is specially designed to reduce torque and have a relief effect by rear-side greasing, this assures good performance in severe dust conditions.

<Table B-5> Dust seals for oscillating and rotating movement

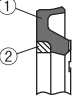
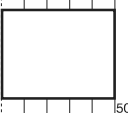
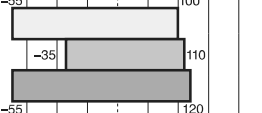
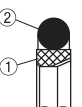
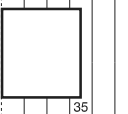
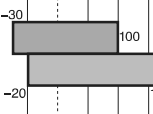

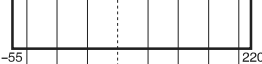

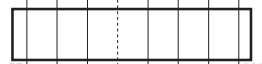

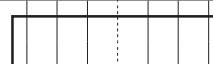

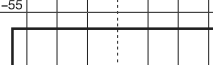

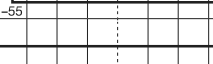



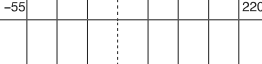

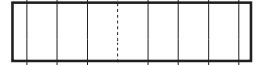

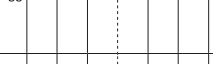


※Temperature	
	Nitrile rubber
	Fluoro rubber
	Iron rubber
	Heat resistant iron rubber
	Heat & cold resistant wide-range iron rubber

Type	Classification	NOK Type	Shape	Material		Main applicable fluid	Pressure (MPa) ^{Remark 1)}	Temperature (°C) ^{Remark 2)}				
								-50	-40	-20	0	100
Dust seals for oscillating application	Hinge pin dust seals	DLI		① Iron rubber	U801	•Outside dust	-					
				② Cold rolled steel plate sheet (SPCC)	U593							
		DLI2		① Iron rubber (U451)	U451		-					

3. Types and Features of Related Products for Hydraulic Equipment

Selecting the right combination of packings and related products for the specific operating conditions will insure proper sealing effectiveness.

<Table B-6> Relating products for reciprocal movement

Type	Classification	NOK Type	Shape	Material		Main applicable fluid	Pressure (MPa) ^{Remark 1)}	Temperature (°C) ^{Remark 2)}									
								0	20	40	60	-50	-40	-20	0	100	200
Special packing for rod seals	Buffer ring	HBY		① Iron rubber	U801	•General petroleum hydraulic fluid											
				② Polyamide resin (12NM or 80NP)	U641												
					UH05												
	HBTS		① Rareflon (55YF)	A305	•General petroleum hydraulic fluid oil •Water-glycol type hydraulic fluid oil •Oil-water emulsion type hydraulic fluid oil												
	F201	•General petroleum hydraulic fluid oil •Phosphate ester type hydraulic fluid oil															
Relating products for reciprocal movement	Wear rings	RYT		Rareflon (05ZF)		•General petroleum hydraulic fluid oil •Water-glycol type hydraulic fluid oil •Oil-water emulsion type hydraulic fluid oil •Phosphate ester type hydraulic fluid oil •Low temperature petroleum hydraulic fluid oil	-										
		WRT2		Rareflon (08GF)													
		WR		Fabric reinforced phenolic resin	12RS												
					15RS												
		WRR		Fabric reinforced phenolic resin	12RS												
					15RS												
		WR		Resin fiber polyester (88RS)													
	Contami seals	KZT		Rareflon (05ZF)													
		BRT2		bias-cut	Rareflon (19YF)												
		BRT3		no cut endless type													
Backup ring		BRN2		bias-cut		Polyamide resin (80NP)											
	BRN3		no cut endless type														
			Polyamide resin		