Double Acting Rod Wiper Seal Metric

PFP

Design

Claron **Style PFP** double acting Rod wiper is designed to remove potential system contaminents from a reciprocating rod during the negative stroke and to assist sealing by collecting the fluid film on the positive stroke. It is classified as a heavy duty rod wiper. The wiper is precision moulded in 92° Shore A Polyurethane with an accurately machined lip. The wiper has a metal case designed to press fit in the housing thus retaining the wiper. The press fit design of this wiper allows it to be used in a simple open ended housing. The sizes are to common Japanese housing standards.
Claron Wiper Seals Style PFP should not be utilised in combination with double-acting Rod seals unless the housing design allows for pressure relief between the wiper and the seal.

Operating Conditions

Temp. range	-40°C to 110°C
Max Linear Speed m/sec	3.0

Optimum service conditions are affected by temperature, speed and surface finish.
Refer to Appendix 1 for further information.

Continuous operating temperature for various Fluids

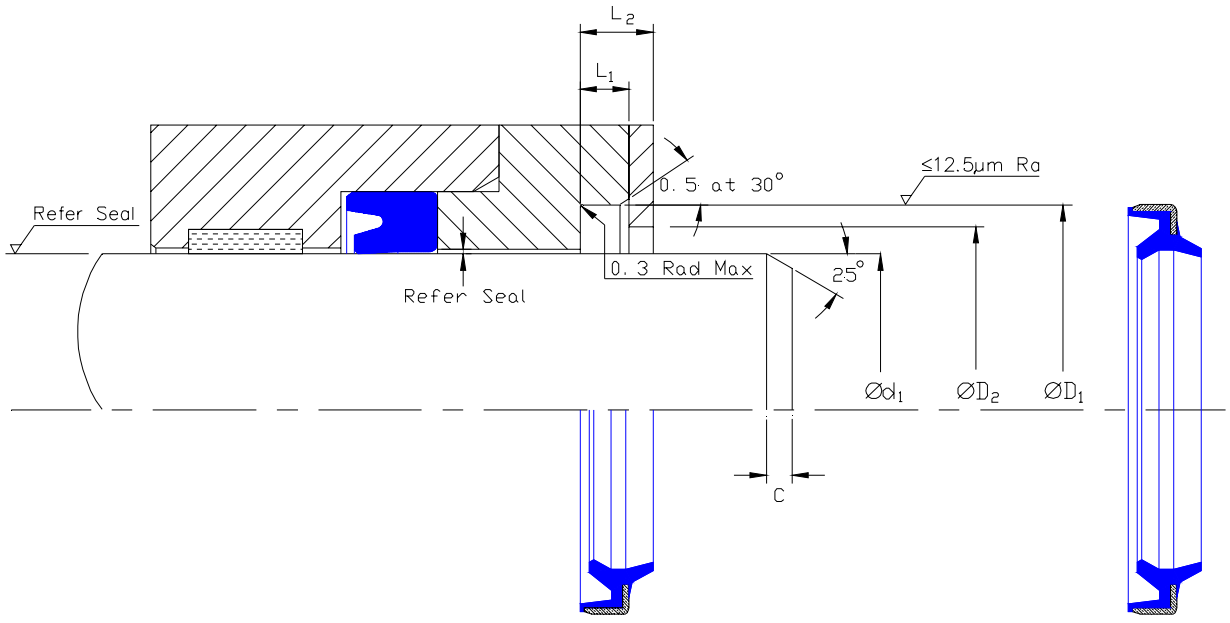
AU Polyurethane		
DIN	**Hydraulic Fluid Description**	**°C**
H	Mineral oil without additives	100
H-L	Mineral Fluid with anti corrosion and anti ageing additives	100
H-LP	Mineral oil as HL plus additives reducing wear, raising load	100
H-LPD	Mineral oil as H-LP but with detergents and dispersants	100
H-V	Mineral oil as H-LP plus improved viscosity temp.	100
HFA E	Emulsions of mineral oil in water. Water content 80-95%	40
HFA S	Synthetic oil in water. Water content 80-95%	40
HFB	Emulsions of water in mineral oil. Water content 40%	40
HFC	Aqueous polymer solutions. Water content 35%	ns
HFD R	Phosphoric acid ester based	ns
HFD S	Chlorinated hydrocarbon based	ns
HFD T	Mixtures of HFD R and HFD S	ns
HEPG	Polyglycol based	ns
HETG	Vegetable Oil based	60
HEES	Fully synthetic ester based	60

Housing

For surface finish and recommended lead in chamfers refer to the illustration below. For housing dimensions and machining tolerances refer to the catalogue page of selected seal.
Refer to appendix 4 for value of tolerance symbols.

Fitting

Style PFP is designed to press fit into the open ended housings. For the seal to function correctly, it is important that care be taken in fitting the seal within its housing.
For a detailed checklist, refer to Appendix 3.



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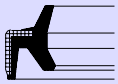
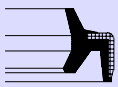


PFP

Metric



Claron Part Number	Nominal Dimensions & Machining Tolerances				
	Refer Seal Selection $Ød_1$	H8 $ØD_1$	+0.30 -0.00 $ØD_2$	+0.30 -0.00 L_1	Nominal L_2
PFP 020033	20	33	28	6	9
PFP 025037	25	37	32	6	9
PFP 030042	30	42	37	6	9
PFP 035047	35	47	42	7	10
PFP 035047/1	35	47	47	7	10
PFP 040050/1	40	50	47	7	10
PFP 040052	40	52	47	7	10
PFP 040052/1	40	52	47	7	10
PFP 045057	45	57	52	7	10
PFP 045057/1	45	57	52	7	10
PFP 050062	50	62	57	7	10
PFP 050062/1	50	62	57	7	10
PFP 055069	55	69	62	8	11
PFP 060074	60	74	67	8	11
PFP 065079	65	79	72	8	11
PFP 070084	70	84	77	8	11
PFP 075089	75	89	82	8	11
PFP 080094	80	94	87	8	12
PFP 085099	85	99	92	8	11
PFP 090104	90	104	97	8	11
PFP 095109	95	109	102	8	12
PFP 100114	100	114	107	8	11
PFP 110126	110	126	118	9	12
PFP 120136	120	136	128	9	12
PFP 130146	130	146	138	9	12
PFP 140160	140	160	150	10	14
PFP 150170	150	170	160	10	14
PFP 160180	160	180	170	10	14
PFP 200225	200	225	212	12	17