

Products and Typical Fluid Compatibility

D = Dynamic Application, S = Static Application
 R = Recommended, P = Possible, NS = Not Suitable

Product	Fluids Based on Mineral Oil		Water Based Fluids								Other Fluid Types					
			HFA (5/95)		HFB (60/40 invert emulsion)		HFC (water glycol)		Water		HFD (Phosphate ester Aryl type)		Synthetic esters (HEES, HFDU)		Air/Nitrogen	
	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S
Rod Seal																
16	R	P	P	P	P	P	P	P	P	P	R ¹	P ¹	R	P	P	NS
605,610,616	R	R	P	P	R	R	P	P	P	P	NS	NS	R	P	P	P
621,652	R	R	R	R	R	R	P	P	P	P	NS	NS	R	P	P	P
653	R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	P	NS	NS	NS
Rod/Piston seals																
15,18	R	R	P	R	R	R	R	R	P	R	P ²	P ²	P	P	P	P
511,512,513	R	R	P	P	P	P	P	P	P	P	NS	NS	R	R	P	P
601	R	R	P	R	R	R	P	P	P	P	NS	NS	R	R	P	P
DA Piston seals																
50,53,64,68	R	R	P	R	R	R	P ³	P ³	P	R	NS	NS	P	P	NS	P
51,52,56,58	R	R	P	R	R	R	R	R	P	P	P ²	P ²	P	P	NS	P
54	R	P	P	R	P	P	P	P	P	P	R ¹	P ¹	R	P	P	NS
65,77	R	R	P	R	R	R	R	R	P	P	NS	NS	P	P	NS	P
714	R	NS	NS	NS	NS	NS	NS	NS	NS	NS	P ¹	NS	R	NS	NS	NS
730	R	R	R	R	R	R	NS	NS	P	P	NS	NS	R	P	NS	P
735	R	P	NS	NS	P	P	P	P	NS	NS	NS	NS	R	P	NS	NS
753	R	R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	R	P	NS	NS
754,755	R	R	P	R	P	R	NS	NS	P	P	NS	NS	R	R	P	P
764	R	R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	R	R	P	P
770	R	R	P	P	P	P	NS	NS	P	P	NS	NS	R	R	P	P
SA Piston Seals																
606,659	R	R	P	P	R	R	P	P	P	P	NS	NS	R	P	P	P
Unitised Piston																
720	R	P	NS	NS	NS	NS	NS	NS	NS	NS	P ⁴	P ⁴	R	P	NS	NS
Vee Packs																
07,09,11,13,14	R	P	P	P	R	P	R	P	P	P	P ²	P ²	P	P	NS	NS

1 Suitable energiser material required e.g. FKM,EPDM. N.B. NBR unsuitable.

2 Suitable compounds required e.g. FKM,EP. N.B. NBR unsuitable.

3 Use PA backing rings, not polyester.

4 Suitable seal set required.

In view of the variation in formulation of oils and other hydraulic fluids, the compatibility of all combinations should be confirmed by testing and field service performance for each application.