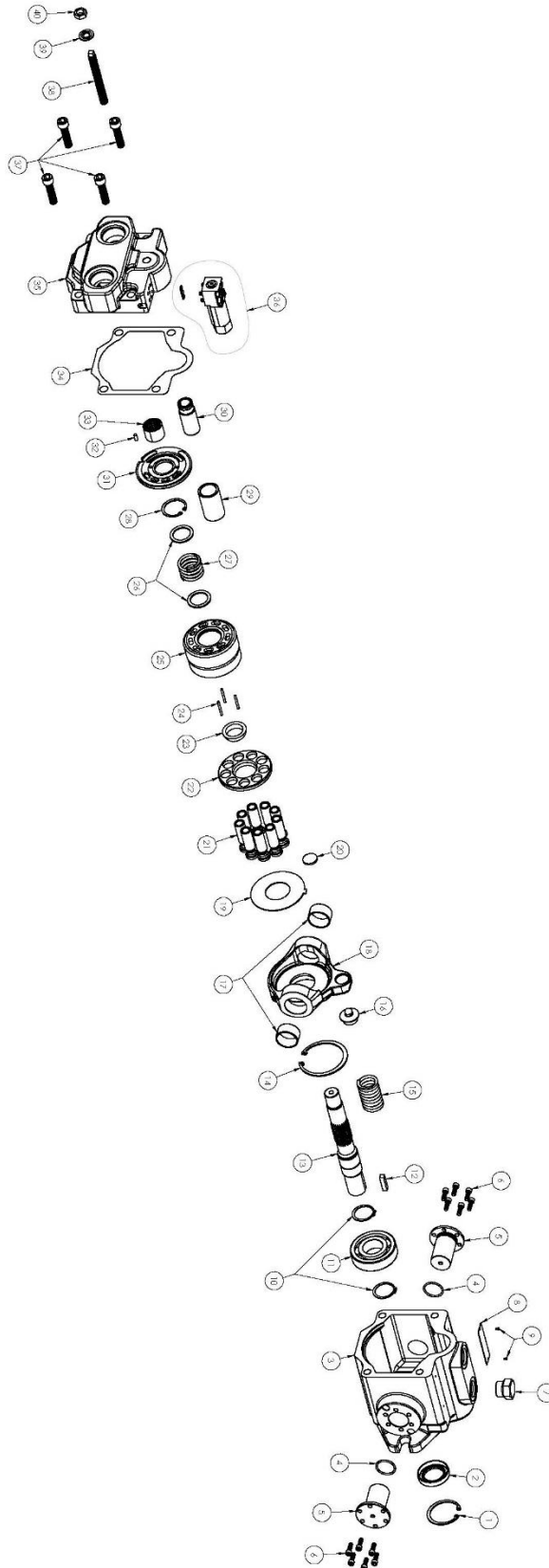


HPVR-20 Parts and Kit list



OIL SOLUTIONS

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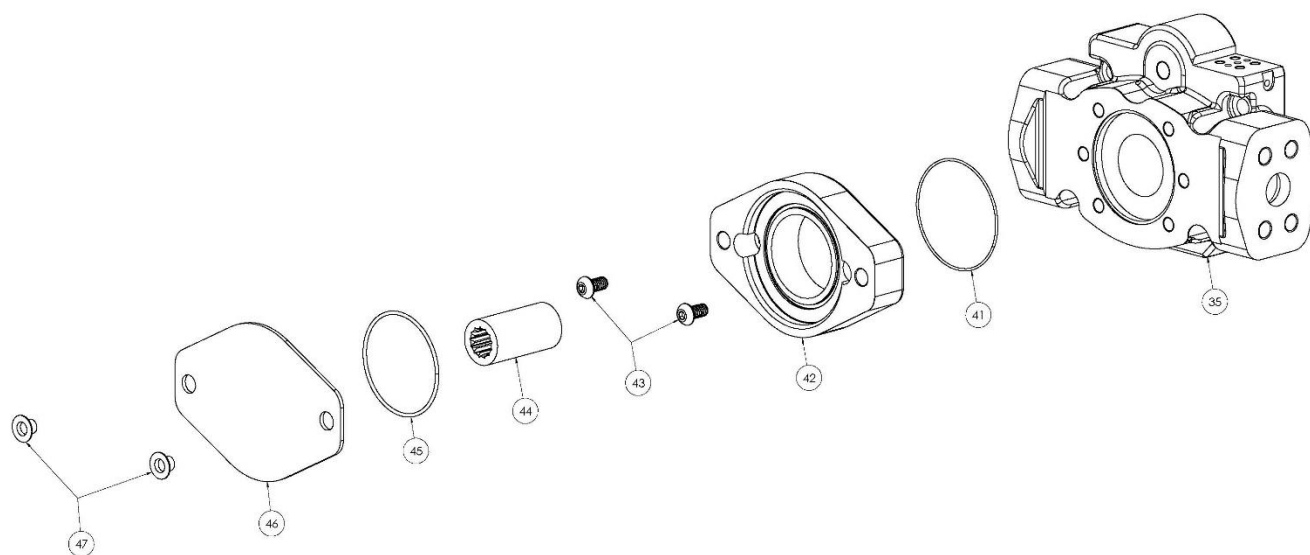


Item Number	General Description	SL8 Description	Model Code	Part Number	Qty in Pump
1	Shaft Seal Retaining Ring	RING RTNG INTL 55MM DIA BORE HPVR-20/29	All	258329	1
2	Shaft Seal	SEAL LIP 35X55X11 70D BUNA HPVR-20	O	258083	1
		SEAL LIP 35X55X10 70D VITON HPVR-20	P	258301	
3	Housing	HOUSING HPVR-20 1R 5R/5S	1R	1022158	1
		HOUSING HPVR-20 2R 4R/4S	2R	1024805	
		HOUSING HPVR-20 2R 4R/4S	4R	1024805	
		HOUSING HPVR-20 1R 5R/5S	5R	1022158	
		HOUSING HPVR-20 2R 4R/4S	4S	1024805	
		HOUSING HPVR-20 1R 5R/5S	5S	1022158	
4	Trunnion O-Ring	O-RING AS568A-123 1.187X1.375X.103 NB 70	O	113161	2
		O-RING AS568-123 1.187X1.375X.103 V 75D	P	117514	
5	Trunnion Cap	TRUNNION CAP HPVR-20	All	1022154	2
6	Trunnion Bolts	SCR CAP HEX SCH 1/4-20X3/4	All	1022709	12
7	Case Drain Plug	PLUG SAE 12X BUNA-N HX	O-1R	259138	1
		PLUG BSPP 3/4X BUNA-N HXSKT	O-2R	258526	
		PLUG BSPP 3/4X BUNA-N HXSKT	O-4R	258526	
		PLUG SAE 12X BUNA-N HX	O-5R	259138	
		PLUG BSPP 3/4X BUNA-N HXSKT	O-4S	258526	
		PLUG SAE 12X BUNA-N HX	O-5S	259138	
		PLUG SAE 12X VITON HX ALY STL	P-1R	258264	
		PLUG BSPP 3/4 X VITON HXSKT	P-2R	260309	
		PLUG BSPP 3/4 X VITON HXSKT	P-4R	260309	
		PLUG SAE 12X VITON HX ALY STL	P-5R	258264	
		PLUG BSPP 3/4 X VITON HXSKT	P-4S	260309	
		PLUG SAE 12X VITON HX ALY STL	P-5S	258264	
8	Tag	ESC BLNK HPVR 3.12X.94X.032 AL-BLU	All	259092P	1
9	Tag Screws	SCR STICK SLFTPG #3-48X.1562 HEX HD ZINC	All	250597	2
10	Ball Bearing Retaining Ring	RING RTNG INTL 80MM DIA BORE HPVR-20	All	258333	2
11	Ball Bearing	BRNG BALL 35MM X 80MM X 21MM HPVR-20	All	258194	1
12	Shaft Key	KEY 5/16 x 5/16 x 1-1/4 HPVR-20/29	NON CODE 12	259001	1
13	Shaft	SHAFT HPVR-20 KEYED	STD	1022169	1
		SHAFT HPVR-20 KEYED	12	1022159	
		SHAFT HPVR-20 KEYED TANDEM	21	1025135	
			22		
			23		
			31		
		SHAFT HPVR-20 SPLINED TANDEM	1221	1025136	
			1222		
			1223		



			1231		
		SHAFT HPVR-20 KEYED TANDEM	21D	1025135	
			22D		
			23D		
			31D		
		SHAFT HPVR-20 SPLINED TANDEM	1221D	1025136	
			1222D		
			1223D		
			1231D		
14	Shaft Retaining Ring	RING RTNG EXT 1.375 DIA SHAFT HPVR-20	All	258292	2
15	Kicker Spring	SPR CPRSN .966X1.304X2.992 71.2LB/IN	All	258305	1
16	Kicker Sping Seat	SEAT SPRING HPVR-20	All	258991	1
17	Trunnion Bushing	BUSHING TRUNNION HPVR-20	All	1022156	2
18	Hanger	HANGER HPVR-20	All	1022273	1
19	Wear Plate	WEAR PLATE HPVR-20	All	1022271	1
20	Pluger Wear Plate	WEAR PLATE PISTON HPVR-15/HPVR-20	All	1022710	1
21	Piston	PISTON AND SHOE ASSEMBLY HPVR-20	All	1021997	9
22	Guide Plate	GUIDE PLATE HPVR-20	All	1023003	1
23	Guide Ball	GUIDE BALL HPVR-20	All	1023000	1
24	Barrel Pin	PIN DWL 3MMX32MM ALY STL HT HPVR-20	All	258106	3
25	Barrel	BARREL HPVR-20	All	1021903	1
26	Barrel Washer	WASHER BARREL HPVR-20	All	1023390	2
27	Barrel Spring	SPRING BARREL HPVR-20	All	1023016	1
28	Barrel Retaining Ring	RING RTNG INTL 1.5IN DIA BORE HPVR-20	All	1023431	1
29	Plunger	PLUNGER HPVR-20	All	258988	1
30	Guide Sleeve	GUIDE SLEEVE HPVR-20	All	258990	1
31	Port Plate	PORT PLATE HPVR-20 RF	RF	1023120	1
		PORT PLATE HPVR-20 LF	LF	1024774	
32	Port Plate Clocking Pin	PIN DWL 5MMX12MM ALY STL HDN	All	258338	1
33	Needle Bearing	BEARING NEEDLE REAR SHAFT HPVR-20B40	All	1023737	1
34	Gasket	GSKT COVER HPVR-20 ARMSTRONG S-8091 .015	All	258423	1
35	Cover	COVER HPVR-20B40 RF 1R	RF-1R	1022160	1
		COVER HPVR-20B40 RF 2R	RF-2R	1025035	
		COVER HPVR-20B40 RF 4R	RF-4R	1023729	
		COVER HPVR-20B40 RF 5R	RF-5R	1022765	
		COVER HPVR-20B40 RF 4S	RF-4S	1023728	
		COVER HPVR-20B40 RF 5S	RF-5S	1024821	
		COVER HPVR-20B40 RF 4S TANDEM	RF-4S21D	1023727	
			RF-4S22D		
			RF-4S23D		
RF-4S31D					

		COVER HPVR-20B40 RF 5S TANDEM	RF-5S21	1024827	
			RF-5S22		
			RF-5S23		
			RF-5S31		
		COVER HPVR-20B40 LF 1R	LF-1R	1025159	
		COVER HPVR-20B40 LF 2R	LF-2R	1025158	
		COVER HPVR-20B40 LF 4R	LF-4R	1025157	
		COVER HPVR-20B40 LF 5R	LF-5R	1025163	
		COVER HPVR-20B40 LF 4S	LF-4S	1025150	
		COVER HPVR-20B40 LF 5S	LF-5S	1025154	
		COVER HPVR-20B40 LF 4S TANDEM	LF-4S21D	1025161	
			LF-4S22D		
			LF-4S23D		
			LF-4S31D		
		COVER HPVR-20B40 LF 5S TANDEM	LF-5S21	1025162	
			LF-5S22		
			LF-5S23		
			LF-5S31		
36	Compensator Kits	KIT HPVR COMP STD	O-1R	261097	1
		KIT HPVR COMP CODE 7	O-1R7	261099	
		KIT HPVR COMP CODE 7 BSPP	O-2R7	261101	
		KIT HPVR COMP CODE 19	O-1R19	261103	
		KIT HPVR COMP CODE 19 BSPP	O-2R19	261105	
		KIT HPVR COMP STD CODE P	P-1ROMIT	261098	
		KIT HPVR COMP CODE 7 P	P-1R7	261100	
		KIT HPVR COMP CODE 7 P BSPP	P-2R7	261102	
		KIT HPVR COMP CODE 19 P	P-1R19	261104	
		KIT HPVR COMP CODE 19 P BSPP	P-2R19	261106	
37	Cover Bolts	SCR CAP HEX SCH M12X1.75X50	All	199717	4
38	Volume Adjuster	MAX VOLUME ADJ SCREW HPVR-20	All	199134	1
39	Thread Seal Washer	SEAL THD 1.000X.078 B 70D 750-1/2	O	258416	1
		SEAL THD 1.000X.078 V 70D 750-1/2	P	258419	
40	Volume Adjustment Nut	MAX VOLUME ADJ SCREW HPVR-20	All	1024785	1



TANDEM

41	Adaptor Cover O-Ring	O-RING AS568-042 3.239X3.379X.070 NB 70D	O-21	120689	1
			O-22		
			O-23		
			O-31		
			O-21D		
			O-22D		
			O-23D		
			O-31D		
		O-RING AS568-042 3.239X3.379X.070 V 75D	P-21	141714	
			P-22		
			P-23		
			P-31		
			P-21D		
			P-22D		
			P-23D		
			P-31D		



42	Adaptor Plate	ADAPTOR TANDEM "A" FLANGE HPVR	21	450634	1
		ADAPTOR TANDEM "B" FLANGE HPVR	22	450635	
		ADAPTOR TANDEM "C" FLANGE HPVR	23	1024756	
		ADAPTOR TANDEM "A" FLANGE HPVR	31	450634	
		ADAPTOR TANDEM "A" FLANGE HPVR	21D	450634	
		ADAPTOR TANDEM "B" FLANGE METRIC HPVR	22D	1024672	
		ADAPTOR TANDEM "C" FLANGE METRIC HPVR	23D	1025140	
		ADAPTOR TANDEM "A" FLANGE HPVR	31D	450634	
43	Adaptor Bolts	SCR CAP HEX SCH 3/8-16X1-1/2	21	1024654	2
		SCR CAP HEX SOC BTNHD 3/8-16X3/4	22	199682	2
			23		6
		SCR CAP HEX SCH 3/8-16X1-1/2	31	1024654	2
		SCR CAP HEX SCH M10X1.5X35	21D	1024674	2
		SCR CAP HEX SCH M10X1.5X20	22D	1024673	2
			23D		6
		SCR CAP HEX SCH M10X1.5X35	31D	1024674	2
44	Spline Coupling	SPLINE COUPLING HPVR-20 CODE 21	21	1024784	1
		SPLINE COUPLING HPVR-20 CODE 22/31	22	1024782	
		SPLINE COUPLING HPVR-20 CODE 23	23	1024783	
		SPLINE COUPLING HPVR-20 CODE 22/31	31	1024782	
		SPLINE COUPLING HPVR-20 CODE 21	21D	1024784	
		SPLINE COUPLING HPVR-20 CODE 22/31	22D	1024782	
		SPLINE COUPLING HPVR-20 CODE 23	23D	1024783	
		SPLINE COUPLING HPVR-20 CODE 22/31	31D	1024782	
45	Adaptor O-Ring	O-RING AS568-042 3.239X3.379X.070 NB 70D	O-21	120689	1
		O-RING AS568-151 2.987X3.193X.103 NB 70D	O-22	144929	
		O-RING AS568-250 4.984X5.262X.139 NB 70D	O-23	103999	
		O-RING AS568-042 3.239X3.379X.070 NB 70D	O-31	120689	
			O-21D		
		O-RING AS568-151 2.987X3.193X.103 NB 70D	O-22D	144929	
		O-RING AS568-250 4.984X5.262X.139 NB 70D	O-23D	103999	
		O-RING AS568-042 3.239X3.379X.070 NB 70D	O-31D	120689	
		O-RING AS568-042 3.239X3.379X.070 V 75D	P-21	141714	
		O-RING AS568-151 2.987X3.193X.103 V 75D	P-22	144966	
		O-RING AS568-250 4.984X5.262X.139 V 70D	P-23	259659	
		O-RING AS568-042 3.239X3.379X.070 V 75D	P-31	141714	
			P-21D		
		O-RING AS568-151 2.987X3.193X.103 V 75D	P-22D	144966	
		O-RING AS568-250 4.984X5.262X.139 V 70D	P-23D	259659	
		O-RING AS568-042 3.239X3.379X.070 V 75D	P-31D	141714	



46	Shipping Cover	COVER FLANGE PROTECTOR CODE 21/21D31/31D	21	147655	1
		COVER FLANGE PROTECTOR CODE 22/22D	22	164598	
		COVER FLANGE PROTECTOR CODE 23/23D	23	259356	
		COVER FLANGE PROTECTOR CODE 21/21D31/31D	31	147655	
			21D		
		COVER FLANGE PROTECTOR CODE 22/22D	22D	164598	
		COVER FLANGE PROTECTOR CODE 23/23D	23D	259356	
COVER FLANGE PROTECTOR CODE 21/21D31/31D	31D	147655			
47	Shipping Cover Retainer	NULL	21	NULL	NULL
		PLUG PLSTC CAP TPR .425X.480 W-4 RED	22	008345	2
			23		
		NULL	31	NULL	NULL
			21D		
		PLUG PLSTC CAP TPR .425X.480 W-4 RED	22D	008345	2
			23D		
NULL	31D	NULL	NULL		
48	GASKET COVER CODE 23	GASKET HPVR CODE 23	23	264168	1
			23D		

HPVR-20 Kits					
ITEM	Description				
1025391	KIT ROTATING GROUP HPVR-20 RF				
1025396	KIT ROTATING GROUP HPVR-20 LF				
1025401	KIT SEAL BUNA HPVR-20				
1025406	KIT SEAL VITON HPVR-20				