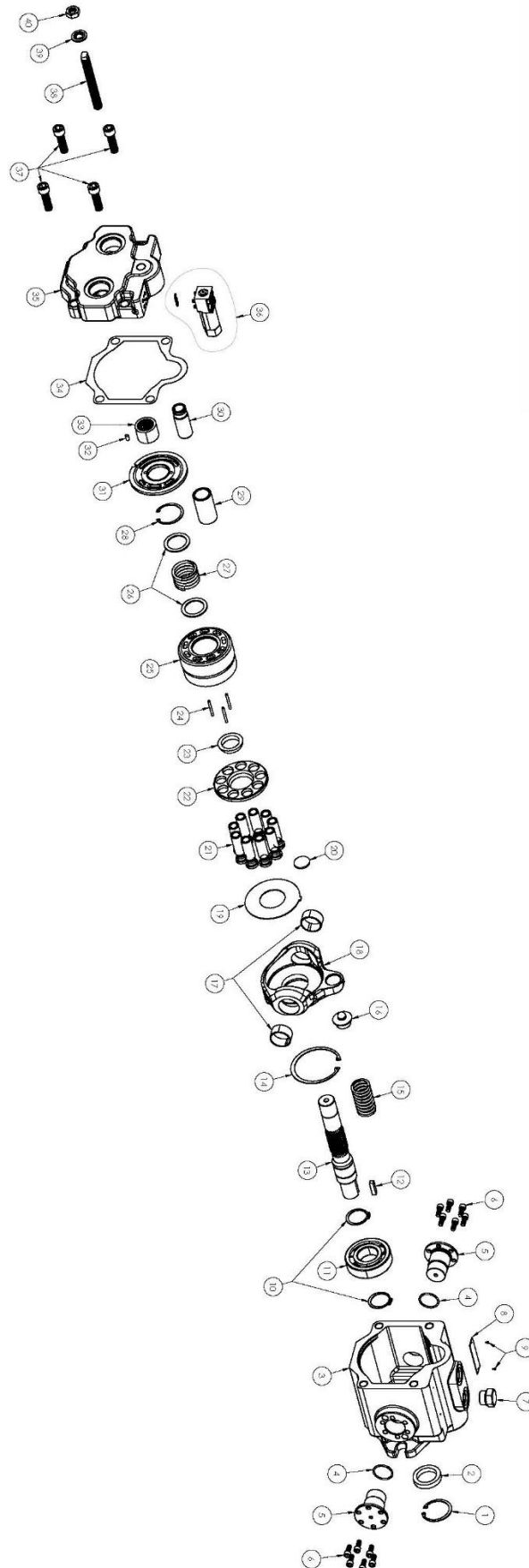


HPVR-29 Parts and Kit list



OIL SOLUTIONS

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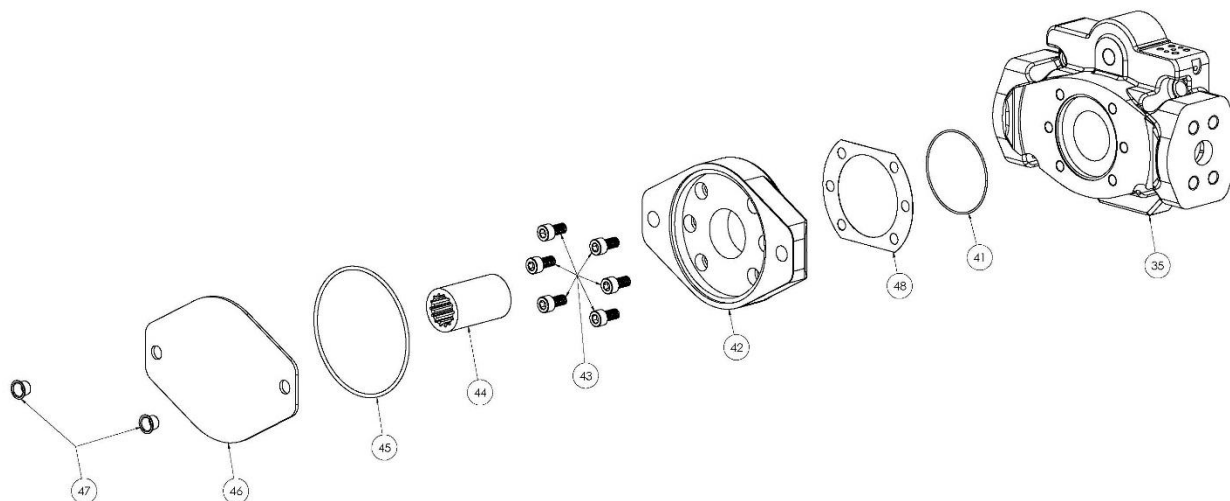


Item Number	General Description	SL8 Description	Model Code	Part Number	Qty in Pump
1	Shaft Seal Retaining Ring	RING RTNG INTL 55MM DIA BORE HPVR-20/29	All	258329	1
2	Shaft Seal	SEAL LIP 40X55X10 NB 70D BUNA HPVR-29	O	1022060	1
		SEAL LIP 40X55X10 V 70D VITON HPVR-29	P	1022418	
3	Housing	HOUSING HPVR-29 1R 5R/5S	1R	1021700	1
		HOUSING HPVR-29 2R 4R/4S	2R	1022408	
		HOUSING HPVR-29 2R 4R/4S	4R	1022408	
		HOUSING HPVR-29 1R 5R/5S	5R	1021700	
		HOUSING HPVR-29 2R 4R/4S	4S	1022408	
		HOUSING HPVR-29 1R 5R/5S	5S	1021700	
4	Trunnion O-Ring	O-RING AS568-126 1.362X1.562X.103 NB 70D	O	1021892	2
		O-RING AS568-126 1.362X1.562X.103 V 75D	P	1021893	
5	Trunnion Cap	TRUNNION CAP HPVR-29	All	1021703	2
6	Trunnion Bolts	SCR CAP HEX SCH 5/16-18X3/4	All	198258	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 90MM DIA BORE HPVR-29	All	1026153	2
11	Ball Bearing	BRNG BALL 40MM X 90MM X 23MM HPVR-29	All	1022048	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-29 KEYED	STD	1022562	1
		SHAFT HPVR-29 SPLINED	12	1021693	
		SHAFT HPVR-29 KEYED TANDEM	21	1021984	
			22		
			23		
			31		



		SHAFT HPVR-29 SPLINED TANDEM	1221	1022872	
			1222		
			1223		
			1231		
		SHAFT HPVR-29 KEYED TANDEM	21D	1021984	
			22D		
			23D		
			31D		
		SHAFT HPVR-29 SPLINED TANDEM	1221D	1022872	
			1222D		
			1223D		
			1231D		
14	Shaft Retaining Ring	RING RTNG EXT 1.45 DIA SHAFT HPVR-29	All	1026139	2
15	Kicker Spring	SPR CPRSN 1.134X1.462X3.189 HPVR-29	All	258306	1
16	Kicker Sping Seat	SEAT SPRING HPVR-29	All	258917	1
17	Trunnion Bushing	BUSHING TRUNNION HPVR-29	All	1021704	2
18	Hanger	HANGER HPVR-29 1020957	All	1021701	1
19	Wear Plate	WEAR PLATE HPVR-29	All	1022233	1
20	Pluger Wear Plate	WEAR PLATE PISTON HPVR-29	All	1023069	1
21	Piston	PISTON AND SHOE ASSEMBLY HPVR-29	All	1021695	9
22	Guide Plate	GUIDE PLATE HPVR-29	All	1021698	1
23	Guide Ball	GUIDE BALL HPVR-29	All	1021697	1
24	Barrel Pin	PIN DWL 4MMX40MM ALY STL HT HPVR-29	All	258107	3
25	Barrel	BARREL HPVR-29	All	1021692	1
26	Barrel Washer	WASHER BARREL HPVR-29	All	1026137	2
27	Barrel Spring	SPRING BARREL HPVR-29	All	1021702	1
28	Barrel Retaining Ring	RING RTNG INTL 2IN DIA BORE HPVR-29	All	1026138	1
29	Plunger	PLUNGER HPVR-29	All	258918	1
30	Guide Sleeve	GUIDE SLEEVE HPVR-29	All	258920	1
31	Port Plate	PORT PLATE HPVR-29 RF	RF	1021696	1
		PORT PLATE HPVR-29 LF	LF	1021770	
32	Port Plate Clocking Pin	PIN DWL .236X.472 ALY STL HDN	All	258339	1
33	Needle Bearing	BEARING NEEDLE REAR SHAFT HPVR-29B40	All	1023209	1
34	Gasket	GSKT COVER HPVR-29 ARMSTRONG S-8091 .015	All	258422	1
35	Cover	COVER HPVR-29B40 RF 1R	RF-1R	1023208	1
		COVER HPVR-29B40 RF 2R	RF-2R	1023529	
		COVER HPVR-29B40 RF 4R	RF-4R	1022879	
		COVER HPVR-29B40 RF 5R	RF-5R	1023530	
		COVER HPVR-29B40 RF 4S	RF-4S	N/A	
		COVER HPVR-29B40 RF 5S	RF-5S	N/A	
		COVER HPVR-29B40 RF 4S TANDEM	RF-4S21D	N/A	
			RF-4S22D		

			RF-4S23D		
			RF-4S31D		
		COVER HPVR-29B40 RF 5S TANDEM	RF-5S21	N/A	
			RF-5S22		
			RF-5S23		
			RF-5S31		
		COVER HPVR-29B40 LF 1R	LF-1R	1023528	
		COVER HPVR-29B40 LF 2R	LF-2R	1023830	
		COVER HPVR-29B40 LF 4R	LF-4R	1023833	
		COVER HPVR-29B40 LF 5R	LF-5R	1023836	
		COVER HPVR-29B40 LF 4S	LF-4S	N/A	
		COVER HPVR-29B40 LF 5S	LF-5S	N/A	
		COVER HPVR-29B40 LF 4S TANDEM	LF-4S21D	N/A	
			LF-4S22D		
			LF-4S23D		
			LF-4S31D		
		COVER HPVR-29B40 LF 5S TANDEM	LF-5S21	N/A	
			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	SHCS M14-2.0 X 50 12.9	All	199231	4
38	Volume Adjuster	MAX VOLUME ADJ SCREW HPVR-29	All	199136	1
39	Thread Seal Washer	SEAL THD 1.187X.094 NB 70D HPVR-29	O	258415	1
		SEAL THD 1.187X.094 V 70D HPVR-29	P	258437	
40	Volume Adjustment Nut	NUT HEX JAM 5/8-11	All	199136	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-29 CODE 21	21	1023637	1
		SPLINE COUPLING HPVR-29 CODE 22/31	22	1023654	
		SPLINE COUPLING HPVR-29 CODE 23	23	1023655	
		SPLINE COUPLING HPVR-29 CODE 22/31	31	1023654	
		SPLINE COUPLING HPVR-29 CODE 21	21D	1023637	
		SPLINE COUPLING HPVR-29 CODE 22/31	22D	1023654	
		SPLINE COUPLING HPVR-29 CODE 23	23D	1023655	
		SPLINE COUPLING HPVR-29 CODE 22/31	31D	1023654	
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-29 Kits	
ITEM	Description
1025392	KIT ROTATING GROUP HPVR-29 RF
1025397	KIT ROTATING GROUP HPVR-29 LF
1025402	KIT SEAL BUNA HPVR-29
1025407	KIT SEAL VITON HPVR-29