

FEL Series

STAINLESS STEEL PUMP



Soild Shaft Ø40mm

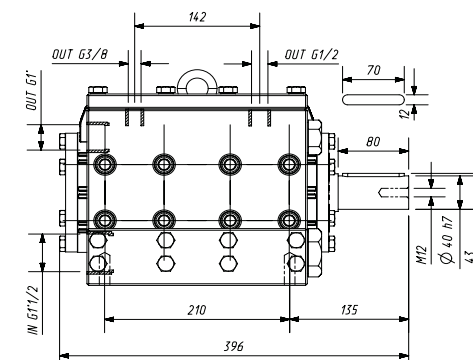
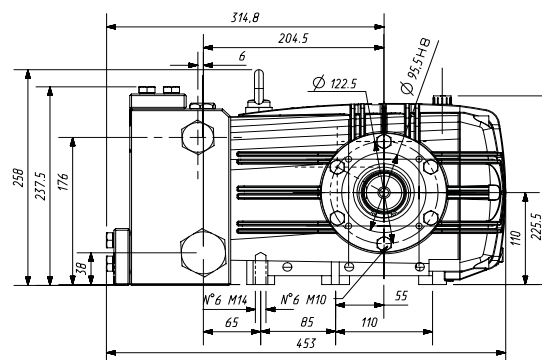
FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

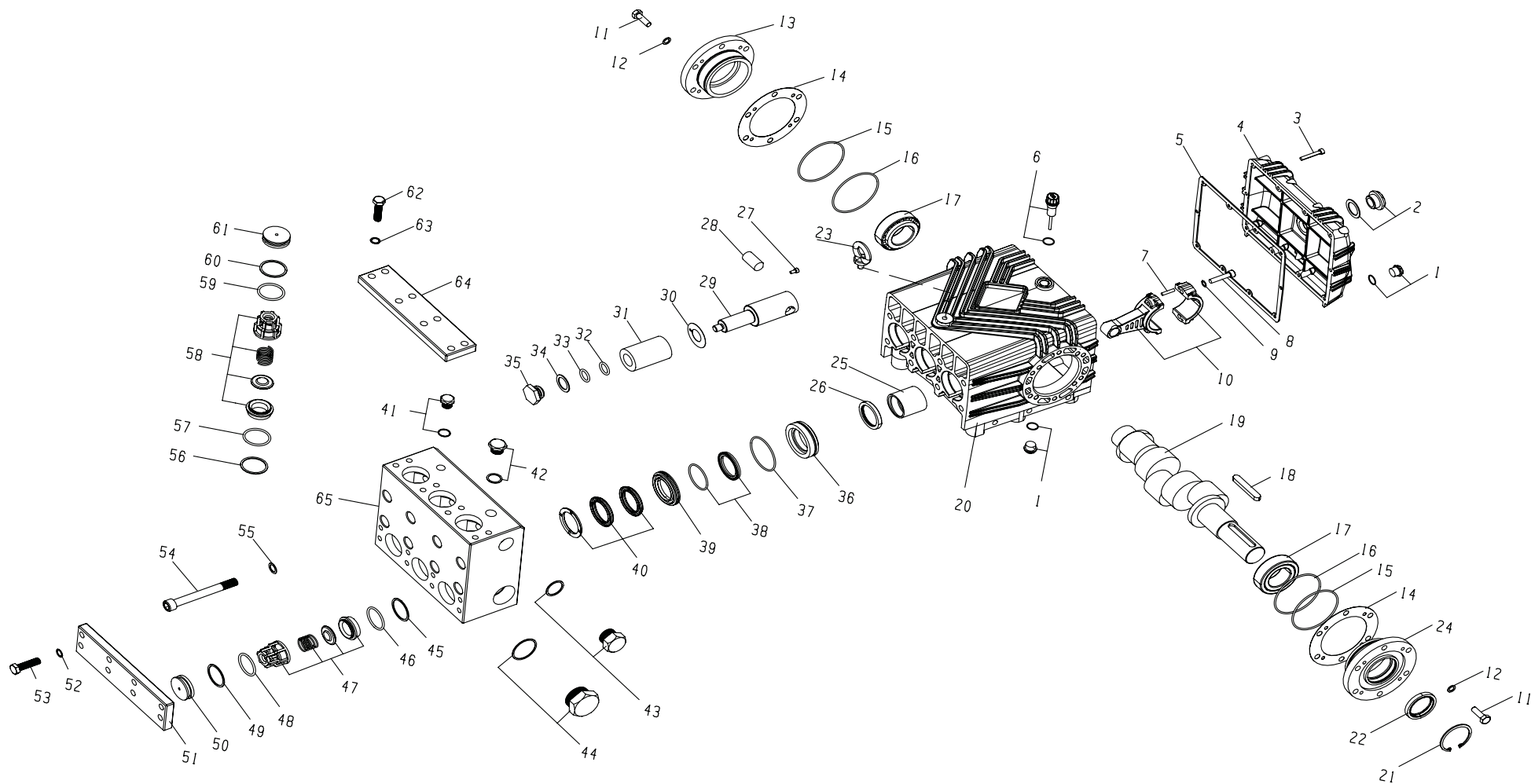
SPECIFICATIONS

Pump Model	FEL 20010	FEL 21516
Flow Rate (L/min)	200	215
Pressure (bar)	100	160
Power (kw)	38.5	66.2
RPM	1000	1000
Shaft Diameter (mm)	40	40
Plunger Stroke (mm)	42	45
Plunger Diameter (mm)	45	45
Oil Capacity (ml)	3450	3450
Inlet Thread	G 1"1/2	G 1"1/2
Outlet Thread	G 1"	G 1"
Weight (kg)	19.5	19.5
Dimensions (mm)	453x396x226	453x396x226

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	23	7.301-016	Hanging Ring	1	45	7.906-113	Inlet Valve Retaining Ring	3
2	7.906-160	Oil Sight Glass	1	24	7.906-060.1	Side Cover	1	46	7.906-049.11	Inlet Valve Seal Ring	3
3	7.301-013	Rear Cover Screw	10	25	7.906-062	Crankcase Copper Sleeve	3	47	7.906-118	Inlet Valve	3
4	7.906-011.3	Rear Cover	1	26	7.906-051.2	Crankcase Oil Seal	3	48	7.906-049.11	Inlet Valve Gland Seal Ring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	27	7.301-045	Plunger Rod Screw	6	49	7.906-114	Inlet Valve Gland Retaining Ring	3
6	7.903-035	Dipstick	1	28	7.906-033.3	Plunger Rod Pin	3	50	7.906-115	Inlet Valve Gland	3
7	7.301-014	Connecting Rod Pin	6	29	7.906-023	Plunger Rod	3	51	7.906-116	Inlet Valve Cover	1
8	7.301-020	Connecting Rod Screw	6	30	7.906-134	Water Seal Washer	3	52	7.906-148	Double Sided Tooth Gasket	8
9	7.301-031	Connecting Rod Screw Washer	6	31	7.906-003.5	Ceramic Plunger	3	53	7.301-027	Inlet Valve Cover Nut	8
10	7.906-001.2	Copper Connecting Rod	3	32	7.906-172	Plunger Seal	3	54	7.301-028	Pump Head Screw	8
11	7.301-015	End Cap Screw	12	33	7.906-172	Plunger Seal	3	55	7.906-147	Double-Sided Toothed Washer	8
12	7.906-145	End Cover Screw Washer	12	34	7.906-136	Plunger Gasket	3	56	7.906-113	Outlet Valve Retaining Ring	3
13	7.906-060	Side Cover	1	35	7.301-034	Plunger Dry Nut	3	57	7.906-049.11	Outlet Valve Seal Ring	3
14	7.906-048	Bearing Adjustment Shim	1	36	7.906-111	Copper End Cap	3	58	7.906-119	Outlet Valve	3
15	7.906-019.9	End Cover Seal	2	37	7.906-049.2	Copper End Cap Seal Ring	3	59	7.906-049.11	Outlet Valve Gland Sealing Ring	3
16	7.906-019.9	End Cover Seal	2	38	7.906-357	Low Pressure Water Seal	3	60	7.906-114	Outlet Valve Gland Retaining Ring	3
17	7.906-014.1	Bearing	2	39	7.906-112	Copper Pressure Ring	3	61	7.906-115	Outlet Valve Gland	3
18	7.906-035.2	Parallel Key	1	40	7.906-356	High Pressure Water Seal	3	62	7.301-027	Outlet Valve Cover Nut	8
19	7.906-176	Crankshaft	1	41	7.400-011	Plug	2	63	7.906-148	Serrated Washer	8
20	7.906-011.3	Crankcase	1	42	7.400-001.2	Plug	1	64	7.906-116	Outlet Valve Cover	1
21	7.906-043.1	Shaft Circlip	1	43	7.906-168	Plug	1	65	7.906-117	Stainless Steel Pump Head	1
22	7.906-051.1	Shaft Oil Seal	1	44	7.906-167	Plug	1				

REPAIR KITS

Water Seal Kit		
Index	38	40
Part Number	7.906-357	7.906-356
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Valve Kit												
Index	37	45	46	47	48	49	56	57	58	59	60	
Part Number	7.906-049.2	7.906-113	7.906-049.11	7.906-118	7.906-049.11	7.906-114	7.906-113	7.906-049.11	7.906-119	7.906-049.11	7.906-114	
Name	Copper End Cap Seal Ring	Inlet Valve Retaining Ring	Inlet Valve Seal Ring	Inlet Valve	Inlet Valve Gland Seal Ring	Inlet Valve Gland Retaining Ring	Outlet Valve Retaining Ring	Outlet Valve Seal Ring	Outlet Valve	Outlet Valve Gland Sealing Ring	Outlet Valve Gland Retaining Ring	
Quantity	3	3	3	3	3	3	3	3	3	3	3	

Oil Seal Kit	
Index	22
Part Number	7.906-051.1
Name	Shaft Oil Seal
Quantity	1

26
7.906-051.2
Crankcase Oil Seal
3

Plunger Kit	
Index	31
Part Number	7.906-003.5
Name	Ceramic Plunger
Quantity	3

FEL Series

STAINLESS STEEL PUMP



Soild Shaft Ø40mm

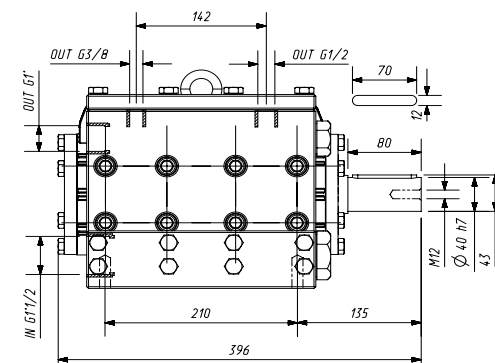
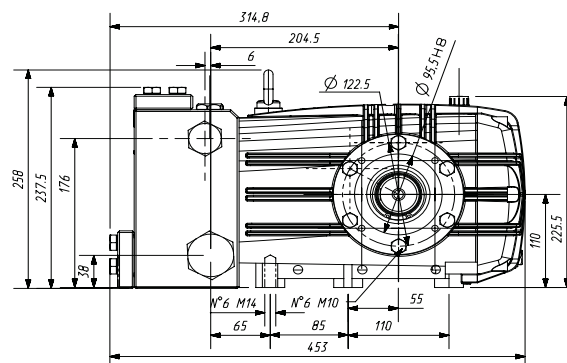
FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
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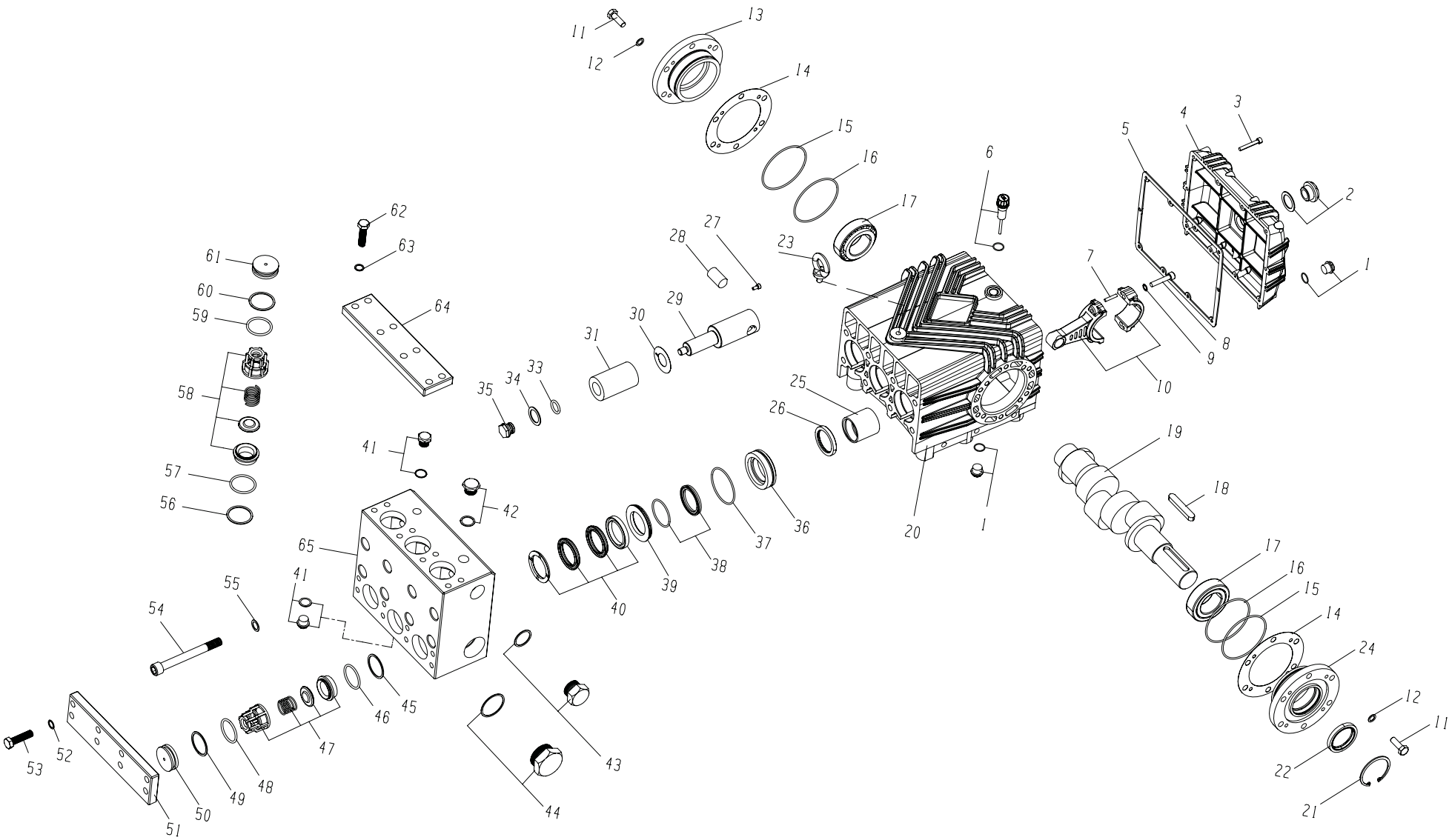
SPECIFICATIONS

Pump Model	FEL 7535	FEL 10020	FEL 13022	FEL 16018
Flow Rate (L/min)	75	100	130	160
Pressure (bar)	350	200	220	180
Power (kw)	50.5	38.5	55	55.4
RPM	1000			
Shaft Diameter (mm)	40			
Plunger Stroke (mm)	42	35	42	42
Plunger Diameter (mm)	28	36	36	40
Oil Capacity (ml)	3450			
Inlet Thread	G 1"1/2			
Outlet Thread	G 1"			
Weight (kg)	70.5			
Dimensions (mm)	453x396x226			

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	23	7.301-016	Hanging Ring	1	45	7.906-113	Inlet Valve Retaining Ring	3
2	7.906-160	Oil Sight Glass	1	24	7.906-060.1	Side Cover	1	46	7.906-049.11	Inlet Valve Seal Ring	3
3	7.301-013	Rear Cover Screw	10	25	7.906-062	Crankcase Copper Sleeve	3	47	7.906-118	Inlet Valve	3
4	7.906-011.3	Rear Cover	1	26	7.906-051.2	Crankcase Oil Seal	3	48	7.906-049.11	Inlet Valve Gland Seal Ring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	27	7.301-045	Plunger Rod Screw	6	49	7.906-114	Inlet Valve Gland Retaining Ring	3
6	7.903-035	Dipstick	1	28	7.906-033.3	Plunger Rod Pin	3	50	7.906-115	Inlet Valve Gland	3
7	7.301-014	Connecting Rod Pin	6	29	7.906-023	Plunger Rod	3	51	7.906-116	Inlet Valve Cover	1
8	7.301-020	Connecting Rod Screw	6	30	7.906-134	Water Seal Washer	3	52	7.906-148	Double Sided Tooth Gasket	8
9	7.301-031	Connecting Rod Screw Washer	6	31	7.906-003.5	Ceramic Plunger	3	53	7.301-027	Inlet Valve Cover Nut	8
10	7.906-001.2	Copper Connecting Rod	3	33	7.906-172	Plunger Seal	3	54	7.301-028	Pump Head Screw	8
11	7.301-015	End Cap Screw	12	34	7.906-136	Plunger Gasket	3	55	7.906-147	Double-Sided Toothed Washer	8
12	7.906-145	End Cover Screw Washer	12	35	7.301-034	Plunger Dry Nut	3	56	7.906-113	Outlet Valve Retaining Ring	3
13	7.906-060	Side Cover	1	36	7.906-111	Copper End Cap	3	57	7.906-049.11	Outlet Valve Seal Ring	3
14	7.906-048	Bearing Adjustment Shim	1	37	7.906-049.2	Copper End Cap Seal Ring	3	58	7.906-119	Outlet Valve	3
15	7.906-019.9	End Cover Seal	2	38	7.906-357	Low-Pressure Water Seal	3	59	7.906-049.11	Outlet Valve Gland Sealing Ring	3
16	7.906-019.9	End Cover Seal	2	39	7.906-112	Copper Pressure Ring	3	60	7.906-114	Outlet Valve Gland Retaining Ring	3
17	7.906-014.1	Bearing	2	40	7.906-356	High Pressure Water Seal	3	61	7.906-115	Outlet Valve Gland	3
18	7.906-035.2	Parallel Key	1	41	7.400-011	Plug	2	62	7.301-027	Outlet Valve Cover Nut	8
19	7.906-176	Crankshaft	1	42	7.400-001.2	Plug	1	63	7.906-148	Serrated Washer	8
20	7.906-011.3	Crankcase	1	43	7.906-168	Plug	1	64	7.906-116	Outlet Valve Cover	1
21	7.906-043.1	Shaft Circlip	1	44	7.906-167	Plug	1	65	7.906-117	Stainless Steel Pump Head	1
22	7.906-051.1	Shaft Oil Seal	1								

REPAIR KITS

Water Seal Kit		
Index	38	40
Part Number	7.906-357	7.906-356
Name	Low-Pressure Water Seal	High-Pressure Water Seal
Quantity	3	3

Valve Kit												
Index	37	45	46	47	48	49	56	57	58	59	60	
Part Number	7.906-049.2	7.906-113	7.906-049.11	7.906-118	7.906-049.11	7.906-114	7.906-113	7.906-049.11	7.906-119	7.906-049.11	7.906-114	
Name	Copper End Cap Seal Ring	Inlet Valve Retaining Ring	Inlet Valve Seal Ring	Inlet Valve	Inlet Valve Gland Seal Ring	Inlet Valve Gland Retaining Ring	Outlet Valve Retaining Ring	Outlet Valve Seal Ring	Outlet Valve	Outlet Valve Gland Sealing Ring	Outlet Valve Gland Retaining Ring	
Quantity	3	3	3	3	3	3	3	3	3	3	3	

Oil Seal Kit	
Index	22
Part Number	7.906-051.1
Name	Shaft Oil Seal
Quantity	1

26
7.906-051.2
Crankcase Oil Seal
3

Plunger Kit	
Index	31
Part Number	7.906-003.5
Name	Ceramic Plunger
Quantity	3