

Plunger Pumps

FEATURING

MANIFOLD: High strength forged brass or nickel plated for long term use.

BOLTS: Eight 8mm grade 8.8.

PLUNGERS: A special thick solid ceramic for long life, strong durability and more resilience.

CRANKCASE: Precision die-cast, large cooling fins and anodized for maximum heat dissipation. Sight glass, fill and side and bottom drain plugs.

BEARINGS: Oversized tapered roller bearing for maximum life and load distribution.

BEARINGS SUPPORTS: Precision die-cast and machined to assure concentricity and alignment.

VALVES, SEATS, AND SPRINGS: Stainless steel with specially designed Ultra Form cages to provide long life and positive seating.

SEALS AND V-PACKINGS: Continuously lubricating for extended life.

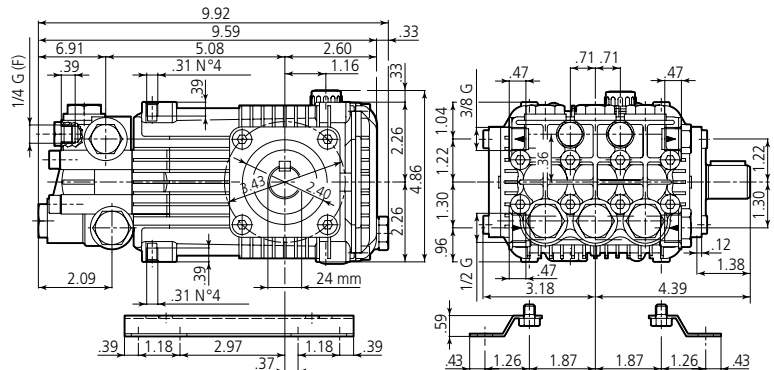
PLUNGER RODS: Stainless steel construction for strength, no plating to scrape off, back-up and o-ring plunger sealing system.

CONNECTING RODS: One piece special alloy aluminum or bronze for higher pressure, oversized for maximum strength, load disbursement, and long life. Heavy pin area construction, for added load strength.

DIMENSIONS



RK

N version
Solid shaft pump / ø 24 mm

SPECIFICATIONS

MODEL	MAX GPM	MAX LMP	MAX PSI	MAX BAR	POWER EBHP	BORE DIA MM	STROKE MM	CRANKSHAFT ID STAMP	WEIGHT LBS.
RK11.14N	2.9	11	2000	140	4.0	18	10.8	5	19
RK11.20HN	2.9	11	2900	200	5.5	18	10.8	5	20
RIK13.12N	3.43	13	1740	120	4.0	18	12.8	3	19
RIK13.20HN	3.43	13	2900	200	7.5	18	12.8	3	20
RK14.15N	3.7	14	2300	160	5.5	18	13.8	2	19
RK15.15N	3.96	15	2200	1500	5.5	18	14.6	1	19
RK15.20HN	3.96	15	2900	200	7.5	18	14.6	1	19
RK15.28HN	3.96	15	4000	275	11.00	18	14.6	1	20
RK18.20HN	4.75	18	2900	200	10.0	20	14.6	1	20
RK18.28HN	4.75	18	4000	275	13.3	20	14.6	1	20
RK21.20HN	5.55	21	2900	200	11.0	22	13.8	2	20

Oil Capacity = 15.3 oz

Maximum Fluid Temperature = 140° F

Inlet Thread = 1/2" F

Discharge Thread = 3/8" F

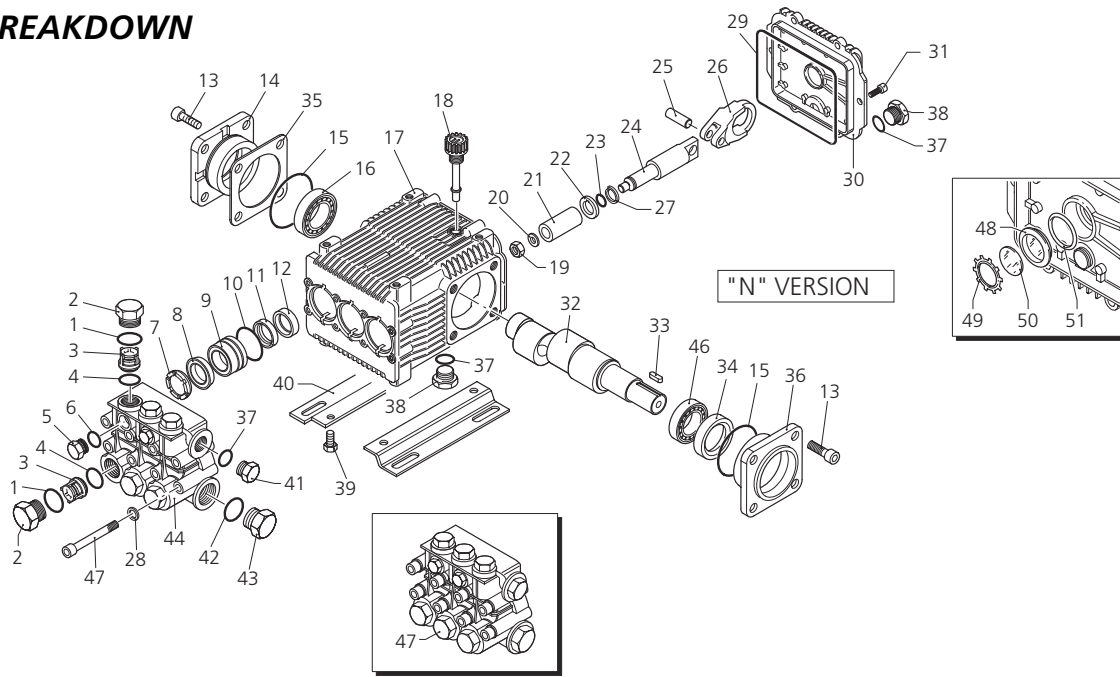
Torque Specifications Inch pounds (ft. lbs)

HEAD	PISTON NUT	REAR COVER	SIDE COVER	VALVE CAP	CON RODS
217 (18)	106 (8.8)	89 (7.5)	217 (18)	478 (40)	N/A

SPECIAL NOTE: Use AR64516 Oil. First change oil after 50 hours of use. Then every 500 hours. This oil is specially formulated to provide correct lubrication properties for our pumps. **No** other oil is factory approved for these pumps.



PARTS BREAKDOWN



Pos.	Code	Description	Qty.	Pos.	Code	Description	Qty.	Legend			
1	960160	O-Ring	6	29	1780510	O-Ring	1	Ø 18	Ø 18	Ø 20	Ø 22
2	960090	Plug RK	6	30	1789010	Complete cover	1	For ○	For □	For ▼	For ◆
3	960850	Plug RKH*	6	31	1343510	Screw	6	RK11.14	RK13.12	RK18.12	RK21.10
4	1380740	Plug RKH	6	32	2280100	Crankshaft	○ 1	RK11.20H	K13.17	RK18.16H	RK21.15H
5	1389051	Complete valve	6	33	2280080	Crankshaft	□ 1	RK11.25H*	RK13.20H	RK18.20H	RK21.20H
6	880830	O-Ring	6	34	2280070	Crankshaft	◆ 1		RK18.28H*		
7	880581	Plug 1/4" G RK	2	35	2280060	Crankshaft	▼ 1	For ●	For ■		
8	1380690	Plug 1/4" G Nickel RKH-H*	2	36	1380520	Key	1	RK15.15	RK14.16		
9	820510	O-Ring	2	37	180340	Seal	1	RK15.20H			
10	960110	Support ring Ø18	○ □ ◆ 3	38	1380120	0,10 mm shim	1-3	RK15.25H*			
11	840300	Support ring Ø20	▼ 3	39	1380130	0,20 mm shim	1-3	RK15.28H*			
12	840320	Support ring Ø22	◆ 3	40	1380530	0,25 mm shim	1-3				
13	880320	Gasket Ø18	○ □ ◆ 3	41	1382810	0,05 mm shim	1-3				
14	840290	Gasket Ø20	▼ 3	42	1380040	Open bearing sup.	1				
15	840330	Gasket Ø22	◆ 3	43	740290	O-Ring	3				
16	1380090	Piston guide Ø18	○ □ ◆ 3	44	1980740	Plug 3/8" G	2				
17	1380150	Piston guide Ø20	▼ 3	45	1260470	Screw	4				
18	1380160	Piston guide Ø22	◆ 3	46	1380141	Base	2				
19	961240	O-Ring	3	47	1980740	Plug 3/8" G RK	1				
20	880330	Gasket Ø18	○ □ ◆ 3	48	1981180	Plug 3/8" G Nickel RKH-H*	1				
21	840280	Gasket Ø20	▼ 3	49	180101	O-Ring	1				
22	840340	Gasket Ø22	◆ 3	50	820361	Plug 1/2" G RK	1				
23	1383130	Seal	3	51	960870	Plug 1/2" G Nickel RKH-H*	1				
24	850370	Screw	4		1381071	Pump head Ø18 RK	1				
25	1380050	Bearing support	1		1381070	Pump head Ø18 RKH-H*	1				
26	640030	O-Ring	1		1380020	Pump head Ø20-22 RK	1				
27	2280240	Bearing	1		1380680	Pump head Ø20-22 RKH-H*	1				
28	1382770	Pump housing	1		820150	Screw	8				
29	880130	Oil cap	3		840370	Bearing	1				
30	962010	Nut	3		1389270	Pump head assem Ø18 RK	1				
31	962000	Washer	3		1389272	Pump head assem Ø18 RKH	1				
32	1380940	Ceramic piston Ø18	○ □ ◆ 3		1389271	Pump head assem Ø18 RKH*	1				
33	1380930	Ceramic piston Ø20	▼ 3		1389208	Pump head assem Ø20 RK	1				
34	1382360	Ceramic piston Ø22	◆ 3		1389212	Pump head assem Ø20 RKH	1				
35	1380950	Spacer	3		1389216	Pump head assem Ø22 RK	1				
36	600180	O-Ring	3		1389220	Pump head assem Ø22 RKH	1				
37	1380920	Guiding piston	3		48	1260250	Oil indicator	1			
38	1380060	Piston pin	3		49	1260430	Snap ring	1			
39	1383050	Aluminum con rod	3		50	1780690	Disc	1			
40	1383020	Bronze con rod	3		51	1140450	O-Ring	1			
41	1080401	Ring	3								
42	1381850	Washer	8								

Legend

Ø 18	Ø 18	Ø 20	Ø 22
For ○	For □	For ▼	For ◆
RK11.14	RK13.12	RK18.12	RK21.10
RK11.20H	K13.17	RK18.16H	RK21.15H
RK11.25H*	RK13.20H	RK18.20H	RK21.20H
	RK18.28H*		
For ●	For ■		
RK15.15	RK14.16		

*over 3600 psi

Repair Kits

Water Seal	Valve	Pistons	Oil Seals
Kit 1857 Ø18		Kit 2546 Ø18	
Kit 1887 Ø20		Kit 2547 Ø20	
Kit 1888 Ø22		Kit 2759 Ø22	
Pos. Qty.	Kit 2864	Pos. Qty.	Kit 1855
8 3	Pos. Qty.	19 3	Pos. Qty.
10 3	3 6	20 3	12 3
11 3	4 6	21 3	15 2
		22 3	29 1
		23 3	34 1
		27 3	
Support Rings			
Kit 1829 Ø18			
Kit 1815 Ø20			
Kit 1816 Ø22			
Pos. Qty.			
7 3			

Special Parts

Code	Description	Qty.
2819	Kit for up to 180° F Ø18 High Temp	1
2820	Kit for up to 180° F Ø20 High Temp	1
2809	Viton water seals Ø18	1
2810	Viton water seals Ø20	1
2811	Viton water seals Ø22	1