



Quality Mud Pumps and Parts

Oil & Gas Products Division



MUD PUMP EXPENDABLES

About Our Company

American Mfg Co is proud to be the leading AMERICAN manufacturer of drilling mud-pumps and replacement parts in the industry.

AMERICAN Made

Located in the Minnesota heartland, American Mfg Co's state of the art factory utilizes cutting edge CNC machining centers and lathes, state-of-the-art CMM quality control machines, and an experienced work force to manufacture the highest quality mud-pump replacement parts for the Water-Well, Geothermal, Mineral Exploration, and Oil & Gas well drilling industries.

AMERICAN Proud

American Mfg Co is the only US Manufacturer of Oil & Gas drilling mud-pump spares to hold both API 7-K and ISO 9001 certificates, a fact in which we take great pride. Furthermore, every product that we manufacture is guaranteed to be completely identical (with regards to fit, form and function) with the OEM part it is designed to replace; and AT LEAST equal quality, or we'll replace the part at no additional cost to you or your customer.

AMERICAN MFG CO.

Our experienced Engineering and technical staff is able to take any sample piece which you provide us, legally reverse engineer it, and begin producing it for you (and you alone) in a matter of weeks. With our large array of 30 CNC lathes and mills, 5 extruders and presses, 5 manual machines for small-scale specialty items, and industrial heat-treating ovens and chillers we're able to handle virtually every product you or your customer could need.

Since we opened our doors in 1990, our mission has been to produce the highest quality product at the most economical prices possible giving our distributors the absolute highest value product in the marketplace. After almost 25 years in the business, we're proud to remain: AMERICAN Made, AMERICAN Proud, AMERICAN MFG CO.



MUD PUMP EXPENDABLES

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American Mfg. Co.

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Introduction



Steel Liners

American Mfg Co bi-metallic high-chrome sleeved liners are becoming the new standard for the industry. Manufactured under API 7-K and ISO 9001 certificates and guaranteed to be 100% identical (with regard to fit, form, and function) with the OEM liner it is designed to replace and AT LEAST equal quality. We subject our AMERICAN liners to over 4 rigorous quality control inspections during the manufacturing process beginning from raw material to finished product checking all aspects of material integrity, chromium % of sleeve, critical machined dimensions and sleeve fit. Why do we obsess over our quality so much? So you and your customer don't have to. You know that when you're using an AMERICAN liner, there's no better option for your pump. Our bi-metallic high chrome liner consists of the industry standard steel (forged or tubing) outer shell and centrifugally-spun high chrome sleeve. AMERICAN liners are CNC machined complete, sleeve shrink fit, and honed at our API 7-K and ISO 9001 certified factory in St. Joseph, MN, ensuring complete interchangeability with the OEM and unmatched quality. American liners are all manufactured HP style with "stop collars" to prevent sleeve slippage during use.

- Premium forged industry standard steel shells
- .2" thick high chrome white iron honed sleeve
- 64-69 RC hardness on chrome sleeve
- HP Stop Collars eliminates risk of sleeve slippage
- Service life of over 800 hours



Zirconia Liners

For the harshest drilling conditions; American Mfg is now offering a premium Zirconia-Ceramic sleeved HP-style liner. Zirconia ceramic's wear and heat-resistant properties are unmatched by any other liner sleeve material available in today's marketplace. Although 20% more expensive than "standard" Alumina-ceramic liners; Zirconia-ceramic sleeved liners have been shown to last THREE TIMES AS LONG during drilling operations. Not only will your liners last longer, but running AMERICAN Zirconia-sleeved liners in your pump will double the life of your piston (as compared with standard chrome-sleeved liner).

- Premium forged industry standard steel shells
- 91-95 RC hardness on zirconia sleeve
- HP Stop collars eliminate risk of sleeve slippage
- Service life of over 4,000 hrs.





Introduction



Blue Eagle Dual-Duro Pistons

American Mfg. Co bonded dual durometer urethane pistons are perfect for use in either oil-based or water-based mud. These bonded pistons are able to withstand all but the most extreme of temperatures and operating pressure. Unlike our competitors, who sell other manufacturer's pistons private labeled as their brand; we keep every process in the manufacturing of the piston in-house. Our forged steel hubs are machined at our factory in Minnesota and then shipped to our molded products factory in Houston, TX where the urethane is compounded and bonded to the hub itself.

- Perfect for all drilling operations
- Temperature ranges from 180F to 300F
- Pressure ranges from 6,300 PSI to 7,500 PSI
- Extended service life



Introduction

Replaceable Rubber Pistons

AMERICAN brand replaceable rubber pistons are composed of AMERICAN molded nitrile rubber inserts and AMERICAN manufactured piston hubs. Just like our urethane bonded pistons, we complete every step of the manufacturing process for both hub and piston rubber in-house. Our forged steel hubs are machined at our API 7-K and ISO 9001 certified factory in Minnesota, and the rubber inserts are formed and pressed at our Houston, TX molded products factory. Our replaceable rubber pistons and inserts are based off of the industry standard "Mission-Supreme" style; our inserts will fit all competitors' piston hubs that are interchangeable with the OEM.

- Rated for all drilling operations
- Perfect for high temperature drilling operations of up to 250F
- Max recommended pressure for replacement rubber of 2,500 PSI



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Introduction

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Piston Rods

AMERICAN brand piston rods are manufactured at our API 7-K and ISO 9001 certified factory from one piece heat treated solid steel bar stock and then CNC precision machined to provide long-life and unequaled dependability.

- Made from only the highest grade alloy steel
- Machined on state of the art CNC lathes
- Offered in both clamp and threaded style



Extension Rods

AMERICAN brand extensions rods are manufactured at our API 7-K and ISO 9001:2008 certified factory in Minnesota. Made from high quality alloy steel these AMERICAN made rods offer unrivaled resistance to corrosion and stress.

- Made from only the highest grade alloy steel
- Machined on state of the art CNC Lathes at American Manufacturing
- Offered in both clamp and threaded style
- Offered in both chrome plated and hardened steel surfaces





Introduction



Full Open Valves

American Manufacturing's line of Full-Open Roughneck-style valves are manufactured from one-piece forgings of alloy steel, which is machined at our API 7-K and ISO-9001 factory in Minnesota. The urethane inserts are manufactured and the complete valve assembled at our Houston, TX molded products factory.

- Full control of manufacturing processes as both valve body and insert are manufactured in-house
- Highly carborized wear surfaces
- One piece forged valve body provides superior strength and longer run times at an economical cost
- Valve bodies are equipped with removable nut to facilitate replacement of insert only if needed.
- Full line of associated springs, inserts, nuts and washers available.



3 Web and 4 Web Valves and Seats

American Manufacturing's line of 3-web and 4-web valves and seats are manufactured from one-piece forgings of alloy steel, which is machined at our API 7-K and ISO-9001 factory in Minnesota. The urethane inserts are manufactured and the complete valve assembled at our Houston, TX molded products factory.

- Full control of manufacturing processes as both valve body and insert are manufactured in-house
- Highly carborized wear surfaces
- One piece forged valve body provides superior strength and longer run times at an economical cost
- Valve bodies are equipped with removable nut to facilitate replacement of insert only if needed.
- Full line of associated springs, inserts, nuts and washers available.





Introduction



Modules

AMERICAN brand fluid end modules are setting the standard for the drilling industry with their unequaled combination of quality and affordability. Manufactured out of premium forged alloy steel, heat-treated to ensure durability, machined in state-of-the-art CNC vertical lathes and machining centers under API 7-K and ISO 9001 certificates; AMERICAN brand modules provide the best value dollar for dollar in the industry. All modules are quality control inspected on CMM laser-node equipment to ensure exact adherence to tolerance and design specs. American Manufacturing offers both EMSCO and Asian style modules for the popular HHF/Bomco design.

- All fluid end modules completely compatible and interchangeable with OEM or Asian style pumps
- Machined in CNC vertical lathes and CNC boring mills under API 7-K and ISO 9001 certs at Minnesota factory
- Each piece inspected by both CMM machine and experienced QC technician.
- Offered in both valve over valve or two piece L-shaped configurations
- Offered in both 5,000 PSI and 7,500 PSI configurations

AMERICAN brand fluid end module jewelry is available in both OEM and Asian style. Large CNC machined runs of these products insure absolute uniformity and conformity with original spare part.

- EMSCO and HHF/Bomco style lower valve guide
- Valve and Cylinder covers
- Liner lock nuts, wear plates and threaded rings
- Module Studs Sets



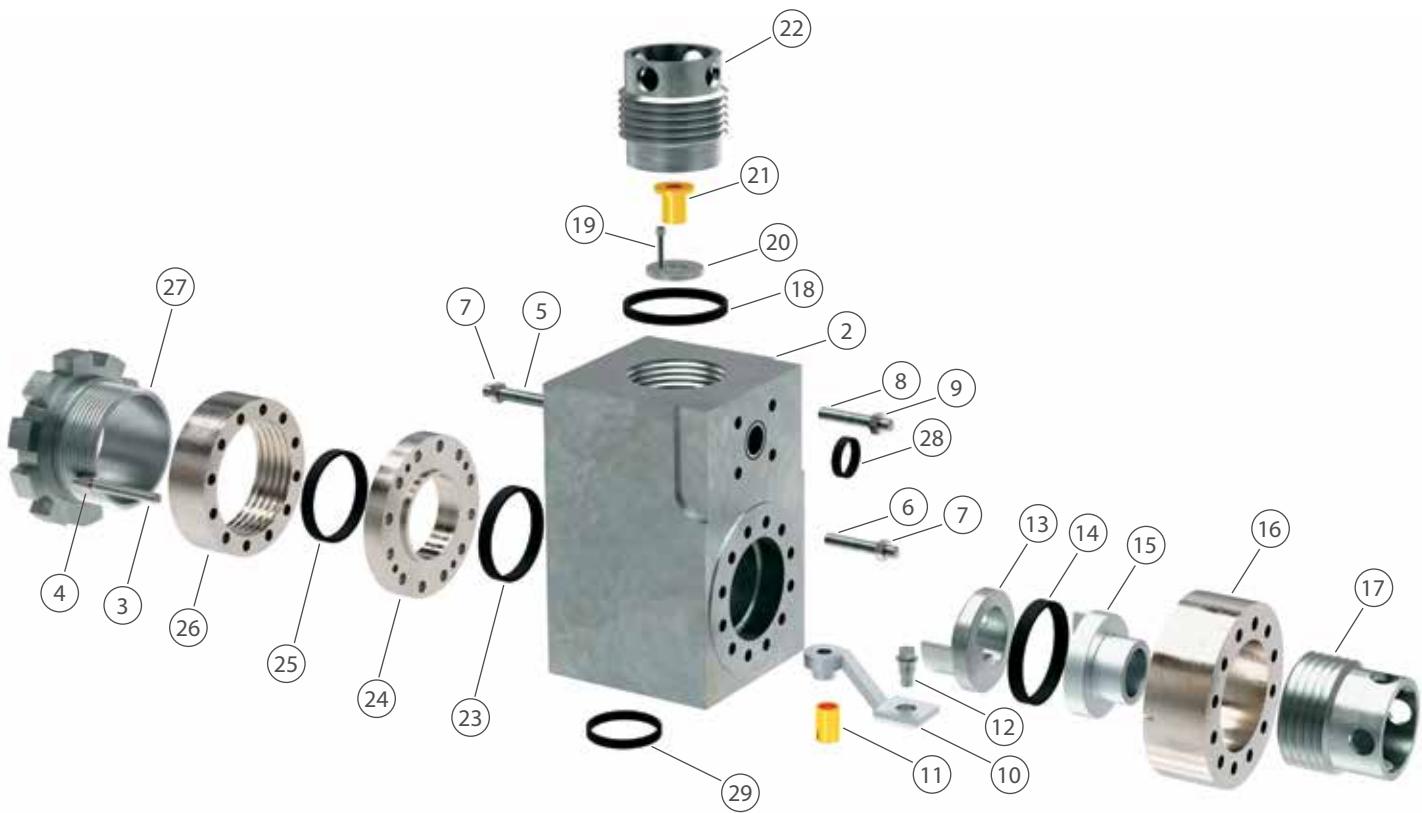
Product Overview

Module Diagrams and Parts Tables





Emsco FB13/1600 Module Exploded View



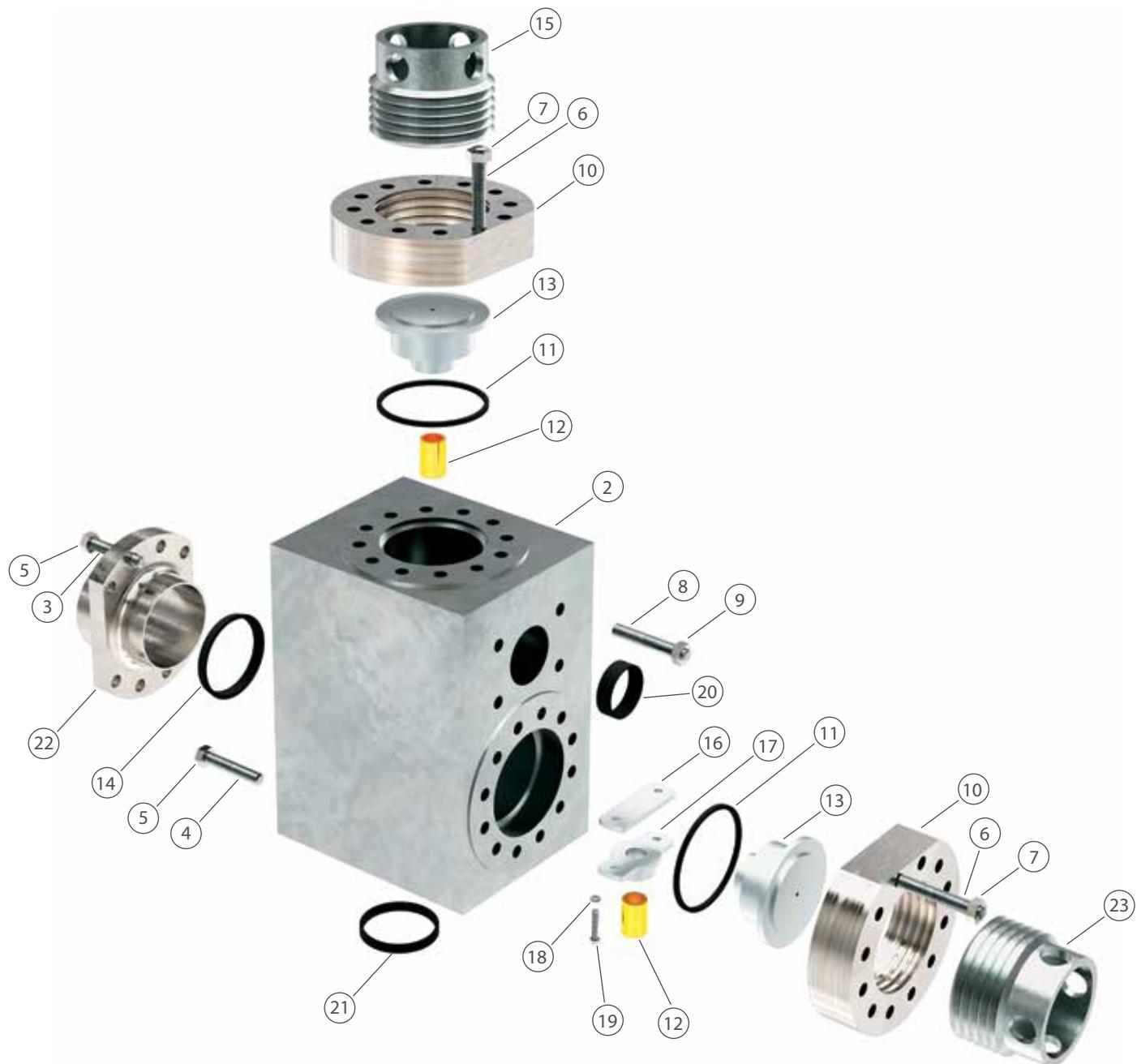
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MUD PUMP EXPENDABLES

ITEM	PART NUMBER	DESCRIPTION	QTY PER PUMP
1	PPES 6316-0357-00	FLUID END, STUDDED FB1300/1600 (INCL 2-9)	3
2	PPES 6316-0356-00	FLUID END, FB1300/1600	3
3	PPES 7507-2013-00	STUD, MODULE TO LINER CLAMP	36
4	PPES 7601-0610-18	NUT, LINER CLAMP STUD	36
5	PPES 7507-2201-00	STUD, POWER FRAME	18
6	PPES 7507-2210-00	STUD, MODULE TO CYLINDER	30
7	PPES 7601-0630-17	NUT, MODULE TO CYLINDER STUD	48
8	PPES 7507-2108-00	STUD, MODULE TO DISCHARGE MANIFOLD	12
9	PPES 7601-0630-24	NUT, MODULE TO DISCHARGE MANIFOLD STUD	12
10	PPES 6316-0354-00	LOWER VALVE GUIDE AND BUSHING FB-1300/1600	3
11	PPES 6316-0096-00	VALVE GUIDE BUSHING, LOWER FB1300/1600	3
12	PPES 6316-0360-00	LOCK BOLT (VALVE GUIDE) FB1300/1600	3
13	PPES 6316-0363-00	ALIGNMENT RING, FB1300/1600	3
14	PPES 6316-0369-00	GASKET, CYLINDER HEAD/LINER SEAL	3
15	PPES 6316-0364-00	CYLINDER HEAD PLUG, FB1300/1600	3
16	PPES 6316-0361-00	CYLINDER HEAD RING, FB1300/1600	3
17	PPES 6316-0362-00	CAP, CYLINDER HEAD THREADED FB1300/1600	3
18	PPNO 07916741	GASKET, VALVE COVER FB1300/1600	3
19	PPES 7501-0051-00	RETAINER SCREW, FB1300/1600	12
20	PPES 6397-0603-00	VALVE GUIDE RETAINER, FB1300/1600	3
21	PPES 6397-0575-00	UPPER VALVE GUIDE, FB1300/1600	3
22	PPES 6316-0039-00	VALVE POT COVER, FB1300/1600	3
23	PPNO 07916800	GASKET, WEAR PLATE FB1300/1600	3
24	PPES 6316-0365-00	WEAR PLATE, FB1300/1600	3
25	PPNO 07916700	GASKET, LINER FB1300/1600	3
26	PPES 6316-0366-00	LINER THREADED RING, FB1300/1600	3
27	PPES 6316-0367-20	LINER LOCK, FB1300/1600	3
28	PPES 7602-1600-25	O-RING, DISCHARGE MANIFOLD FB1300/1600	3
29	PPES 7602-1600-61	O-RING, SUCTION MANIFOLD FB13/1600	3

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Gardner Denver PZ10/11 Module Exploded View



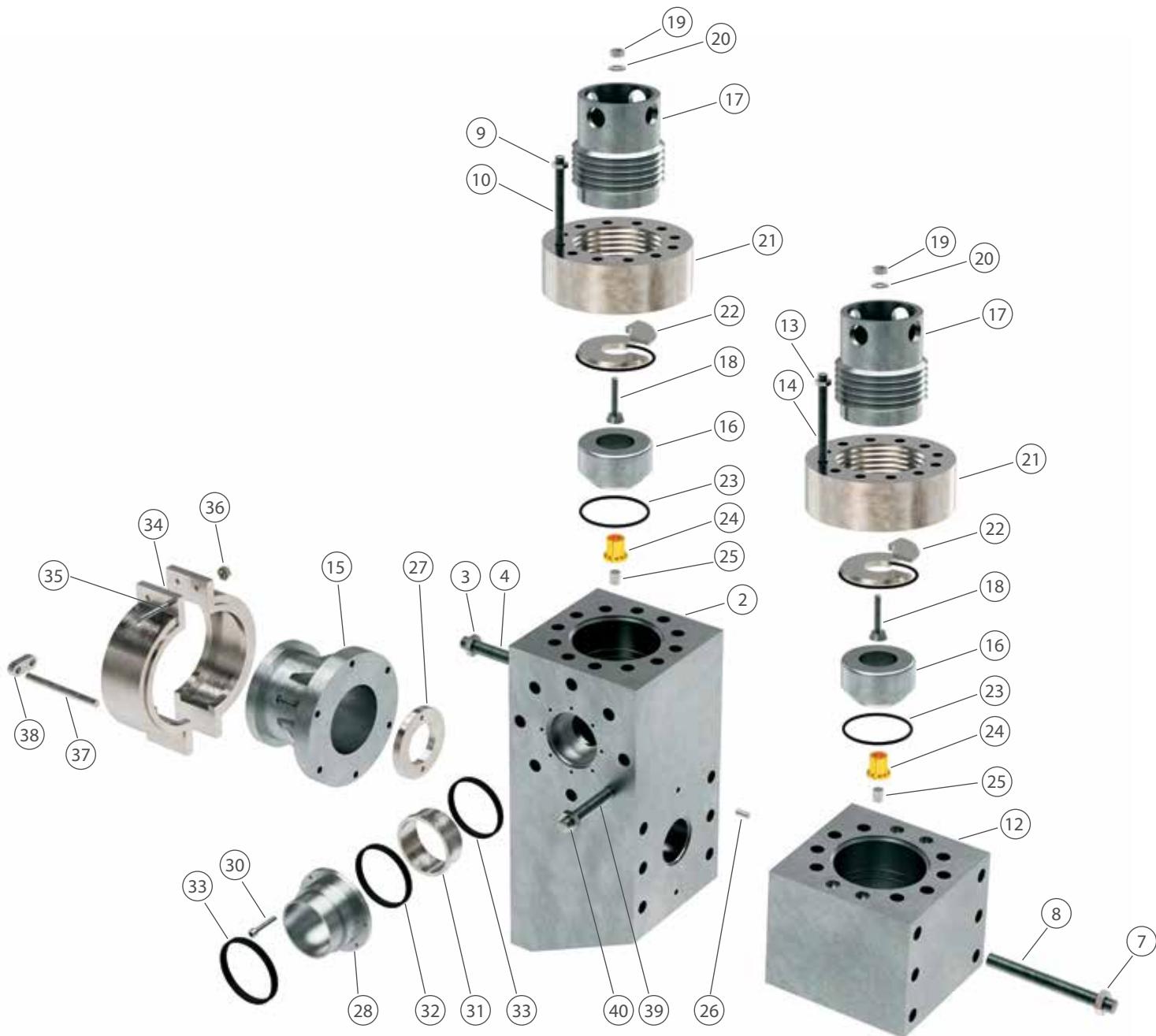
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MUD PUMP EXPENDABLES

ITEM	PART NUMBER	DESCRIPTION	QTY PER PUMP
1	PPGD 202PZL029B	FLUID END MODULE STUDDED (INCL ITEM 2-9)	3
2	PPGD 202PZL029	FLUID END MODULE UNSTUDDED PZ10/11	3
3	PPGD 201PZL110	STUD (LONG) CYLINDER TO FRAME	24
4	PPGD 205PZL110	STUD (SHORT) CYLINDER TO FRAME	24
5	PPGD 50B36	NUT	72
6	PPGD 204PZL110	STUD, VALVE COVER RING TO FRAME	72
7	PPGD 50B34	NUT	72
8	PPGD 202PZL110	STUD, CYLINDER TO DISCHARGE MANIFOLD	12
9	PPGD 50B34	NUT	12
10	PPGD 200PZL387	RING, THREADED VALVE COVER PZ10/11	6
11	PPGD 204PZL715	VALVE COVER GASKET, HEAD GASKET	6
12	PPGD 2007674	BUSHING, SUCTION&DISCHARGE	6
13	PPGD 200PZL147	PLATE, VALVE COVER	6
14	PPGD 25AT37	LINER GASKET	3
15	PPGD 301PZL587	LOCK COVER	6
16	PPGD 2011701	VALVE GUIDE PLATE	3
17	PPGD 200PZL483	GUIDE, VALVE	3
18	PPGD 95W2	LOCK WASHER	6
19	PPGD 655EE06S	SCREW	6
20	PPGD 25AL35	GASKET, DISCHARGE MANIFOLD	3
21	PPGD 25G41	GASKET, SUCTION MANIFOLD	3
22	PPGD 200PZL455	CLAMP, LINER	3
23	PPGD 200PZL483A	ASSY, VALVE GUIDE	3

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National 12-P-160 Module Exploded View



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M U D P U M P E X P E N D A B L E S

ITEM	PART NUMBER	DESCRIPTION	QTY PER PUMP
1	PPNO 1292240	MODULE, DISCHARGE STUDDED (INCL ITEM 2-10)	3
2	PPNO 1292241	MODULE, DISCHARGE UNSTUDDED 12-P-160	3
3	PPNO 6300220	NUT	30
4	PPNO 2408029	STUD, POWER FRAME	30
5	PPNO 6300180	NUT	18
6	PPNO 2408028	STUD, LINER BUSHING	18
7	PPNO 6300281	NUT	18
8	PPNO 2408033	STUD, DISCHARGE MODULE TO SUCTION MODULE	18
9	PPNO 6300240	NUT	36
10	PPNO 2408027	STUD, THREADED RING	36
11	PPNO 1292243	SUCTION MODULE, STUDDED (INCL ITEM 12, 13, 14)	3
12	PPNO 1292244	SUCTION MODULE, UNSTUDDED, 12-P-160	3
13	PPNO 6300240	NUT	36
14	PPNO 2408027	STUD, THREADED RING	36
15	PPNO 1292165	BUSHING, LINER 12-P-160	3
16	PPNO 1292174	RETAINER, VALVE COVER SEAL, 12-P-160	6
17	PPNO 1292172	COVER TAPER LOCK, 12-P-160	6
18	PPNO 1292178	SCREW, WEDGE 12-P-160	6
19	PPNO 6300182	NUT	6
20	PPNO 1292171	WASHER, WEDGE ADJUSTING SCREW 12-P-160	6
21	PPNO 1292176	RING, THREADED 12-P-160	6
22	PPNO G-1292268	WEDGE, LOCKING 12-P-160	6
23	PPNO 1540127	PACKING, VALVE COVER PLATE 12-P-160	6
24	PPNO 1292140	RETAINER PLATE, 7P-14P	6
25	PPNO 1292141	INSERT, VALVE GUIDE 7P-14P	6
26	PPNO 6511416	PIN, DOWEL 7P-14P	6
27	PPNO 1292266	WEAR PLATE, 12-P-160	3
28	PPNO 1292252	CONNECTOR, DISCHARGE 12-P-160	2
29	PPNO 700030711	SCREW	16
30	PPGD 95W2	LOCK WASHER	16
31	PPNO 1292253	ADAPTER, 12-P-160	4
32	PPNO 2410031-433	PACKING, RECTANGULAR 12-P-160	2
33	PPNO 2410031-437	PACKING, RECTANGULAR 12-P-160	6
34	PPNO 1292166	LINER CLAMP COMPLETE 12-P-160	3
35	PPNO 7000491-10	BOLT, HEX HEAD 12-P160	6
36	PPNO 6309140	NUT	6
37	PPNO 1292169	PIN, 12-P-160	6
38	PPNO 1292168	CONNECTOR, LINER CLAMP	6
39	PPNO 2408015	STUD, TAPER LOCK 12-P-160	16
40	PPNO 6300240	NUT	16

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MUD PUMP EXPENDABLES

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Emsco F-800

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05495500	PPNO 07494500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05495550	PPNO 07494550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05495600	PPNO 07494600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05495650	PPNO 07494650	PPNO 012180535	PPNO 1502062	PPNO 015180300
ALL LINERS USE PPNO 07918282 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060152808	PPNO 9700285	PPNO 9700353	VALVE COVER GASKET	PPNO 07916740
SEAT	PPNO 061102653	PPNO 9702547	PPNO 9702547	CYL HEAD GASKET	PPNO 07918282
INSERT-URETHANE	PPNO 062400106	PPNO 9705090	PPNO 9700363	EXTENSION ROD SEAL WEAR PLATE	PPES 7602-2131-97
SPRING	PPNO 055413389	PPNO 8201650	PPNO 8201650	GASKET	PPNO 1290344
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD	CROSSHEAD	
PPNO 1551701		PPNO PP600800	PPNO 07913075	PPES 6320-0012-00	
VALVE OVER VALVE MISSION STYLE MODULE: PPNO EMSFEMF1000					

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Emsco F-1000

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05495500	PPNO 07495500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05495550	PPNO 07495550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05495600	PPNO 07495600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05495650	PPNO 07495650	PPNO 012180535	PPNO 1502062	PPNO 015180300
ALL LINERS USE PPNO 07918282 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060152808	PPNO 9700285	PPNO 9700353	VALVE COVER GASKET CYL HEAD GASKET	PPNO 07916740
SEAT	PPNO 061102653	PPNO 9702547	PPNO 9702547	EXTENSION ROD SEAL WEAR PLATE GASKET	PPNO 07918282
INSERT-URETHANE	PPNO 062400106	PPNO 9705090	PPNO 9700363		PPES 7602-2132-05
SPRING	PPNO 055413389	PPNO 8201650	PPNO 8201650		PPNO 1290344
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD	CROSSHEAD	
PPNO 1551702		PPNO PP601000	PPNO 07913070	PPES 6319-0014-00	
VALVE OVER VALVE MISSION STYLE MODULE: PPNO EMSFEMF1000					

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Emsco FB-13/1600

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05499500	PPNO 07499500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05499550	PPNO 07499550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05499600	PPNO 07499600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05499650	PPNO 07499650	PPNO 012180535	PPNO 1502062	PPNO 015180300
ALL LINERS USE PPNO 07916800 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060155041	PPNO 9700250	PPNO 9700354	VALVE COVER GASKET CYL HEAD GASKET	PPNO 07916741
SEAT	PPNO 061101507	PPNO 9702504	PPNO 9702504	EXTENSION ROD SEAL WEAR PLATE GASKET	PPES 6316-0369-00
INSERT-URETHANE	PPNO 062400338	PPNO 9705228	PPNO PF071		PPES 7602-2131-47
SPRING	PPNO 055413397	PPNO 055213417	PPNO 055213417		PPNO 07916800
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPES 6316-0359-00		PPNO PP601316	PPES 6316-0028-00		PPES 6316-0022-00
VALVE OVER VALVE MISSION STYLE MODULE: PPES 6316-0357-00					

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Gardner Denver PAH

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPGD PJ13950	N/A	PPGD 241TBB045A	N/A	PPGD TBB76024
4.1/2"	PPGD PA13945	N/A	PPGD 239TBB045A	N/A	PPGD TBB76022
4.0"	PPGD PA13940	N/A	PPGD 231TBK045A	N/A	PPGD TBK90428
3.1/2"	PPGD PA13935	N/A	PPNO 05111434	N/A	PPGD TBA76006
ALL LINERS USE PPGD 25AL22 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPGD PJ482A	N/A	N/A	VALVE COVER GASKET CYL HEAD GASKET EXTENSION ROD SEAL WEAR PLATE GASKET	PPGD 204PJH715
SEAT	PPGD PJ451	N/A	N/A		PPGD 25AL36
INSERT-URETHANE	PPGD PJ452	N/A	N/A		PPGD 2011872
SPRING	PPGD 78H23	N/A	N/A		N/A
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPGD PJ183		PPGD 200PZJ4065	PPGD 300PZH839		PPGD PJ175
VALVE OVER VALVE GARDNER DENVER STYLE MODULE: PPGD 200PJH029B					

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Gardner Denver PZ-7

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPGD 200PZG456	PPNO 07493087	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPGD PY13955	PPNO 07493085	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPGD PY13960	PPNO 07493083	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPGD PY13965	PPNO 07493081	PPNO 012180535	PPNO 1502062	PPNO 015180300
ALL LINERS USE PPGD 25AT37 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060155041	PPNO 9700250	PPNO 9700354	VALVE COVER GASKET	PPGD 2011862
SEAT	PPNO 061101507	PPNO 9702504	PPNO 9702504	CYLINDER HEAD GASKET	PPGD 25AT37
INSERT-URETHANE	PPNO 062400338	PPNO 9705228	PPNO PFO71	EXTENSION ROD SEAL	PPGD 2011872
SPRING	PPNO 055413371	PPNO 8201650	PPNO 8201650	WEAR PLATE GASKET	PPNO 07932009
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPGD 201PZG060A		PPGD 200PZJ4065	PPGD 200PZG839		PPGD 200PZG005
VALVE OVER VALVE GARDNER DENVER STYLE MODULE: PPGD 205PZL029D					

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Gardner Denver PZ-8/9

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPGD 204PZJ456	PPNO 07493500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPGD 203PZJ456	PPNO 07493550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPGD 202PZJ456	PPNO 07493600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPGD 200PZJ456	PPNO 07493650	PPNO 012180535	PPNO 1502062	PPNO 015180300
ALL LINERS USE PPGD 25AT37 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060155041	PPNO 9700250	PPNO 9700354	VALVE COVER GASKET CYLINDER HEAD GASKET EXTENSION ROD SEAL	PPGD 2011862
SEAT	PPNO 061101507	PPNO 9702504	PPNO 9702504		PPGD 25AT37
INSERT-URETHANE	PPNO 062400338	PPNO 9705228	PPNO PFO71		PPGD 2011872
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PZ-8 PUMP	PPGD 1PZ183A	PPGD 200PZJ4065	PPGD 300PZH839		PPGD 200PZH005
PZ-9 PUMP	PPGD 1PZ183A	PPGD 200PZJ4065	PPGD 300PZJ839		PPGD 200PZJ005
VALVE OVER VALVE GARDNER DENVER STYLE MODULE: PPGD 205PZL029D					

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Gardner Denver PZ-10/11

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPGD 204PZL456*	PPNO 07496500*	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPGD 203PZL456*	PPNO 07496550*	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPGD 202PZL456*	PPNO 07496600*	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPGD 201PZL456*	PPNO 07496650*	PPNO 012180535	PPNO 1502062	PPNO 015180300
ALL LINERS QUOTED AS 14.1/4" STYLE, PLEASE CALL FOR QUOTE ON 15" LONG STYLE					
ALL LINERS USE PPGD 25AT37 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060155041	PPNO 9700250	PPNO 9700354	VALVE COVER GASKET	PPGD 204PZL715
SEAT	PPNO 061101507	PPNO 9702504	PPNO 9702504	CYL HEAD GASKET	PPGD 25AT37
INSERT-URETHANE	PPNO 062400338	PPNO 9705228	PPNO PF071	EXTENSION ROD SEAL	PPGD 2011872
SPRING	PPGD 78H44	PPNO 8201650	PPNO 8201650	WEAR PLATE GASKET	PPNO 07932009
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPGD 200PZL060A		PPGD 200PZL4065	PPGD 200PZL839		PPGD 200PZL005
VALVE OVER VALVE GARDNER DENVER STYLE MODULE: PPGD 202PZL029B					

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Ideco T-1300/1600

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05507500	PPNO 07507500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05507550	PPNO 07507550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05507600	PPNO 07507600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05507650	PPNO 07507650	PPNO 012180535	PPNO 1502062	PPNO 015180300
ALL LINERS USE PPNO 07916782 AS LINER GASKET					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060155041	PPNO 9700250	PPNO 9700354	VALVE COVER GASKET	PPNO 07916782
SEAT	PPNO 061101507	PPNO 9702504	PPNO 9702504	CYL HEAD GASKET	PPNO 07916782
INSERT-URETHANE	PPNO 062400338	PPNO 9705228	PPNO PFO71	EXTENSION ROD SEAL WEAR PLATE	PPNO 07931168
SPRING	PPNO 055413421	PPNO 8201684	PPNO 8201684	GASKET	PPNO 1290344
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPNO 1551715		PPNO PPT604130	PPNO 07913081		PPID 551-106-01
VALVE OVER VALVE MISSION STYLE MODULE: PPID 551-122-01					

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National 9-P-100

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05465500	PPNO 07465500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05465550	PPNO 07465550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05465600	PPNO 07465600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05465650	PPNO 07465650	PPNO 012180535	PPNO 1502062	PPNO 015180300
5"-6" LINERS USE PPNO 792326_GASKET, 6.1/2" LINER USES PPNO 07923283					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060152808	PPNO 9700285	PPNO 9700353	VALVE COVER GASKET	PPNO 1540137
SEAT	PPNO 061102604	PPNO 9702555	PPNO 9702555	CYL HEAD GASKET	N/A
INSERT-URETHANE	PPNO 062400106	PPNO 9705090	PPNO 9700363	EXTENSION ROD SEAL	PPGD 2011872
SPRING	PPNO 055413421	PPNO 8201684	PPNO 8201684	WEAR PLATE GASKET	PPNO 1290344
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD	CROSSHEAD	
PPNO 1293147		PPNO 1293085	PPNO 1681460	PPNO 1293090 (L) PPNO 1293015 (RT&CTR)	
DISCHARGE MODULE: PPNO 1293240			SUCTION MODULE: PPNO 1290338		

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National 10-P-130

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05465500	PPNO 07465500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05465550	PPNO 07465550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05465600	PPNO 07465600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05465650	PPNO 07465650	PPNO 012180535	PPNO 1502062	PPNO 015180300
5"-6" LINERS USE PPNO 792326 GASKET, 6.1/2" LINER USES PPNO 07923283					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060152808	PPNO 9700285	PPNO 9700353	VALVE COVER GASKET	PPNO 1540137
SEAT	PPNO 061102604	PPNO 9702555	PPNO 9702555	CYL HEAD GASKET	N/A
INSERT-URETHANE	PPNO 062400106	PPNO 9705090	PPNO 9700363	EXTENSION ROD SEAL WEAR PLATE	PPNO 1283099
SPRING	PPNO 055413421	PPNO 8201684	PPNO 8201684	GASKET	PPNO 1290344
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPNO 1290347		PPNO 1290085	PPNO 1290083		PPNO 1290090 (L) PPNO 1290015 (RT&CTR)
DISCHARGE MODULE: PPNO 1290335			SUCTION MODULE: PPNO 1290338		

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National 12-P-160

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05466500	PPNO 07466500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05466550	PPNO 07466550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05466600	PPNO 07466600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05466650	PPNO 07466650	PPNO 012180535	PPNO 1502062	PPNO 015180300
5"-6" LINERS USE PPNO 792326 GASKET, 6.1/2" LINER USES PPNO 07923284					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FULL OPEN HP STYLE		PART NUMBER
VALVE	PPNO 060155041	PPNO 9700250	PPNO 9700354	VALVE COVER GASKET	PPNO 1540138
SEAT	PPNO 061102505	PPNO 9702539	PPNO 9702539	CYL HEAD GASKET	N/A
INSERT-URETHANE	PPNO 062400338	PPNO 9705228	PPNO PFO71	EXTENSION ROD SEAL	PPNO 1292182
SPRING	PPNO 055413421	PPNO 8201684	PPNO 8201684	WEAR PLATE GASKET	PPNO 1292257
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPNO 1292147		PPNO 1292085	PPNO 1292083		PPNO 1292090 (L) PPNO 1292015 (RT&CTR)
DISCHARGE MODULE: PPNO 1292240			SUCTION MODULE: PPNO 1292243		

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National 14-P-220

	LINERS		PISTONS		REPLACEMENT RUBBERS
SIZE	BI-METALLIC	CERAMIC-ZIRC	RUBBER-SUPREME	URETHANE-GREEN DUO	RUBBER-SUPREME
5"	PPNO 05545500	PPNO 07545500	PPNO 012180253	PPNO 1502056	PPNO 015180185
5.1/2"	PPNO 05545550	PPNO 07545550	PPNO 012180337	PPNO 1502058	PPNO 015180227
6.0"	PPNO 05545600	PPNO 07545600	PPNO 012180394	PPNO 1502060	PPNO 015180268
6.1/2"	PPNO 05545650	PPNO 07545650	PPNO 012180535	PPNO 1502062	PPNO 015180300
5"-6" LINERS USE PPNO 792326 GASKET, 6.1/2" LINER USES PPNO 07923284					
VALVES, SEATS, INSERTS AND SPRINGS				GASKETS	
	WEBBED-SUPREME STYLE	FULL OPEN STYLE	FKN STYLE		PART NUMBER
VALVE	PPNO 060135555	PPNO 9700382	PPNO 1560965	VALVE COVER GASKET	PPNO 1540163
SEAT	PPNO 061100954	PPNO 9702751	PPNO 1561410	CYL HEAD GASKET	N/A
INSERT-URETHANE	PPNO 062400536	PPNO 9705236	PPNO 1560567	EXTENSION ROD SEAL	PPNO 1295182
SPRING	PPNO 055409007	PPNO 055413256	PPNO 1560703	WEAR PLATE GASKET	N/A
PISTON RODS, EXTENSION RODS, CROSSHEAD					
CLAMP-TYPE PISTON ROD		ROD CLAMP	CLAMP TYPE EXTENSION ROD		CROSSHEAD
PPNO 1295147		PPNO 1295085	PPNO 1295083		N/A
DISCHARGE MODULE: PPNO 1295601			SUCTION MODULE: PPNO 1295604		

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Notes



AM American
Mfg Company

Quality Mud Pumps and Parts

American Manufacturing

736 19th Ave NE

St.Joseph, MN 56374

Toll Free: 888.299.3412

Office: 320.363.7273

Sales: info@american-manufacturing.com

american-manufacturing.com