

FLUID END MODULES & PARTS

MKP menawarkan rangkaian lengkap modul fluid end yang interchangeable dan aksesoris untuk triplex mud pump. Fluid end dan komponen interchangeable dengan OEM seperti National, Emsco, Gardner Denver, Bomco, Ideco, dan Oilwell. Kami menawarkan suku cadang pengganti gaya OEM standar dan "L" Shaped fluid ends. Diproduksi dengan kualitas terbaik, produk kami menawarkan kinerja dan daya tahan terbaik. Tersedia untuk pressure 5000psi & 7500psi.



MUD PUMP COMPONENTS

MKP menawarkan rangkaian lengkap modul fluid end yang interchangeable dan aksesoris untuk triplex mud pump. Fluid end dan komponen interchangeable dengan OEM seperti National, Emsco, Gardner Denver, Bomco, Ideco, dan Oilwell. Kami menawarkan suku cadang pengganti gaya OEM standar dan "L" Shaped fluid ends. Diproduksi dengan kualitas terbaik, produk kami menawarkan kinerja dan daya tahan terbaik. Tersedia untuk pressure 5000psi & 7500psi.



LINERS

MKP's Chrome Sleeve and Zirconia Ceramic Liners dirancang agar dapat interchangeable dengan OEM triplex pump. Semua liner kami dibuat dengan baja tempa berkekuatan tinggi yang dibuat dengan mesin yang canggih. Liner dibuat dengan mesin presisi untuk toleransi yang tepat agar konsentris liner tetap terjaga, dengan toleransi yang ditentukan oleh API untuk memberikan masa pakai yang lebih lama.



VALVES & SEATS

MKP menyediakan rangkaian lengkap valve dan seat desain full open, 3 web, 4 web yang tersedia dalam ukuran API 4 hingga 8 agar sesuai dengan semua mud pump utama dan mengakomodasi semua jenis kondisi pengeboran, sifat lumpur, dan suhu yang mencapai hingga 350°F.



REPLACEABLE RUBBER PISTON

Terbuat dari Nitrile Rubber yang dapat diganti, piston Fabric Heel ini adalah yang paling hemat biaya. Selama hub piston tidak aus hingga tanda indikator, rubber dapat diganti dan digunakan pada hub yang ada hingga benar-benar aus.



LONG LIFE URETHANE BONDED PISTON

Masa pakai lebih lama bila digunakan pada suhu rendah dan dalam kondisi pengeboran normal. Performa lebih bagus saat dipasangkan dengan Liner Keramik.



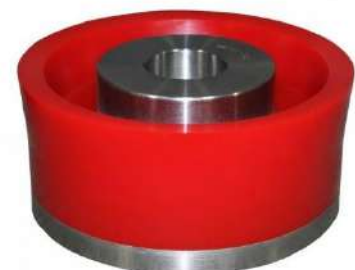
RUBBER BONDED PISTON

Terbuat dari Carboxylated Nitrile Rubber, seal piston ini lebih baik dari yang lain. Masih dapat bekerja dengan baik meski pada liner yang sudah aus untuk mendapatkan masa pakai lebih lama.



HIGH TEMPERATURE BONDED PISTON

Ketahanan abrasi yang sangat baik dan dapat bekerja pada temperature hingga 350°F / 170°C.



MKP Pistons & Valves

MKP Pistons are made to precise tolerances and include a variety of materials yielding extended service life. Piston materials include the following from 3" to 7-1/2" sizes to accommodate for all types of drilling conditions, mud properties and temperatures reaching up to 390°F.

 Silver Series Max PSI 7600 Max Temp 350	 Gold Series Max PSI 7500 Max Temp 300	 Long Life Max PSI 7500 Max Temp 180
 Red Thunder Max PSI 5600 Max Temp 390	 Rubber Bonded Max PSI 5000 Max Temp 225	 Imperial Max PSI 5000 Max Temp 225

MKP provides a full range of full open, 3 web, 4 web and plate type design valves and seats available in API 4 thru 8 sizes to fit all major mud pumps and accommodate for all types of drilling conditions, mud properties and temperatures reaching up to 390°F

 Silver Series Max PSI 7600 Max Temp 350	 Red Thunder Max PSI 5600 Max Temp 390	 Polyurethane Max PSI 7500 Max Temp 180
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EMSCO

MUD PUMP EXPENDABLES

EMSCO

6¾ × 7

F-350

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0146-40	MKG-0281
4½"	MK-0146-44	MKG-0281
5"	MK-0146-50	MKG-0281
5½"	MK-0146-54	MKG-0281
6"	MK-0146-60	MKG-0281
6¼"	MK-0146-62	MKG-0281
6½"	MK-0146-64	MKG-0281
6¾"	MK-0146-66	MKG-0281

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0733	MKG-0281

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-05	MK-5DD-B01	MK-5710-111	MK-UDD-5B	MK-1700-5
MKP-FULL OPEN	MK-5DFO-V1	MK-5DFO-S1	MK-5710-030	MK-5DFO-SI	MK-1700-5FO
MKP-DOUBLE ANGLE	MK-0500117	MK-0508623	MK-05147900	MK-0515844	MK-1700-5BA
MKP-PLATE TYPE	MK-0504991	MK-0508623	MK-05144230	MK-0504888	MK-1700-5BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400-10	MK-144-HK 10	MK-140-HK	MK-RB-400-10	MK-LL-400-10
4½"	MK-RT-440-10	MK-144-HK 10	MK-144-HK	MK-RB-440-10	MK-LL-440-10
5"	MK-RT-500-10	MK-150-HB 10	MK-150-HB	MK-RB-500-10	MK-LL-500-10
5½"	MK-RT-540-10	MK-154-HB 10	MK-154-HB	MK-RB-540-10	MK-LL-540-10
6"	MK-RT-600-10	MK-160-HB 10	MK-160-HB	MK-RB-600-10	MK-LL-600-10
6½"	MK-RT-640-10	MK-164-HL 10	MK-164-HL	MK-RB-640-10	MK-LL-640-10

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0147	N/A	MK-16-0142	MK-24-0146	MK-7403224

EMSCO

6¾ × 7½

F-500

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0146-40	MKG-0281
4½"	MK-0146-44	MKG-0281
5"	MK-0146-50	MKG-0281
5½"	MK-0146-54	MKG-0281
6"	MK-0146-60	MKG-0281
6¼"	MK-0146-62	MKG-0281
6½"	MK-0146-64	MKG-0281
6¾"	MK-0146-66	MKG-0281

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0733	MKG-0281

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-05	MK-5DD-B01	MK-5710-111	MK-UDD-5B	MK-1700-5
MKP-FULL OPEN	MK-5DFO-V1	MK-5DFO-S1	MK-5710-030	MK-5DFO-SI	MK-1700-5FO
MKP-DOUBLE ANGLE	MK-0500117	MK-0508623	MK-05147900	MK-0515844	MK-1700-5BA
MKP-PLATE TYPE	MK-0504991	MK-0508623	MK-05144230	MK-0504888	MK-1700-5BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400-10	MK-140-HK 10	MK-140-HK	MK-RB-400-10	MK-LL-400-10
4½"	MK-RT-440-10	MK-144-HK 10	MK-144-HK	MK-RB-440-10	MK-LL-440-10
5"	MK-RT-500-10	MK-150-HB 10	MK-150-HB	MK-RB-500-10	MK-LL-500-10
5½"	MK-RT-540-10	MK-154-HB 10	MK-154-HB	MK-RB-540-10	MK-LL-540-10
6"	MK-RT-600-10	MK-160-HB 10	MK-160-HB	MK-RB-600-10	MK-LL-600-10
6½"	MK-RT-640-10	MK-164-HL 10	MK-164-HL	MK-RB-640-10	MK-LL-640-10

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0146	N/A	MK-16-0146	MK-24-0146	MK-7403224

EMSCO

6¾ × 8

F-650

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0146-40	MKG-0281
4½"	MK-0146-44	MKG-0281
5"	MK-0146-50	MKG-0281
5½"	MK-0146-54	MKG-0281
6"	MK-0146-60	MKG-0281
6¼"	MK-0146-62	MKG-0281
6½"	MK-0146-64	MKG-0281
6¾"	MK-0146-66	MKG-0281

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0733	MKG-0281

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-05	MK-5DD-B01	MK-5710-111	MK-UDD-5B	MK-1700-5
MKP-FULL OPEN	MK-5DFO-V1	MK-5DFO-S1	MK-5710-030	MK-5DFO-SI	MK-1700-5FO
MKP-DOUBLE ANGLE	MK-0500117	MK-0508623	MK-05147900	MK-0515844	MK-1700-5BA
MKP-PLATE TYPE	MK-0504991	MK-0508623	MK-05144230	MK-0504888	MK-1700-5BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0151	N/A	MK-16-0141	MK-24-0147	MK-7403364

EMSCO

6¾ × 9

F-800

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0148-40	MKG-0282
4½"	MK-0148-44	MKG-0282
5"	MK-0148-50	MKG-0282
5½"	MK-0148-54	MKG-0282
6"	MK-0148-60	MKG-0282
6¼"	MK-0148-62	MKG-0282
6½"	MK-0148-64	MKG-0282
6¾"	MK-0148-66	MKG-0282

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0740	MKG-0282

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-111	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-111	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-110L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-2	MK-951	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0520008	MK-05139890	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0520008	MK-05139880	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0150	N/A	MK-16-0150	MK-24-0150	MK-7403364

EMSCO

6¾ × 10

F-1000

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0148-40	MKG-0282
4½"	MK-0148-44	MKG-0282
5"	MK-0148-50	MKG-0282
5½"	MK-0148-54	MKG-0282
6"	MK-0148-60	MKG-0282
6¼"	MK-0148-62	MKG-0282
6½"	MK-0148-64	MKG-0282
6¾"	MK-0148-66	MKG-0282

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0740	MKG-0282

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-111	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-111	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-110L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-2	MK-951	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0520008	MK-05139890	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0520008	MK-05139880	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0148	N/A	MK-16-0148	MK-24-0148	MK-7403364

EMSCO

7½ × 12

FB-1300

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-2145-40	MKG-0800
4½"	MK-2145-44	MKG-0800
5"	MK-2145-50	MKG-0800
5½"	MK-2145-54	MKG-0800
6"	MK-2145-60	MKG-0800
6¼"	MK-2145-62	MKG-0800
6½"	MK-2145-64	MKG-0800
6¾"	MK-2145-66	MKG-0800
7"	MK-2145-70	MKG-0800
7½"	MK-2145-74	MKG-0800

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0741	MKG-0801

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-115	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-115	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-115L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05139890	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05139880	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	N/A	N/A

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-2145	N/A	MK-16-0145	MK-24-0145	MK-7403364

EMSCO

7½ × 12

FB-1600

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-2145-40	MKG-0800
4½"	MK-2145-44	MKG-0800
5"	MK-2145-50	MKG-0800
5½"	MK-2145-54	MKG-0800
6"	MK-2145-60	MKG-0800
6¼"	MK-2145-62	MKG-0800
6½"	MK-2145-64	MKG-0800
6¾"	MK-2145-66	MKG-0800
7"	MK-2145-70	MKG-0800
7½"	MK-2145-74	MKG-0800

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0741	MKG-0801

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-115	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-115	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-115L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05139890	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05139880	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	N/A	N/A

* ¾ Size are available upon request

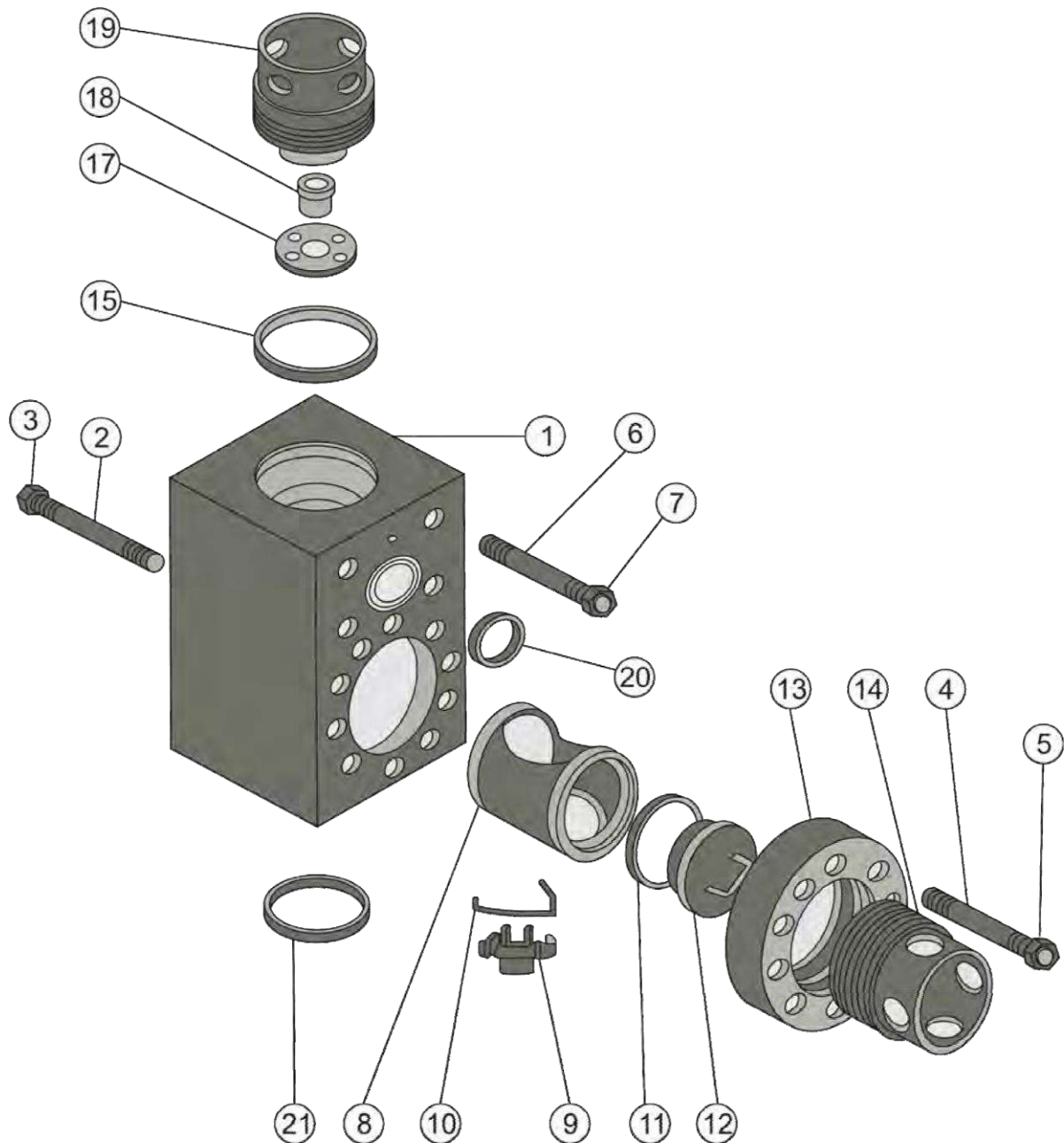
RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-2145	N/A	MK-16-0145	MK-24-0145	MK-7403364

EMSCO

FLUID END MODULE AND ACCESSORIES

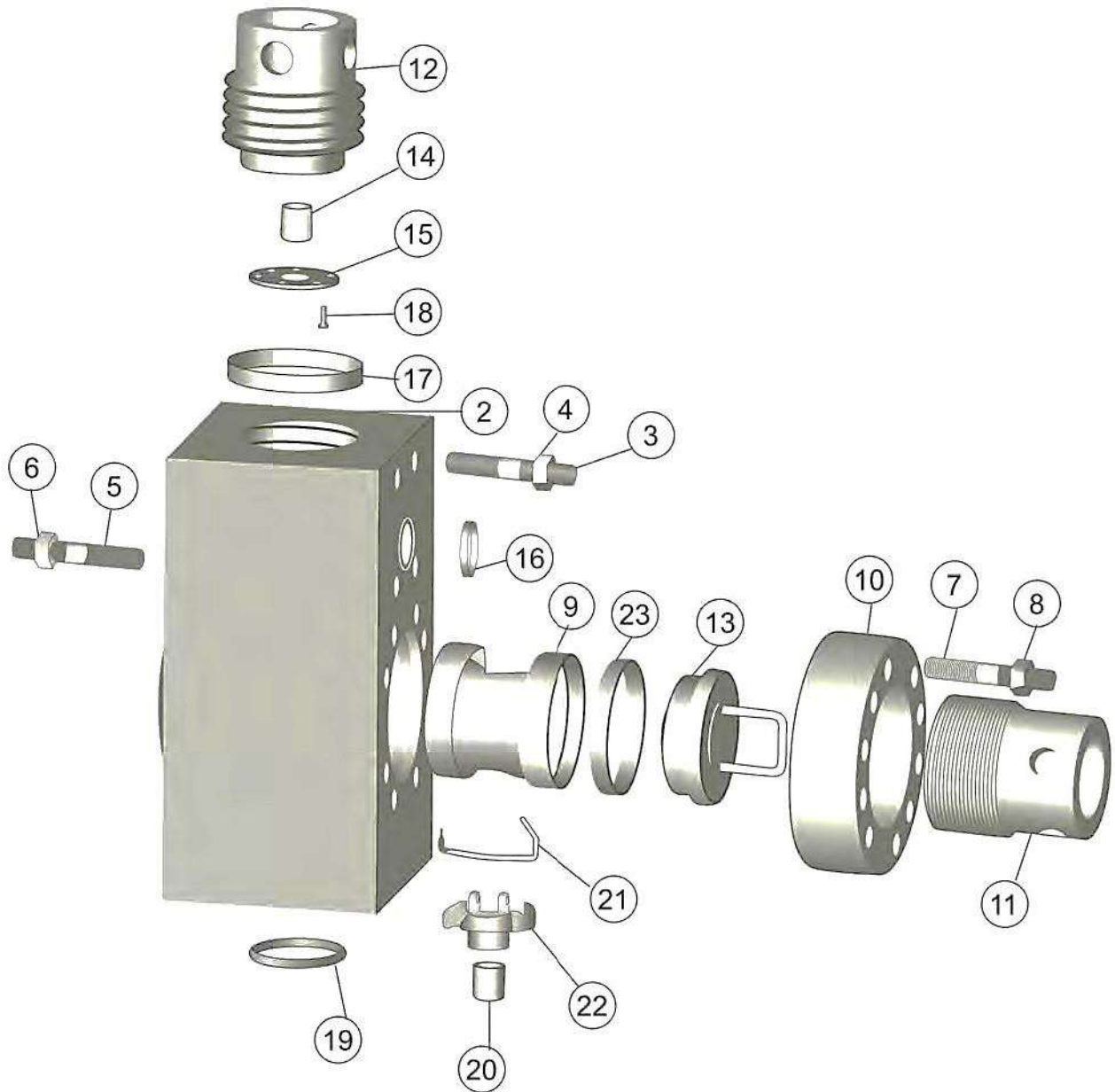
EMSCO F-350, F-500 & F-650

Item	Part No.	Description	Qty per Pump
	MK-6318-0151-00	Fluid Module, Studded (Included Items 2 – 7)	(3)
1	MK-6318-0151-00U	Fluid Module, Only	3
2	MK-7507-2207-00	Stud – Frame	18
3	MK-7601-0630-17	Nut – Frame	18
4	MK-7507-3402-00	Stud – Threaded Ring	36
5	MK-7601-0630-26	Nut – Threaded Ring	36
6	MK-7507-3407-00	Stud – Discharge Manifold	12
7	MK-7601-0630-26	Nut – Discharge Manifold	12
8	MK-6318-0148-00	Liner Cage	3
9	MK-6318-0177-00	Lower Valve Guide with Bushing	3
10	MK-6318-0153-00	Locking Clip	3
11	MK-7602-2200-34	Gasket – Liner	6
12	MK-6318-0158-00	Cylinder Head Plug	3
13	MK-6318-0130-00	Threaded Ring	3
14	MK-6318-0157-00	Cylinder Head	3
15	MK-6310-0084-00	Gasket – Valve Pot Cover	3
16	MK-7501-0051-00*	Retainer Bolt	12
17	MK-6310-0133-00	Retainer Plate	3
18	MK-6397-0602-00	Upper Valve Guide	3
19	MK-6310-0016-01	Valve Pot Cover	3
20	MK-7602-1600-23	Gasket – Discharge Manifold	3
21	MK-7602-1600-33	Gasket – Suction Manifold	3
22	MK-6318-0155-00*	Lower Valve Guide Bushing	3



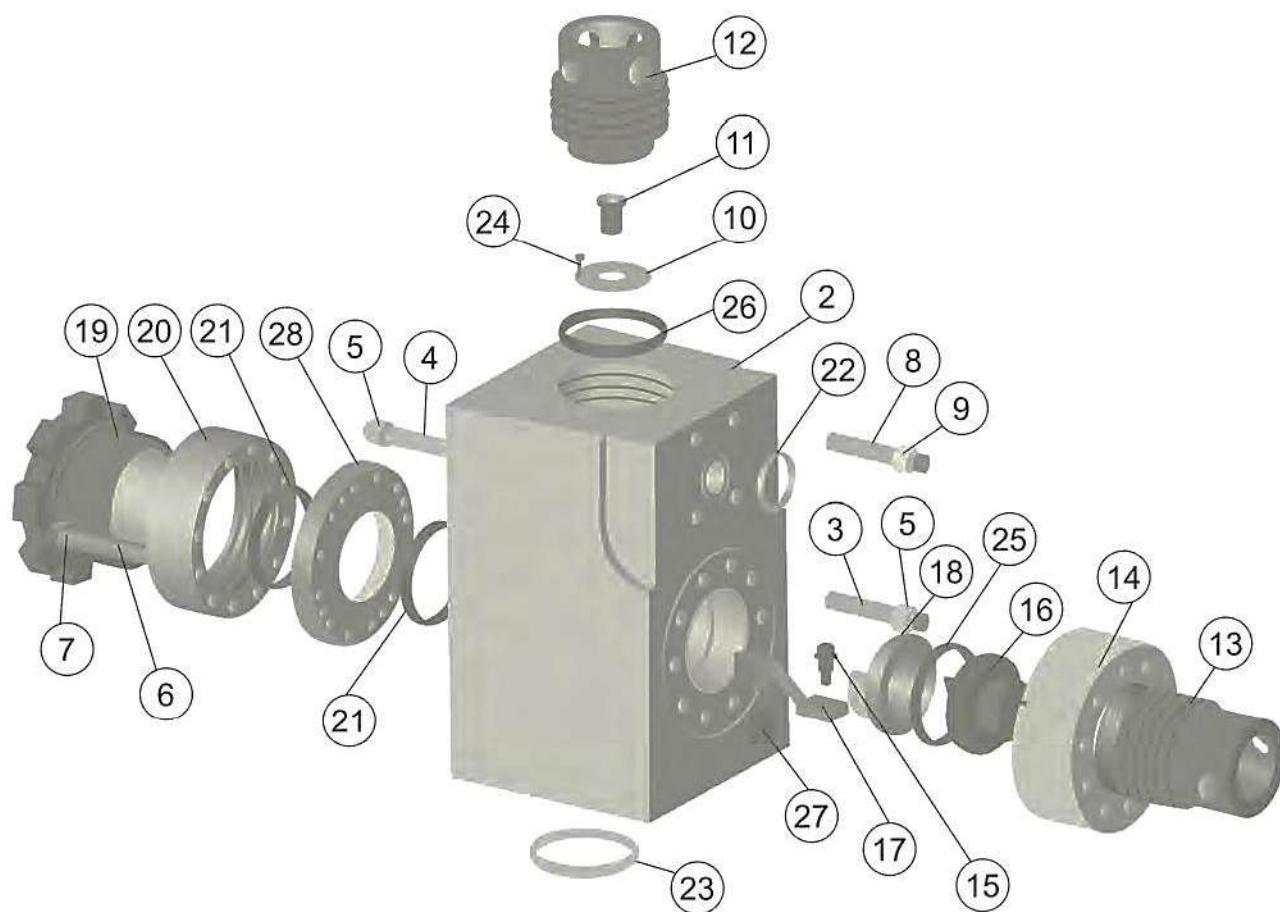
EMSCO F-800 & F-1000

Item	Part No.	Description	Qty per Pump
1	MK-6999-0086-02	Fluid Module, Studded (Included Items 2 – 8)	(3)
2	MK-6999-0087-02	Fluid Module, Only	3
3	MK-7507-2108-00	Stud – Discharge Manifold	12
4	MK-7601-0630-24	Nut – Discharge Manifold	12
5	MK-7507-2205-00	Stud – Frame	18
6	MK-7601-0630-17	Nut – Frame	18
7	MK-7507-2150-00	Stud – Threaded Ring	30
8	MK-7601-0630-26	Nut – Threaded Ring	30
9	MK-6319-0026-00	Liner Cage	3
10	MK-6999-0089-00	Threaded Ring	3
11	MK-6319-0090-00	Cylinder Head	3
12	MK-6319-0027-00	Valve Pot Cover	3
13	MK-6319-0031-00	Cylinder Head Plug	3
14	MK-6397-0575-00	Upper Valve Guide	3
15	MK-6397-0603-00	Retainer Plate	3
16	MK-7602-1610-46	O-Ring, Discharge Manifold	3
17	MK-6319-0076-00	Seal – Valve Pot Cover	3
18	MK-7501-0051-00	Retainer Bolt	12
19	MK-7602-1600-61	O-Ring – Suction Manifold	3
20	MK-6316-0096-00	Lower Valve Guide Bushing	3
21	MK-6319-0089-00	Locking Clip	3
22	MK-6319-0087-00	Lower Valve Guide with Bushing	3
23	MK-7602-2200-32	Seal – Liner, Cylinder Head Plug	3
	MK-6319-0096-00	Bushing, Lower Valve Guide	3



EMSCO FB – 1300 & FB – 1600

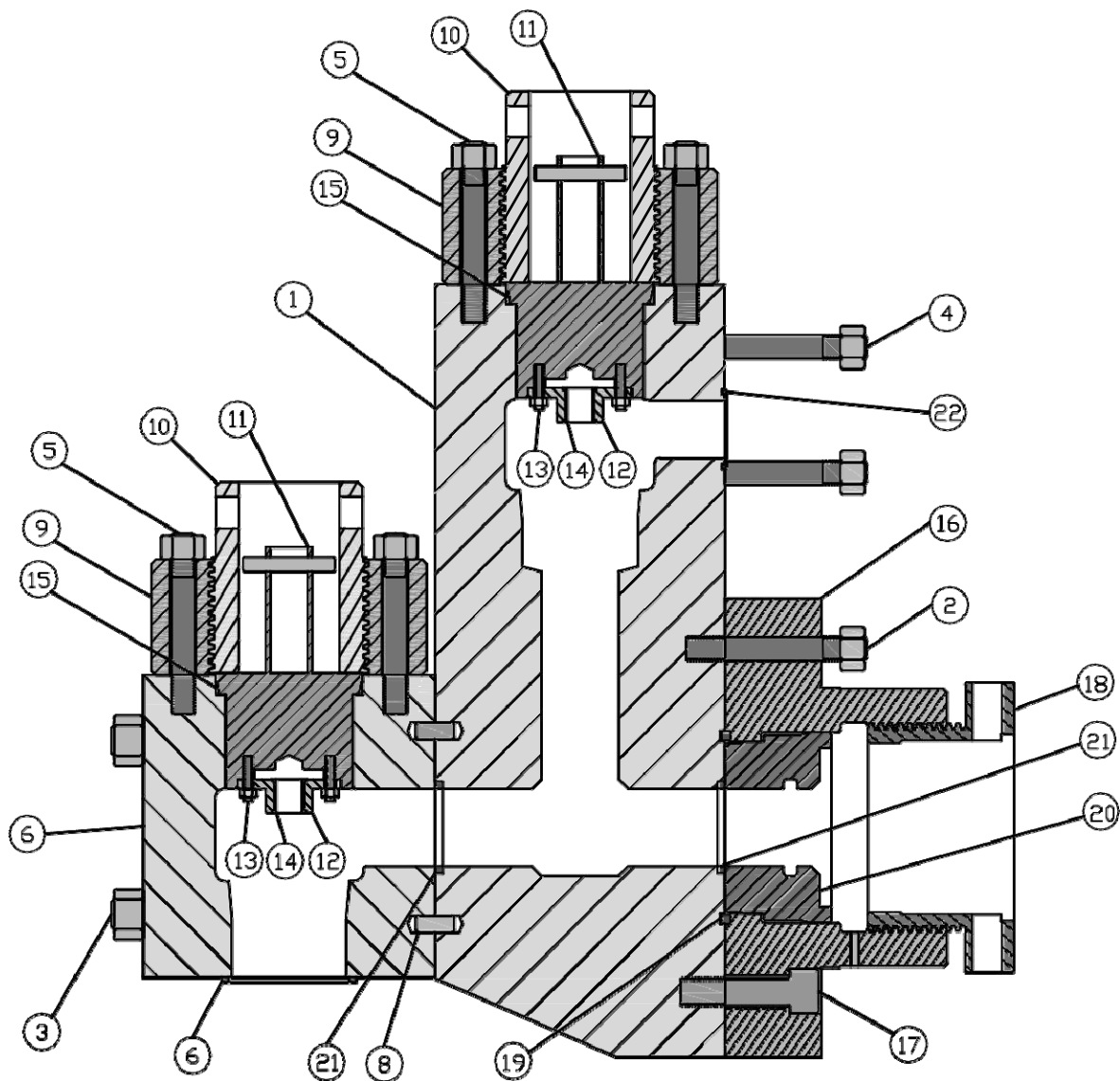
Item	EMSCO Style Part No.	Description	Qty per Pump
1	MK-6316-0357-00	Fluid Module, Studded (Included Items 2 – 9)	(3)
2	MK-6316-0356-00	Fluid Module, Only	3
3	MK-7507-2210-00	Stud – Threaded Ring	30
4	MK-7507-2201-00	Stud – Frame	18
5	MK-7601-0630-17	Nut – Frame, Threaded Ring	48
6	MK-7507-2013-00	Stud – Liner Lock	36
7	MK-7601-0610-18	Nut – Liner Lock	36
8	MK-7507-2108-00	Stud – Discharge Manifold	12
9	MK-7601-0630-24	Nut – Discharge Manifold	12
10	MK-6397-0603-00	Retainer Plate	3
11	MK-6397-0575-00	Upper Valve Guide	3
12	MK-6316-0039-00	Valve Cover	3
13	MK-6316-0362-00	Cylinder Head	3
14	MK-6316-0361-00	Cylinder Threaded Ring	3
15	MK-6316-0360-00	Lock Bolt	3
16	MK-6316-0364-00	Cylinder Head Plug	3
17	MK-6316-0354-00	Lower Valve Guide with Bushing	3
18	MK-6316-0363-00	Alignment Ring	3
19	MK-6316-0367-00	Liner Lock	3
20	MK-6316-0366-00	Liner Threaded Ring	3
21	MK-6316-0373-00	Seal – Wear Plate, Liner	3
22	MK-7602-1600-25	Seal – Discharge Manifold	3
23	MK-7602-1600-61	Seal – Suction Manifold	3
24	MK-7501-0051-00	Retainer Bolt	12
25	MK-6316-0369-00	Seal – Cylinder Head Plug	3
26	MK-6316-0092-00	Seal – Valve Pot Cover	3
27	MK-6316-0096-00	Valve Guide Bushing	3
28	MK-6316-0365-00	¹ Wear Plate	3



“L” SHAPED FB-1300 & FB-1600

Item	Part No.	Description	Qty per Pump
	MK-8490-2A	Complete Assembly	(3)
	MK-8490-1	Fluid Module, Discharge - Studded (included Items 1-5)	(3)
1		Fluid Module - Discharge	3
2	MK-4016-9	Stud w/Nut - Frame	30
3	MK-4017-1	Stud w/Nut - Suction Module	18
4	MK-4017-46	Stud w/Nut - Discharge Manifold	12
5	MK-4015-2	Stud w/Nut - Valve Cover	72
	MK-8490-2	Fluid Module, Suction - Studded (included items 5-6)	(3)
6		Fluid Module - Suction	3
7	MK-7602-1600-61	Seal - Suction Manifold	3
8	MK-8488-5	Dowel Pin	6
9	MK-4475	Threaded Flange	6
10	MK-4575	Screw Gland	6
	MK-4675-2A	Valve Cover Plug Assembly (included items 11-14)	(6)
11	MK-4675-2	Plug - Valve Cover	6
12	MK-4775-2	Valve Guide	6
13	MK-4016-99	Stud w/Nut - Valve Guide	16
14	MK-4700-I	Insert - Valve Guide	6
15	MK-P129	Seal - Valve Cover Plug	6
16	MK-6490-3	Liner Retainer Flange	3
17	MK-4017-36	Capscrew - Liner Retainer	24
18	MK-6590-1	Nut - Liner Retainer	3
19	MK-8422-3	Pilot Ring - Liner Retainer	3
20	MK-8490-3	Plate - Wear	3
21	MK-2988	Seal - Module and Wear Plate	6
22	MK-7602-1600-25	Seal - Discharge Manifold	3

FLUID END MODULE
AND ACCESSORIES



EMSCO OTHER PARTS

No	Description	P/N	Remarks
1	LINER END COVER	MK-6316-0164-00	Emsco FB-1300/1600
2	FB1300 - FLUID BAFFLE DISC	MK-6316-0093-00	Emsco FB-1300/1600
3	FLUID MODULE STUDDER	MK-6999-0086-02	EMSCO F800/1000
4	RETAINER BOLT 3/8" - 16 X 7/8"	MK-7501-0051-00	EMSCO F800/1000/FB1300/1600
5	PISTON ASSY HIGH TEMPERATURE URETHANE BONDED - 6 1/4"	MK-RT-620	EMSCO F800/1000/FB1300/1600

GARDNER DENVER

MUD PUMP EXPENDABLES

GARDNER DENVER

5 × 8

PAH (All Models), PJ8A

Liners & Liner Packing			
SIZES	LINER (Small OD)	LINER PACKING	LINER (Large OD)
3"	MK-0189-30	MKG-0266	MK-0193-30
3½"	MK-0189-34	MKG-0266	MK-0193-34
4"	MK-0189-40	MKG-0266	MK-0193-40
4½"	MK-0189-44	MKG-0266	MK-0193-44
5"		MKG-0266	MK-0193-50

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0799	MKG-0799

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-FULL OPEN	MK-4DFO-V1	MK-4FFO-S5	MK-5710-033	MK-4FFO-SI	MK-1700-4FO
MKP-3 WEB	MK-PJ482A	MK-PJ451	MK-5710-078	MK-PJ452	MK-1700-4GD

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
3"	N/A	MK-130-HA 14/15	MK-130-HA	N/A	N/A
3½"	N/A	MK-134-HK 14/15	MK-134-HK	N/A	N/A
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0193	N/A	MK-16-0192	MK-24-0191	MK-7403364

GARDNER DENVER

TEE, TGE

4 × 5

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
3"	MK-1190-30	MKG-0174
3½"	MK-1190-34	MKG-0174
4"	MK-1190-40	MKG-0174

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MK-25AL20	MK-25AL20

ABRASION RESISTANT	
VALVE ASSEMBLY	MK-209TEE482 (Includes Valve Body, Cage, Spring and Insert)
INSERT	MK-ARI-10
SPRING	MK-2116523
VALVE SEAT PULLER HEAD	MK-1700-16SN

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
3"	N/A	MK-130-HA 10	MK-130-HA	N/A	N/A
3½"	N/A	MK-134-HK 10	MK-134-HK	N/A	N/A
4"	MK-RT-400-10	MK-140-HK 10	MK-140-HK	MK-RB-400-10	MK-LL-400-10

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0204	N/A	MK-300TEE839	MK-201TAE092A	MK-7403224

GARDNER DENVER

7 × 7

PZ-GA & GB

PZ-7

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-1192-40	MKG-0692
4½"	MK-1192-44	MKG-0692
5"	MK-1192-50	MKG-0692
5½"	MK-1192-54	MKG-0692
6"	MK-1192-60	MKG-0692
6¼"	MK-1192-62	MKG-0692
6½"	MK-1192-64	MKG-0692
6¾"	MK-1192-66	MKG-0692
7"	MK-1192-70	MKG-0692

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0749	MKG-0749

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HB	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HB	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0205	N/A	MK-16-0205	MK-24-0191	MK-7403364
THREAD TYPE	MK-0196	N/A	MK-16-0196	N/A	MK-7403364

GARDNER DENVER

7 × 8

PZ-H-E, VE

PZ-8

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-1191-40	MKG-0692
4½"	MK-1191-44	MKG-0692
5"	MK-1191-50	MKG-0692
5½"	MK-1191-54	MKG-0692
6"	MK-1191-60	MKG-0692
6¼"	MK-1191-62	MKG-0692
6½"	MK-1191-64	MKG-0692
6¾"	MK-1191-66	MKG-0692
7"	MK-1191-70	MKG-0692

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0749	MKG-0749

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0191	N/A	MK-16-0192	MK-24-0191	MK-7403364
THREAD TYPE	MK-0202	N/A	MK-16-0196	N/A	MK-7403364

GARDNER DENVER

7 × 9

PZ-GA & GB

PZ-9

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-1191-40	MKG-0692
4½"	MK-1191-44	MKG-0692
5"	MK-1191-50	MKG-0692
5½"	MK-1191-54	MKG-0692
6"	MK-1191-60	MKG-0692
6¼"	MK-1191-62	MKG-0692
6½"	MK-1191-64	MKG-0692
6¾"	MK-1191-66	MKG-0692
7"	MK-1191-70	MKG-0692

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0749	MKG-0749

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0191	N/A	MK-16-0191	MK-24-0191	MK-7403364
THREAD TYPE	MK-0202	N/A	MK-16-0201	N/A	MK-7403364

GARDNER DENVER

7 × 10

PZL

PZ-10

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0197-40	MKG-0692
4½"	MK-0197-44	MKG-0692
5"	MK-0197-50	MKG-0692
5½"	MK-0197-54	MKG-0692
6"	MK-0197-60	MKG-0692
6¼"	MK-0197-62	MKG-0692
6½"	MK-0197-64	MKG-0692
6¾"	MK-0197-66	MKG-0692
7"	MK-0197-70	MKG-0692

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0780	MKG-0780

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0200	N/A	MK-16-0200	MK-24-0200	MK-7403364
THREAD TYPE	MK-0201	N/A	MK-16-0201	N/A	MK-7403364

GARDNER DENVER

7 × 11

PZL

PZ-11

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0197-40	MKG-0692
4½"	MK-0197-44	MKG-0692
5"	MK-0197-50	MKG-0692
5½"	MK-0197-54	MKG-0692
6"	MK-0197-60	MKG-0692
6¼"	MK-0197-62	MKG-0692
6½"	MK-0197-64	MKG-0692
6¾"	MK-0197-66	MKG-0692
7"	MK-0197-70	MKG-0692

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0780	MKG-0780

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

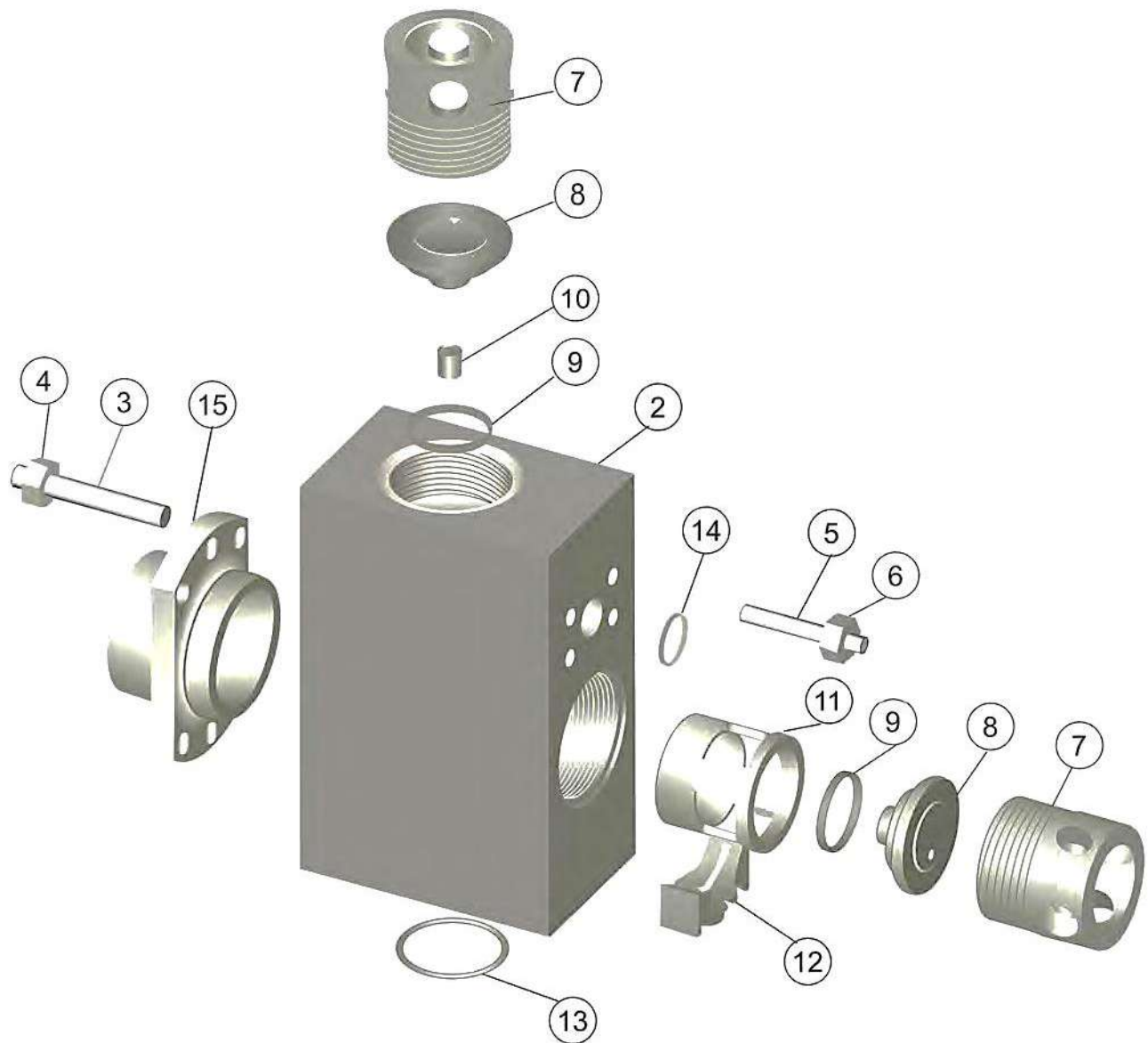
RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0200	N/A	MK-16-0200	MK-24-0200	MK-7403364
THREAD TYPE	MK-0201	N/A	MK-16-0201	N/A	MK-7403364

GARDNER DENVER

FLUID END MODULE AND ACCESSORIES

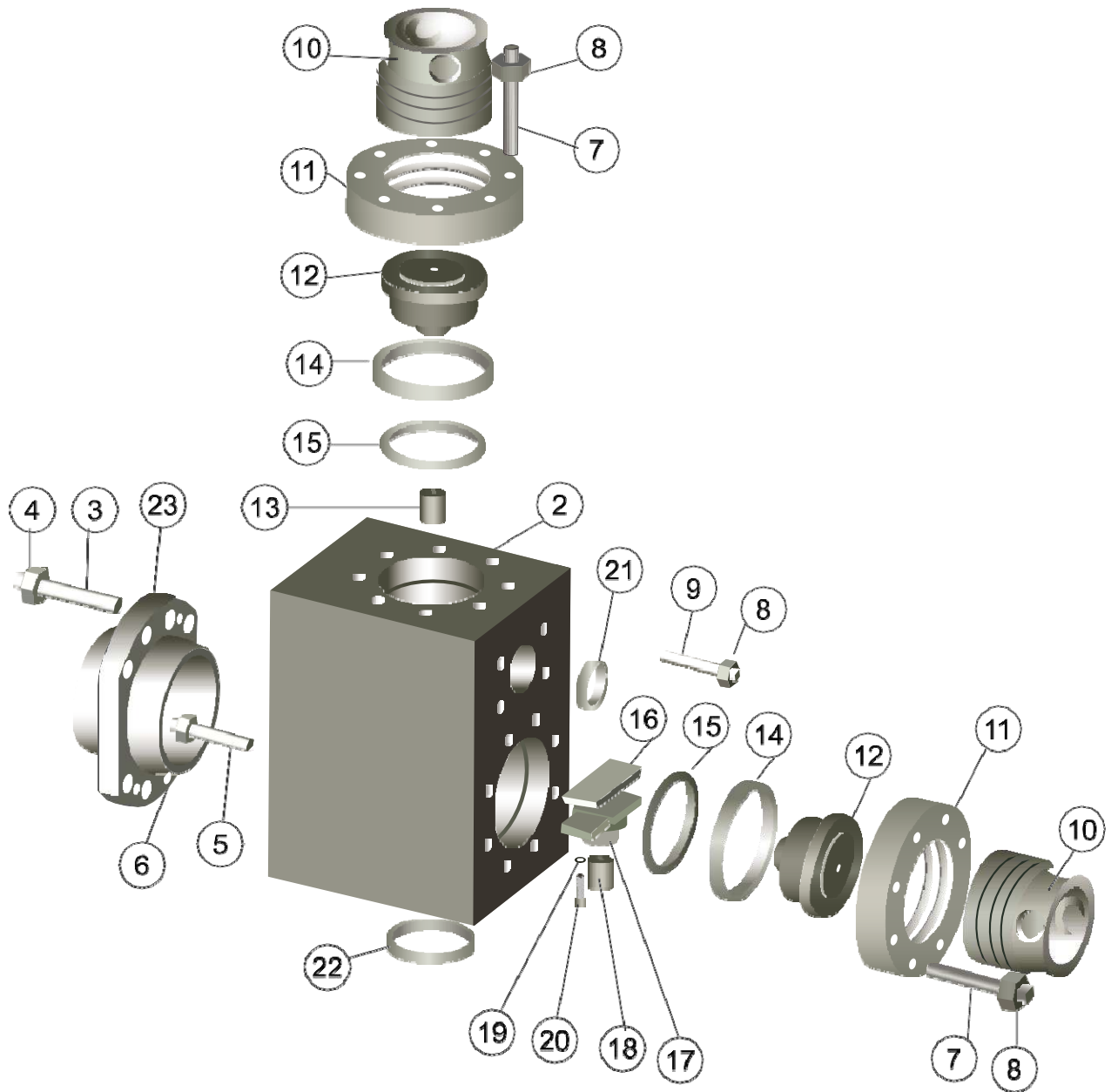
GARDNER DENVER PAH (All Models)

Item	Part No.	Description	Qty per Pump
1	MK-200PJH029B	Fluid Module, Studded (Included Items 2 – 6)	(3)
2		Fluid Module, Only	3
3	MK-79AJ2	Stud – Frame, Liner Clamp	18
4	MK-50B35	Nut – Frame, Liner Clamp	36
5	MK-79L142	Stud – Discharge Manifold	12
6	MK-50B9	Nut – Discharge Manifold	12
7	MK-3PA587	Threaded Cap	6
8	MK-200PJH147	Cover – Valve	6
9	MK-200PJH715	Gasket – Valve Cover	6
10	MK-2013547	Bushing – Discharge Valve Cover	3
11	MK-200PJH205	Retainer	3
12	MK-200PJH483	Valve Guide – Suction	3
13	MK-25G18	Gasket – Suction Manifold	3
14	MK-25AL54	Gasket – Discharge Manifold	3
15	MK-1PA217	Clamp – Liner	3



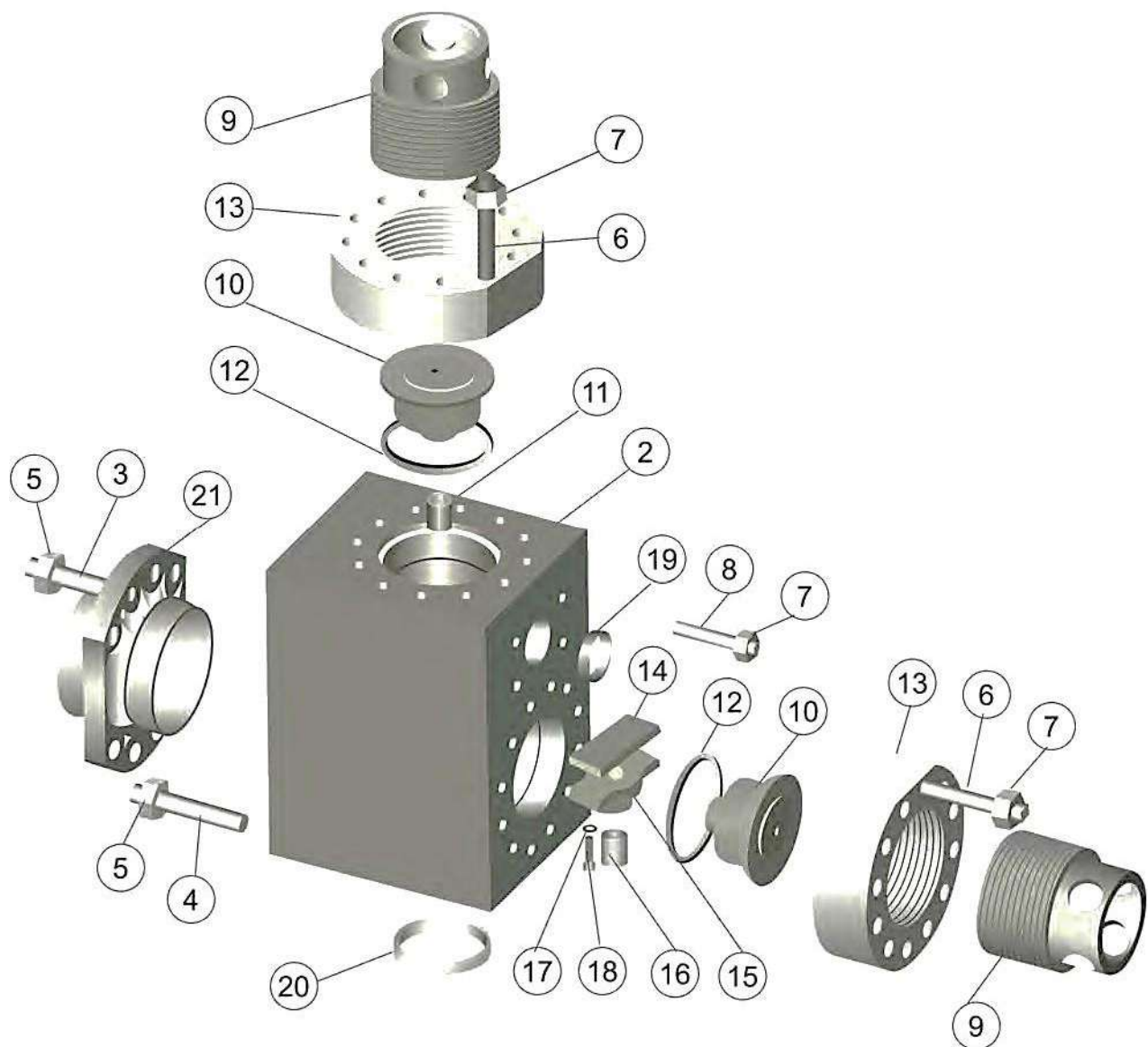
GARDNER DENVER PZ-7, PZ-8 & PZ-9

Item	Part No.	Description	Qty per Pump
1	MK-205PZL029D	Fluid Module, Studded (Included Items 2 – 9)	(3)
2	MK-205PZL029	Fluid Module, Only	3
3	MK-79L188	Stud – Frame, Liner Clamp	24
4	MK-50B36	Nut – Frame, Liner Clamp	48
5	MK-79L73	Stud – Frame	12
6	MK-50AQ30	Nut – Frame	12
7	MK-79AL6	Stud – Threaded Ring	48
8	MK-50B34	Nut – Threaded Ring, Discharge Manifold	60
9	MK-202PZL110	Stud – Discharge Manifold	12
10	MK-2011857	Cap – Valve Lock	6
11	MK-2011699	Threaded Ring	6
12	MK-2011860	Cover – Valve	6
13	MK-2007674	Valve Guide Bushing	3
14	MK-2011862	Gasket – Valve Cover	6
15	MK-2011861	Ring – Retaining / Valve Cover Gasket	6
	MK-2011706	Valve Guide Assembly (Included Items 16 – 20)	(3)
16	MK-2011701	Retainer Plate	3
17	MK-2011700	Valve Guide – Suction	3
18	MK-2007674	Valve Guide Bushing – Suction	3
19	MK-95W2	Lock Washer – Valve Guide / Suction	6
20	MK-655EE06S	Bolt – Valve Guide / Suction	6
21	MK-25AL35	Gasket – Discharge Manifold	3
22	MK-25G41	Gasket – Suction Manifold	3
23	MK-1PV14	Liner Clamp	3



GARDNER DENVER PZ-10 & PZ-11

Item	Part No.	Description	Qty per Pump
1	MK-202PZL029B	Fluid Module, Studded (Included Items 2 – 8)	(3)
2	MK-202PZL029	Fluid Module, Only	3
3	MK-201PZL110	Stud – Frame, Liner Clamp	24
4	MK-205PZL110	Stud – Frame	24
5	MK-50B36	Nut – Frame, Liner Clamp	60
6	MK-204PZL110	Stud – Threaded Ring	72
7	MK-50B34	Nut – Threaded Ring, Discharge Manifold	84
8	MK-202PZL110	Stud – Discharge Manifold	12
9	MK-200PZL587	Cap – Valve Lock	6
10	MK-200PZL147	Cover – Valve	6
11	MK-2007674	Valve Guide Bushing – Discharge	3
12	MK-204PZL715	Gasket – Valve Cover	6
13	MK-200PZL387	Threaded Ring	6
	MK-200PZL483A	Valve Guide Assembly (Included Items 14 – 18)	(3)
14	MK-2011701	Retainer Plate	3
15	MK-200PZL483	Valve Guide – Suction	3
16	MK-2007674	Valve Guide Bushing – Suction	3
17	MK-95W2	Lock Washer – Valve Guide / Suction	6
18	MK-655EE06S	Bolt – Valve Guide / Suction	6
19	MK-25AL35	Gasket – Discharge Manifold	3
20	MK-25BE41	Gasket – Suction Manifold	3
21	MK-200PZL455	Liner Clamp	3
22	MK-0197-60 (CR)	LINER CERAMIC 6"	3
23	MK-0197-64 (CR)	INER CERAMIC 6-1/2"	3

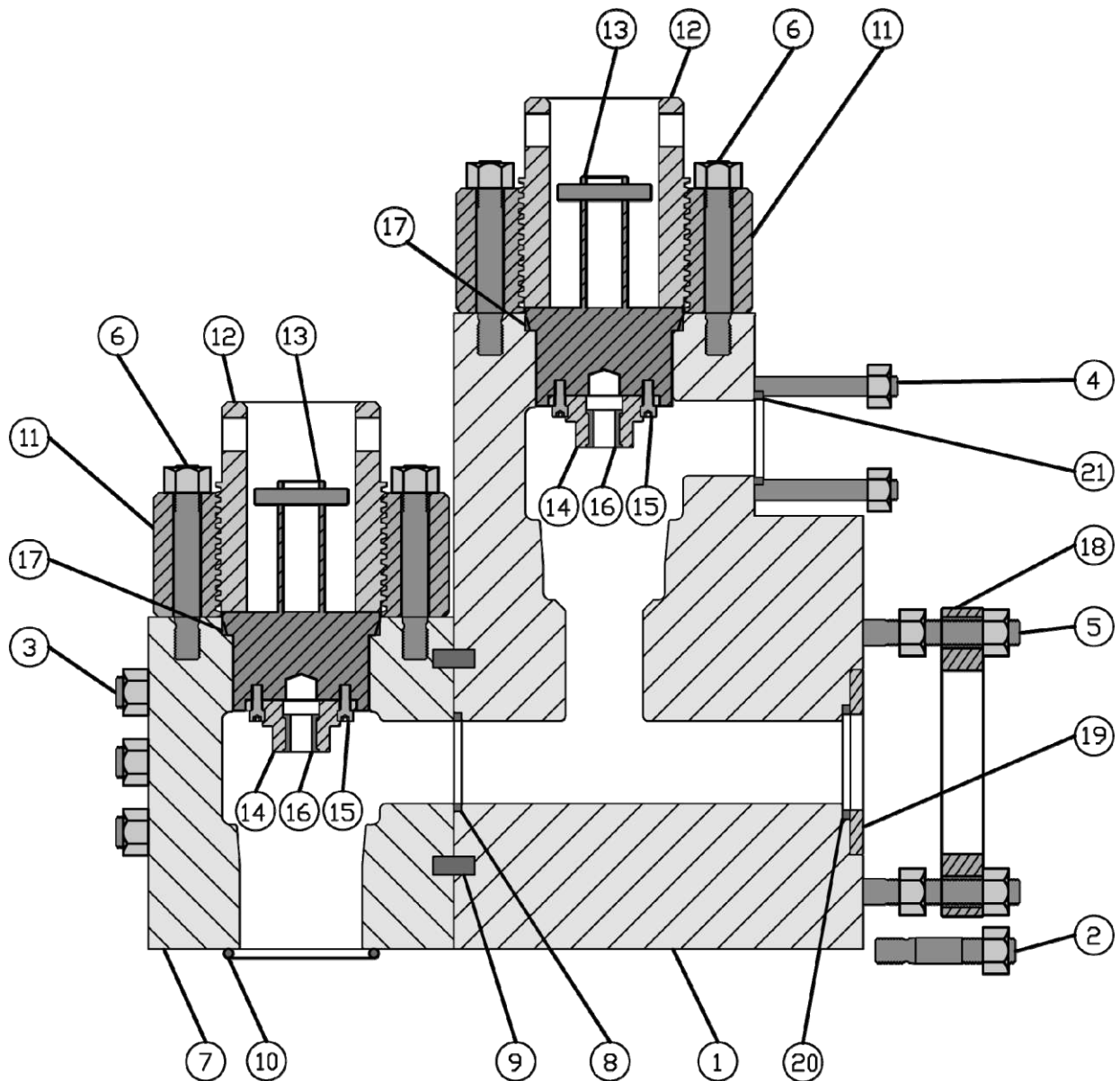


“L” SHAPED PZ-10 & PZ-11

Item	Part No.	Description	Qty per Pump
	MK-8477-A	Complete Assembly	(3)
	MK-8477-1	Fluid Module, Discharge - Studded (included items 1-6)	(3)
1		Fluid Module - Discharge	3
2	MK-4018-35	Stud w/Nut - Frame	24
3	MK-4016-97	Stud w/Nut - Suction Module	18
4	MK-4017-5	Stud w/Nut - Discharge Manifold	12
5	MK-4018-34	Stud w/2 Nut - Liner Retainer	24
6	MK-4015-2	Stud w/Nut - Valve Cover	72
	MK-8477-2	Fluid Module, Suction - Studded (included items 6-7)	(3)
7		Fluid Module - Suction	3
8	MK-2988	Seal - Suction Module	3
9	MK-8488-5	Dowel Pin	6
10	MK-25BE41	Seal - Suction Manifold	3
11	MK-4475	Threaded Flange	6
12	MK-4575	Screw Gland	6
	MK-4675-1A	Valve Cover Plug Assembly (included items 13-16)	(6)
13	MK-4675-1	Plug - Valve Cover	6
14	MK-4775	Valve Guide	6
15	MK-4016-99	Stud w/Nut - Valve Guide	24
16	MK-4700-I	Insert - Valve Guide	6
17	MK-P129	Seal - Valve Cover Plug	6
18	MK-6477	Liner Retainer Flange	3
19	MK-8477-3	Plate - Wear	3
20	MK-2930-08	Seal - Wear Plate	3
21	MK-25AL35	Seal - Discharge Manifold	3

"L" Shaped PZ-10 PZ-11

FLUID END MODULE
AND ACCESSORIES



GARDNER DENVER OTHER PARTS

No	Description	P/N	Remarks
1	Valve Insert Rubber API #7 (FB1300/FB1600)	MK-DD-7B	Gardner Denver PZ-7/8/9/10/11
2	Valve Assy API #7 (Rubber Insert) (FB1300/FB1600)	MK-5C-EEF	Gardner Denver PZ-7/8/9/10/11
3	Pulsation Dampener Bladder K 20 Hydrill	MK-K20BL (5000 Psi)	Gardner Denver PZ-7/8/9/10/11
4	K20 STABILIZER RUBBER	K-37016	Gardner Denver PZ-7/8/9/10/11
5	SEAL PONY ROD	MK-2011872	Gardner Denver PZ-7/8/9

IDECO

MUD PUMP EXPENDABLES

IDECO

7 × 8

T-500

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0234-40	MKG-0783
4½"	MK-0234-44	MKG-0783
5"	MK-0234-50	MKG-0783
5½"	MK-0234-54	MKG-0783
6"	MK-0234-60	MKG-0783
6¼"	MK-0234-62	MKG-0783
6½"	MK-0234-64	MKG-0783
6¾"	MK-0234-66	MKG-0783
7"	MK-0234-70	MKG-0783

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0783	MKG-0783

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115L	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-115L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-2	MK-950	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0520008	MK-05147900	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0520008	MK-05144230	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0237	N/A	MK-16-0237	MK-24-0237	MK-7403364

IDECO

7 × 9

T-800

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0230-40	MKG-0783
4½"	MK-0230-44	MKG-0783
5"	MK-0230-50	MKG-0783
5½"	MK-0230-54	MKG-0783
6"	MK-0230-60	MKG-0783
6¼"	MK-0230-62	MKG-0783
6½"	MK-0230-64	MKG-0783
6¾"	MK-0230-66	MKG-0783
7"	MK-0230-70	MKG-0783

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0783	MKG-0783

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115L	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-115L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-2	MK-950	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0520008	MK-05147900	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0520008	MK-05144230	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0230	N/A	MK-16-0230	MK-24-0230	MK-7403364

IDECO

7 × 10

T-1000

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0230-40	MKG-0783
4½"	MK-0230-44	MKG-0783
5"	MK-0230-50	MKG-0783
5½"	MK-0230-54	MKG-0783
6"	MK-0230-60	MKG-0783
6¼"	MK-0230-62	MKG-0783
6½"	MK-0230-64	MKG-0783
6¾"	MK-0230-66	MKG-0783
7"	MK-0230-70	MKG-0783

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0783	MKG-0783

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115L	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-115L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-2	MK-950	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0520008	MK-05147900	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0520008	MK-05144230	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0230	N/A	MK-16-0231	MK-24-0230	MK-7403364

IDECO

7½ × 12

T-1300

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0233-40	MKG-0782
4½"	MK-0233-44	MKG-0782
5"	MK-0233-50	MKG-0782
5½"	MK-0233-54	MKG-0782
6"	MK-0233-60	MKG-0782
6¼"	MK-0233-62	MKG-0782
6½"	MK-0233-64	MKG-0782
6¾"	MK-0233-66	MKG-0782
7"	MK-0233-70	MKG-0782
7½"	MK-0233-74	MKG-0782

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0782	MKG-0782

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-115	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-115	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-115L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	MK-RB-740	MK-LL-740

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0233	N/A	MK-16-0233	MK-24-0233	MK-7403364

IDECO

7½ × 12

T-1600

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0233-40	MKG-0782
4½"	MK-0233-44	MKG-0782
5"	MK-0233-50	MKG-0782
5½"	MK-0233-54	MKG-0782
6"	MK-0233-60	MKG-0782
6¼"	MK-0233-62	MKG-0782
6½"	MK-0233-64	MKG-0782
6¾"	MK-0233-66	MKG-0782
7"	MK-0233-70	MKG-0782
7½"	MK-0233-74	MKG-0782

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0782	MKG-0782

SERIES	VALVES	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-115	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-115	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-115L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	MK-RB-740	MK-LL-740

* ¼ Size are available upon request

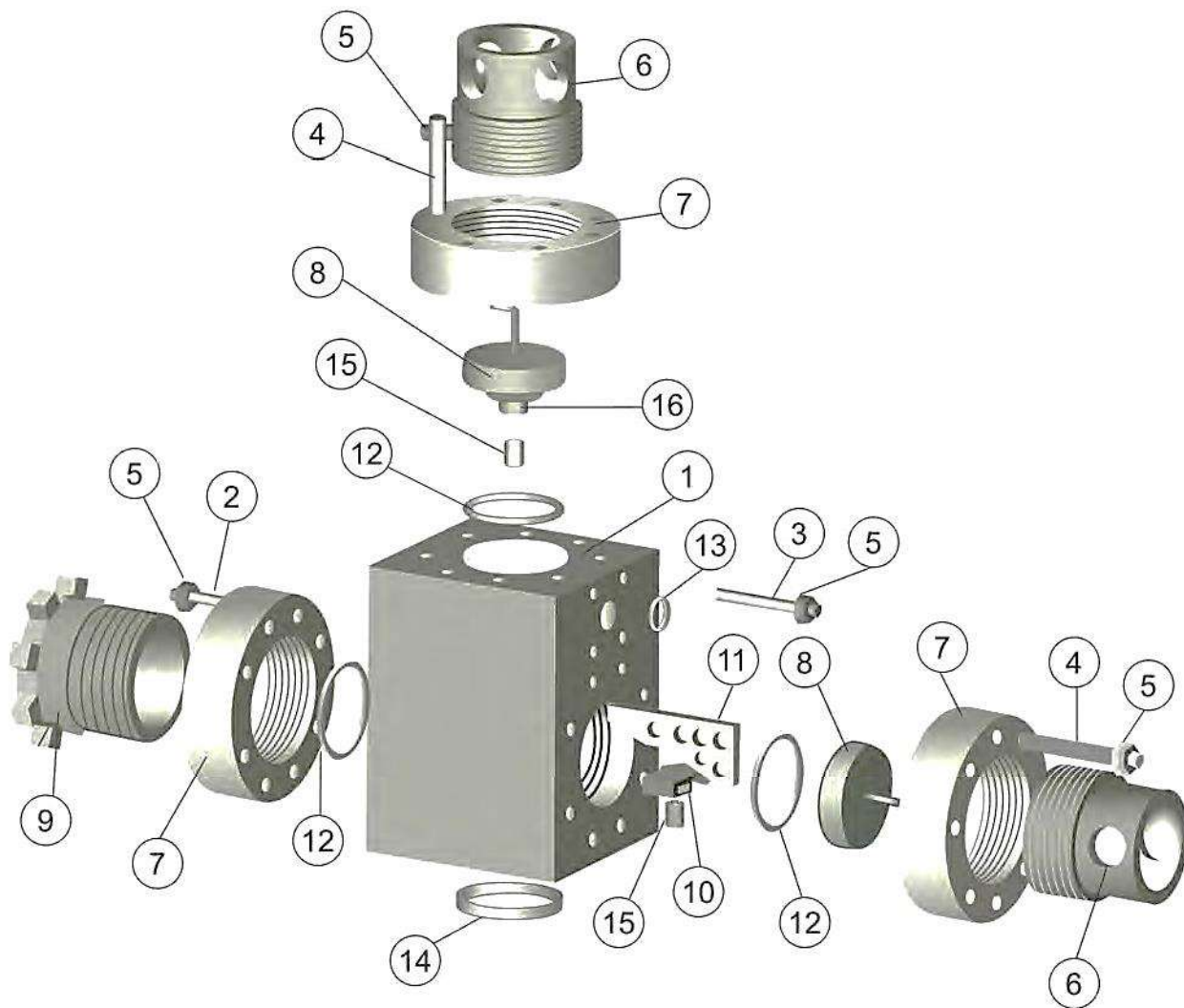
RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0233	N/A	MK-16-0233	MK-24-0233	MK-7403364

IDECO

FLUID END MODULE AND ACCESSORIES

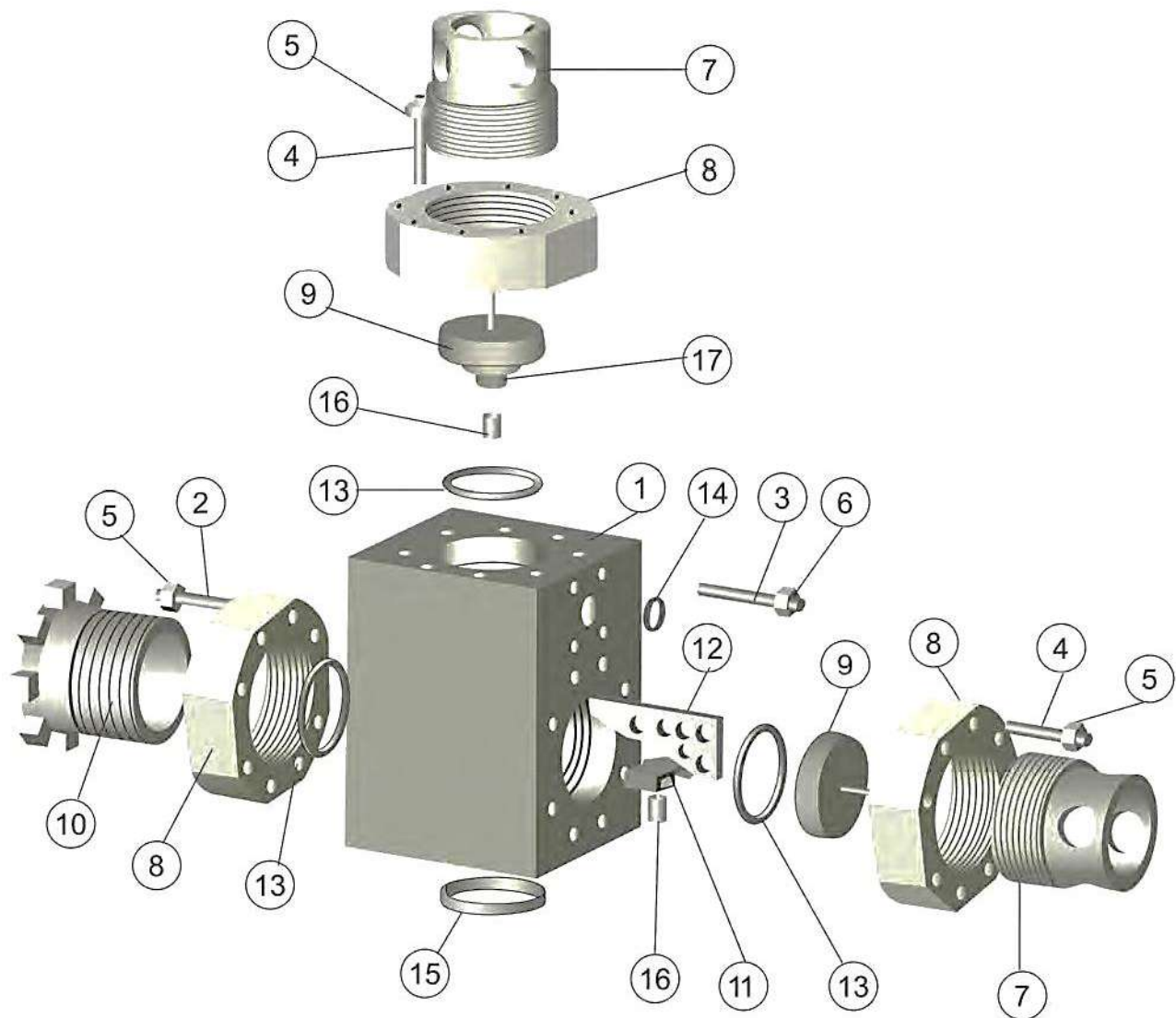
IDECO T-500, T-800 & T-1000

Item	Part No.	Description	Qty per Pump
1	MK-551-458	Fluid Module, Only (Studded Included Items 1 – 5)	3
2	MK-551-410-01	Stud – Frame	24
3	MK-551-410-02	Stud – Discharge Manifold	12
4	MK-551-410-03	Stud – Threaded Ring	48
5	MK-IN-416	Nut	84
6	MK-551-405-04	Threaded Plug Retainer	6
7	MK-551-405-03	Threaded Ring	9
8	MK-551-422-02	Cylinder Head Plug	3
	MK-551-422-03	Cylinder Head Plug – Top (Included Items 8 & 16)	3
9	MK-551-405-05	Threaded Liner Retainer	3
10	MK-551-405-07	Lower Valve Guide	3
11	MK-551-422-04	Retainer – Lower Valve Guide	3
12	MK-BMT-1669-63-09	Seal – Cylinder Head Plug, Liner	9
13	MK-IO-548	Seal – Discharge Manifold	3
14	MK-IO-521	Seal – Suction Manifold	3
15	MK-551-405-09	Valve Guide Bushing	6
16	MK-551-405-06	Upper Valve Guide	3



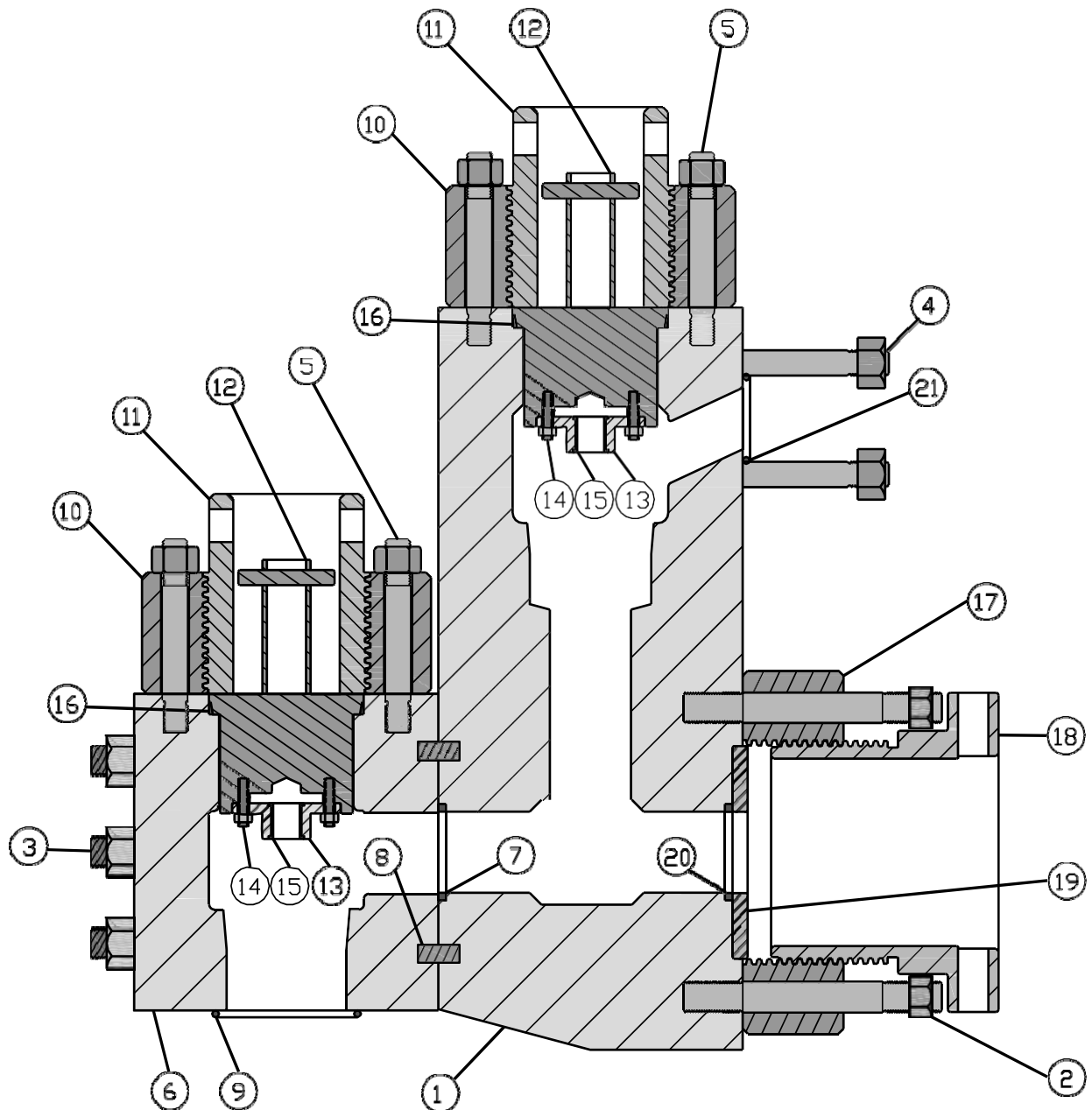
IDECO T-1300 & T-1600

Item	Part No.	Description	Qty per Pump
1	MK-551-122-01	Fluid Module Only (Studded Included Items 1 – 6)	3
2	MK-551-110-01	Stud – Frame, Threaded Ring	24
3	MK-551-110-02	Stud – Discharge Manifold	12
4	MK-551-110-03	Stud – Threaded Ring	48
5	MK-IN-415	Nut – Threaded Ring	72
6	MK-IN-416	Nut – Discharge Manifold	12
7	MK-551-105-04	Threaded Plug Retainer	6
8	MK-551-105-03	Threaded Ring	9
9	MK-551-122-02	Cylinder Head Plug	3
	MK-551-122-03	Cylinder Head Plug – Top (Included Items 9 & 17)	3
10	MK-551-105-05	Threaded Liner Retainer	3
11	MK-551-105-07	Lower Valve Guide	3
12	MK-551-105-08	Retainer – Lower Valve Guide	3
13	MK-BMT-1669-63-08	Seal – Cylinder Head Plug, Liner	9
14	MK-IO-548	Seal – Discharge Manifold	3
15	MK-IO-507	Seal – Suction Manifold	3
16	MK-551-105-09	Valve Guide Bushing	6
17	MK-551-105-06	Upper Valve Guide	3



“L” SHAPED T-1300 & T-1600

Item	Part No.	Description	Qty per Pump
	MK-8407-7A	Complete Assembly	(3)
	MK-8407-7	Fluid Module, Discharge - Studded (included items 1-5)	(3)
1		Fluid Module - Discharge	3
2	MK-4018-68	Stud w/Nut - Frame, Liner Retainer	24
3	MK-4016-97	Stud w/Nut - Suction Module	24
4	MK-4017-50	Stud w/Nut - Discharge Manifold	12
5	MK-4015-2	Stud w/Nut - Valve Cover	48
	MK-8407-11	Fluid Module, Suction - Studded (included items 5-6)	(3)
6		Fluid Module - Suction	3
7	MK-2988	Seal - Suction Module	3
8	MK-8488-5	Dowel Pin	6
9	MK-IO-507	Seal - Suction Manifold	3
10	MK-4475	Threaded Flange	3
11	MK-4575	Screw Gland	3
	MK-4675-2A	Valve Cover Plug Assembly (included items 12-15)	(3)
12	MK-4675-2	Plug - Valve Cover	3
13	MK-4775-2	Valve Guide	3
14	MK-4016-99	Stud w/Nut - Valve Guide	12
15	MK-4700-I	Insert - Valve Guide	3
16	MK-P129	Seal - Valve Cover Plug	3
17	MK-6407	Liner Retainer Flange	3
18	MK-6507	Nut - Liner Retainer	3
19	MK-8407-10	Plate - Wear	3
20	MK-2988	Seal - Wear Plate	3
21	MK-IO-548	Seal - Discharge Manifold	3



IDECO OTHER PARTS

No	Description	P/N	Remarks
1	Discharge Manifold IDECO T800	MK-551-405-11	IDECO T800
2	Stud Manifold 1 1/4" Ideco T 500/800/1000	MK-551-410-02	IDECO T800
3	Nut, Ideco T 500/800/1000/1300/1600	MK-IN-416	IDECO T800

NATIONAL

MUD PUMP EXPENDABLES

NATIONAL

4½ × 5

JWS165/340

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
3"	MK-0240-30	MK-1712064
3½"	MK-0240-34	MK-1712064
4"	MK-0240-40	MK-1712064
4½"	MK-0240-44	MK-1712064

Gaskets	
JWS165	MK-2410031-429
JWS340	MK-1718265

SERIES	MKP – G2	MKP – G2
	SUCTION	DISCHARGE
VALVE (Urethane Insert)	MK-1561575	MK-1561575
VALVE (Rubber Insert)	N/A	N/A
VALVE SEAT	MK-1561571	MK-1561572
VALVE SPRING	MK-1712211	MK-1712206
VALVE INSERT (Urethane)	MK-1561577	MK-1561577
VALVE INSERT (Red Thunder)	N/A	N/A
VALVE INSERT (Rubber)	N/A	N/A
VALVE SEAT PULLER HEAD	N/A	N/A

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
3"	N/A	MK-130-HA 10	MK-130-HA	N/A	N/A
3½"	N/A	MK-134-HK 10	MK-134-HK	N/A	N/A
4"	MK-RT-400-10	MK-140-HK 10	MK-140-HB	MK-RB-400-10	MK-LL-400-10
4½"	MK-RT-440-10	MK-144-HK 10	MK-144-HK	MK-RB-440-10	MK-LL-440-10

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
ONE PIECE	MK-0238		MK-16-0238	MK-24-0238	MK-7403224

NATIONAL

5½ × 7

JWS400

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0237-40	MKG-0272
4½"	MK-0237-44	MKG-0274
5"	MK-0237-50	MKG-0276
5½"	MK-0237-54	MKG-0278

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MK-1715146	N/A

SERIES	MKP – G2	MKP – G2
	SUCTION	DISCHARGE
VALVE (Urethane Insert)	MK-1561575	MK-1561575
VALVE (Rubber Insert)	N/A	N/A
VALVE SEAT	MK-1561561	MK-1561569
VALVE SPRING	MK-1560698	MK-1717296
VALVE INSERT (Urethane)	MK-1561577	MK-1561577
VALVE INSERT (Red Thunder)	N/A	N/A
VALVE INSERT (Rubber)	N/A	N/A
VALVE SEAT PULLER HEAD	N/A	N/A

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400-10	MK-140-HK 10	MK-140-HK	MK-RB-400-10	MK-LL-400-10
4½"	MK-RT-440-10	MK-144-HK 10	MK-144-HK	MK-RB-440-10	MK-LL-440-10
5"	MK-RT-500-10	MK-150-HB 10	MK-150-HB	MK-RB-500-10	MK-LL-500-10
5½"	MK-RT-540-10	MK-154-HB 10	MK-154-HB	MK-RB-540-10	MK-LL-540-10

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-2239-A	MK-2239-B	MK-16-2239	MK-24-2239	MK-7403224



MUD PUMP EXPENDABLES

TRIPLEX FLUID END PARTS

NATIONAL

6¹/₄ × 7³/₄

7-P-50

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0257-40	MKG-0272
4½"	MK-0257-44	MKG-0274
5"	MK-0257-50	MKG-0276
5½"	MK-0257-54	MKG-0278
6"	MK-0257-60	MKG-0280
6¾"	MK-0257-62	MKG-0268

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MK-61-0253	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-05	MK-5DD-B03	MK-5710-111	MK-UDD-5B	MK-1700-5
MKP-FULL OPEN	MK-5DFO-V1	MK-5DFO-S3	MK-5710-030	MK-5DFO-SI	MK-1700-5FO
MKP-DOUBLE ANGLE	MK-0500117	MK-0515745	MK-05147900	MK-0515844	MK-1700-5BA
MKP-PLATE TYPE	MK-0504991	MK-0515745	MK-05144230	MK-0504888	MK-1700-5BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0257-A	MK-0257-B	MK-16-0257	MK-24-0257	MK-7403364

NATIONAL

6½ × 8½

8-P-80

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0256-40	MKG-0272
4½"	MK-0256-44	MKG-0274
5"	MK-0256-50	MKG-0276
5½"	MK-0256-54	MKG-0278
6"	MK-0256-60	MKG-0280
6¼"	MK-0256-62	MKG-0268
6½"	MK-0256-64	MKG-0268

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MK-61-0255	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B04	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B04	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S4	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561450	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S4	MK-5710-115L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-1	MK-951	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0512436	MK-05147900	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0512436	MK-05155760	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HB 14/15	MK-164-HB	MK-RB-640	MK-LL-640

* ¾ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0259-A	MK-0259-B	MK-16-0259	MK-24-0259	MK-7403364

NATIONAL

6³/₄ × 9¹/₄

9-P-100

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
	PART NO.	PART NO.
4"	N/A	N/A
4½"	MK-0255-44	MKG-0274
5"	MK-0255-50	MKG-0265
5½"	MK-0255-54	MKG-0263
6"	MK-0255-60	MKG-0261
6¼"	MK-0255-62	MKG-0283
6½"	MK-0255-64	MKG-0768
6¾"	MK-0255-66	MKG-0768

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MK-61-0255	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B04	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B04	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S4	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561450	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S4	MK-5710-115L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-1	MK-951	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0512436	MK-05147900	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0512436	MK-05155760	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640

* ¾ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0260-A	MK-0260-B	MK-16-0260	MK-24-0260	MK-7403364

NATIONAL

6¾ × 10

10-P-130

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	N/A	N/A
4½"	MK-0255-44	MKG-0274
5"	MK-0255-50	MKG-0265
5½"	MK-0255-54	MKG-0263
6"	MK-0255-60	MKG-0261
6¼"	MK-0255-62	MKG-0283
6½"	MK-0255-64	MKG-0768
6¾"	MK-0255-66	MKG-0768

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MK-61-0255	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B04	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B04	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S4	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561450	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S4	MK-5710-115L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-1	MK-951	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0512436	MK-05147900	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0512436	MK-05155760	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640

* ¾ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NUMBER	MK-0256-A	MK-0256-B	MK-16-0256	MK-24-0256	MK-7403364

NATIONAL

7½ × 12

12-P-160

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0259-40	MKG-0265
4½"	MK-0259-44	MKG-0265
5"	MK-0259-50	MKG-0264
5½"	MK-0259-54	MKG-0263
6"	MK-0259-60	MKG-0261
6¼"	MK-0259-62	MKG-0283
6½"	MK-0259-64	MKG-0284
6¾"	MK-0259-66	MKG-0287
7"	MK-0259-70	MKG-0285
7¼"	MK-0259-72	MKG-0286
7½"	MK-0259-74	N/A

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0771	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B12	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B12	MK-5710-115	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S12	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561440	MK-1560702	MK-1560557	MK-1700-7G2
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S12	MK-5710-115L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-8	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0514299	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0514299	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-170-HL	MK-RB-740	MK-LL-740

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0258-A	MK-0258-B	MK-16-0258	MK-24-0258	MK-7403364

NATIONAL

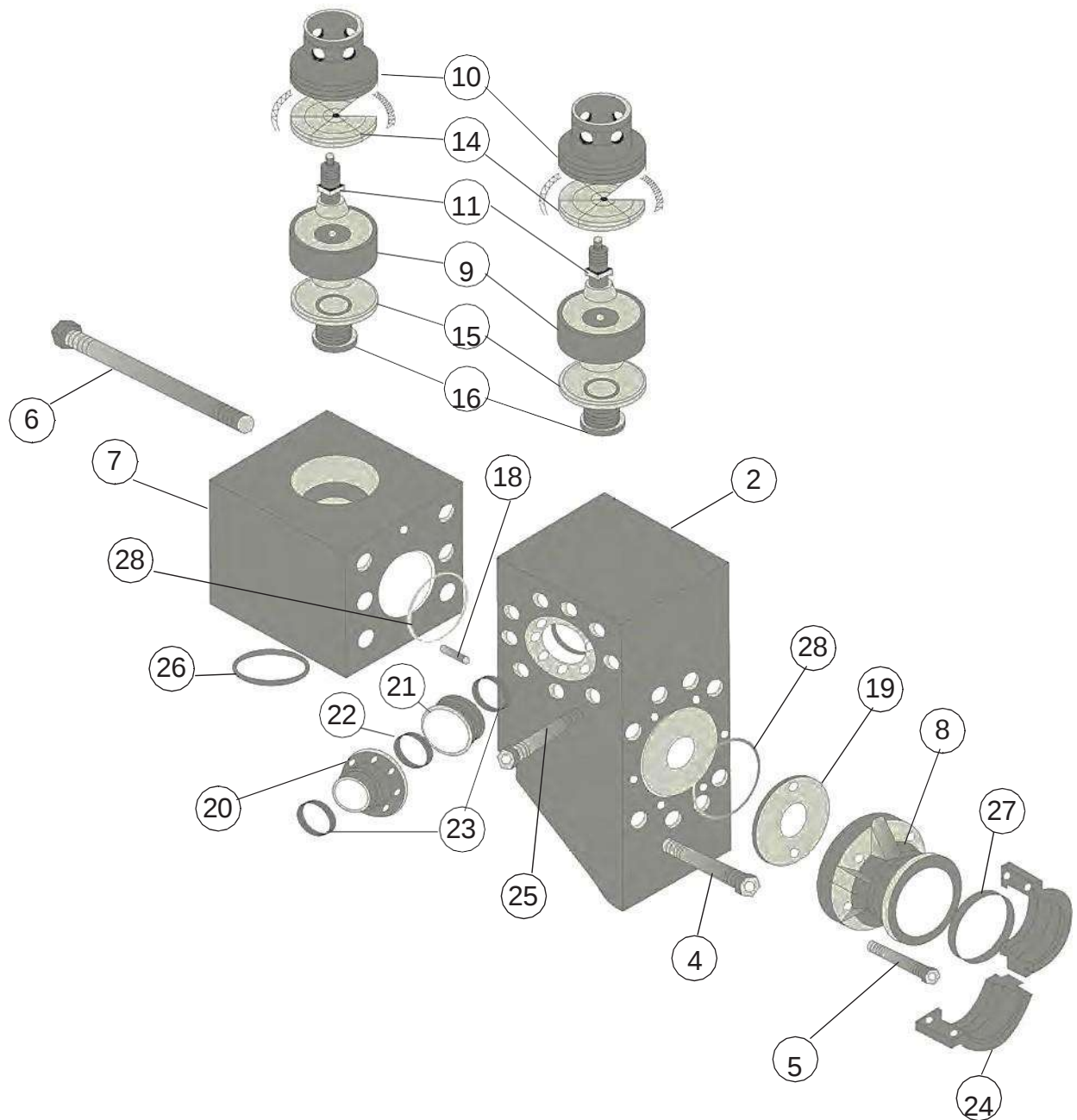
FLUID END MODULE AND ACCESSORIES

NATIONAL 7-P-50

Item	Part No.	Description	Qty per Pump
1	MK-1294150	Discharge Module, Studded (Included Items 2 – 7)	(3)
2	MK-1291251 / MK-1294151	Discharge Module, Only	3
3	MK-6300160	Nut – Wedge Adjusting	24
4	MK-2408042	Stud w/Nut – Frame	24
5	MK-2408043	Stud w/Nut – Liner Bushing	18
6	MK-2408041	Stud w/Nut – Discharge to Suction	18
7	MK-1294156	Suction Module	3
8	MK-1294165	Bushing – Liner	3
9	MK-1294174	Seal Retainer	6
10	MK-1294172	Valve Cover	6
11	MK-1290178	Screw – Wedge Adjusting	6
12	MK-1290315*	Washer – Wedge Adjusting	6
13	MK-1290181*	Spring – Wedge Assembly	6
14	MK-1290376	Wedge Assembly	6
15	MK-1540126	Gasket – Valve Cover	6
16	MK-1292140	Holder – Valve Guide	6
17	MK-1292141*	Insert – Valve Guide	6
18	MK-6511416	Pin, Dowell	6
19	MK-1294160	¹ Plate – Wear	3
20	MK-1294170	Connector – Discharge	2
21	MK-1294171	Adapter – Discharge Connector	2
22	MK-2410031-348	Packing, Rectangular	2
23	MK-2410031-427	Packing, Rectangular	4
24	MK-1294166	Clamp – Liner	3
25	MK-2402560	Stud w/ Nut, Discharge Spacer	16
26	MK-1 540142	Seal – Suction Manifold	3
27	MK-1294168	Collar – Liner	3
28	MK-1294192	Seal – Module, Wear Plate	6

¹Offered in Plain Carbon or Stainless Steel

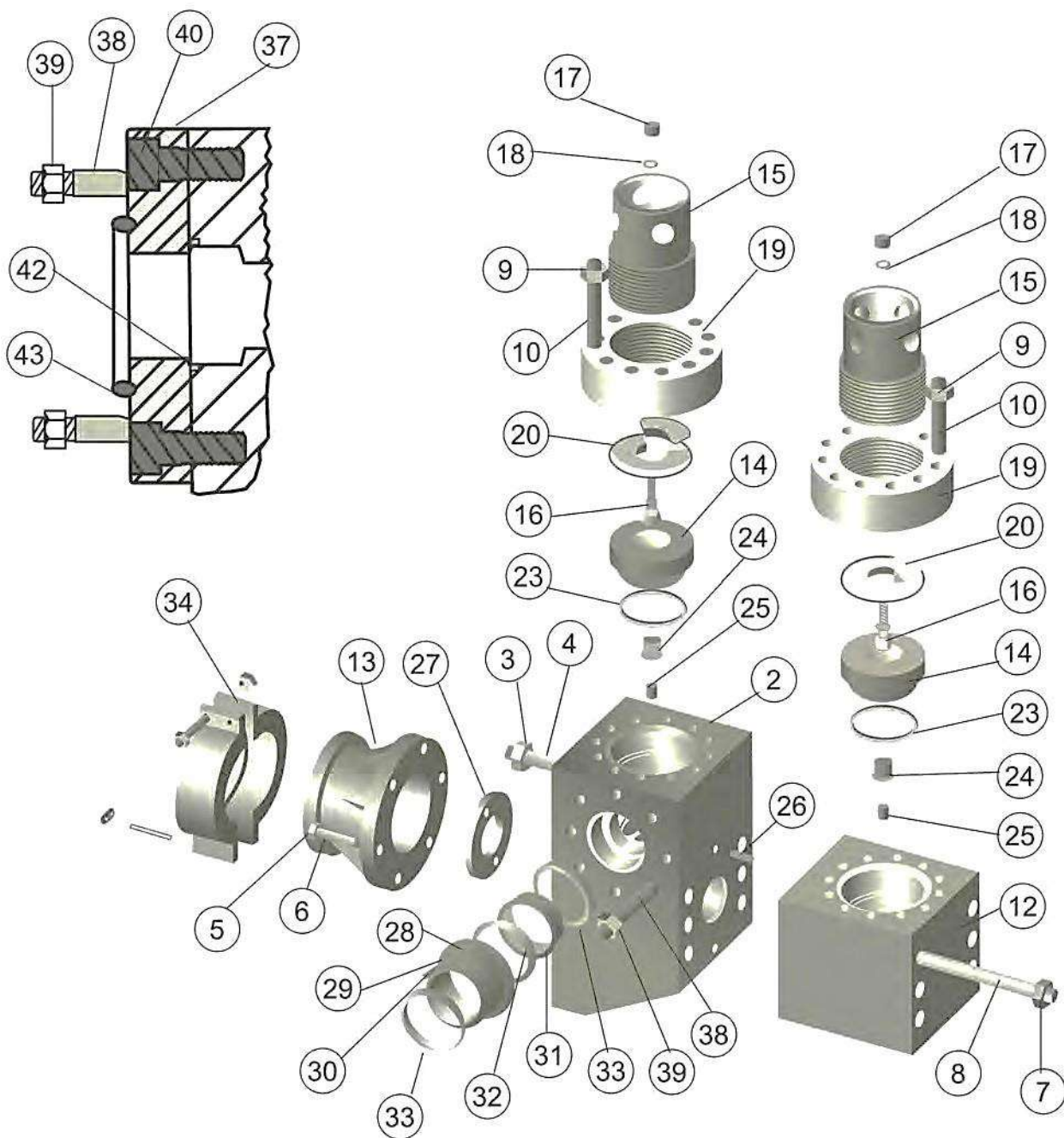
* Not shown



NATIONAL 8-P-80

Item	Part No.	Description	Qty per Pump
1	MK-1291280	Discharge Module, Studded (Included Items 2 – 10)	(3)
2	MK-1291281	Discharge Module, Only	3
3	MK-6300180	Nut – Frame	24
4	MK-2408026	Stud – Frame	24
5	MK-6300120	Nut – Liner Bushing	18
6	MK-2408025	Stud – Liner Bushing	18
7	MK-6300241	Nut – Suction to Discharge Module	18
8	MK-2408034	Stud – Suction to Discharge Module	18
9	MK-6300220	Nut – Threaded Ring	72
10	MK-2408019	Stud – Threaded Ring	72
11	MK-1290338	Suction Module, Studded (Included Items 9, 10, 14)	(3)
12	MK-1290339	Suction Module, Only	3
13	MK-1291165	Bushing – Liner	3
14	MK-1290174	Seal Retainer	6
15	MK-1290307	Valve Cover	6
16	MK-1290178	Screw – Wedge Adjusting	6
17	MK-6300160	Nut – Wedge Adjusting	6
18	MK-1290315	Washer – Wedge Adjusting	6
19	MK-1290308	Threaded Ring	6
20	MK-1290376	Wedge Assembly (Included Items 21 – 22)	(6)
21	MK-1290179*	Wedge, Set	6
22	MK-1290181*	Spring – Wedge Retaining	6
23	MK-1540126	Gasket – Valve Cover	6
24	MK-1292140	Holder – Valve Guide	6
25	MK-1292141	Insert – Valve Guide	6
26	MK-6511416	Pin, Dowell	6
27	MK-1290357	Plate – Wear	3
28	MK-1290342	Connector – Discharge	2
29	MK-7000305-11	Screw, Hex Head	16
30	MK-7619050	Washer, Lock	16
31	MK-1290343	Adapter – Discharge Connector	2
32	MK-2410031-348	Packing, Rectangular	2
33	MK-2410031-427	Packing, Rectangular	4
34	MK-1291166	Clamp – Liner	3
35	MK-1590051*	Seal – Suction Manifold	3
36	MK-1291286	Spacer – Discharge, Studded (included items 37 – 39)	(2)
37	MK-1291287	Spacer – Discharge	2
38	MK-2402560	Stud – Discharge Spacer	16
39	MK-6300200	Nut – Discharge Spacer	16
40	MK-7006607	Capscrew	(16)
41	MK-1290344*	Seal – Module, Wear Plate	6
42	MK-1290345	Seal – Discharge Spacer	2
43	MK-6908033	Ring, Oval Joint	2

¹Offered in Plain Carbon or Stainless Steel * Not shown

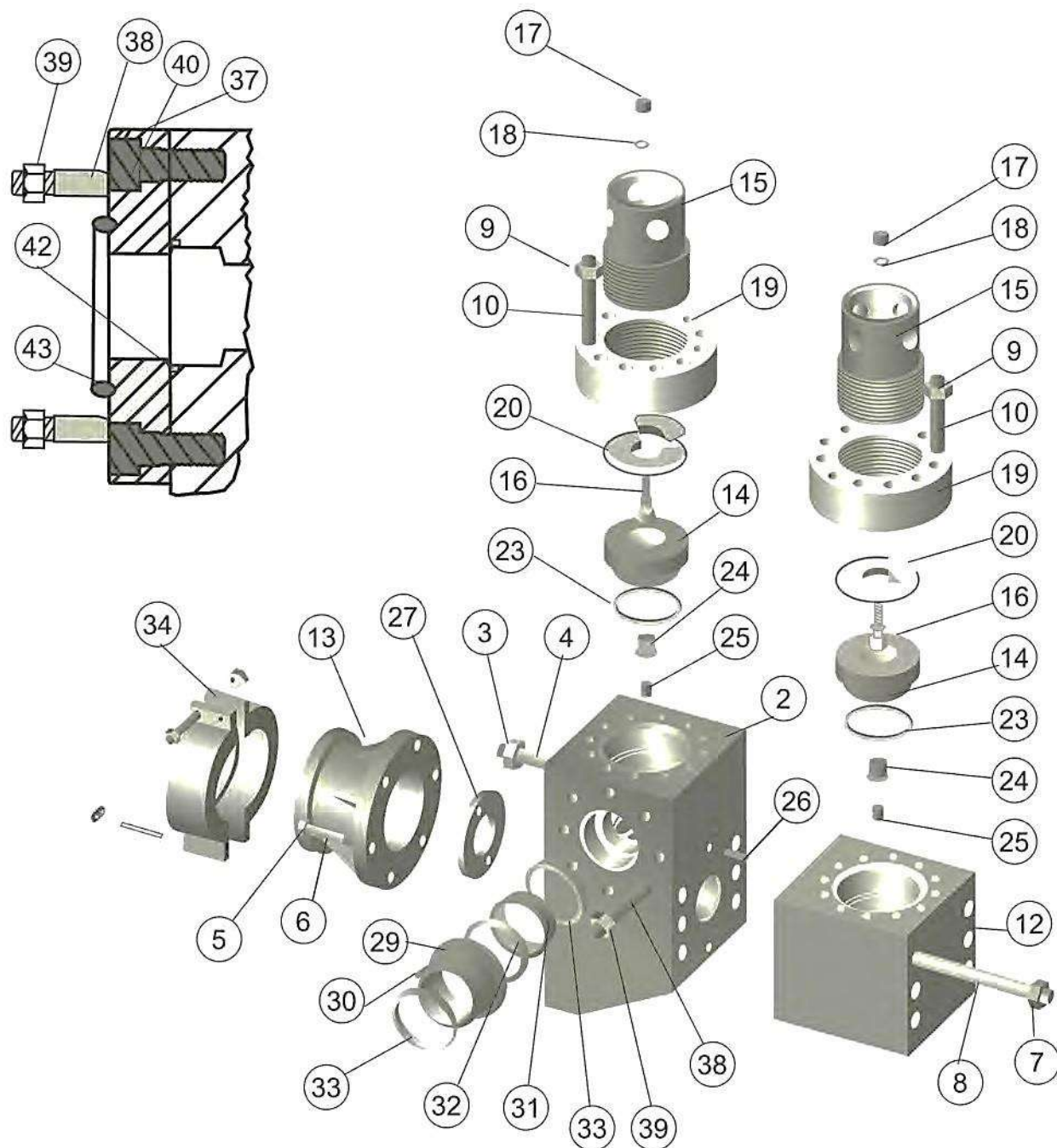


NATIONAL 9-P-100

Item	Part No.	Description	Qty per Pump
1	MK-1293240	Discharge Module, Studded (Included Items 2 – 10)	(3)
2	MK-1293241	Discharge Module, Only	3
3	MK-6300200	Nut – Frame	24
4	MK-2408030	Stud – Frame	24
5	MK-6300160	Nut – Liner Bushing	18
6	MK-2408018	Stud – Liner Bushing	18
7	MK-6300241	Nut – Suction to Discharge Module	18
8	MK-2408034	Stud – Suction to Discharge Module	18
9	MK-6300220	Nut – Threaded Ring	72
10	MK-2408019	Stud – Threaded Ring	72
11	MK-1290338	Suction Module, Studded (Included Items 9, 10, 14)	(3)
12	MK-1290339	Suction Module, Only	3
13	MK-1293165	Bushing – Liner	3
14	MK-1290174	Seal Retainer	6
15	MK-1290307	Valve Cover	6
16	MK-1290178	Screw – Wedge Adjusting	6
17	MK-6300160	Nut – Wedge Adjusting	6
18	MK-1290315	Washer – Wedge Adjusting	6
19	MK-1290308	Threaded Ring	6
20	MK-1290376	Wedge Assembly (Included Items 21 – 22)	(6)
21	MK-1290179*	Wedge, Set	6
22	MK-1290181*	Spring – Wedge Retaining	6
23	MK-1540126	Gasket – Valve Cover	6
24	MK-1292140	Holder – Valve Guide	6
25	MK-1292141	Insert – Valve Guide	6
26	MK-6511416	Pin, Dowell	6
27	MK-1290357	Plate – Wear	3
28	MK-1290342	Connector – Discharge	2
29	MK-7000305-11	Screw, Hex Head	6
30	MK-7619050	Washer, Lock	6
31	MK-1290343	Adapter – Discharge Connector	2
32	MK-2410031-348	Packing, Rectangular	2
33	MK-2410031-427	Packing, Rectangular	4
34	MK-1293166	Clamp – Liner	3
35	MK-1590051*	Seal – Suction Manifold	3
36	MK-1293243	Spacer – Discharge, Studded (Included Items 37 – 39)	(2)
37	MK-1293244	Spacer – Discharge	2
38	MK-2402560	Stud – Discharge Spacer	16
39	MK-6300200	Nut – Discharge Spacer	16
40	MK-7006606	Capscrew	16
41	MK-1290344*	Seal – Module, Wear Plate	6
42	MK-1290345	Seal – Discharge Spacer	2
43	MK-6908033	Ring, Oval Joint	2

¹Offered in Plain Carbon or Stainless Steel

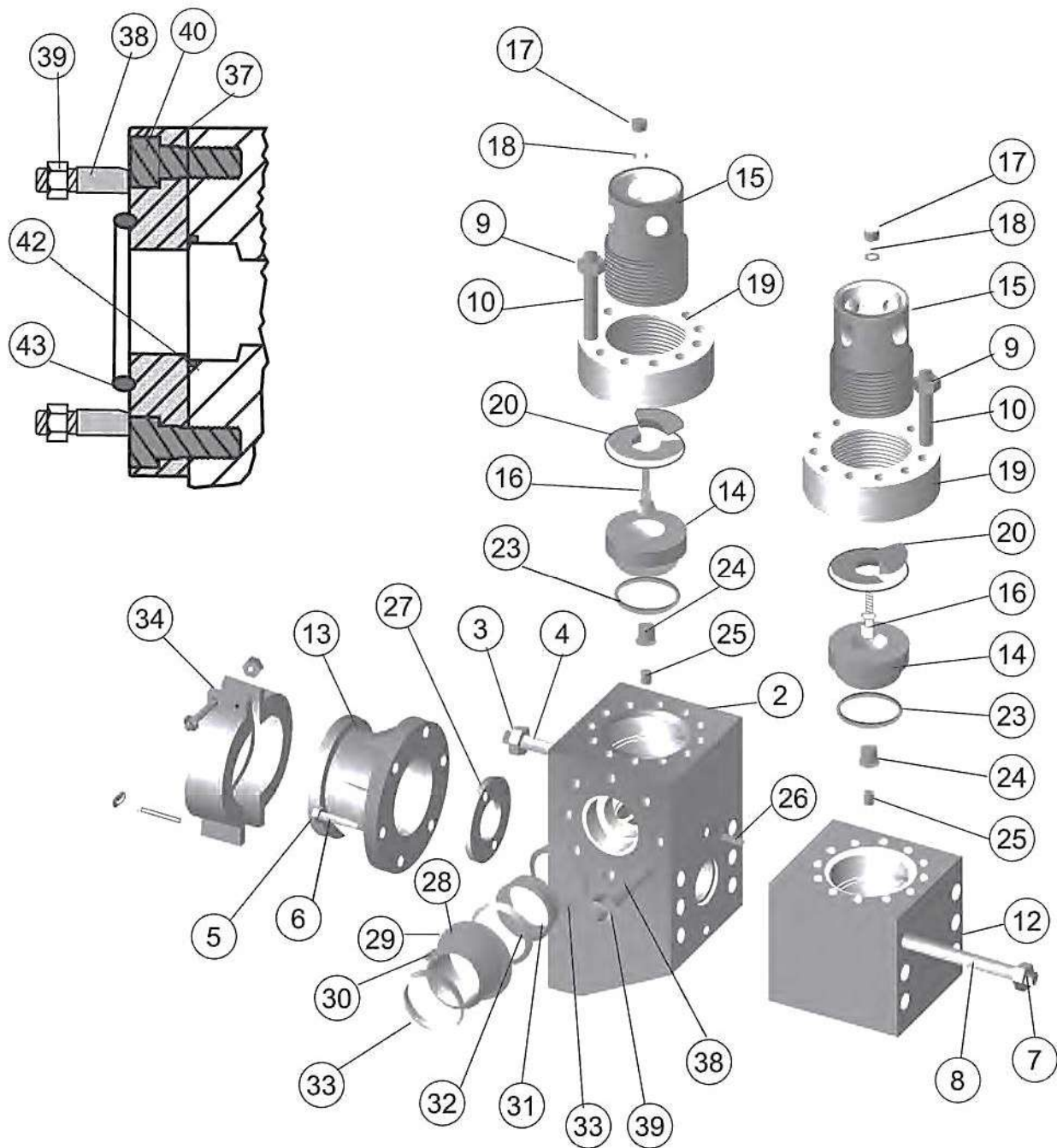
* Not shown



NATIONAL 10-P-130

Item	Part No.	Description	Qty per Pump
1	MK-1290335	Discharge Module, Studded (Included Items 2 – 10)	(3)
2	MK-1290336	Discharge Module, Only	3
3	MK-6300240	Nut – Frame	24
4	MK-2408020	Stud – Frame	24
5	MK-6300160	Nut – Liner Bushing	18
6	MK-2408018	Stud – Liner Bushing	18
7	MK-6300241	Nut – Suction to Discharge Module	18
8	MK-2408034	Stud – Suction to Discharge Module	18
9	MK-6300220	Nut – Threaded Ring	72
10	MK-2408019	Stud – Threaded Ring	72
11	MK-1290338	Suction Module, Studded (Included Items 9, 10, 12)	(3)
12	MK-1290339	Suction Module, Only	3
13	MK-1290165	Bushing – Liner	3
14	MK-1290174	Seal Retainer	6
15	MK-1290307	Valve Cover	6
16	MK-1290178	Screw – Wedge Adjusting	6
17	MK-6300160	Nut – Wedge Adjusting	6
18	MK-1290315	Washer – Wedge Adjusting	6
19	MK-1290308	Threaded Ring	6
20	MK-1290376	Wedge Assembly (Included Items 21 – 22)	6
21	MK-1290179*	Wedge, Set	6
22	MK-1290181*	Spring – Wedge Retaining	6
23	MK-1540126	Gasket – Valve Cover	6
24	MK-1292140	Holder – Valve Guide	6
25	MK-1292141	Insert – Valve Guide	6
26	MK-6511416	Pin, Dowell	6
27	MK-1290357	Plate – Wear	3
28	MK-1290342	Connector – Discharge	2
29	MK-7000305-11	Screw, Hex Head	16
30	MK-7619050	Washer, Lock	16
31	MK-1290343	Adapter – Discharge Connector	2
32	MK-2410031-348	Packing, Rectangular	2
33	MK-2410031-427	Packing, Rectangular	4
34	MK-1290166	Clamp – Liner	3
35	MK-1590051*	Seal – Suction Manifold	3
36	MK-1290348	Spacer – Discharge, Studded (Included Items 37 – 39)	2
37	MK-1290341	Spacer – Discharge	2
38	MK-2402560	Stud – Discharge Spacer	16
39	MK-6300200	Nut – Discharge Spacer	16
40	MK-7006605	Capscrew	16
41	MK-1290344*	Seal – Module, Wear Plate	6
42	MK-1290345	Seal – Discharge Spacer	2
43	MK-6908033	Ring – Oval Joint	2

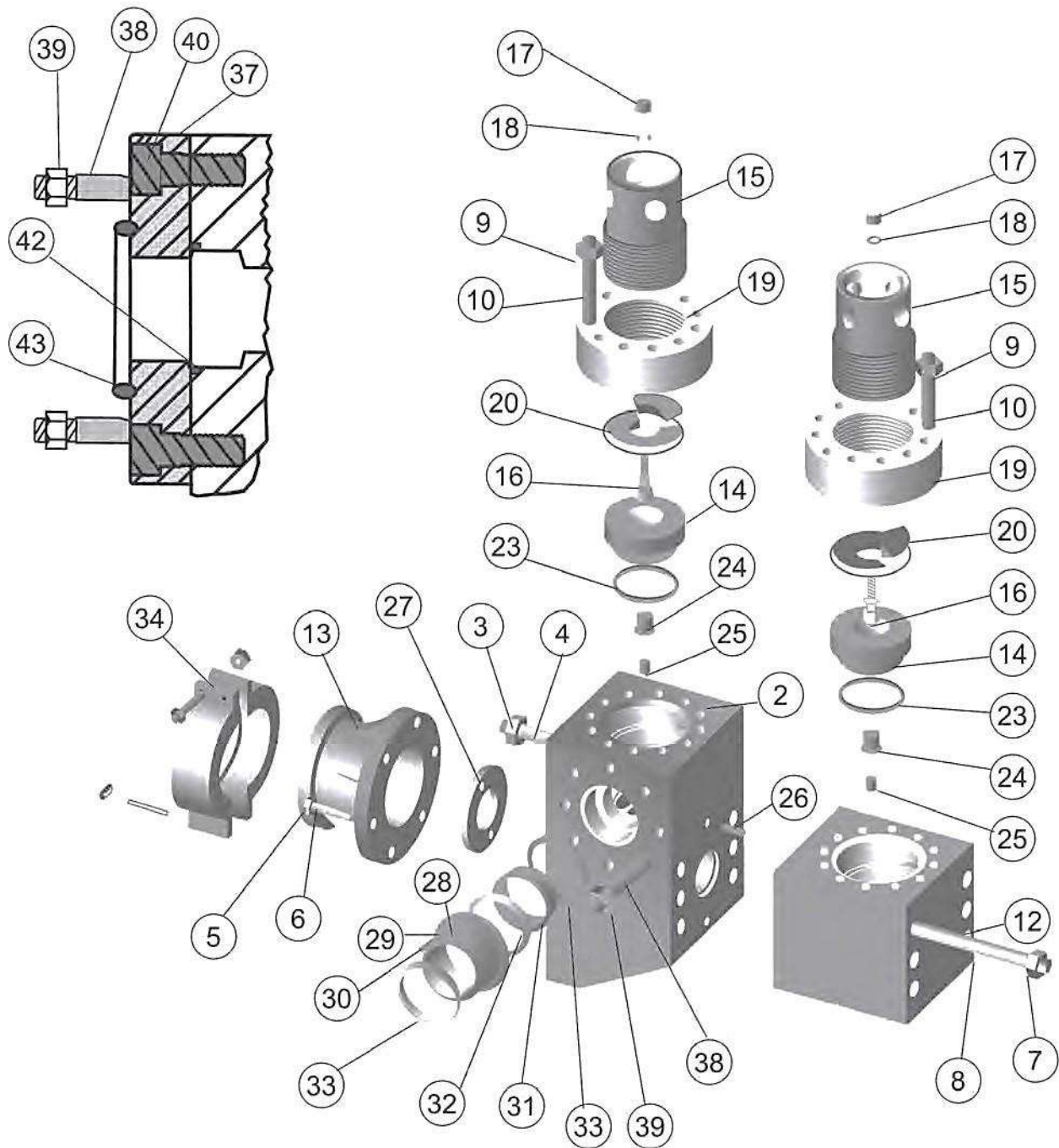
¹Offered in Plain Carbon or Stainless Steel * Not shown



NATIONAL 12-P-160

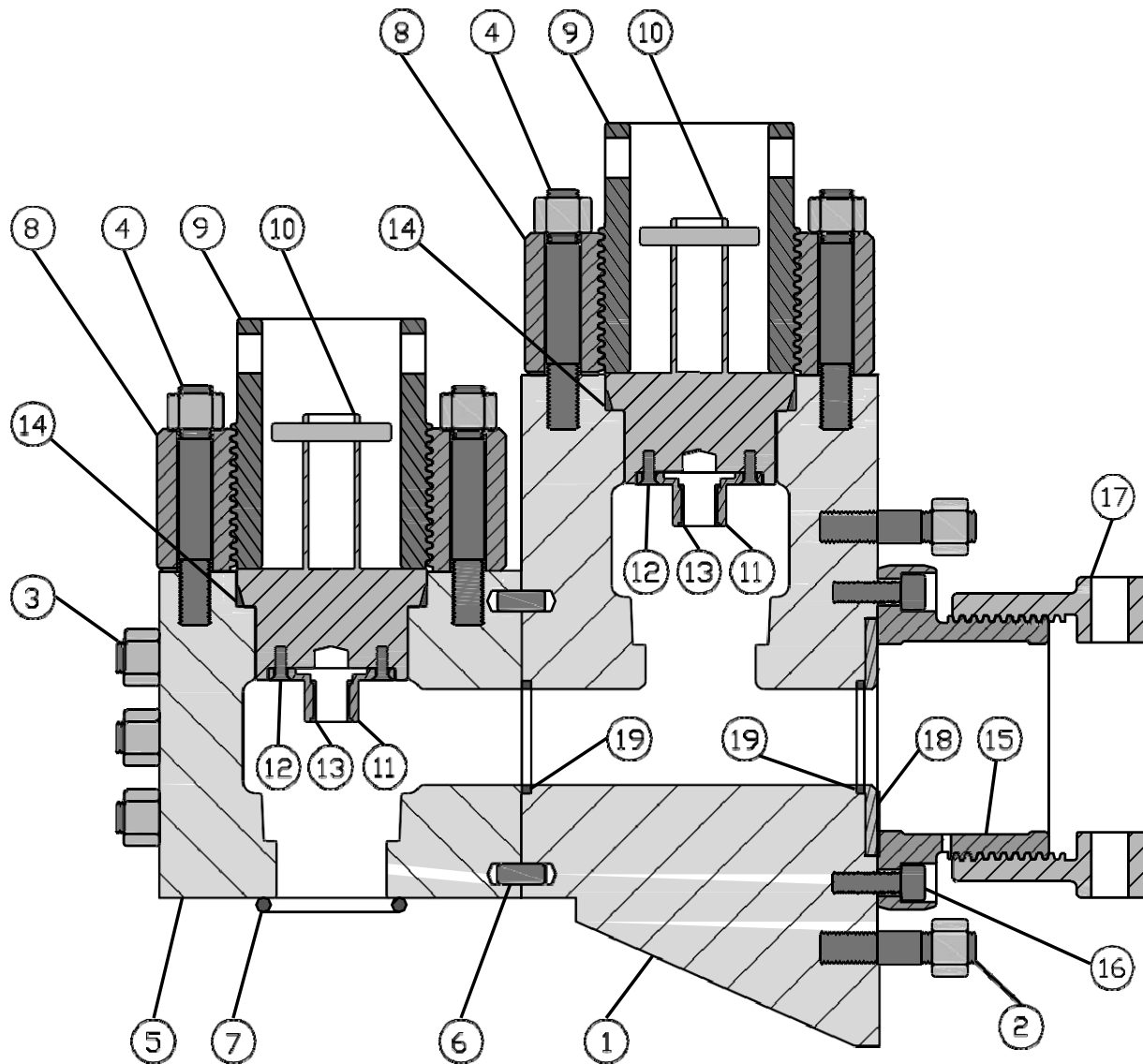
Item	Part No.	Description	Qty per Pump
1	MK-1292240	Discharge Module, Studded (Included Items 2 – 10)	(3)
2	MK-1292241	Discharge Module, Only	3
3	MK-6300220	Nut – Frame	30
4	MK-2408029	Stud – Frame	30
5	MK-6300180	Nut – Liner Bushing	18
6	MK-2408028	Stud – Liner Bushing	18
7	MK-6300281	Nut – Suction to Discharge Module	18
8	MK-2408033	Stud – Suction to Discharge Module	18
9	MK-6300240	Nut – Threaded Ring	72
10	MK-2408027	Stud – Threaded Ring	72
11	MK-1292243	Suction Module, Studded (Included Items 9, 10, 12)	(3)
12	MK-1292244	Suction Module, Only	3
13	MK-1292165	Bushing – Liner	3
14	MK-1292174	Seal Retainer	6
15	MK-1292172	Valve Cover	6
16	MK-1292178	Screw – Wedge Adjusting	6
17	MK-6300182	Nut – Wedge Adjusting	6
18	MK-1292171	Washer – Wedge Adjusting	6
19	MK-1292176	Thread Ring	6
20	MK-1292268	Wedge Assembly (Included Items 21 – 22)	6
21	MK-1292179*	Wedge, Set	6
22	MK-1292181*	Spring – Wedge Retaining	6
23	MK-1540127	Gasket – Valve Cover	6
24	MK-1292140	Holder – Valve Guide	6
25	MK-1292141	Insert – Valve Guide	6
26	MK-6511416	Pin, Dowell	6
27	MK-1292266	Plate – Wear	3
28	MK-1292252	Connector – Discharge	2
29	MK-7000307-11	Screw, Hex Head	16
30	MK-7619050	Washer, Lock	16
31	MK-1292253	Adapter – Discharge Connector	2
32	MK-2410031-433	Packing, Rectangular	2
33	MK-2410031-437	Packing, Rectangular	4
34	MK-1292166	Clamp – Liner	3
35	MK-1540851*	Seal – Suction Manifold	3
36	MK-1292262	Spacer – Discharge, Studded (Included Items 37 – 39)	2
37	MK-1292246	Spacer – Discharge	2
38	MK-2408015	Stud – Discharge Spacer	16
39	MK-6300240	Nut – Spacer	16
40	MK-7006685*	Capscrew	16
41	MK-1292257*	Seal – Module, Wear Plate	6
42	MK-1292258	Seal – Discharge Spacer	2
43	MK-6908040	Ring, Oval Joint	2

* Offered in Plain Carbon or Stainless Steel * Not Shown



“L” SHAPED 10-P-130

Item	Part No.	Description	Qty per Pump
	MK-8467-A	Complete Assembly	(3)
	MK-8467-1	Fluid Module, Discharge - Studded (included Items 1-4)	(3)
1		Fluid Module - Discharge	3
2	MK-4015-96	Stud w/Nut - Frame	30
3	MK-4017-1	Stud w/Nut - Suction Module	18
4	MK-4015-5	Stud w/Nut - Valve Cover	72
	MK-8467-2	Fluid Module, Suction - Studded (included items 4-5)	(3)
5		Fluid Module - Suction	3
6	MK-8488-5	Dowel Pin	6
7	MK-1590051	Seal - Suction Manifold	3
8	MK-4467	Threaded Flange	6
9	MK-4567	Screw Gland	6
	MK-4667-A	Valve Cover Plug Assembly (included items 10-13)	(6)
10	MK-4667	Plug - Valve Cover	6
11	MK-4760-3	Valve Guide	6
12	MK-4016-98	Screw - Valve Guide	16
13	MK-4700-I	Insert - Valve Guide	6
14	MK-P128	Seal - Valve Cover Plug	6
15	MK-6495	Liner Retainer Flange	3
16	MK-4017-8	Capscrew - Liner Retainer	18
17	MK-6595	Nut - Liner Retainer	3
18	MK-8467-3	Plate - Wear	3
19	MK-2988	Seal - Module and Wear Plate	6

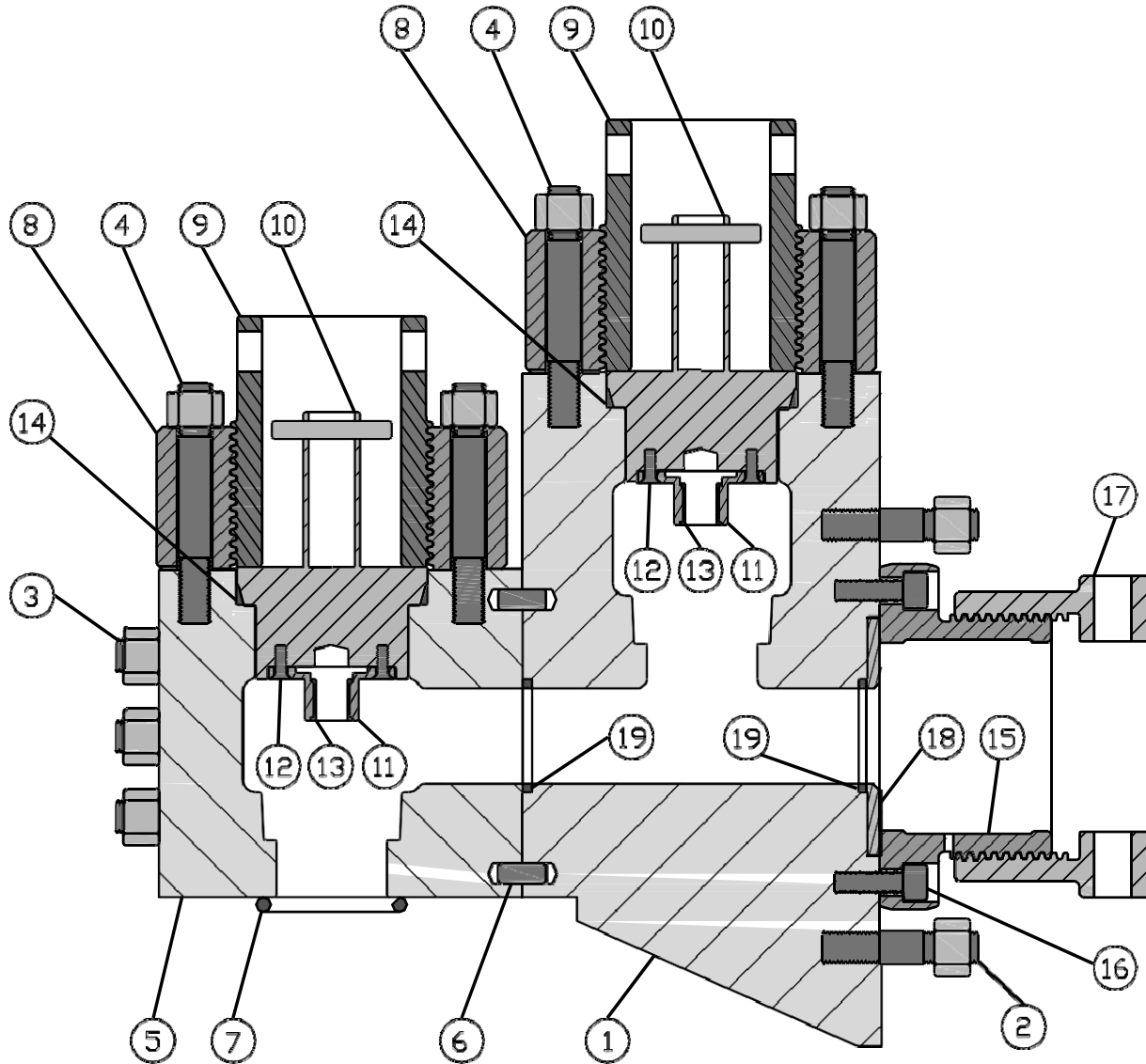


“L” SHAPED 12-P-160 New Style

Item	Part No.	Description	Qty per Pump
	MK-8476-4A	Complete Assembly	(3)
	MK-8476-5	Fluid Module, Discharge - Studded (included Items 1-4)	(3)
1		Fluid Module - Discharge	3
2	MK-4015-95	Stud w/Nut - Frame	30
3	MK-4018-17	Stud w/Nut - Suction Module	18
4	MK-4015-54	Stud w/Nut - Valve Cover	72
	MK-8476-6	Fluid Module, Suction - Studded (included items 4-5)	(3)
5		Fluid Module - Suction	3
6	MK-8488-5	Dowel Pin	6
7	MK-1540851	Seal - Suction Manifold	3
8	MK-4476	Threaded Flange	6
9	MK-4597	Screw Gland	6
	MK-4676-6A	Valve Cover Plug Assembly (included items 10-13)	(6)
10	MK-4676-6	Plug - Valve Cover	6
11	MK-4776	Valve Guide	6
12	MK-4016-98	Screw - Valve Guide	24
13	MK-4700-I	Insert - Valve Guide	6
14	MK-P119	Seal - Valve Cover Plug	6
15	MK-6476	Liner Retainer Flange	3
16	MK-4017-65	Capscrew - Liner Retainer	18
17	MK-6576	Nut - Liner Retainer	3
18	MK-8476-3	Plate - Wear	3
19	MK-2988	Seal - Module and Wear Plate	6

"L" Shaped 12-P-160 New Style

FLUID END MODULE
AND ACCESSORIES



NATIONAL OTHER PARTS

No	Description	P/N	Remarks
1	PISTON ASSY 6 1/4" BORE 1 5/8" (Imperial)	MK-162-HL 14/15	National
2	PISTON RUBBER - 6 1/4" (Imperial)	MK-162-HL	National
3	PISTON RUBBER - 6 3/4" (Imperial)	MK-166-HL	National
4	PISTON ASSY 6 3/4" BORE 1 5/8" (Imperial)	MK-166-HL 14/15	National
5	SCREW 3/4" X 4 HEX HEAD W/ LOCK WASHER	MK-7000448-11	National
6	SCREW 5/8" X 3 1/2 HEX HEAD W/ LOCK WASHER	MK-7000403-11 / MK-7000403-10	National 8/9/10P
7	SCREW, WEDGE ADJUSTING	MK-1290178	National 7/8/9/10P
8	DISCHARGE MODULE ONLY	MK-1294151	National 7P50
9	9P100 - CLAMP LINER	MK-1293167	National 9P100
10	O-RING (SUCTION FLANGE)	MK-7602-1600-52	National FD-1600
11	O-RING (LINER LOCK)	MK-7602-1600-44	National FD-1600
12	STRAINER	MK-0-6397-0293-01	National FD-1600
13	O-RING (SUCTION FLANGE)	MK-7602-1600-52	National FD-1600
14	O-RING (LINER LOCK)	MK-7602-1600-44	National FD-1600
15	NUT, 5/8" LOCK TYPE	MK-6309100	National 7/8P
16	NUT 3/4 LOCK TYPE	MK-6309120	National 9/10P
17	RING BACK UP	MK-1290175	National 8/9/10P
18	CONNECTOR, LINER CLAMP	MK-1291168	National 8P
19	CONNECTOR, LINER CLAMP	MK-1290168	National 9P
20	PIN, LINER CLAMP	MK-1291169	National 7P
21	PIN, LINER CLAMP	MK-1294169	National 8P
22	PIN, LINER CLAMP	MK-1290169	National 9P
23	WIPER, INTERMEDIATE ROD OIL	MK-1283089	National 10P

OILWELL

MUD PUMP EXPENDABLES

OILWELL

7 × 8

A-560-PT

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0287-40	MKG-0753
4½"	MK-0287-44	MKG-0754
5"	MK-0287-50	MKG-0742
5½"	MK-0287-54	MKG-0743
6"	MK-0287-60	MKG-0745
6¼"	MK-0287-62	MKG-0770
6½"	MK-0287-64	MKG-0746
6¾"	MK-0287-66	MKG-0755
7"	MK-0287-70	MKG-0756

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0732	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115L	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-115L	MK-RN6-I	MK-1700-6FO

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS						
	PISTON ROD	SUB ROD	CONNECTING ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0283-C	MK-0283-A	MK-0283-D	MK-16-0283	MK-24-0283	MK-7403364

MUD PUMP EXPENDABLES

TRIPLEX FLUID END PARTS

OILWELL

7 × 8
A-350/600-PT

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0287-40	MKG-0753
4½"	MK-0287-44	MKG-0754
5"	MK-0287-50	MKG-0742
5½"	MK-0287-54	MKG-0743
6"	MK-0287-60	MKG-0745
6¼"	MK-0287-62	MKG-0770
6½"	MK-0287-64	MKG-0746
6¾"	MK-0287-66	MKG-0755
7"	MK-0287-70	MKG-0756

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0732	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-111	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-111	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-111	MK-RN6-I	MK-1700-6FO

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS						
	PISTON ROD	SUB ROD	CONNECTING ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0283-C	MK-0283-B	MK-0283-D	MK-16-0282	MK-24-0284	MK-7403364

OILWELL

7½ × 9

A-850-PT

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0289-40	MKG-0753
4½"	MK-0289-44	MKG-0754
5"	MK-0289-50	MKG-0742
5½"	MK-0289-54	MKG-0743
6"	MK-0289-60	MKG-0745
6¼"	MK-0289-62	MKG-0770
6½"	MK-0289-64	MKG-0746
6¾"	MK-0289-66	MKG-0755
7"	MK-0289-70	MKG-0756
7¼"	MK-0289-72	MKG-0757
7½"	MK-0289-74	MKG-0758

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0760	N/A

*Also available in small OD, MK-0285-XX

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	N/A	N/A

* ¼ Size are available upon request

RODS						
	PISTON ROD	SUB ROD	CONNECTING ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0283-C	MK-0283-A	MK-0283-D	MK-16-0284	MK-24-0284	MK-7403364

OILWELL

7½ × 10

A-1100-PT

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0289-40	MKG-0753
4½"	MK-0289-44	MKG-0754
5"	MK-0289-50	MKG-0742
5½"	MK-0289-54	MKG-0743
6"	MK-0289-60	MKG-0745
6¼"	MK-0289-62	MKG-0770
6½"	MK-0289-64	MKG-0746
6¾"	MK-0289-66	MKG-0755
7"	MK-0289-70	MKG-0756
7¼"	MK-0289-72	MKG-0757
7½"	MK-0289-74	MKG-0758

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0760	N/A

*Also available in small OD, MK-0285-XX

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	N/A	N/A

* ¼ Size are available upon request

RODS						
	PISTON ROD	SUB ROD	CONNECTING ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0283-C	MK-0283-A	MK-0283-D	MK-16-0284	MK-24-0284	MK-7403364

OILWELL

7½ × 10

A-1400-PT

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0284-40	MKG-0753
4½"	MK-0284-44	MKG-0754
5"	MK-0284-50	MKG-0742
5½"	MK-0284-54	MKG-0743
6"	MK-0284-60	MKG-0745
6¼"	MK-0284-62	MKG-0770
6½"	MK-0284-64	MKG-0746
6¾"	MK-0284-66	MKG-0755
7"	MK-0284-70	MKG-0756
7¼"	MK-0284-72	MKG-0757
7½"	MK-0284-74	MKG-0758

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0760	N/A

*Also available in small OD, MK-0283-XX

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	N/A	N/A

* ¼ Size are available upon request

RODS						
	PISTON ROD	SUB ROD	CONNECTING ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0283-C	MK-0283-A	MK-0283-D	MK-16-0284	MK-24-0284	MK-7403364

OILWELL

7½ × 12

A-1700-PT

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0284-40	MKG-0753
4½"	MK-0284-44	MKG-0754
5"	MK-0284-50	MKG-0742
5½"	MK-0284-54	MKG-0743
6"	MK-0284-60	MKG-0745
6¼"	MK-0284-62	MKG-0770
6½"	MK-0284-64	MKG-0746
6¾"	MK-0284-66	MKG-0755
7"	MK-0284-70	MKG-0756
7¼"	MK-0284-72	MKG-0757
7½"	MK-0284-74	MKG-0758

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0760	N/A

*Also available in small OD, MK-0283-XX

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-174-HL 14/15	MK-174-HL	N/A	N/A

* ¾ Size are available upon request

RODS						
	PISTON ROD	SUB ROD	CONNECTING ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0283-C	MK-0283-A	MK-0283-D	MK-16-0284	MK-24-0284	MK-7403364

OILWELL

FLUID END MODULE AND ACCESSORIES

OILWELL A-850-PT, A-1100-PT, A-1400-PT & A-1700-PT

Item	Part No.	Description	Qty per Pump
1	MK-10-300-181	Discharge Module, Studded (Included Items 2 – 6)	(3)
2		Discharge Module, Only	3
3	MK-49-001-292	Stud – Discharge Manifold	12
4	MK-75-511-754	Nut – Discharge Manifold	12
5	MK-49-002-837	Stud – Frame	12
6	MK-75-510-126	Nut – Frame	12
7	MK-10-300-184	¹ Wear Plate – Liner	6
8	MK-20-100-008	Gasket – Liner Wear Plate	6
9	MK-75-632-234	Cap Screw, Self Locking	24
10	MK-20-200-004	Valve Guide Bushing	6
11	MK-10-300-004	Valve Guide	6
12	MK-10-300-011	Gasket – Valve Cover	6
13	MK-10-300-005	Valve Cover	6
14	MK-10-300-183	Liner Adapter	3
15	MK-10-303-092	Nut – Liner Adapter (A850-PT, A1100-PT only)	3
	MK-10-300-182	Nut – Liner Adapter (A1400-PT, A1700-PT only)	3
16	MK-10-300-185	Spacer Ring – Liner	3
17	MK-10-303-091	² Centering Sleeve – Liner (A850-PT, A1100-PT only)	3
	MK-10-300-186	² Centering Sleeve – Liner (A1400-PT, A1700-PT only)	3
18	MK-10-300-201	Seal – Suction Manifold	3
19	MK-99-609-345	Seal – Discharge Manifold	3

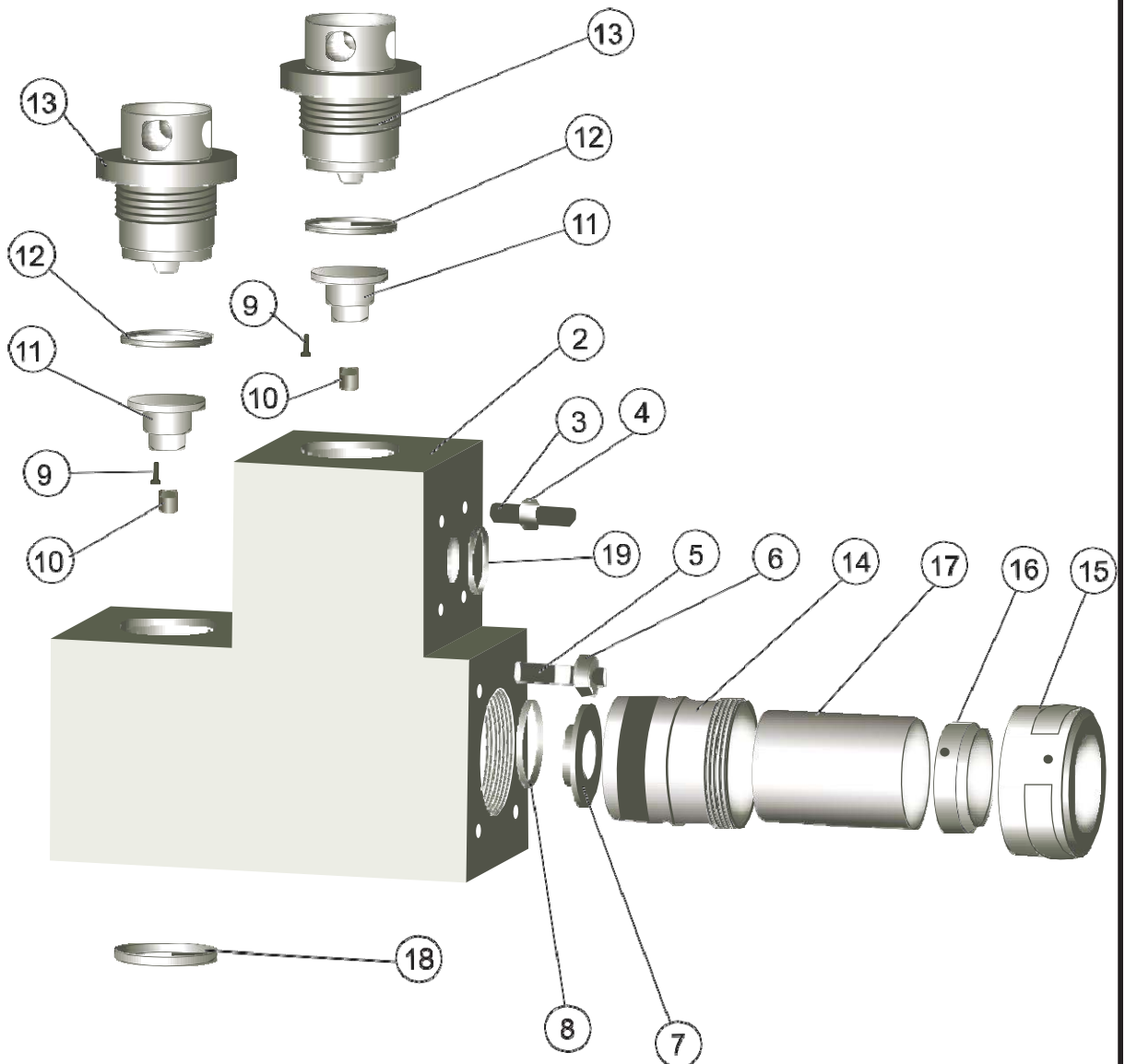
¹Offered in Plain Carbon or Stainless Steel



A-850-PT
A-1400-PT

A-1100-PT
A-1700-PT

FLUID END MODULE
AND ACCESSORIES



“L” SHAPED A-850-PT, A-1100-PT, A-1400-PT & A-1700-PT

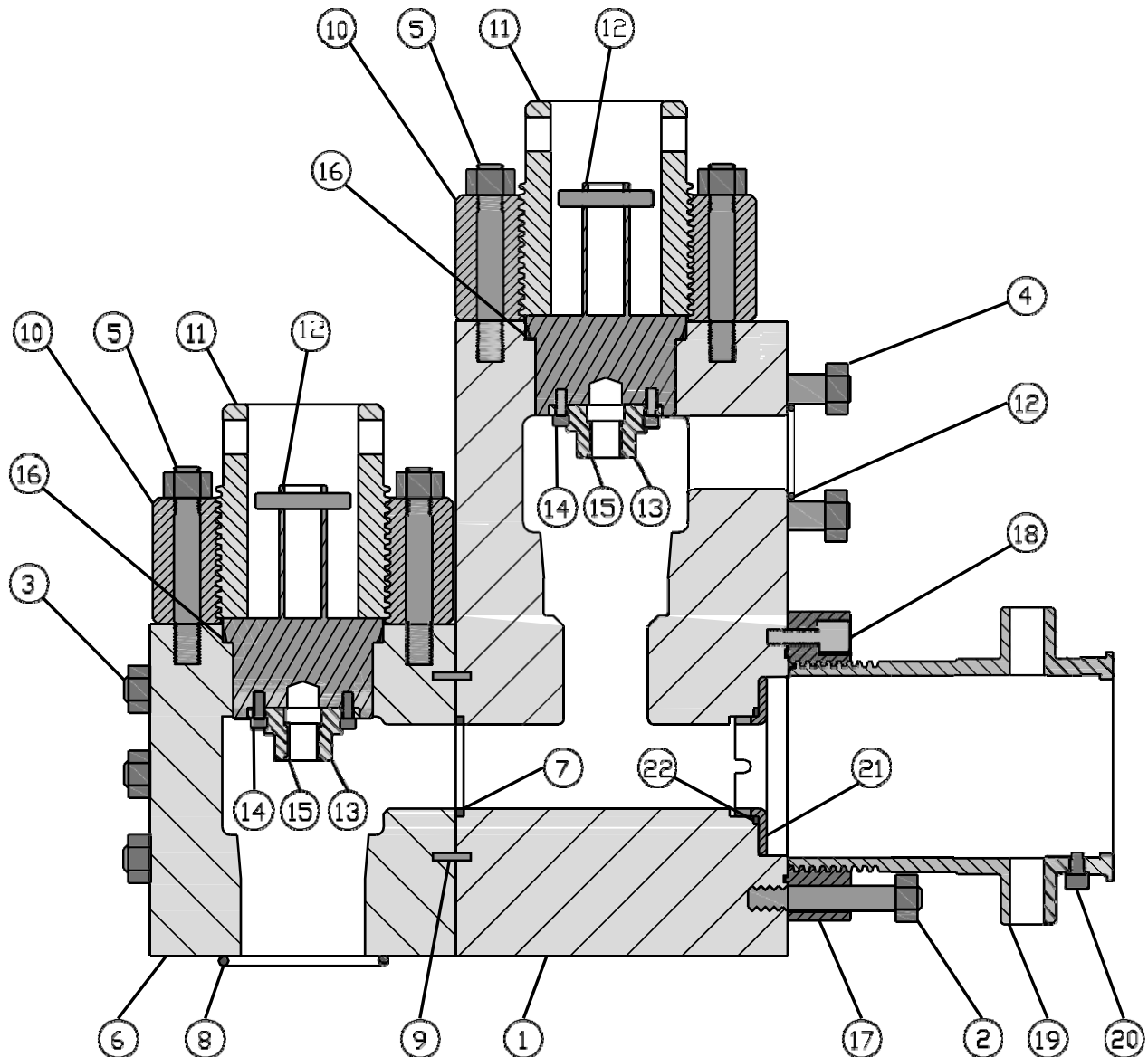
Item	Part No.	Description	Qty per Pump
	MK-8487-A	Complete Assembly (A-850-PT, A-1100-PT)	(3)
	MK-8488-1A	Complete Assembly (A-1400-PT, A-1700-PT)	(3)
	MK-8488-1	Fluid Module, Discharge - Studded (included items 1-5)	(3)
1		Fluid Module - Discharge	3
2	MK-4016-96	Stud w/Nut - Frame	12
3	MK-4016-97	Stud w/Nut - Suction Module	18
4	MK-4016-3	Stud w/Nut - Discharge Manifold	12
5	MK-4015-2	Stud w/Nut - Valve Cover	72
	MK-8488-2	Fluid Module, Suction - Studded (included items 5-6)	(3)
6		Fluid Module - Suction	3
7	MK-2988	Seal - Module	3
8	MK-10-300-201	Seal - Suction Manifold	3
9	MK-8488-5	Dowel Pin	6
10	MK-4475	Threaded Flange	6
11	MK-4575	Screw Gland	6
	MK-4675-1A	Valve Cover Plug Assembly (included items 12-15)	(6)
12	MK-4675-1	Plug - Valve Cover	6
13	MK-4775	Valve Guide	6
14	MK-4018-88	Screw - Valve Guide	12
15	MK-4700-I	Insert - Valve Guide	6
16	MK-P129	Seal - Valve Cover Plug	3
17	MK-6488-1	Liner Retainer Flange	3
18	MK-4017-4	Capscrew - Liner Retainer	24
19	MK-6587-1	Nut - Liner Retainer (A-850-PT, A-1100-PT ONLY Large OD Liner, MK-0289-XX)	3
	MK-6588-1	Nut - Liner Retainer (A-1400-PT, A-1700-PT ONLY Large OD Liner, MK-0284-XX)	3
20	MK-8488-7	Set Screw - Liner Retainer	9
21	MK-8488-4	Plate - Wear	3
22	MK-2974-1	Seal - Wear Plate	3



"L" Shaped

**A-850-PT A-1100-PT
A-1400-PT A-1700-PT**

FLUID END MODULE
AND ACCESSORIES



OPI

MUD PUMP EXPENDABLES

OPI

7 × 8

700HDL

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0481-40	MKG-0753
4½"	MK-0481-44	MKG-0754
5"	MK-0481-50	MKG-0742
5½"	MK-0481-54	MKG-0743
6"	MK-0481-60	MKG-0745
6½"	MK-0481-64	MKG-0746
7"	MK-0481-70	MKG-0756

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0745	MKG-0745

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-115	MK-RN6-I	MK-1700-6FO

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¾ Size are available upon request

RODS						
	PISTON ROD	SUB ROD	EXTENSION ROD	EXTENSION ROD CLAMP	PISTON ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0482	MK-0482-B	MK-16-0481	MK-24-0481	MK-24-0482	MK-7403364
THREAD TYPE	MK-0481	MK-0481-B	MK-16-0481	N/A	N/A	MK-7403364

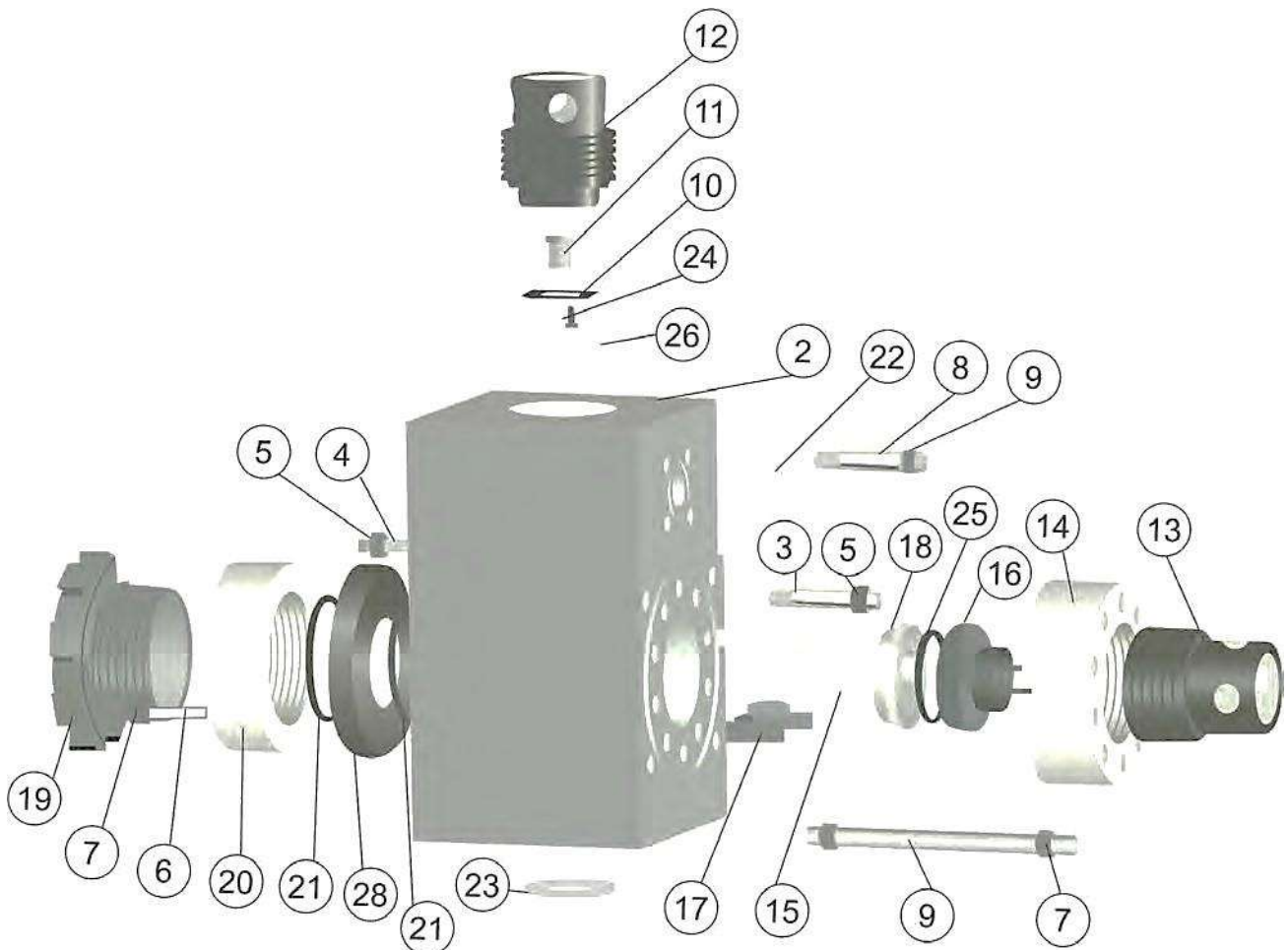
BOMCO

FLUID END MODULE AND ACCESSORIES

BOMCO

F – 1300 & F – 1600

Item	BOMCO Style Part No.	Description	Qty per Pump
1	MK-AH36002-05-01-00	Fluid Module, Studded (Included Items 2 – 9)	(3)
2	MK-AH36002-05-01-00U	Fluid Module, Only	3
3	MK-7507-2210-00	Stud – Threaded Ring	30
4	MK-7507-2201-00	Stud – Frame	18
5	MK-7601-0630-17	Nut – Frame, Threaded Ring	48
6	MK-7507-2013-00	Stud – Liner Lock	36
7	MK-7601-0610-18	Nut – Liner Lock	36
8	MK-7507-2108-00	Stud – Discharge Manifold	12
9	MK-7601-0630-24	Nut – Discharge Manifold	12
10	MK-6397-0603-00	Retainer Plate	3
11	MK-6397-0575-00	Upper Valve Guide	3
12	MK-6316-0039-00	Valve Cover	3
13	MK-6316-0362-00	Cylinder Head	3
14	MK-6316-0361-00	Cylinder Threaded Ring	3
15	MK-AH36001-05A.04	Lower Valve Guide Retainer	3
16	MK-AH36001-05A.06.00	Cylinder Head Plug	3
17	MK-AH36001-05A.05	Lower Valve Guide with Bushing	3
18	MK-AH36001-05A.07	Alignment Ring	3
19	MK-6316-0367-00	Liner Lock	3
20	MK-6316-0366-00	Liner Threaded Ring	3
21	MK-6316-0373-00	Seal – Wear Plate, Liner	3
22	MK-7602-1600-25	Seal – Discharge Manifold	3
23	MK-7602-1600-61	Seal – Suction Manifold	3
24	MK-7501-0051-00	Retainer Bolt	12
25	MK-6316-0369-00	Seal – Cylinder Head Plug	3
26	MK-6316-0092-00	Seal – Valve Pot Cover	3
27	MK-6316-0096-00 *	Valve Guide Bushing	3
28	MK-6316-0365-00	¹ Wear Plate	3



HT-400 PUMP

MUD PUMP EXPENDABLES

HT-400 PUMP

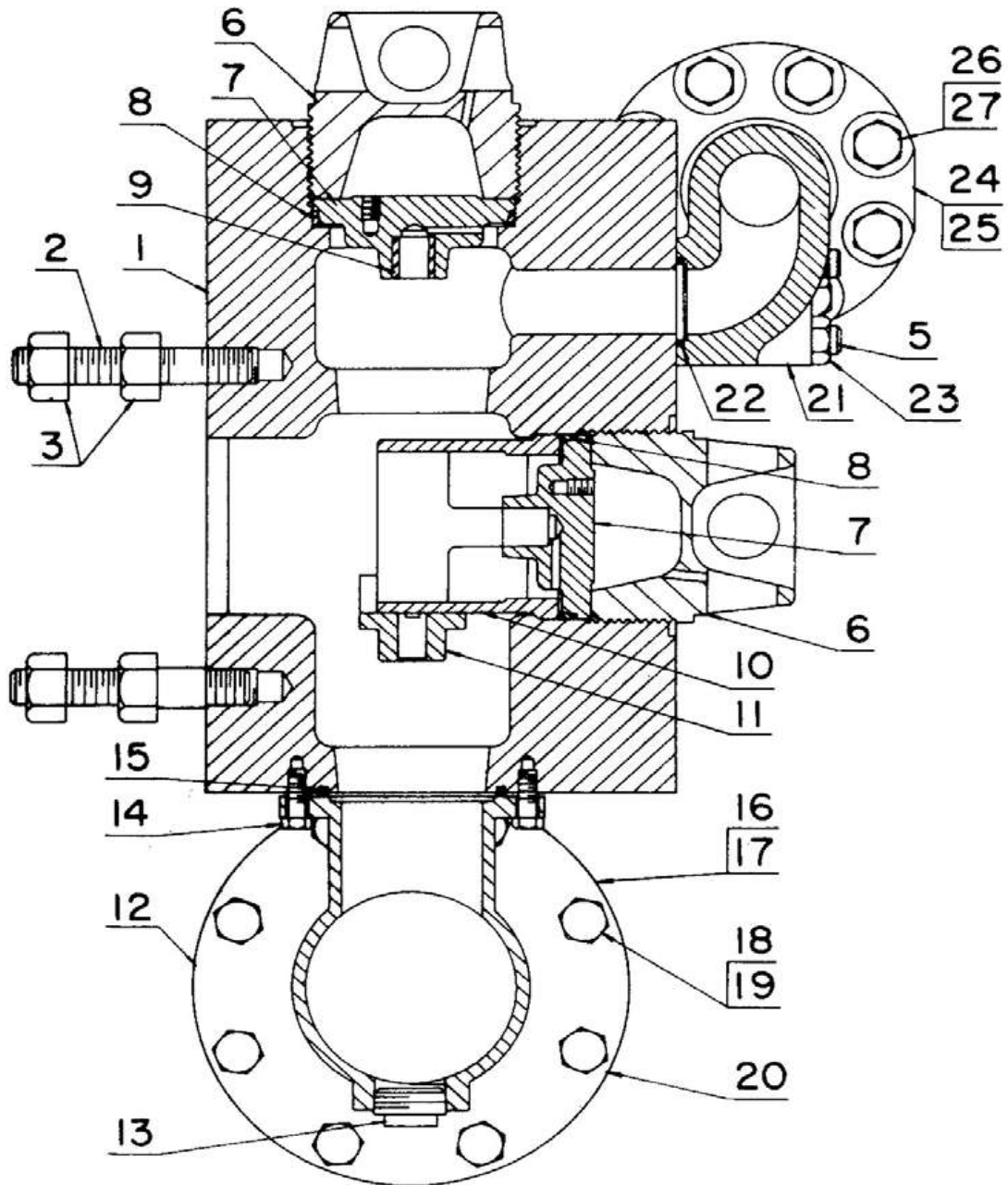
No	Description	P/N	Remarks
1	Cover, Cylinder Head 4-1/2"	MK-100009530	HT 400
2	Cover, Protective Cylinder Head 4-1/2"	MK-100002952	HT 400
3	Gasket, Dicharge valve and cylinder head cover, 4-1/2"	MK-100002878	HT 400
4	Ring, Spacer Dicharge valve and cylinder head cover 4-1/2"	MK-100002877	HT 400
5	Seal Plunger Nose Assembly 4-1/2"	MK-100002940	HT 400
6	Plunger 4-1/2" HT 400	MK-100002937	HT 400
7	Seal, Packing Lube, 4-1/2"	MK-101377665	HT 400
8	O-Ring, 5 1/2 x 5 1/4 x 1/8 568-252	MK-100002019	HT 400
9	Carrier, Seal, 4-1/2"	MK-101377664	HT 400
10	Adapter, Female, 4-1/2"	MK-101377663	HT 400
11	Packing, 4-1/2"	MK-101377661	HT 400
12	Header Ring, 4-1/2"	MK-101377660	HT 400
13	Spacer, 4-1/2", Fluid End	MK-101377659	HT 400

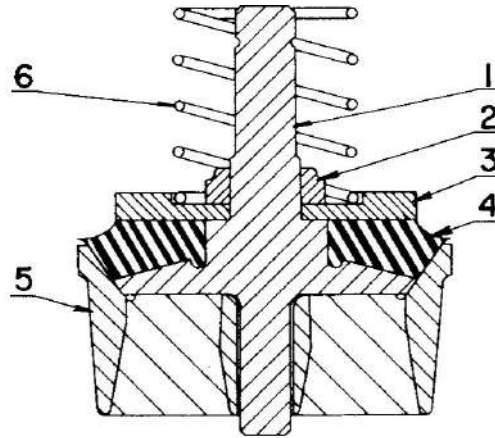
MUD KING PUMPS

MUD PUMP EXPENDABLES FLUID END MODULE AND ACCESSORIES

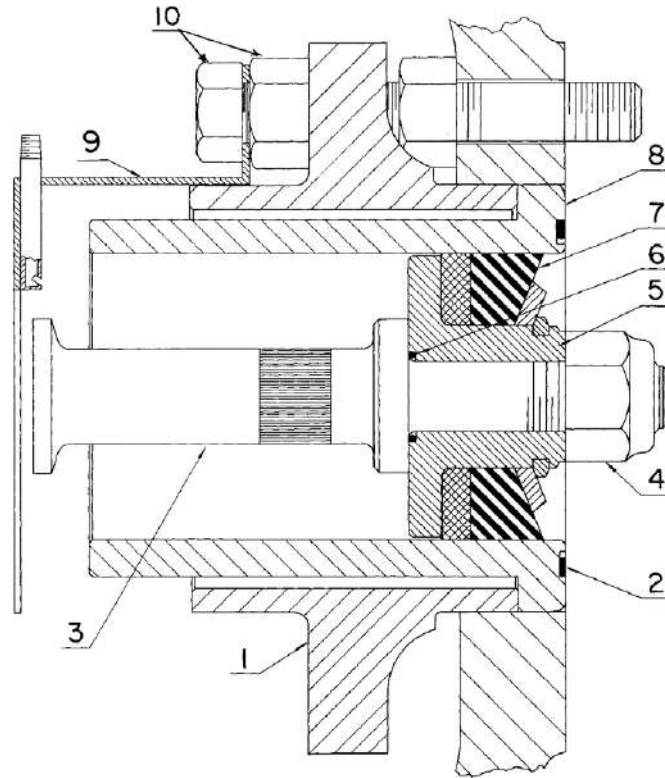
MUD KING MKP-275

No.	Description	Qty Per Pump	Part No.
	FLUID CYLINDER (HP BLOCK STEEL) (WELL SERVICING OR DRILLING)		MK-C76254
1	ASM Fluid Cylinder, Inc. Ref. No. 2,3,4,5 & 23	3	MK-200PJH029B
2	Stud, Cylinder to Frame	18	MK-79AJ2
3	Nut, Cylinder to Frame & Liner Clamp	36	MK-50B35
5	Stud, Discharge Manifold	12	MK-79L142
Φ	Nut-Hex Jam, Liner Battle	12	MK-50F11
6	Lock-Cover	6	MK-3PA587
7	Cover-Valve	6	MK-200PJH147
8	Gasket, Valve Cover	6	MK-200PJH715
9	Bushing, Discharge Valve Cover	3	MK-2013547
10	Retainer, Suction Valve Guide	3	MK-200PJH205
11	Guide-Valve, Suction	3	MK-200PJH483
12	Manifold-Suction	1	MK-200PAH069
13	Plug-SqHd Pipe	1	MK-64A25
14	Screw, Suction Manifold to Cylinder	12	MK-75A57N
15	Gasket, Suction Manifold to Cylinder	3	MK-25G18
16	Flange-Weld	1	MK-64CU10
17	Flange-Blind	1	MK-64EB16
18	Screw, Flange	16	MK-75A214
19	Nut, Flange	16	MK-50B8
20	Gasket, Flange to Manifold	2	MK-25C2622
21	Manifold-Discharge	1	MK-200PJH071
22	Gasket, Manifold to Cylinder	3	MK-25AL54
23	Nut, Manifold to Cylinder Stud	12	MK-50B9
24	Flange, Discharge	2	MK-64EB37
25	Gasket, Discharge Flange	2	MK-25BC42
26	Screw, Discharge Flange	16	MK-75A231
27	Nut, Discharge Flange	16	MK-50B9





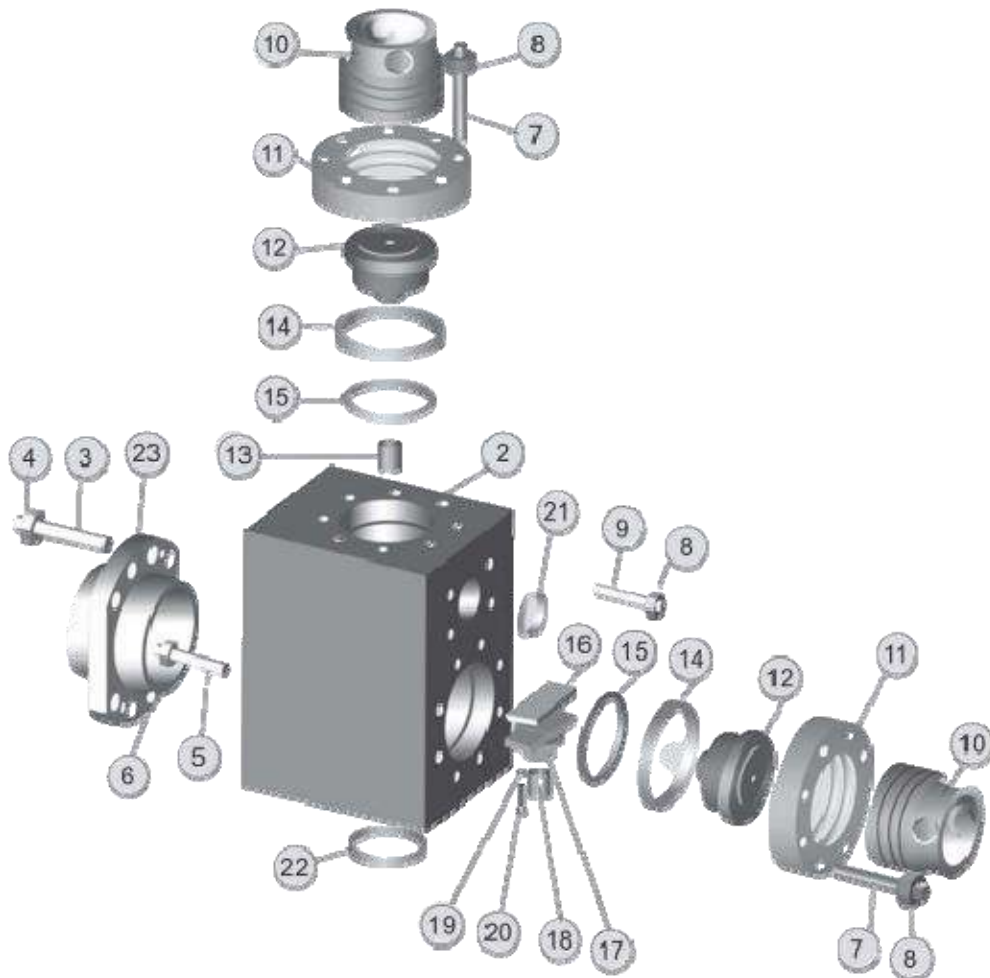
No.	Description	Qty Per Pump	Part No.
	THREE RIB VALVE ASSEMBLY		MK-B73991
	Valve Group with Urethane Insert	6	MK-PJ482B
	Valve Group with Rubber Insert	6	MK-2005343
	ASM Fluid Valve with Urethane insert, Inc. Ref. No. 1 thru 4	6	MK-PJ482A
	ASM Fluid Valve with Rubber insert, Inc. Ref. No. 1 thru 4	6	MK-2005341
1	Valve-Fluid	6	MK-PJ482
2	Locknut	6	MK-50V51
3	Washer-Valve	6	MK-PJ279
4	Insert-Urethane	6	MK-PJ452
4	Insert-Rubber	6	MK-2005342
5	Seat-Valve	6	MK-PJ451
6	Spring	6	MK-78H23
Φ	Puller-Valve Seat	1	MK-PJ219A
Φ	Jack-Hydraulic *	1	MK-100C2



NO.	Description	Qty Per Pump	Part No.	Part No.	Part No.	Part No.	Part No.
	LINER & PISTON ASSEMBLY						
			5"	4.5"	4"	3.5"	3"
1	Clamp Liner	3	MK-1PA217	MK-1PA217	MK-1PA217	MK-1PA217	MK-1PA217
2	Gasket, Liner to Cylinder	3	MK-25AL22	MK-25AL22	MK-25AL22	MK-25AL22	MK-25AL22
3	ASM Piston Rod, Incl. Ref. No. 4	3	MK-PJ183A	MK-PJ183A	MK-PJ183A	MK-PJ183A	MK-PJ183A
4	Nut, Piston Rod	3	MK-50V14	MK-50V14	MK-50V14	MK-50V14	MK-50V14
5	ASM Piston, Incl Ref. No. 6&7	3	MK-45R14	MK-45R14	MK-45R6	MK-45R5	MK-45R4
6	O-Ring	3	MK-25AH1	MK-25AH1	MK-25AH1	MK-25AH1	MK-25AH1
7	Insert	3	MK-45R25	MK-45R13	MK-45R12	MK-45R11	MK-45R10
8	Liner	3	MK-PA13950	MK-PA13945	MK-PA13940	MK-PA13935	MK-PA13930
9	Baffle	3	MK-PJ840	MK-PJ840	MK-PJ840	MK-PJ840	MK-PJ840
10	Nut-Jam, Baffle	12	MK-50F11	MK-50F11	MK-50F11	MK-50F11	MK-50F11

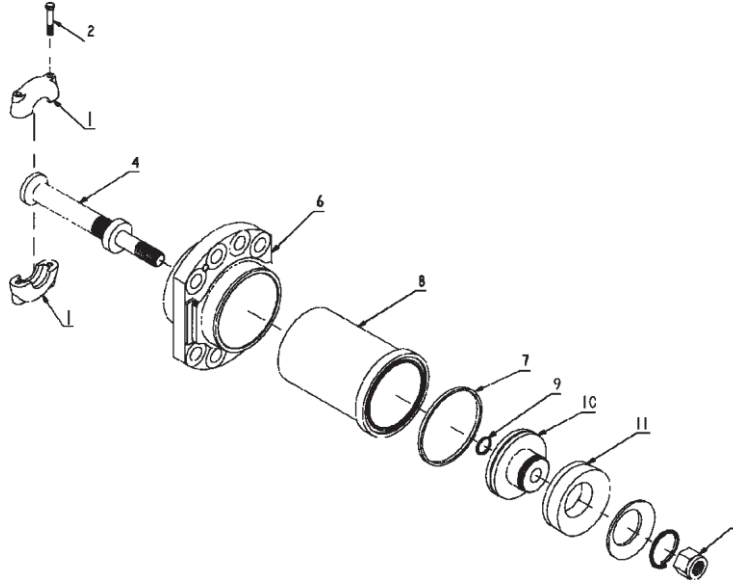
MUD KING MKP-550

Item	Part No.	Description	Qty per Pump
1	MK-205PZL029D	Fluid Module, Studded (Included Items 2 – 9)	(3)
2		Fluid Module, Only	3
3	MK-79L188	Stud – Frame, Liner Clamp	24
4	MK-50B36	Nut – Frame, Liner Clamp	48
5	MK-79L73	Stud – Frame	12
6	MK-50AQ30	Nut – Frame	12
7	MK-79AL6	Stud – Threaded Ring	48
8	MK-50B34	Nut – Threaded Ring, Discharge Manifold	60
9	MK-202PZL110	Stud – Discharge Manifold	12
10	MK-2011857	Cap – Valve Lock	6
11	MK-2011699	Threaded Ring	6
12	MK-2011860	Cover – Valve	6
13	MK-2007674	Valve Guide Bushing	3
14	MK-2011862	Gasket – Valve Cover	6
15	MK-2011861	Ring – Retaining / Valve Cover Gasket	6
	MK-2011706	Valve Guide Assembly (Included Items 16 – 20)	(3)
16	MK-2011701	Retainer Plate	3
17	MK-2011700	Valve Guide – Suction	3
18	MK-2007674	Valve Guide Bushing – Suction	3
19	MK-95W2	Lock Washer – Valve Guide / Suction	6
20	MK-655EE06S	Bolt – Valve Guide / Suction	6
21	MK-25AL35	Gasket – Discharge Manifold	3
22	MK-25G41	Gasket – Suction Manifold	3
23	MK-1PV14	Liner Clamp	3



MUD KING

MKP-550



PLUNGER COUPLING & PISTON ROD

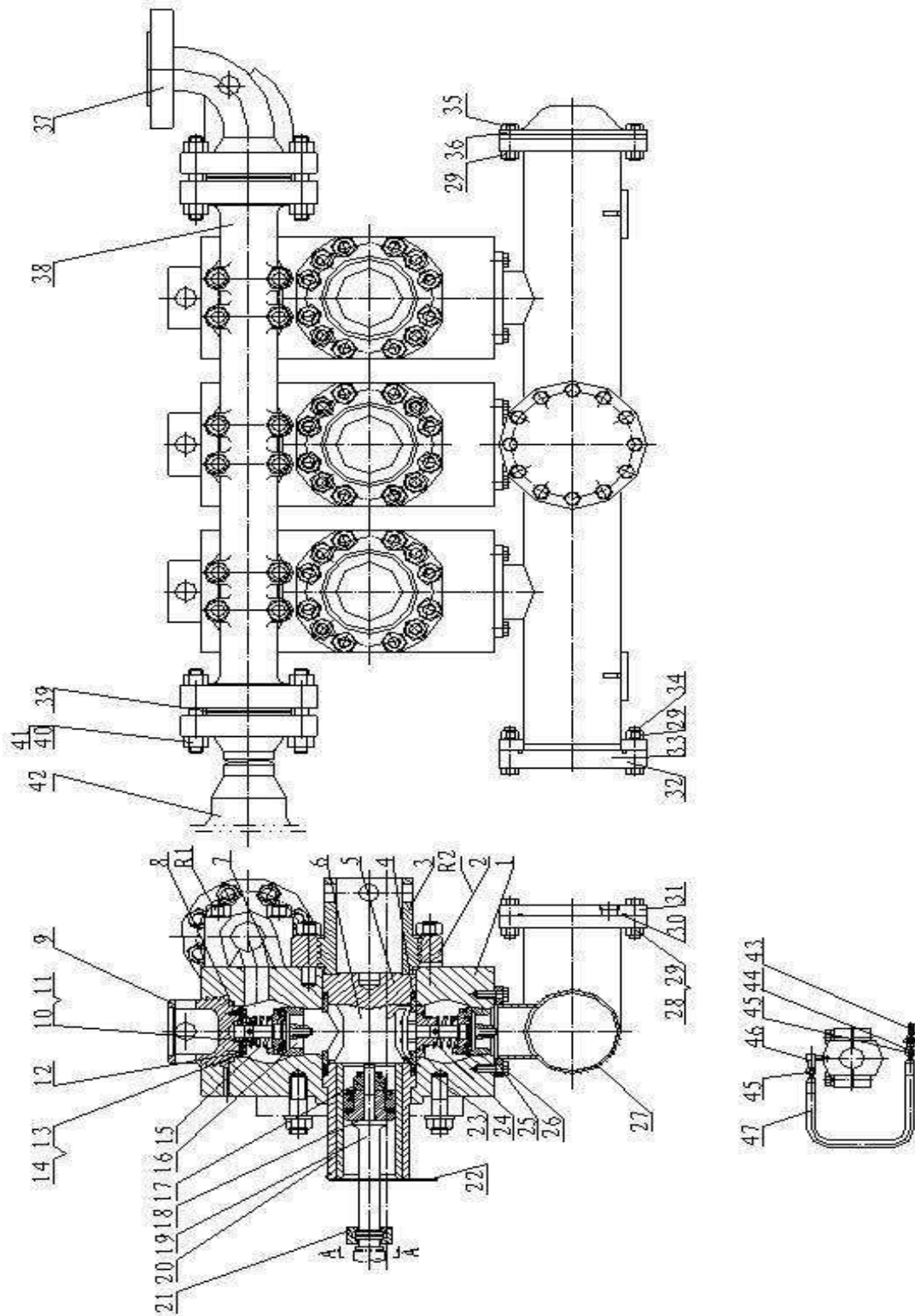
Ref. No.	Parts	Qty	Part No.
	PLUNGER COUPLING ASSEMBLY Includes Reference Numbers 1, 2 & 3	3	MK-240191
1	COUPLING-PLUNGER		
2	SCREW, Coupling Plunger		
4	PISTON ROD, Incl. Ref. #5	3	MK-0205
5	LOCKNUT	3	MK-7403364
6	CLAMP-LINER	3	MK-1PV14
7	GASKET, Liner to Cylinder	3	MKG-0692

PISTON & LINER

Ref. No.	Parts	Qty	7"	6-1/2"	6"	5-1/2"	5"	4-1/2"	4"
			Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
8	LINER	3	MK-1192-70	MK-1192-64	MK-1192-60	MK-1192-54	MK-1192-50	MK-1192-44	MK-1192-40
9	O-RING	3	25AH1	25AH1	25AH1	25AH1	25AH1	25AH1	25AH1
10	PISTON ASSEMBLY, Incl. Ref. #9 & 11	3	MK-170-HL 14/15	MK-164-HL 14/15	MK-160-HB 14/15	MK-154-HB 14/15	MK-150-HB 14/15	MK-144-HB 14/15	MK-140-HB 14/15
11	INSERT GROUP, Incl. Retainer Plates & Rings	3	MK-170-HL	MK-164-HL	MK-160-HB	MK-154-HB	MK-150-HB	MK-144-HB	MK-140-HB

MUD KING MKF-500

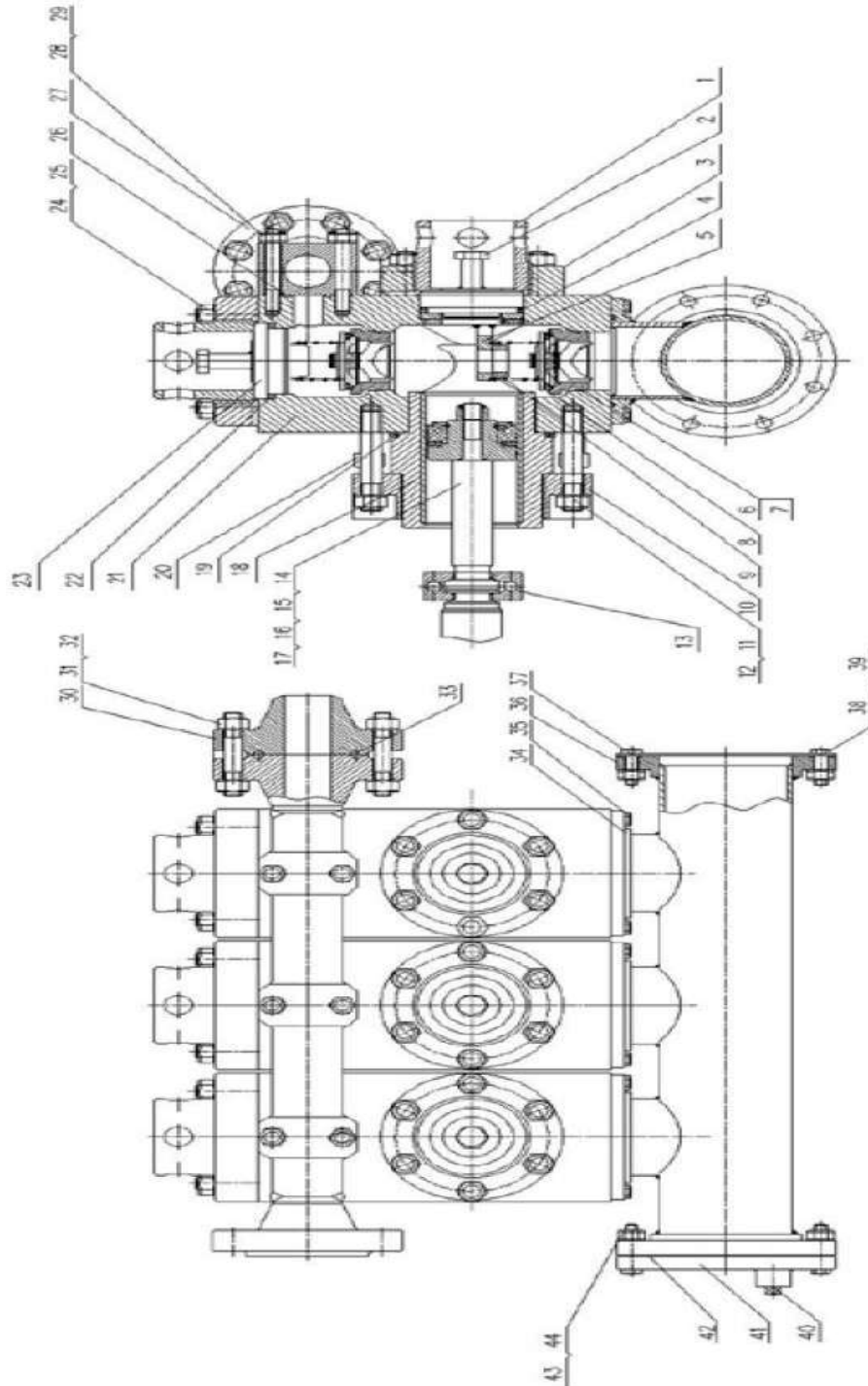
Item No.	Qty	Description	Part No.
1	3	Fluid end studded Assy	LA35001-05.01
2	3	Thread ring	LA35001-05.02
3	3	Cylinder head	LA35001-05.03
4	6	Head seal	LA35001-05.04
5	3	Cylinder head plug	LA35001-05.05
6	3	Cylinder-liner fixer	LA35001-05.06
7	3	O-ring	LA35001-05.07
8	3	Valve cover seal	LA35001-05.08
9	1	Valve pot cover	LA35001-05.09
10	6	Spring guiding	LA33001-05.10
11	3	Valve guide (upper)	LA35001-05.11
12	3	Valve guide retainer	LA35001-05.12
13	12	Bolt	LA35001-05.13
14		Stainless steel wire	GB4240-84
15	6	Valve spring	LA35001-05.14
16	6	Valve Assy	LA36001-05.15
17	3	Piston nut	LA35001-05.16
18	3	O-ring	Ø41.2×3.55
19	3	Piston rod	LA35001-05.17
20	3	Bi-metal liner	LA35001-05.18
21	3	Piston rod clamp	LA35001-05.19
22	3	Liner end cover	LA35001-05.20
23	3	Anchor clamp	LA35001-05.21
24	3	Valve guide (lower)	LA35001-05.22
25	3	O-ring	Ø150×7
26	18	Bolt GB5780	3/8"-10UNC×2"
27	1	Suction manifold	LA35001-05.23.00
28	12	Bolt	1
29	12	Nut	1"-8UNC
30	2	Gasket	GB3452.1-82
31	1	Blank flange	LA35001-05.24
32	1	Suction flange	LA35001-05.26
33	1	Suction baffle plate (package)	LA35001-05.27
34	12	Bolt	1"-8UNC×41/4"
35	32	Nut	11/4"-8UNC-2B
36	1	Suction D.	LA35001-05.28.00
37	1	Elbow Bend	LA35001-05.29.00
38	1	Discharge manifold	LA35001-05.30
39	1	discharge baffle plate (package)	LA35001-05.31
40	16	Stud	11/4"-8UNC×83/8 "
41	1	Nut	11/4"-8UNC-2B
42	1	Filter screen assembly	LA35001-05.32.00
43	3	Elbow Bend	LA35001-05.33
44	3	Male connector	LA35001-05.34
45	6	Connector	LA35001-05.35
46	3	Elbow	LA35001-05.36
47	3	Rubber hose	



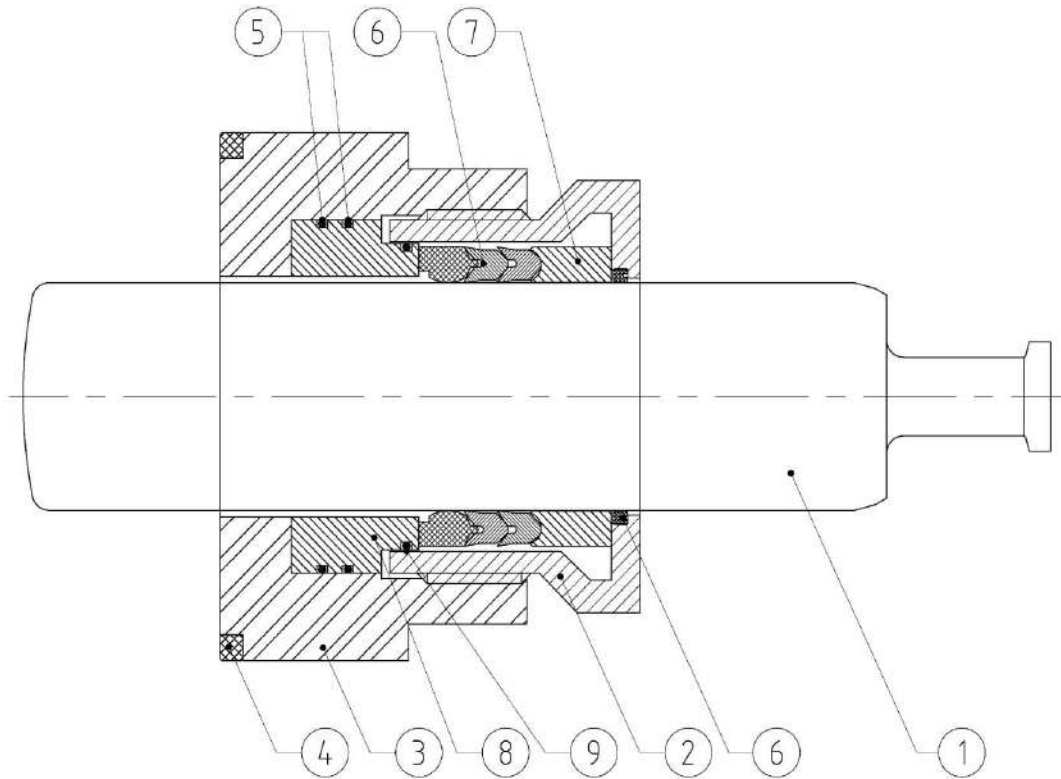
MUD KING LWS-440/446

MK-LWS-440/446 Fluid End Assy. Parts list

Item	Part No.	Description	Qty
1	MK-LW446.343	Valve Cover	6
2	MK-LW446.309	Cylinder Head Plug	3
3	MK-LW446.342	Thread Ring	6
4	MK-LW446.01.001	Valve Pot Cover Seal	3
5	MK-LW446.01.03.01	Valve Assy Spherical	6
	MK-LW446.01.03.02	Valve Assy Slush Service	6
6	MK-LW446.01.002	Valve Seat, Slush Service	6
7	MK-GB3452.1	Seat Gasket	6
8	MK-LW446.01.005	1-1/8-8UNCx7 ¼ Stud	12
9	MK-LW446.01.006	1-1/8-8UNC-2B Nut	12
10	MK-LW446.01.009	1-8UNCx8-3/8 Inner Hex Screw	12
11	MK-LW446.003	Cylinder	3
12	MK-LW446.01.010	Upper Valve Cover Seal	3
13	MK-LW446.323	Thread Plug Retainer	3
14	MK-LW446.01.011	7/8-9UNCx4 ½ Stud	36
15	MK-LW446.01.012	7/8-9UNC-2B Nut	36
16	MK-GB3452.1	Seal Discharge Manifold	3
17	MK-LW446.325	Discharge Pipe	1
18	MK-LW446.01.013	¾ -10UNCx6 Stud	6
19	MK-LW446.01.014	¾ -10UNC-2B Nut	6
20	MK-LW446.244	Deflector	1
21	MK-LW446.01.019	900# 3" Welded Flange	1
22	MK-LW446.01.019	Stud	8
23	MK-SY5279.3	R31 Washer Ring	2
24	MK-GB/T3452.1	150x5.3 "O" Ring	3
25	MK-LW446.0101	¾ -10UNCx1 11/16 Stud	12
26	MK-LW446.326	Suction Pipe	1
27	MK-GB/T3452.1	185x7 "O" Ring	2
28	MK-LW446.01.020	150#6" Flange	1
29	MK-LW0102	¾ -10UNC-2B Nut	20
30	MK-LW0103	¾ -10UNCx3 Stud	20
31	MK-LW446.01.21.00	Suction Flange, Blind	1
32	MK-LW446.01.015	NPT1" Thread Plug	1
33	MK-LW446.01.016	1-8UNC-2B Nut	16



MK-LW440E Series Stuffing Box & Plunger Assy



MK-LW440E Series Stuffing Box & Plunger Assy

Item	Part No.	Description	Qty
1	MK-LW446E.01	Plunger, Tungsten coated **	1
2	MK-LW446E.02	Gland Adjusting Nut **	1
3	MK-LW446E.03	Stuffing Box **	1
4	MK-LW446.01.008	Liner Seal LWS-446	1
5	MK-LW446E.05	O-Ring, Spacer lantern	2
6	MK-LW446E.06	Plunger Packing Assy **	1
7	MK-LW446E.07	Ring Junk **	3
8	MK-LW446E.08	Spacer Lantern **	2
9	MK-LW446E.09	O-Ring, Spacer lantern-02	1

**) Specify size to order, Plunger size available in size 3" - 3-1/2"

MUD KING LWS-440/446

MK-LW446 Rubber Parts List

Item	Part No.	Description	Qty	Remarks
1	MK-LW446.06.03	5.5"x 4.5"x 0.5" Reinforced Seal	4	Transmission Shaft Assy.
2	MK-LW446.167	Oil Pump Chamber Rear Cover Washer	1	Frame Assy.
3		Rubber Strip	1	Frame Assy.
4	MK-LW446.04.142	Top Cover Gasket	2	Frame Assy.
5	MK-LW446.244	Deflector	3	Crosshead Assy.
6	MK-LW446.243	Stuffing Box Seal Ring	3	Crosshead Assy.
7	LW -446.04.002	O13 Rubber Seal	12	Crosshead Assy.
8	LW -446.04.003	O10 Rubber Seal	18	Crosshead Assy.
9	LW -446.04.005	3"x 4"x 0.5" Reinforced Double Lip Seal	6	Crosshead Assy.
10	MK-GB3452.1	100 x 3.5 O Ring	6	Fluid End Assy.
11	MK-GB3452.1	25 x 3.55 O Ring	3	Fluid End Assy.
12	MK-GB3452.1	47.5 x 5.3 O Ring	3	Fluid End Assy.
13	MK-GB/T3452.1	150 x 5.3 O Ring	3	Fluid End Assy.
14	MK-GB/T3452.1	185 x 7 O Ring	2	Fluid End Assy.
15	MK-LW446.01.001	Valve cover Seal	3	Fluid End Assy.
16	MK-LW446.01.008	Liner Seal	3	Fluid End Assy.
17	MK-LW446.01.010	Upper Valve Cover Seal	3	Fluid End Assy.
18	MK-160-HB	6" Rubber	3	Together w Piston
19	MK-154-HB	5 ½" Rubber	3	Together w Piston
20	MK-150-HB	5" Rubber	3	Together w Piston
21	MK-145-HB	4 ½" Rubber	3	Together w Piston
22	MK-140-HK	4" Rubber	3	Together w Piston
23	MK-135-HK	3 ½" Rubber	3	Together w Piston

MUD KING LWS-440/446

MK-LW446 EXPENDABLE PARTS LIST

Item	Drawing No.	Description	Qty	Remarks
1	MK-LW446.04.005	3" x 4" x 0.5"	1	Crosshead Assembly
		Reinforced Double Lip Seal		
2	MK-GB3452.1	75 x 5.3 O Ring	4	Crosshead Assembly
3	MK-LW -446.06.03	5.5" x 4.5" x 0.5"	4	Transmission Shaft Assy.
		Reinforced Seal		
4	MK-GB3452.1	100 x 3.5 O Ring	6	Fluid End Assy.
5	MK-GB3452.1	47.5 x 5.3 O Ring	3	Fluid End Assy.
6	MK-GB/T3452.1	150 x 5.3 O Ring	3	Fluid End Assy.
7	MK-GB/T3452.1	185 x 7 O Ring	2	Fluid End Assy.
8	MK-LW -446.01.001	Valve Cover Gasket	3	Fluid End Assy.
9	MK-LW -446.01.008	Liner Gasket	3	Fluid End Assy.
23	MK-LW -446.01.010	Upper Valve Cover Gasket	3	Fluid End Assy.
10	MK-LW -446.321	Suction Valve Guide	1	Fluid End Assy.
11	MK-LW -446.01.002	Valve Seat	2	Fluid End Assy.
12	MK-LW -446.01.03	Valve Body	2	Fluid End Assy.
13	MK-LW -446.01.004	Valve Spring	2	Fluid End Assy.
14	MK-160-HB 14/15	6" Piston	3	Piston Hub, Piston Rubber, Plate, and Spring
15	MK-154-HB 14/15	5 ½ " Piston	3	Piston Hub, Piston Rubber, Plate, and Spring
16	MK-150-HB 14/15	5" Piston	3	Piston Hub, Piston Rubber, Plate, and Spring
17	MK-144-HB 14/15	4 ½" Piston	3	Piston Hub, Piston Rubber, Plate, and Spring
18	MK-140-HK 14/15	4" Piston	3	Piston Hub, Piston Rubber, Plate, and Spring
19	MK-5203-60	6" Liner	3	Fluid End Assy.
20	MK-5203-54	5 ½" Liner	3	Fluid End Assy.
21	MK-5203-50	5" Liner	3	Fluid End Assy.
22	MK-5203-44	4 ½" Liner	3	Fluid End Assy.
23	MK-5203-40	4" Liner	3	Fluid End Assy.
24	MK-5203-34	3 ½" Liner	3	Fluid End Assy.

OTHER PARTS

No	Description	Part No.
1	O RING SPACE LANTERN	MK-LWS446E.05
2	PLUGER PACKING ASSY	MK-LWS446E.06
3	SPACE LANTERN	MK-LWS446E.08
4	O RING SPACE LANTERN	MK-LWS446E.09
5	VALVE POT COVER SEAL	MK-LWS446.01.001
6	VALVE SEAT, SLUSH SERVICE	MK-LWS446.01.002
7	1-1/8" - UNC - 2B NUT	MK-LWS446.01.006
8	UPPER VALVE COVER SEAL	MK-LWS446.01.010
9	SUCTION PIPE	MK-LW446.326
10	PULSATION DAMPENR BLADDER 5000 PSI (for LWS446)	Bladder

MUD KING

MKP-1000

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-1191-40	MKG-0692
4½"	MK-1191-44	MKG-0692
5"	MK-1191-50	MKG-0692
5½"	MK-1191-54	MKG-0692
6"	MK-1191-60	MKG-0692
6¼"	MK-1191-62	MKG-0692
6½"	MK-1191-64	MKG-0692
6¾"	MK-1191-66	MKG-0692
7"	MK-1191-70	MKG-0692

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0749	MKG-0749

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B01	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B01	MK-5710-110	MK-UDD-7BHT	MK-1700-7
MKP-FULL OPEN	MK-7FO-V1	MK-7FO-S1	MK-5710-115L	MK-7FO-SI	MK-1700-7FO
MKP-G2	MK-1560985	MK-1561370	MK-1560702	MK-1560557	MK-1700-7G2
MKP-3 WEB	MK-202PZL482A	MK-202PZL039	MK-5710-110	MK-201PZL106	MK-1700-7R
MKP-ROUGHNECK	MK-RN7-V1	MK-RN7-S1	MK-5710-110L	MK-RN7-I	MK-1700-7FO
MKP-SW FULL OPEN	MK-777-7	MK-877-7	MK-951	MK-977	MK-1700-7SW
MKP-DOUBLE ANGLE	MK-0500110	MK-0509309	MK-05147900	MK-0514275	MK-1700-7BA
MKP-PLATE TYPE	MK-0505062	MK-0509309	MK-05144230	MK-0504893	MK-1700-7BA

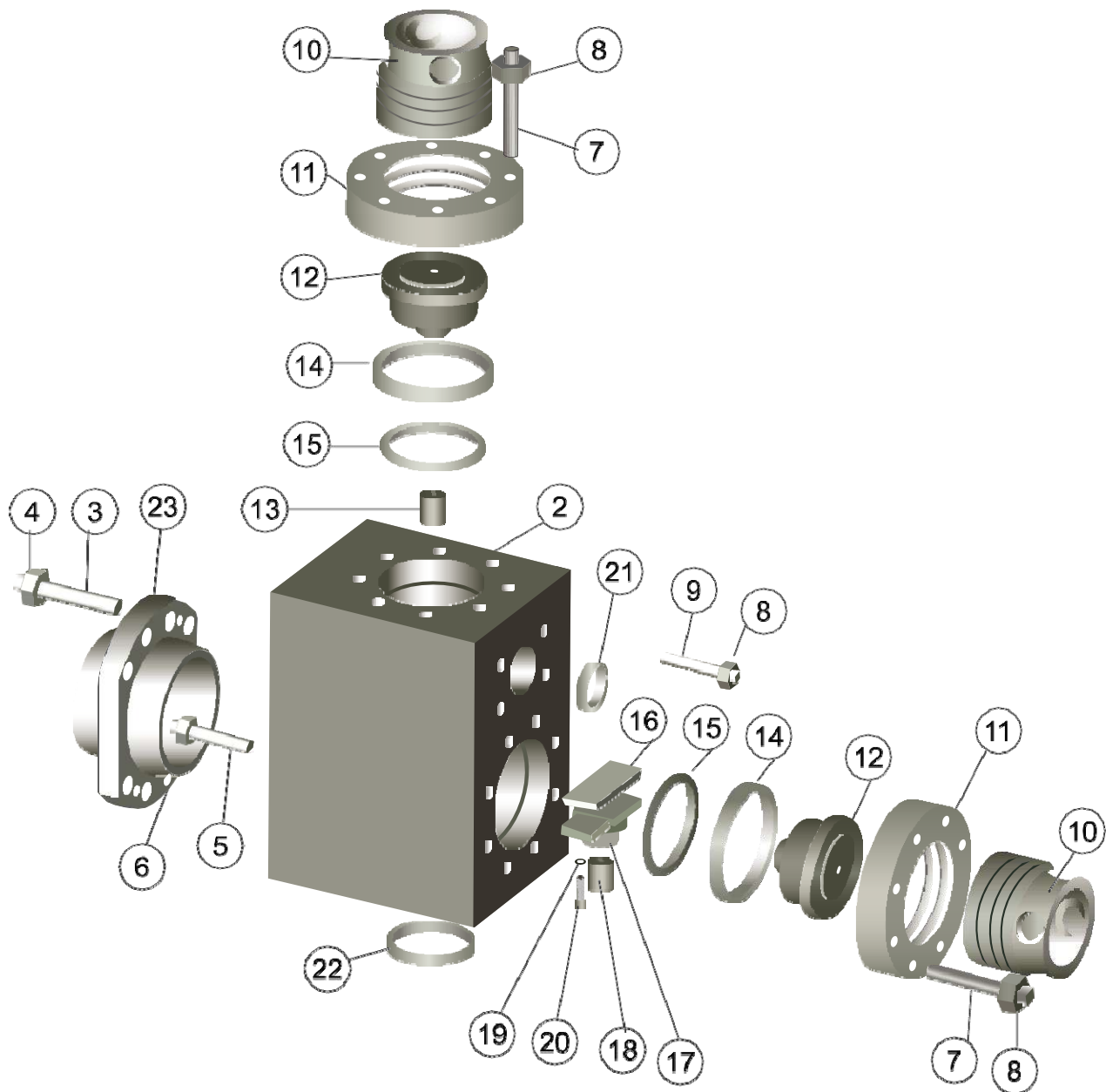
Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-170-HL 14/15	MK-170-HL	MK-RB-700	MK-LL-700

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
CLAMP TYPE	MK-0191	N/A	MK-16-0191	MK-24-0191	MK-7403364
THREAD TYPE	MK-0202	N/A	MK-16-0201	N/A	MK-7403364

MUD KING MKP-1000

Item	Part No.	Description	Qty per Pump
1	MK-205PZL029D	Fluid Module, Studded (Included Items 2 – 9)	(3)
2		Fluid Module, Only	3
3	MK-79L188	Stud – Frame, Liner Clamp	24
4	MK-50B36	Nut – Frame, Liner Clamp	48
5	MK-79L73	Stud – Frame	12
6	MK-50AQ30	Nut – Frame	12
7	MK-79AL6	Stud – Threaded Ring	48
8	MK-50B34	Nut – Threaded Ring, Discharge Manifold	60
9	MK-202PZL110	Stud – Discharge Manifold	12
10	MK-2011857	Cap – Valve Lock	6
11	MK-2011699	Threaded Ring	6
12	MK-2011860	Cover – Valve	6
13	MK-2007674	Valve Guide Bushing	3
14	MK-2011862	Gasket – Valve Cover	6
15	MK-2011861	Ring – Retaining / Valve Cover Gasket	6
	MK-2011706	Valve Guide Assembly (Included Items 16 – 20)	(3)
16	MK-2011701	Retainer Plate	3
17	MK-2011700	Valve Guide – Suction	3
18	MK-2007674	Valve Guide Bushing – Suction	3
19	MK-95W2	Lock Washer – Valve Guide / Suction	6
20	MK-655EE06S	Bolt – Valve Guide / Suction	6
21	MK-25AL35	Gasket – Discharge Manifold	3
22	MK-25G41	Gasket – Suction Manifold	3
23	MK-1PV14	Liner Clamp	3
	MK-7501-0230-49	Assembly ½" Hose	1
	MK-7601-2588-50	Nipple, Pipe	1
	MK-1700	Puller Assy	1
	MK-7602-1600-40	Seal, Strainer Cap	3



MUD KING MKF 800

6¾" × 9

F-800

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0148-40	MKG-0282
4½"	MK-0148-44	MKG-0282
5"	MK-0148-50	MKG-0282
5½"	MK-0148-54	MKG-0282
6"	MK-0148-60	MKG-0282
6¼"	MK-0148-62	MKG-0282
6½"	MK-0148-64	MKG-0282
6¾"	MK-0148-66	MKG-0282

Gaskets	
Valve Cover Gasket	Cylinder Head Gasket
MKG-0740	MKG-0282

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B06	MK-5710-111	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B06	MK-5710-111	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S1	MK-5710-115	MK-6FO-SI	MK-1700-6FO
MKP-G2	MK-1560995	MK-1561380	MK-1560701	MK-1560587	MK-1700-6G2
MKP-ROUGHNECK	MK-RN6-V1	MK-RN6-S6	MK-5710-110L	MK-RN6-I	MK-1700-6FO
MKP-SW FULL OPEN	MK-773-1	MK-873-2	MK-951	MK-973	MK-1700-6SW
MKP-DOUBLE ANGLE	MK-0500119	MK-0520008	MK-05139890	MK-0515845	MK-1700-6BA
MKP-PLATE TYPE	MK-0505038	MK-0520008	MK-05139880	MK-0504890	MK-1700-6BA

Piston Size	Red Thunder Bonded Pistons	Imperial Piston	Imperial Rubber Kits	Rubber Bonded	Long Life (Urethane)
4"	MK-RT-400	MK-140-HK 14/15	MK-140-HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-144-HK 14/15	MK-144-HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-150-HB 14/15	MK-150-HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-154-HB 14/15	MK-154-HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-160-HB 14/15	MK-160-HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-164-HL 14/15	MK-164-HL	MK-RB-640	MK-LL-640

* ¼ Size are available upon request

RODS					
	PISTON ROD	SUB ROD	EXTENSION ROD	ROD CLAMP	PISTON ROD NUT
PART NO.	MK-0150	N/A	MK-16-0150	MK-24-0150	MK-7403364

Pulsation Dampeners and Strainer Blocks



	Bottom Connection	Capacity	Max Pressure	WT
K20	4" API 5000 R44 RJ	20	5000	2145
K10	4" API 5000 R44 RJ	10	5000	950
K5	2" ANSI 1500 Raised Face	5	3000	230
PD55	4" API 5000 R44 RJ	20	5000	1373
PD45	4" API 5000 R44 RJ	12	5000	918

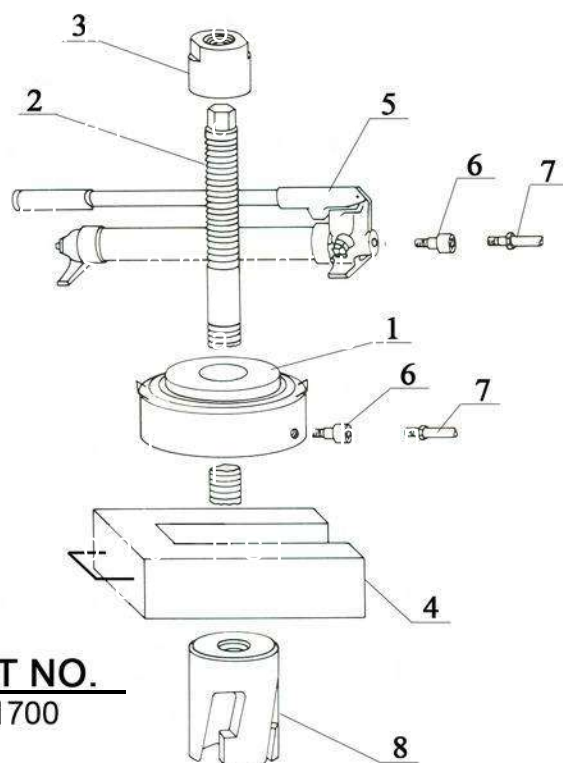
CA122 Liner Wash Pump	
Part Number	Description
MK-CA122	CA122 Liner Wash Pump

HYDRAULIC VALVE SEAT PULLER

PARTS & OPERATING INSTRUCTIONS

- 1 insert head into
Screw stem into h
- 2 Place U bar over
over pot bore. Pl
over stem and on
- 3 Tighten stem nut or
is removed. The jac
down to eliminate j
seat breaks loose.
- 4 Attach hose to pump
handle untill s

Manual Pump (5)
Hydraulic Jack (



NO.	DESCRIPTION	PART NO.
	Valve Seat Puller Assembly..... complete w/ metal case	MK-1700
1.....	Hydraulic Jack.....	MK-1701
	Hydraulic Jack Seal Repair Kit	MK-1717
2.....	Center Stem	MK-1702
3.....	Center Stem Nut.....	MK-1703
4.....	Puller U Bar.....	MK-1704
5.....	Hydraulic Pump.....	MK-1708
	Hydraulic Pump Repair Kit	MK-1718
6.....	Gauge Coupler.....	MK-1713
7.....	Hydraulic Hose.....	MK-1707
8.....	Puller Head	
	API-5..... 4-Web Style.....	MK-1700-5
	API-6..... 4-Web Style.....	MK-1700-6
	API-6..... 3-Web Style.....	MK-1700-6R
	API-6..... Full Open (3 5/8" I.D.)...	MK-1700-FO6
	API-7..... 4-Web Style.....	MK-1700-7
	API-7..... 3-Web Style.....	MK-1700-7R
	API-7..... G2 Style.....	MK-1700-7G2
	API-7..... Full Open (4" I.D.).....	MK-1700-FO7
	API-8..... 4-Web Style.....	MK-1700-8