



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

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# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-B1	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-I40HK10	MK-I40HK	MK-RB-400-10	MK-LL-400-10
4½"	MK-RT-440-10	MK-I44HK10	MK-I44HK	MK-RB-440-10	MK-LL-440-10
5"	MK-RT-500-10	MK-I50HB10	MK-I50HB	MK-RB-500-10	MK-LL-500-10
5½"	MK-RT-540-10	MK-I54HB10	MK-I54HB	MK-RB-540-10	MK-LL-540-10
6"	MK-RT-600-10	MK-I60HB10	MK-I60HB	MK-RB-600-10	MK-LL-600-10
6½"	MK-RT-640-10	MK-I64HL10	MK-I64HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### EMSCO

**6<sup>3</sup>/<sub>4</sub> x 7<sup>1</sup>/<sub>2</sub>**

**F-500**

#### Liners & Liner Packing

SIZES	LINER	LINER PACKING
4"	MK-0146-40	MKG-0281
4 <sup>1</sup> / <sub>2</sub> "	MK-0146-44	MKG-0281
5"	MK-0146-50	MKG-0281
5 <sup>1</sup> / <sub>2</sub> "	MK-0146-54	MKG-0281
6"	MK-0146-60	MKG-0281
6 <sup>1</sup> / <sub>4</sub> "	MK-0146-62	MKG-0281
6 <sup>1</sup> / <sub>2</sub> "	MK-0146-64	MKG-0281
6 <sup>3</sup> / <sub>4</sub> "	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-B1	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-I40HK10	MK-I40HK	MK-RB-400-10	MK-LL-400-10
4 <sup>1</sup> / <sub>2</sub> "	MK-RT-440-10	MK-I44HK10	MK-I44HK	MK-RB-440-10	MK-LL-440-10
5"	MK-RT-500-10	MK-I50HB10	MK-I50HB	MK-RB-500-10	MK-LL-500-10
5 <sup>1</sup> / <sub>2</sub> "	MK-RT-540-10	MK-I54HB10	MK-I54HB	MK-RB-540-10	MK-LL-540-10
6"	MK-RT-600-10	MK-I60HB10	MK-I60HB	MK-RB-600-10	MK-LL-600-10
6 <sup>1</sup> / <sub>2</sub> "	MK-RT-640-10	MK-I64HL10	MK-I64HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-B6	MK-5710-111	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-111	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### EMSCO

**6 $\frac{3}{4}$  × 10**

**F-1000**

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0148-40	MKG-0282
4 $\frac{1}{2}$ "	MK-0148-44	MKG-0282
5"	MK-0148-50	MKG-0282
5 $\frac{1}{2}$ "	MK-0148-54	MKG-0282
6"	MK-0148-60	MKG-0282
6 $\frac{1}{4}$ "	MK-0148-62	MKG-0282
6 $\frac{1}{2}$ "	MK-0148-64	MKG-0282
6 $\frac{3}{4}$ "	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-B6	MK-5710-111	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-111	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4 $\frac{1}{2}$ "	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5 $\frac{1}{2}$ "	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6 $\frac{1}{2}$ "	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640

\*  $\frac{1}{4}$  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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

**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-B1	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-EFF	MK-7DD-B1	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EFFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### OPI

7 x 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-B6	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700

\* ¼ 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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

**5 × 8**

### GARDNER DENVER PAH (All Models), PJ8A

Liners & Liner Packing			
SIZES	LINER (Small OD)	LINER PACKING	LINER (Large OD)
3"	MK-0189-30	MKG-0266	
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-I30HA	N/A	N/A
3½"	N/A	MK-I34HK14/15	MK-I34HK	N/A	N/A
4"	MK-RT-400	MK-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### GARDNER DENVER 4 x 5 TEE, TGE

#### 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-I30HA10	MK-I30HA	N/A	N/A
3½"	N/A	MK-I34HK10	MK-I34HK	N/A	N/A
4"	MK-RT-400-10	MK-I40HK10	MK-I40HK	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### GARDNER DENVER

**7 x 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-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HB	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HB	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### GARDNER DENVER

**7 x 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-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-70	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### GARDNER DENVER

**7 x 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-EFF	MK-7DD-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EFFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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 PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### GARDNER DENVER

**7 x 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-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### IDEKO

**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-B6	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### IDEKO

**7 x 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-B6	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### IDEKO

**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-B6	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### IDEKO

**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-B1	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### IDEKO

**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-B1	MK-5710-115	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-B6	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-115	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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-B6	MK-5710-111	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B6	MK-5710-111	MK-UDD-6ABHT	MK-1700-6
MKP-FULL OPEN	MK-6FO-V1	MK-6FO-S6	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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

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

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

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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

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

#### Gaskets

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

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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

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

#### Gaskets

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

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5C-EEF	MK-7DD-B1	MK-5710-110	MK-UDD-7B	MK-1700-7
MKP-4 WEB HIGH TEMP	MK-U5C-EEFHT	MK-7DD-B1	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I74HL	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### NATIONAL

**4½ x 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-I30HA10	MK-I30HA	N/A	N/A
3½"	N/A	MK-I34HK10	MK-I34HK	N/A	N/A
4"	MK-RT-400-10	MK-I40HK10	MK-I40HB	MK-RB-400-10	MK-LL-400-10
4½"	MK-RT-440-10	MK-I44HK10	MK-I44HK	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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-I40HK10	MK-I40HK	MK-RB-400-10	MK-LL-400-10
4½"	MK-RT-440-10	MK-I44HK10	MK-I44HK	MK-RB-440-10	MK-LL-440-10
5"	MK-RT-500-10	MK-I50HB10	MK-I50HB	MK-RB-500-10	MK-LL-500-10
5½"	MK-RT-540-10	MK-I54HB10	MK-I54HB	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

**6 $\frac{1}{4}$  × 7 $\frac{3}{4}$**

**7-P-50**

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	MK-0257-40	MKG-0272
4 $\frac{1}{2}$ "	MK-0257-44	MKG-0274
5"	MK-0257-50	MKG-0276
5 $\frac{1}{2}$ "	MK-0257-54	MKG-0278
6"	MK-0257-60	MKG-0280
6 $\frac{1}{4}$ "	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-B3	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4 $\frac{1}{2}$ "	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5 $\frac{1}{2}$ "	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600

\* 1/4 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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-B4	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B4	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HB14/15	MK-I64HB	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-0259-A	MK-0259-B	MK-16-0259	MK-24-0259	MK-7403364



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### NATIONAL

**6¾ × 9¼**

**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
PART NO.	PART NO.
MK-61-0255	N/A

SERIES	VALVE	SEAT	SPRING	URETHANE INSERT	PULLER HEAD
MKP-4 WEB	MK-U5B-EH	MK-6ADD-B4	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B4	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	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-0260-A	MK-0260-B	MK-16-0260	MK-24-0260	MK-7403364



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### NATIONAL

**6 $\frac{3}{4}$  × 10**

**10-P-130**

Liners & Liner Packing		
SIZES	LINER	LINER PACKING
4"	N/A	N/A
4 $\frac{1}{2}$ "	MK-0255-44	MKG-0274
5"	MK-0255-50	MKG-0265
5 $\frac{1}{2}$ "	MK-0255-54	MKG-0263
6"	MK-0255-60	MKG-0261
6 $\frac{1}{4}$ "	MK-0255-62	MKG-0283
6 $\frac{1}{2}$ "	MK-0255-64	MKG-0768
6 $\frac{3}{4}$ "	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-B4	MK-5710-115	MK-UDD-6AB	MK-1700-6
MKP-4 WEB HIGH TEMP	MK-U5B-EHHT	MK-6ADD-B4	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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4 $\frac{1}{2}$ "	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5 $\frac{1}{2}$ "	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6 $\frac{1}{2}$ "	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640

\* 1/4 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



# MUD PUMP EXPENDABLES

## TRIPLEX FLUID END PARTS

### 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-I40HK14/15	MK-I40HK	MK-RB-400	MK-LL-400
4½"	MK-RT-440	MK-I44HK14/15	MK-I44HK	MK-RB-440	MK-LL-440
5"	MK-RT-500	MK-I50HB14/15	MK-I50HB	MK-RB-500	MK-LL-500
5½"	MK-RT-540	MK-I54HB14/15	MK-I54HB	MK-RB-540	MK-LL-540
6"	MK-RT-600	MK-I60HB14/15	MK-I60HB	MK-RB-600	MK-LL-600
6½"	MK-RT-640	MK-I64HL14/15	MK-I64HL	MK-RB-640	MK-LL-640
7"	MK-RT-700	MK-I70HL14/15	MK-I70HL	MK-RB-700	MK-LL-700
7½"	N/A	MK-I74HL14/15	MK-I70HL	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





**MUD PUMP EXPENDABLES**  
**TRIPLEX FLUID END PARTS**

## **FLUID END MODULE AND ACCESSORIES**



## FLUID END MODULE AND ACCESSORIES

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

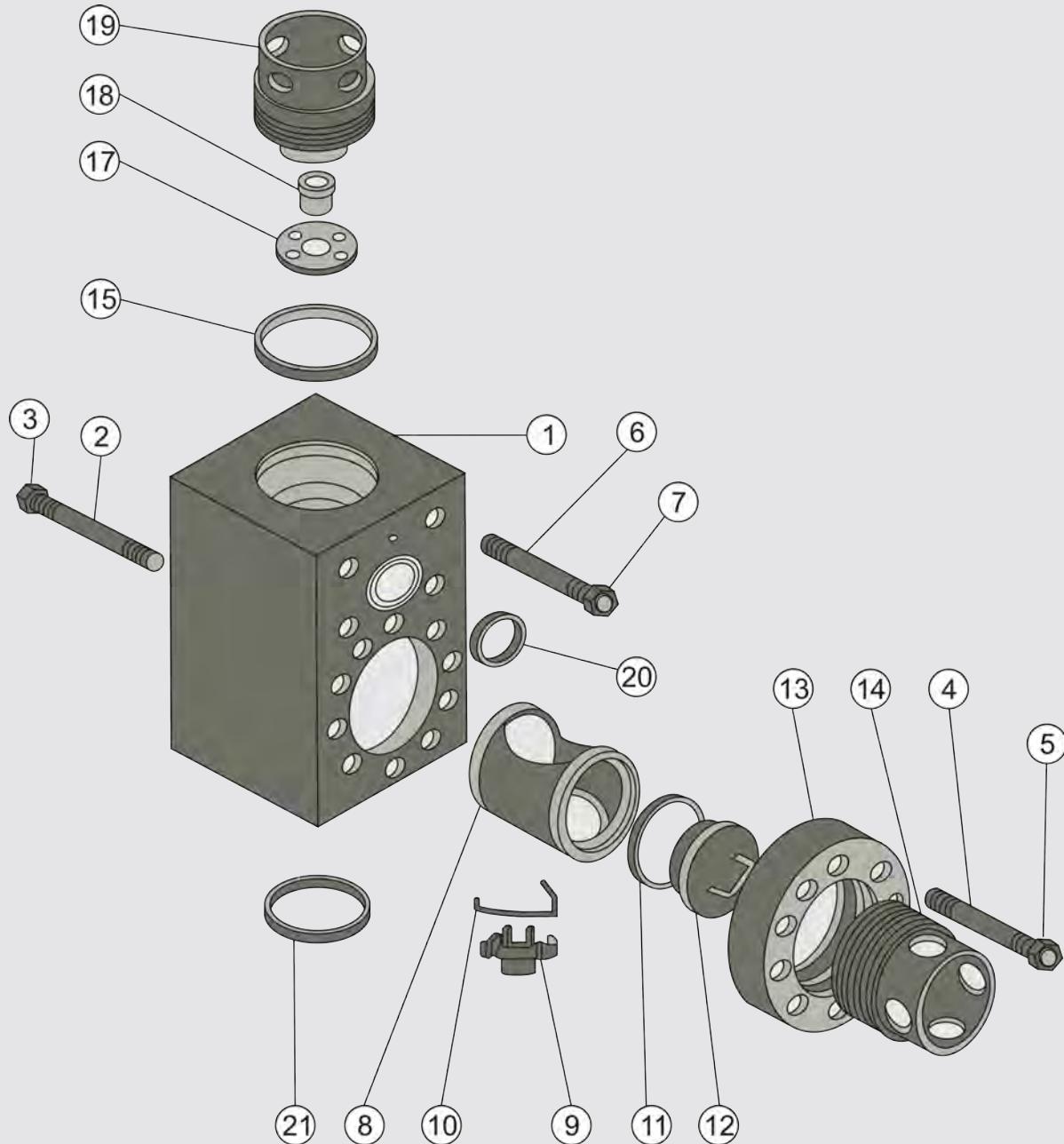
Item	Part No.	Description	Qty per Pump
	MK-6318-0151-00	Fluid Module, Studded (Included Items 2 – 7)	(3)
1		Fluid Module, Only	3
2	MK-7507-2207-00	Stud – Frame	18
3	MK-7601-0630-17	Nut – Frame	18
4	MK-7507-3402-00	Stud – Threaded Ring	36
5	MK-7601-0630-26	Nut – Threaded Ring	36
6	MK-7507-3407-00	Stud – 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

\* Not shown



F-350 F-500 F-650

FLUID END MODULE  
AND ACCESSORIES

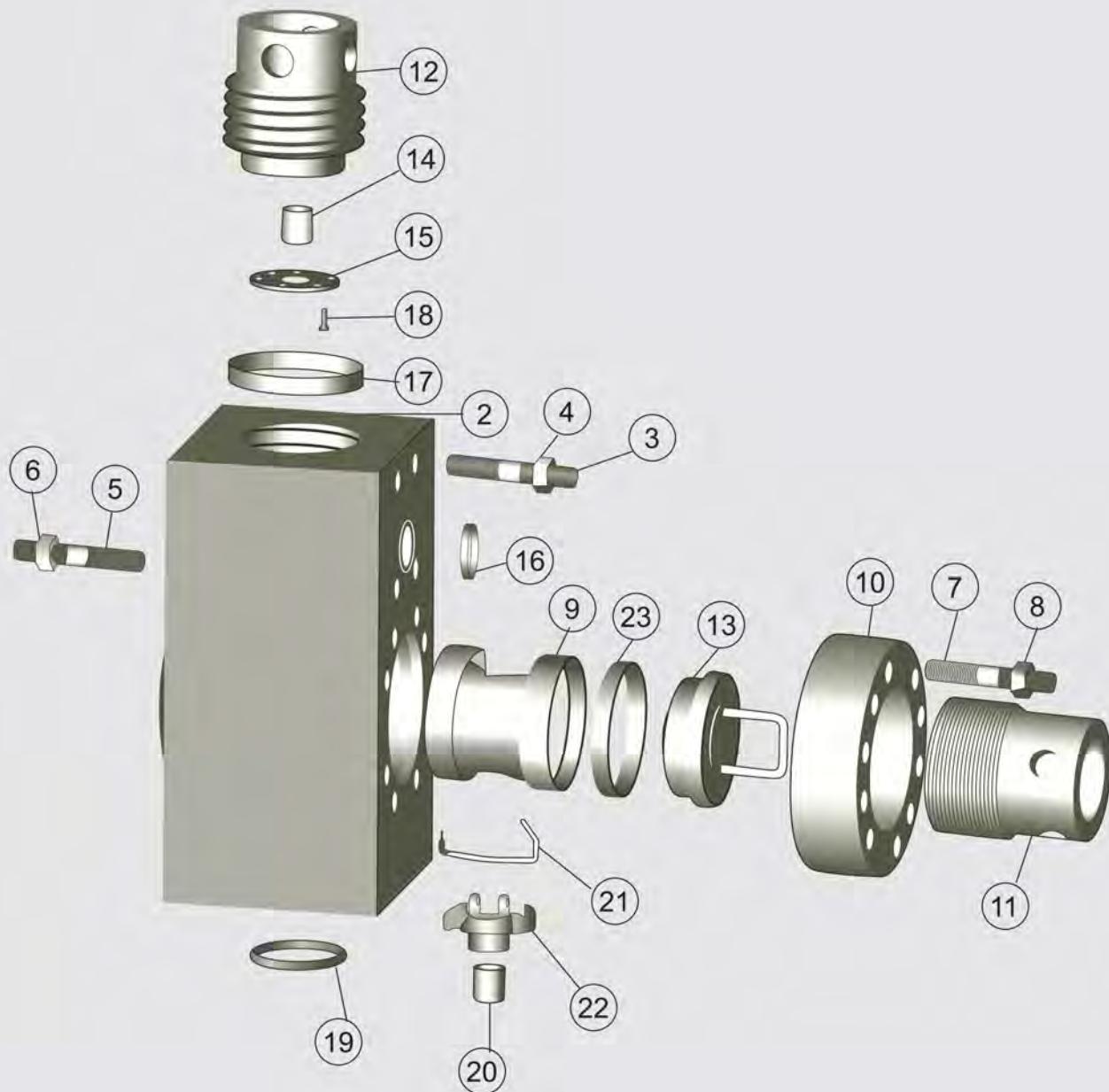




## FLUID END MODULE AND ACCESSORIES

### 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



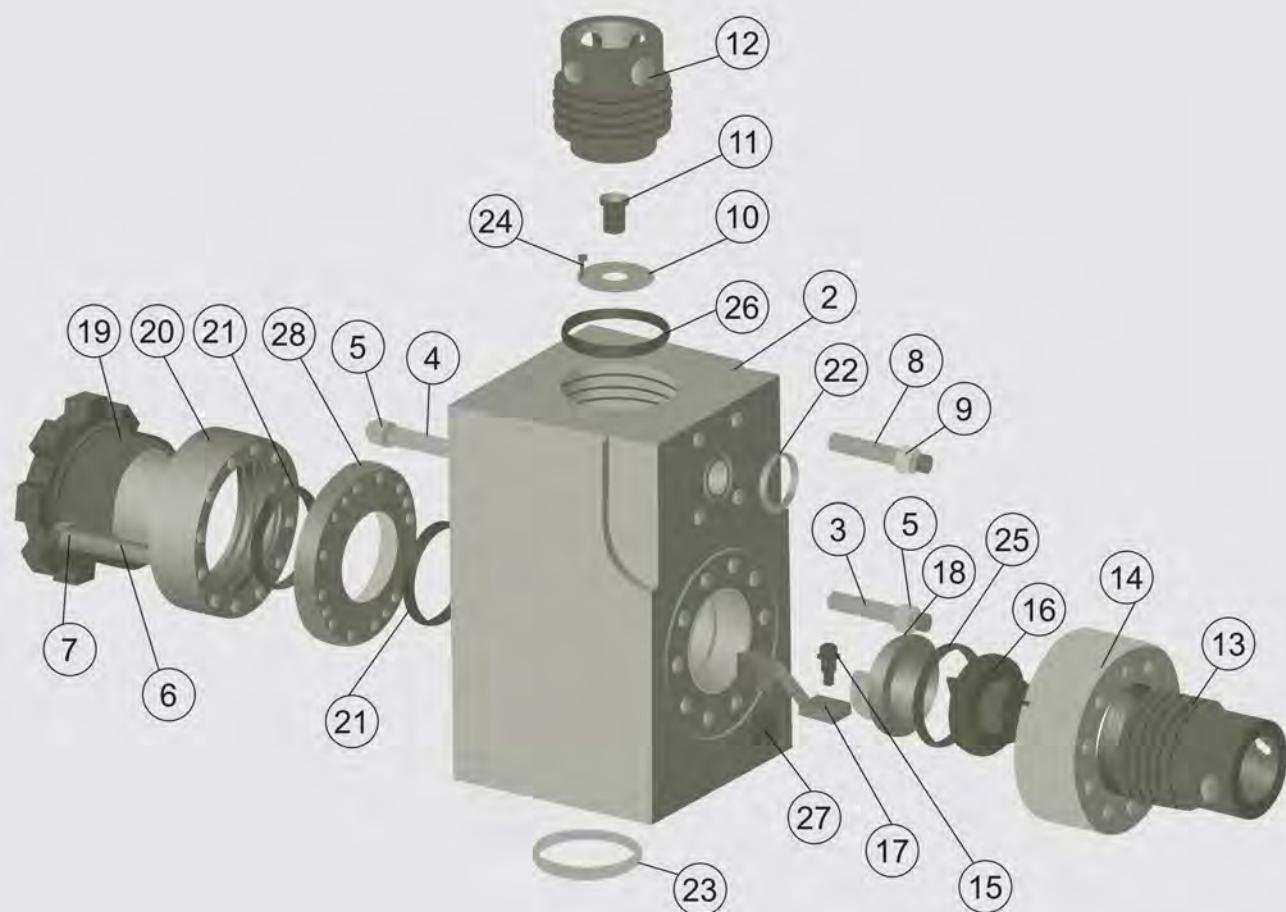


# FLUID END MODULE AND ACCESSORIES

## 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	<sup>1</sup> Wear Plate	3

<sup>1</sup>Offered in Plain Carbon or Stainless Steel



**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	<sup>1</sup> Wear Plate	3

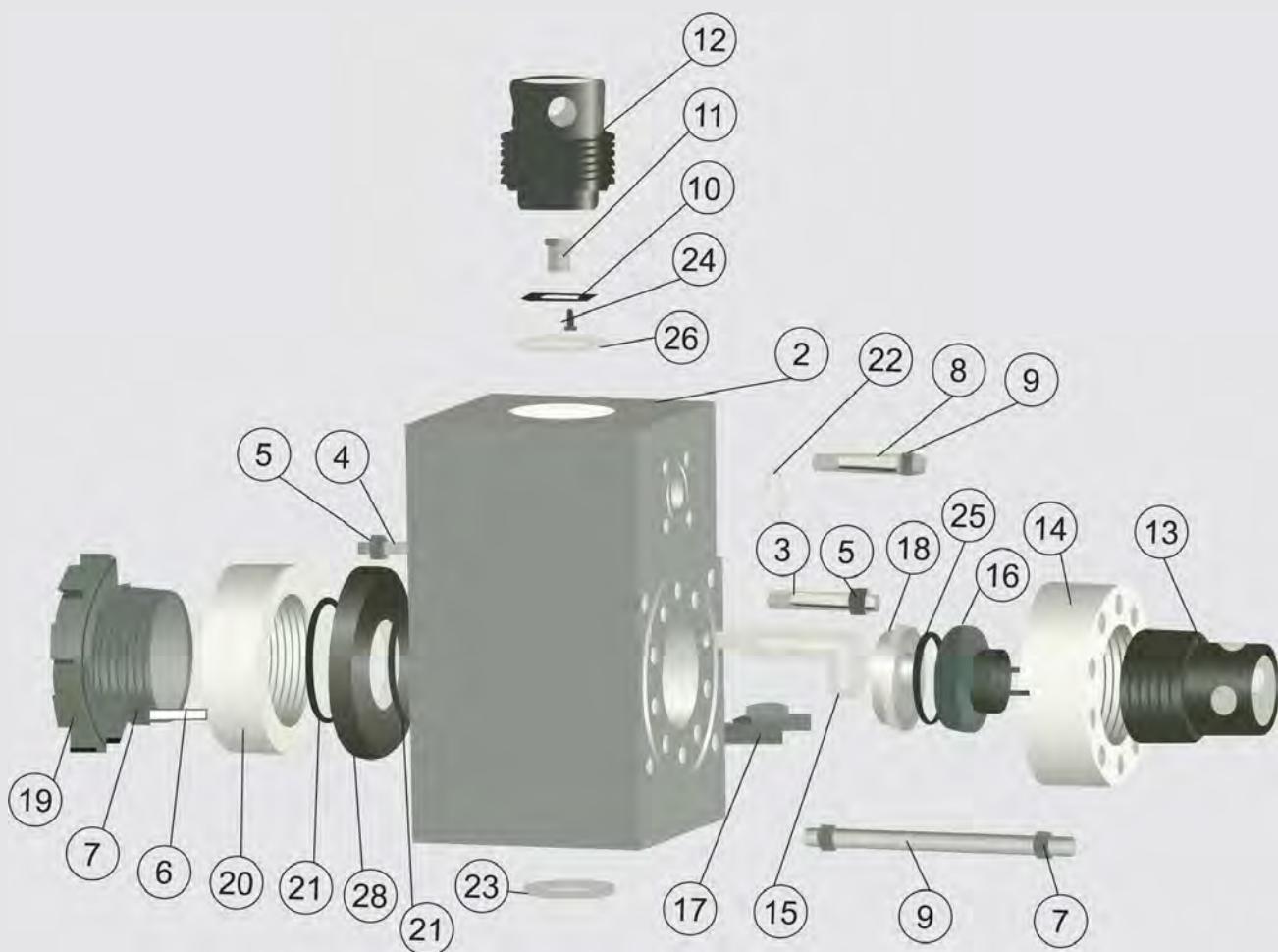
<sup>1</sup>Offered in Plain Carbon or Stainless Steel

\* Not shown



# BOMCO F-1300 F-1600

FLUID END MODULE  
AND ACCESSORIES





## FLUID END MODULE AND ACCESSORIES

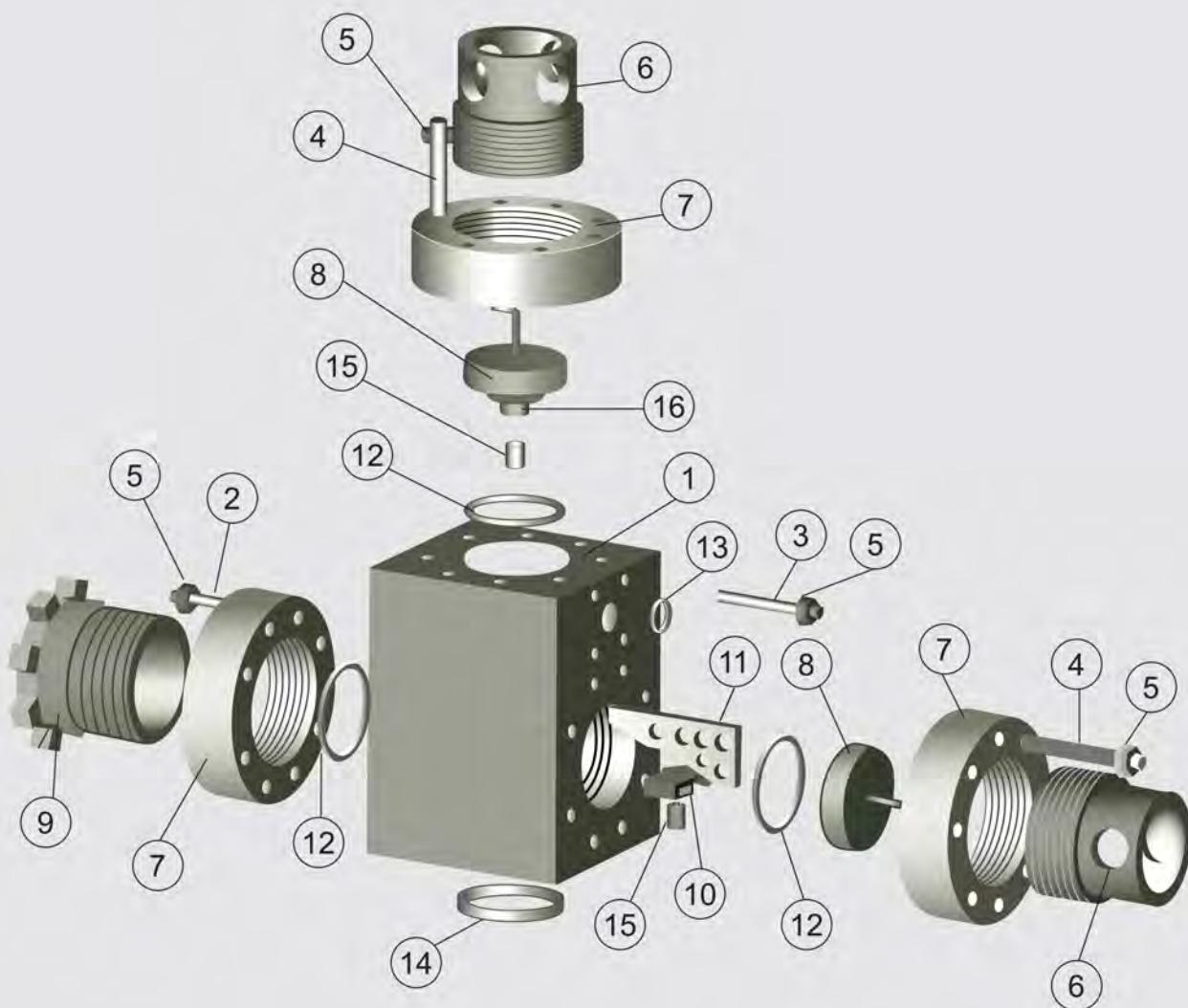
### IDEKO T-500, T-800 & T-1000

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



**T-500 T-800 T-1000**

FLUID END MODULE  
AND ACCESSORIES

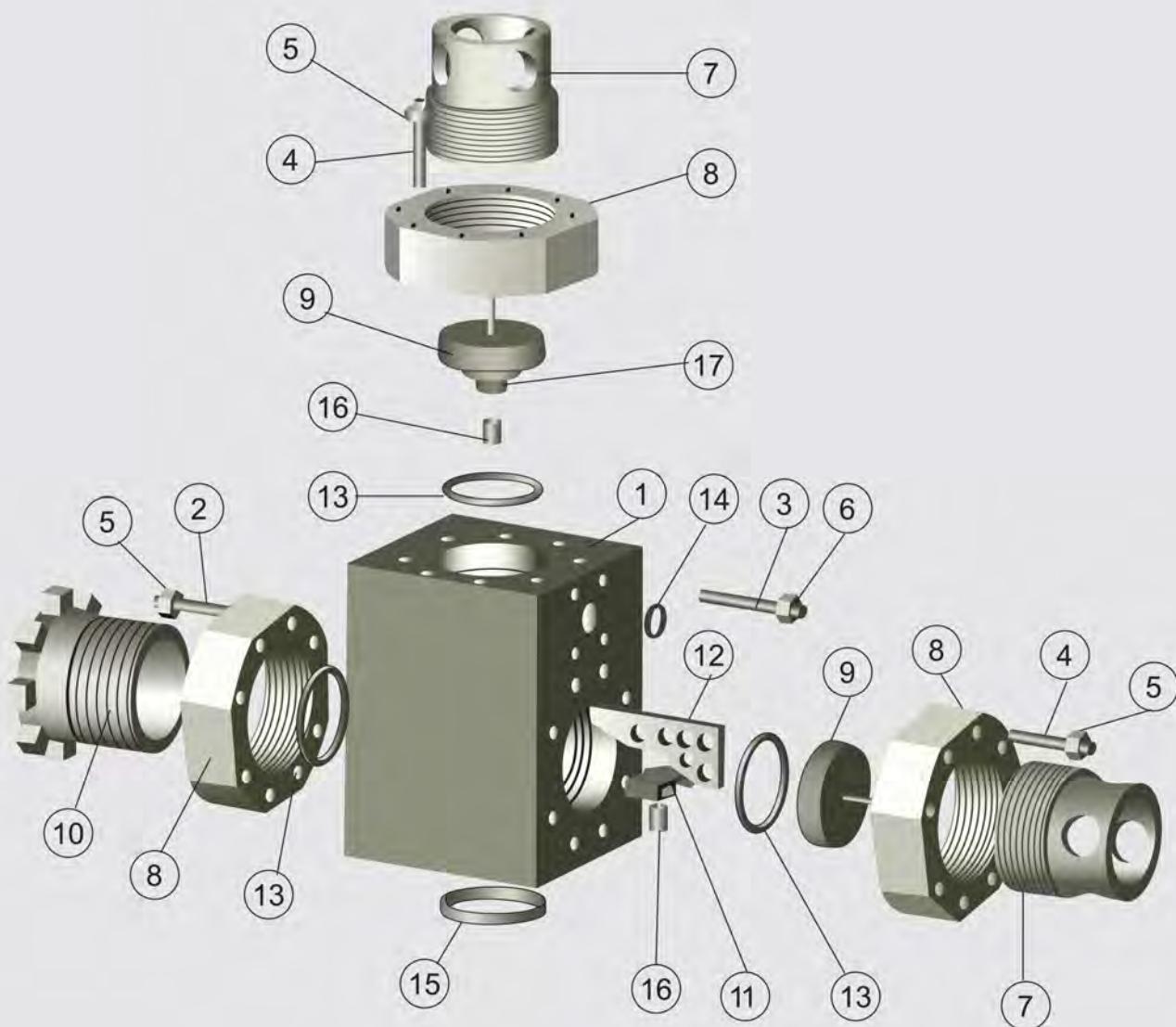




# FLUID END MODULE AND ACCESSORIES

## IDEKO 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





## FLUID END MODULE AND ACCESSORIES

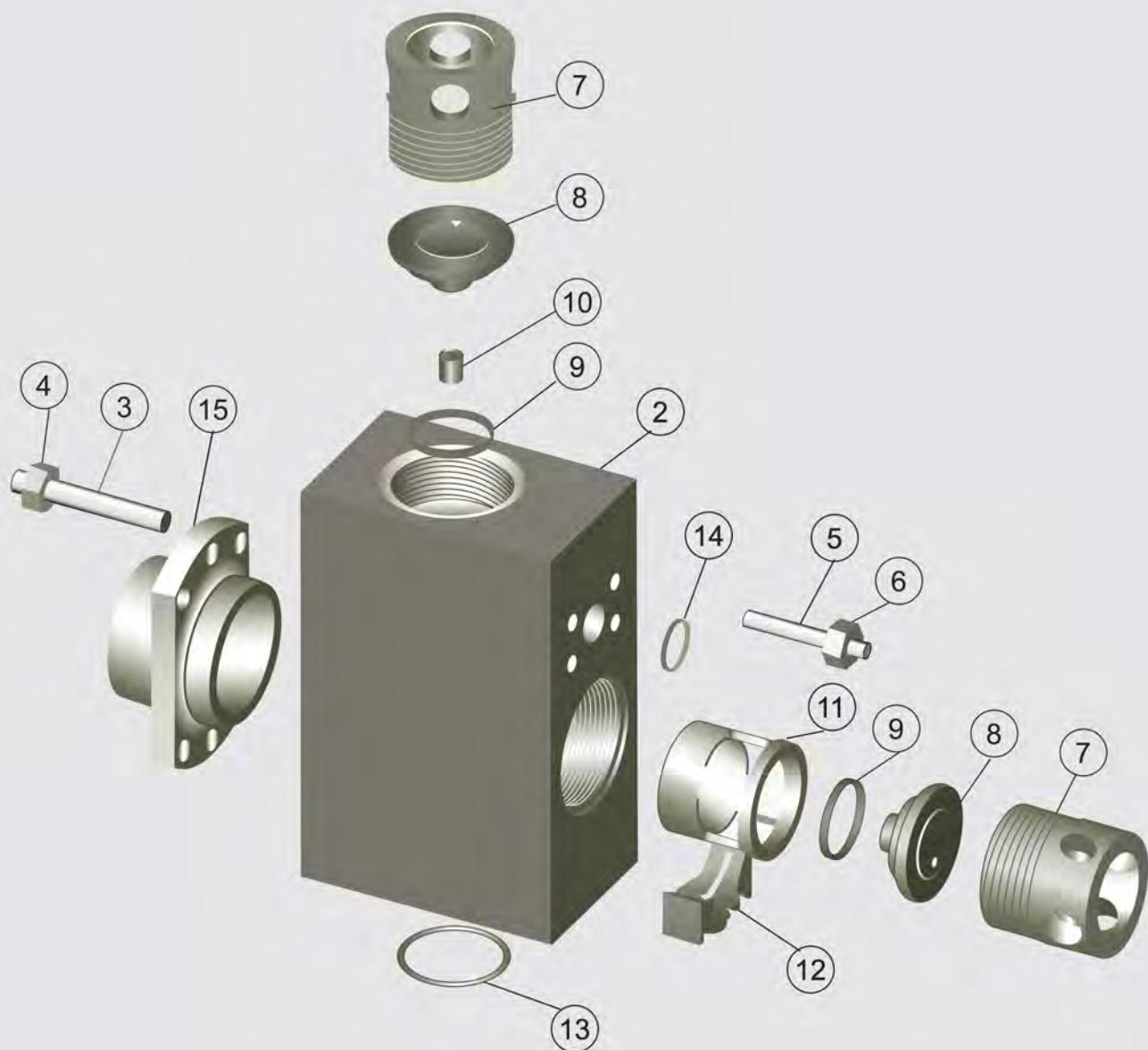
### GARDNER DENVER PAH (All Models)

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



## PAH (All Models)

FLUID END MODULE  
AND ACCESSORIES

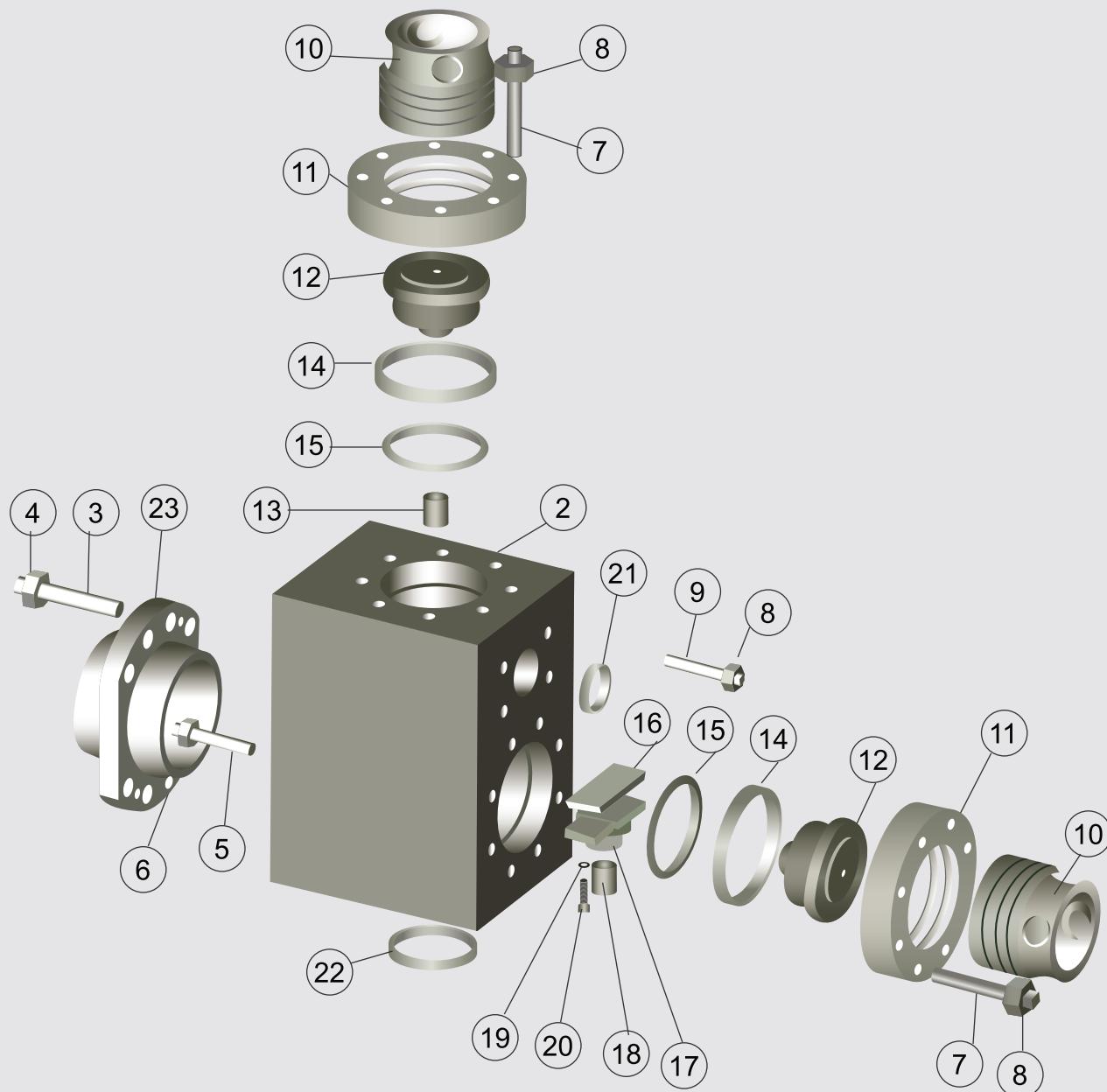




# FLUID END MODULE AND ACCESSORIES

## 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		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

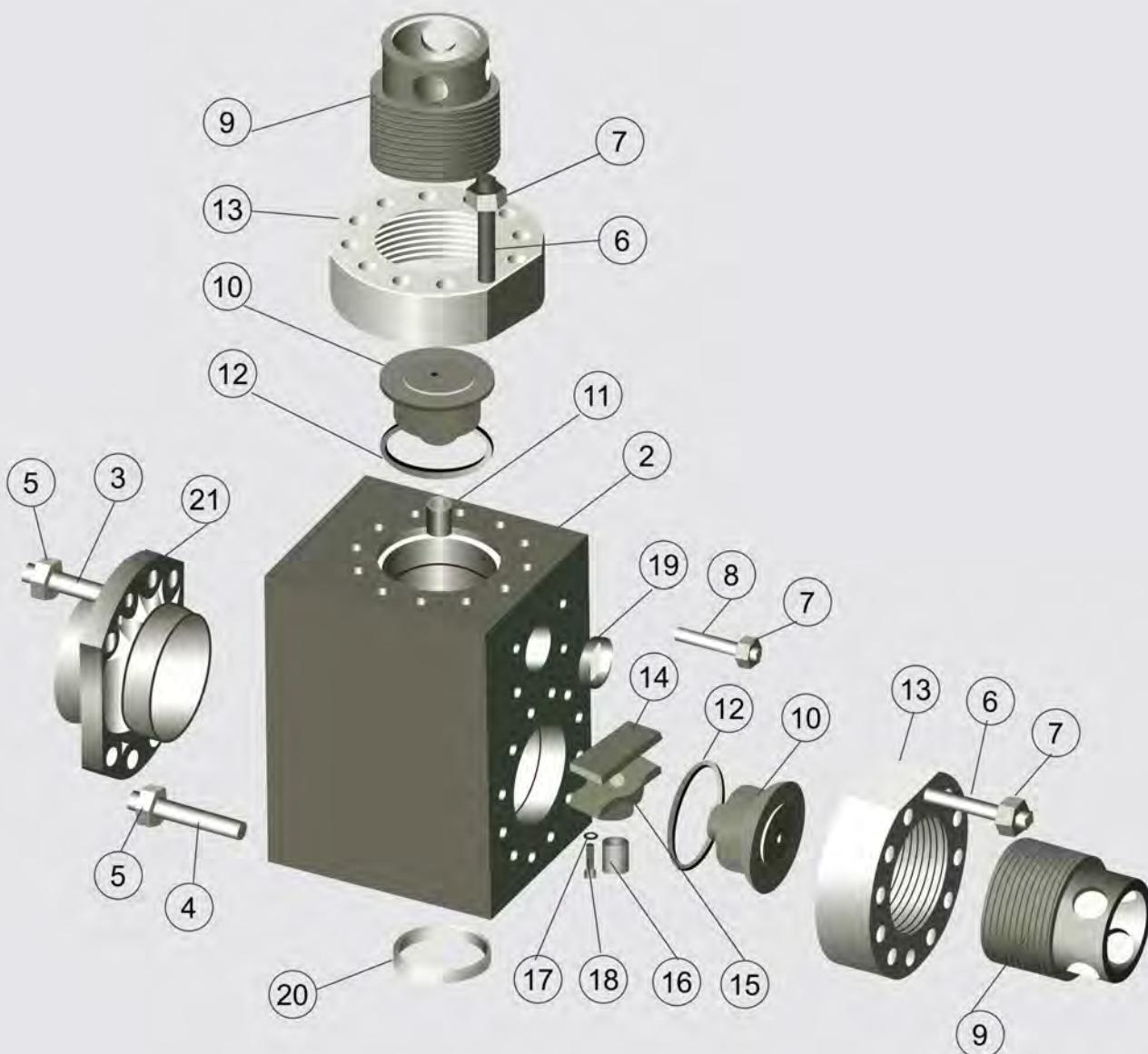




# FLUID END MODULE AND ACCESSORIES

## 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		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





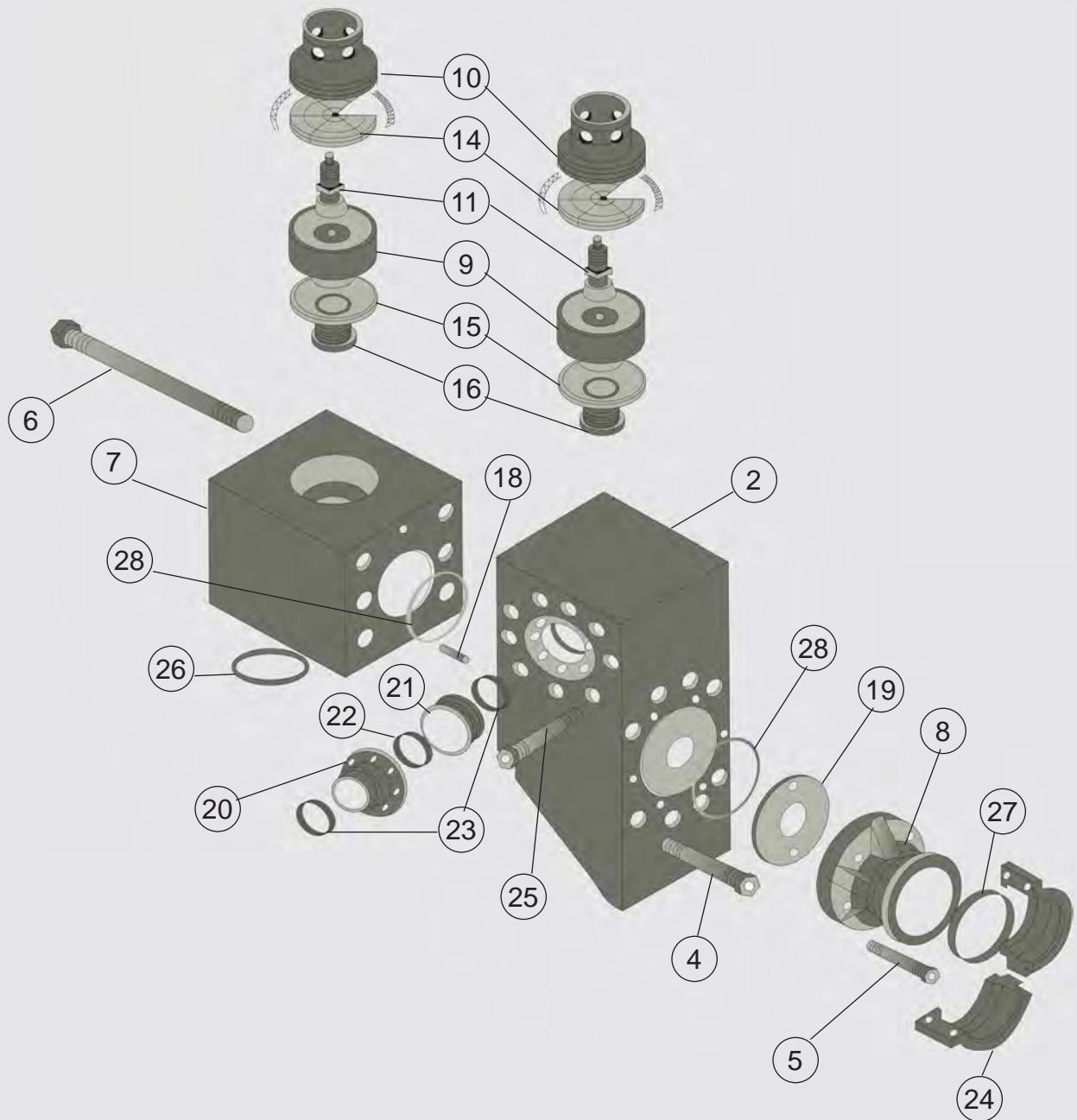
# FLUID END MODULE AND ACCESSORIES

## NATIONAL 7-P-50

Item	Part No.	Description	Qty per Pump
1	MK-1294150	Discharge Module, Studded (Included Items 2 – 7)	(3)
2	MK-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	<sup>1</sup> 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

<sup>1</sup>Offered in Plain Carbon or Stainless Steel

\* Not shown





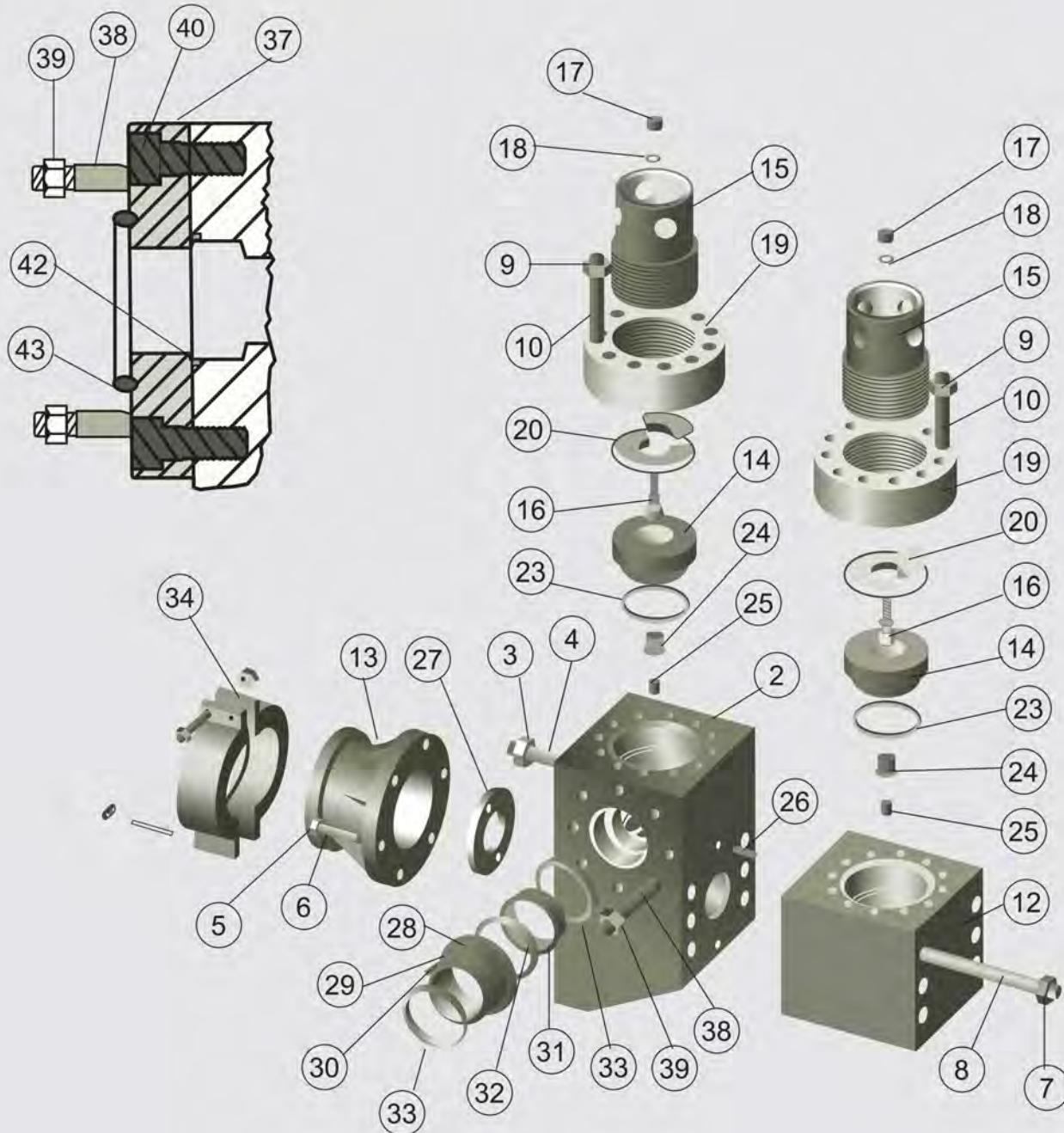
# FLUID END MODULE

## AND ACCESSORIES

### 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	<sup>1</sup> 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

<sup>1</sup>Offered in Plain Carbon or Stainless Steel   \* Not shown





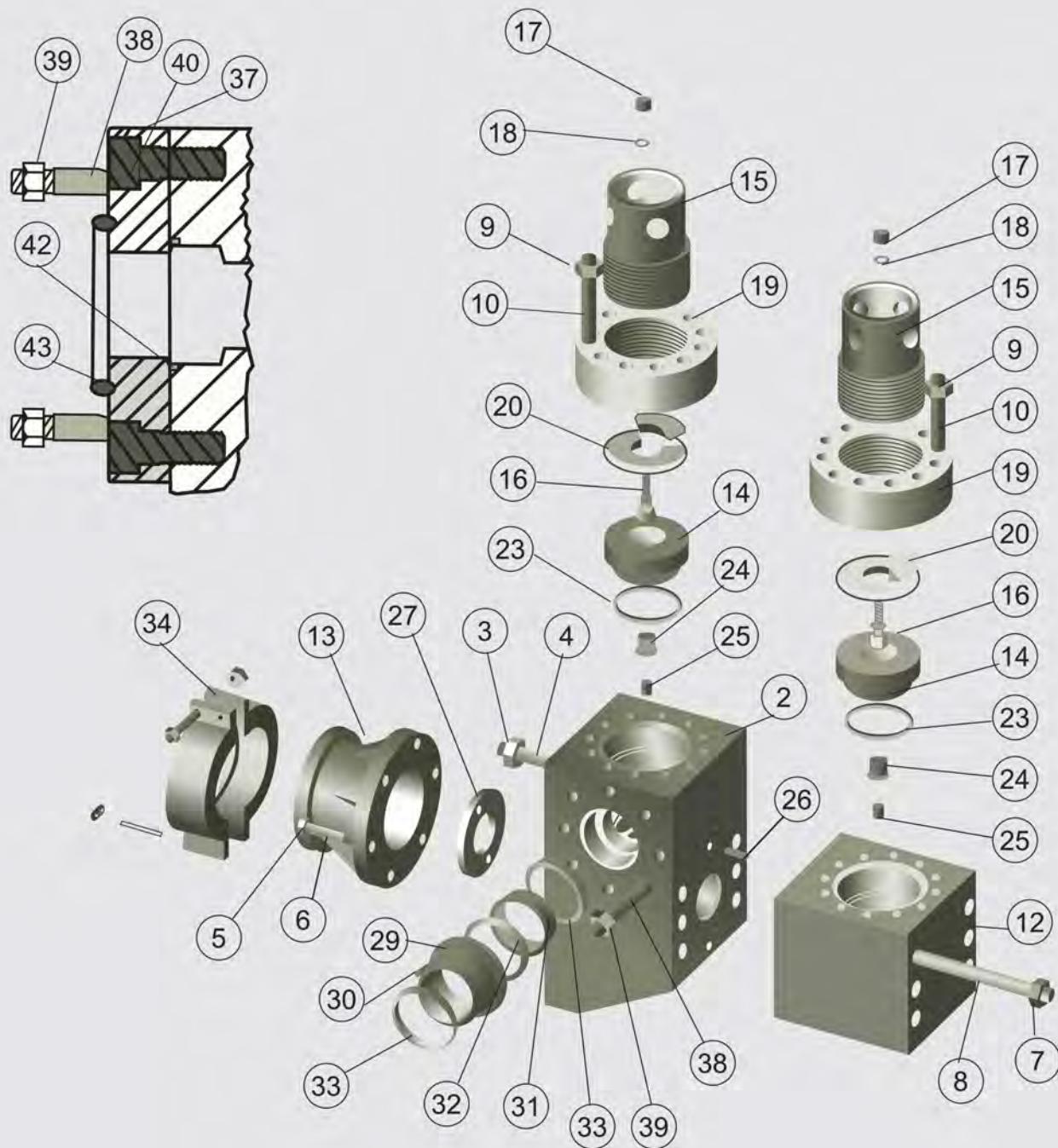
# FLUID END MODULE AND ACCESSORIES

## 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	<sup>1</sup> 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

<sup>1</sup>Offered in Plain Carbon or Stainless Steel

\* Not shown





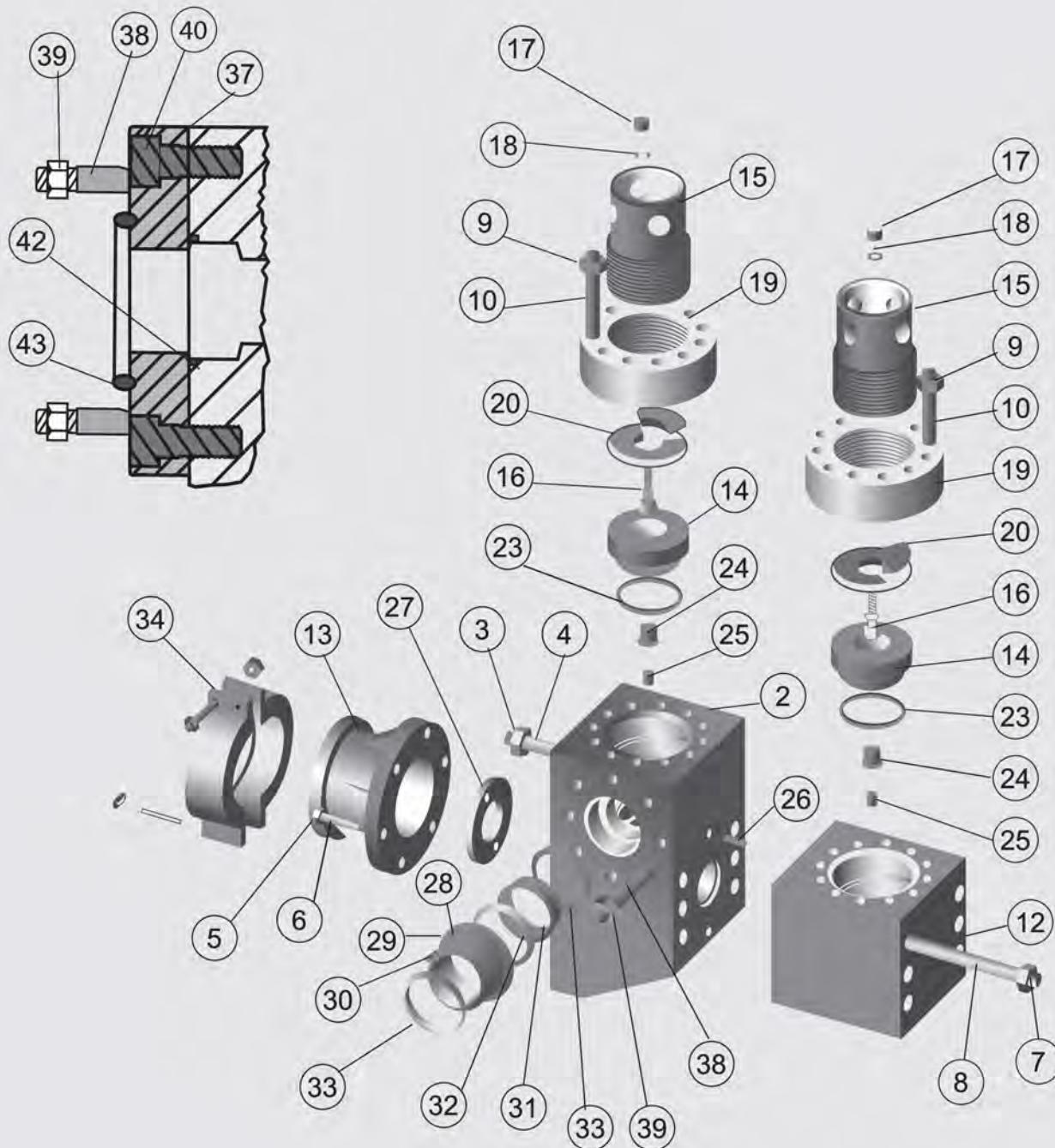
## FLUID END MODULE

## AND ACCESSORIES

### 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

\*Offered in Plain Carbon or Stainless Steel    \* Not shown





## FLUID END MODULE

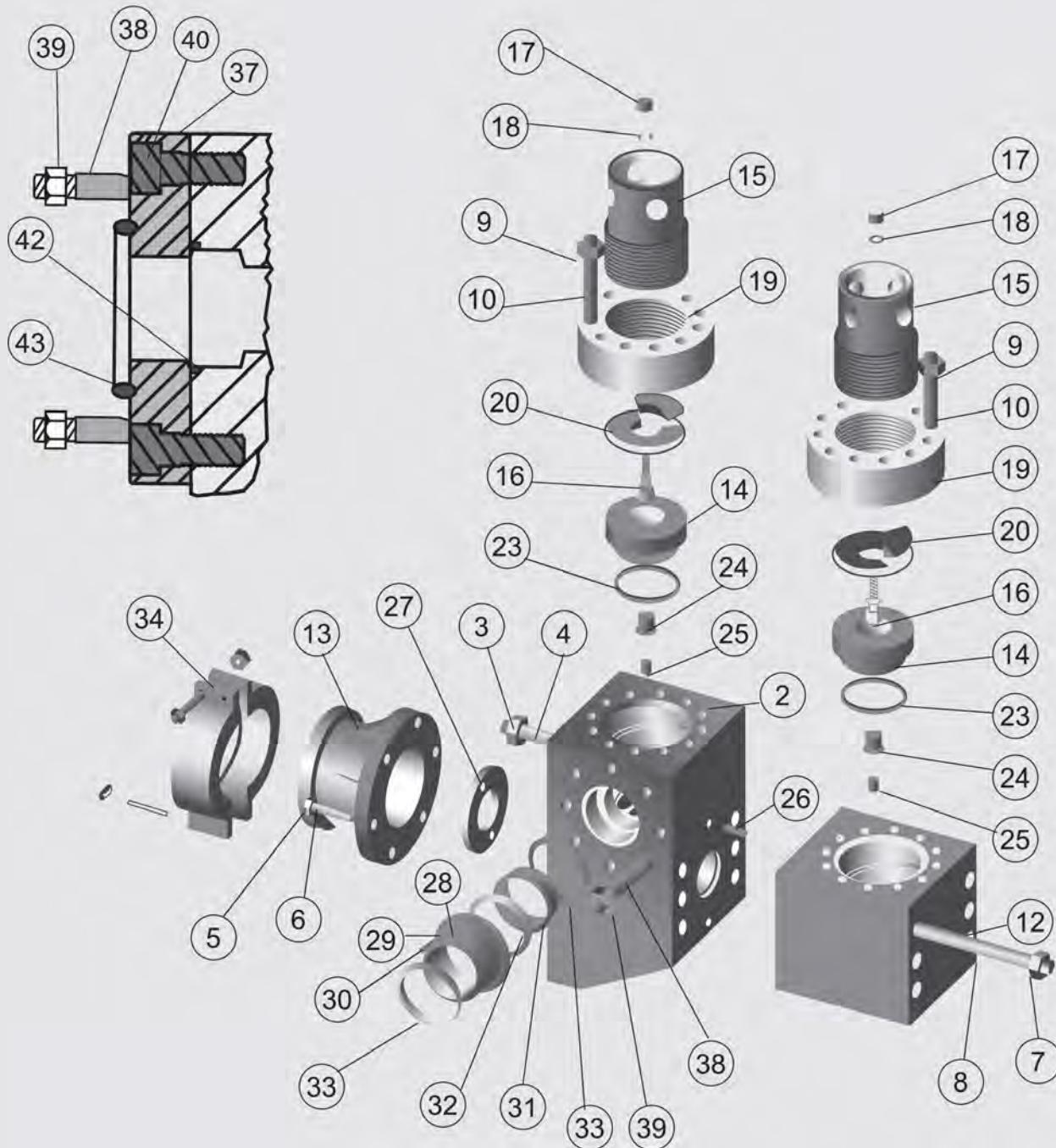
## AND ACCESSORIES

### 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	<sup>1</sup> 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

<sup>1</sup>Offered in Plain Carbon or Stainless Steel

\* Not Shown





## FLUID END MODULE AND ACCESSORIES

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

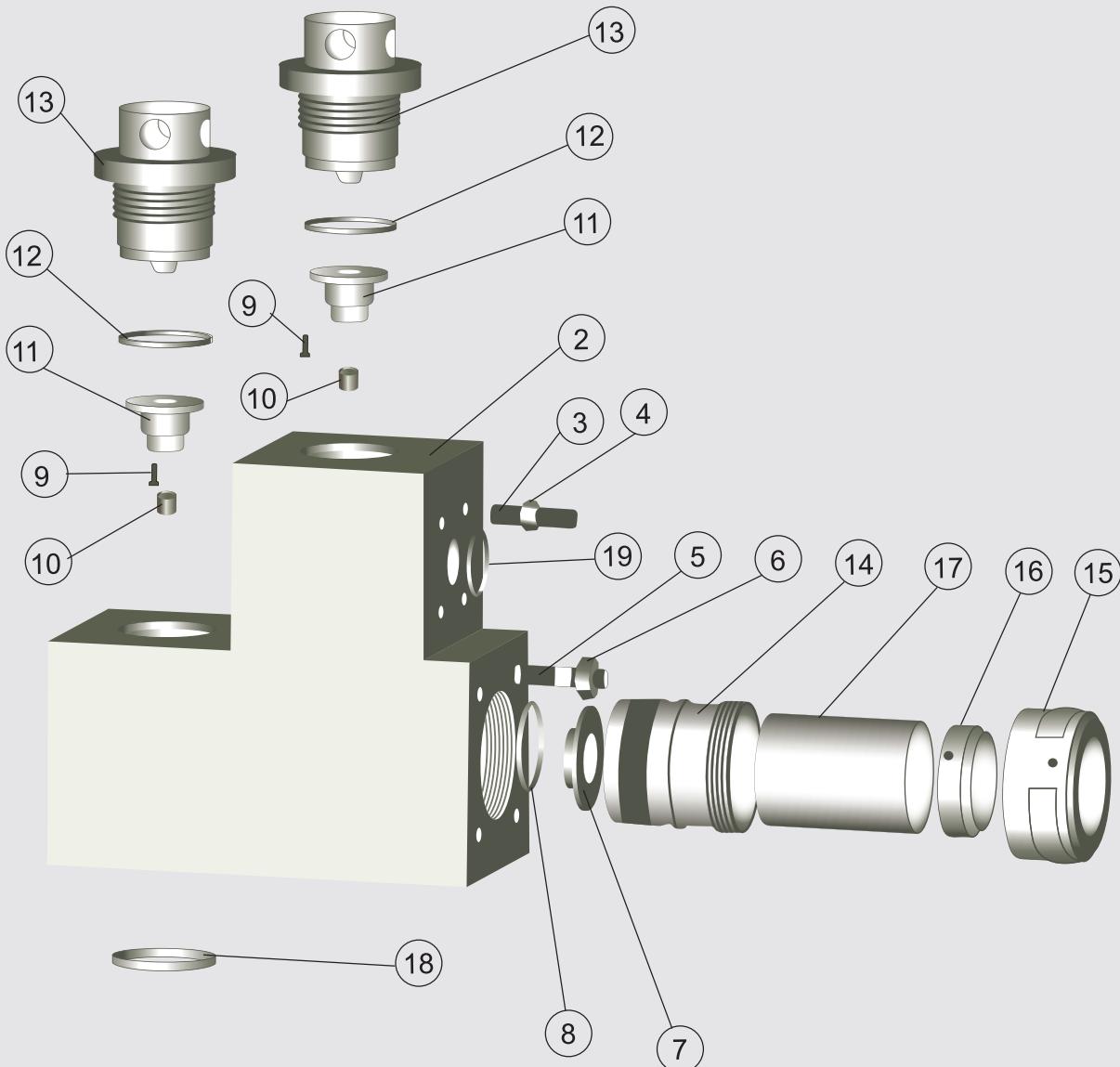
Item	Part No.	Description	Qty per Pump
1	MK-10-300-181	Discharge Module, Studded (Included Items 2 – 6)	(3)
2		Discharge Module, Only	3
3	MK-49-001-292	Stud – Discharge Manifold	12
4	MK-75-511-754	Nut – Discharge Manifold	12
5	MK-49-002-837	Stud – Frame	12
6	MK-75-510-126	Nut – Frame	12
7	MK-10-300-184	<sup>1</sup> 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	<sup>2</sup> Centering Sleeve – Liner (A850-PT, A1100-PT only)	3
	MK-10-300-186	<sup>2</sup> 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

<sup>1</sup>Offered in Plain Carbon or Stainless Steel



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

FLUID END MODULE  
AND ACCESSORIES





# FLUID END MODULE AND ACCESSORIES

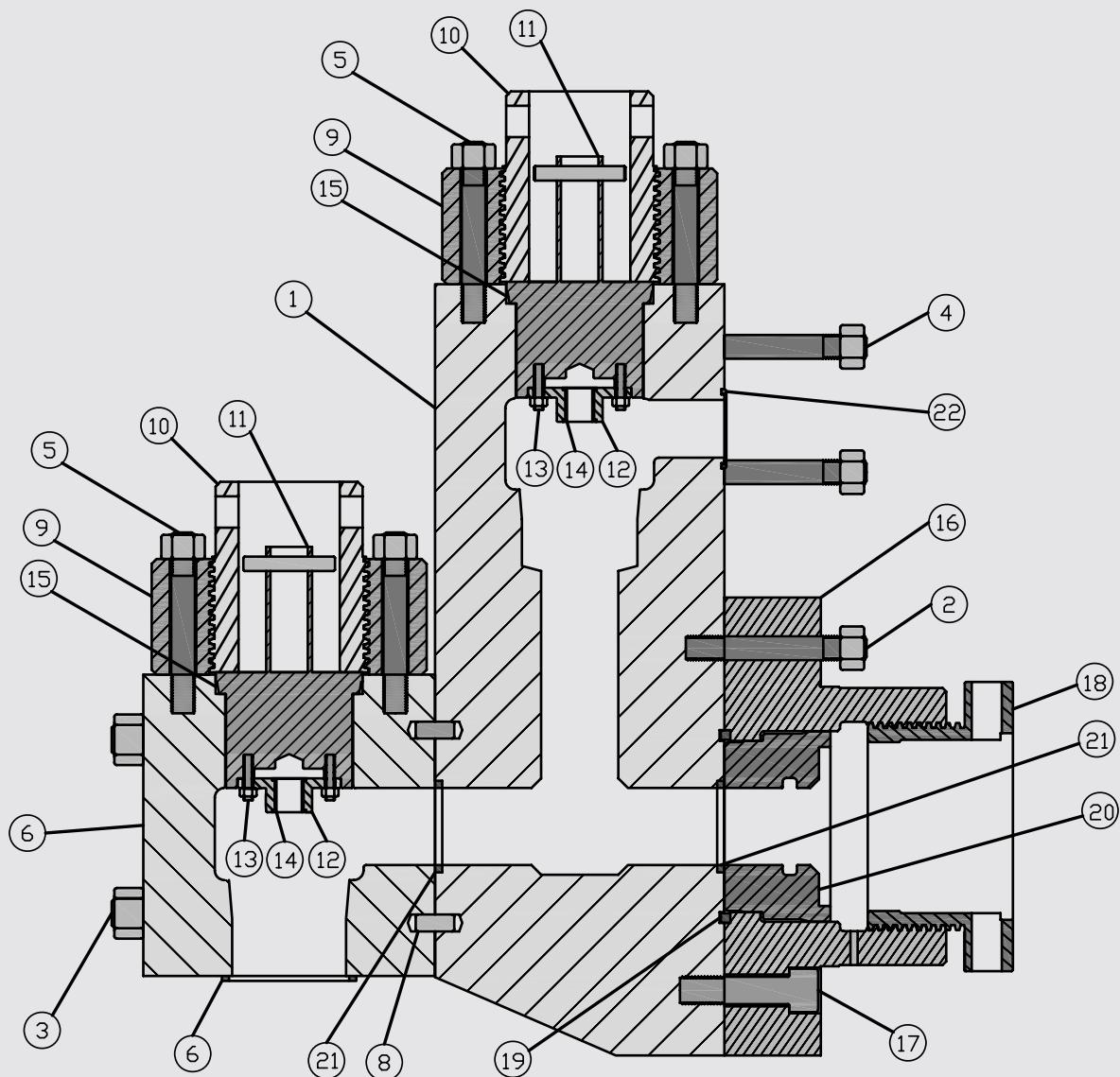
## “L” SHAPED FB-1300 & FB-1600

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	18
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



"L" Shaped  
FB-1300 FB-1600

FLUID END MODULE  
AND ACCESSORIES





# FLUID END MODULE AND ACCESSORIES

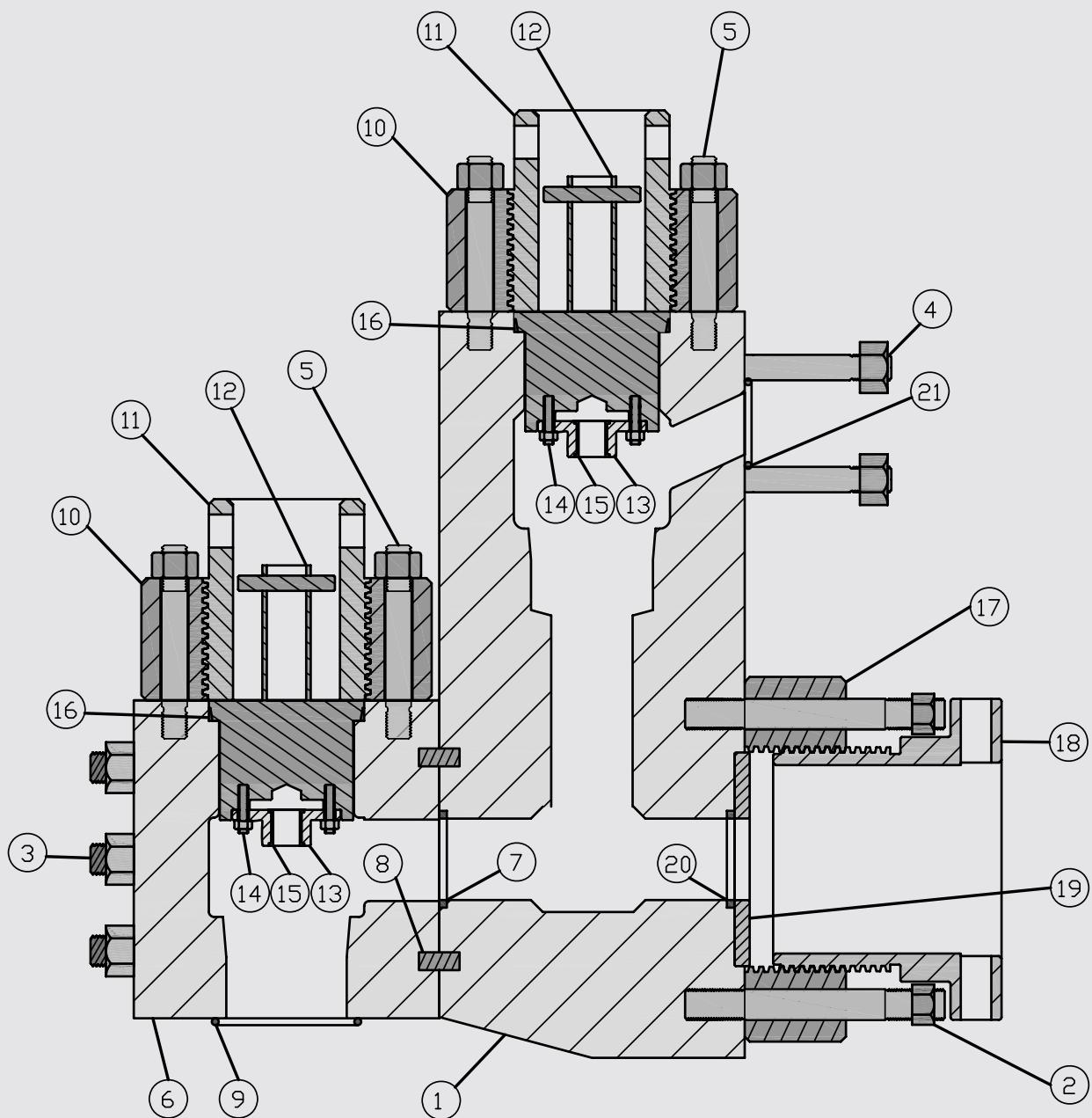
## “L” SHAPED T-1300 & T-1600

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



"L" Shaped  
T-1300 T-1600

FLUID END MODULE  
AND ACCESSORIES





# FLUID END MODULE AND ACCESSORIES

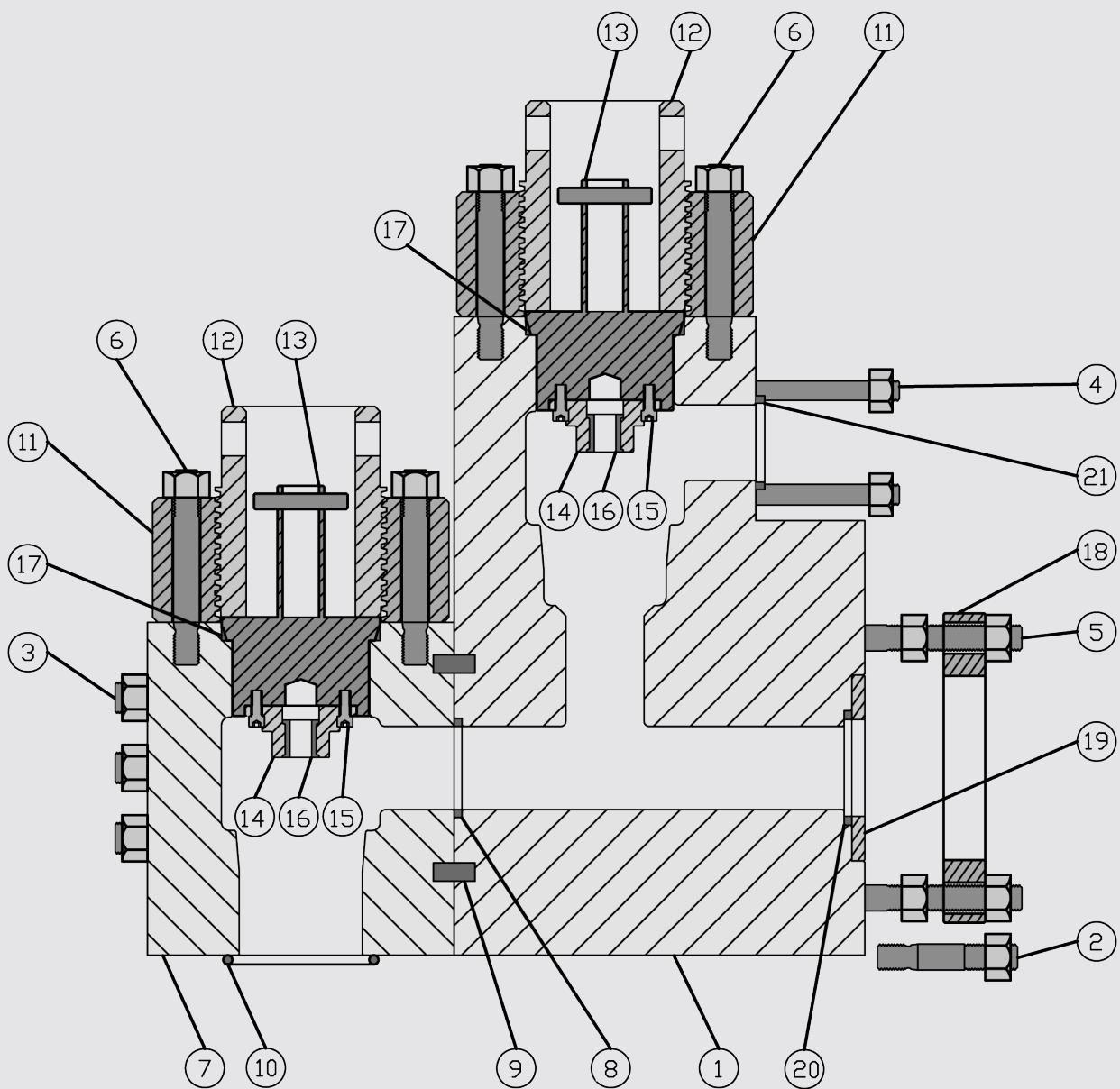
## “L” SHAPED PZ-10 & PZ-11

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





# FLUID END MODULE AND ACCESSORIES

## “L” SHAPED 10-P-130

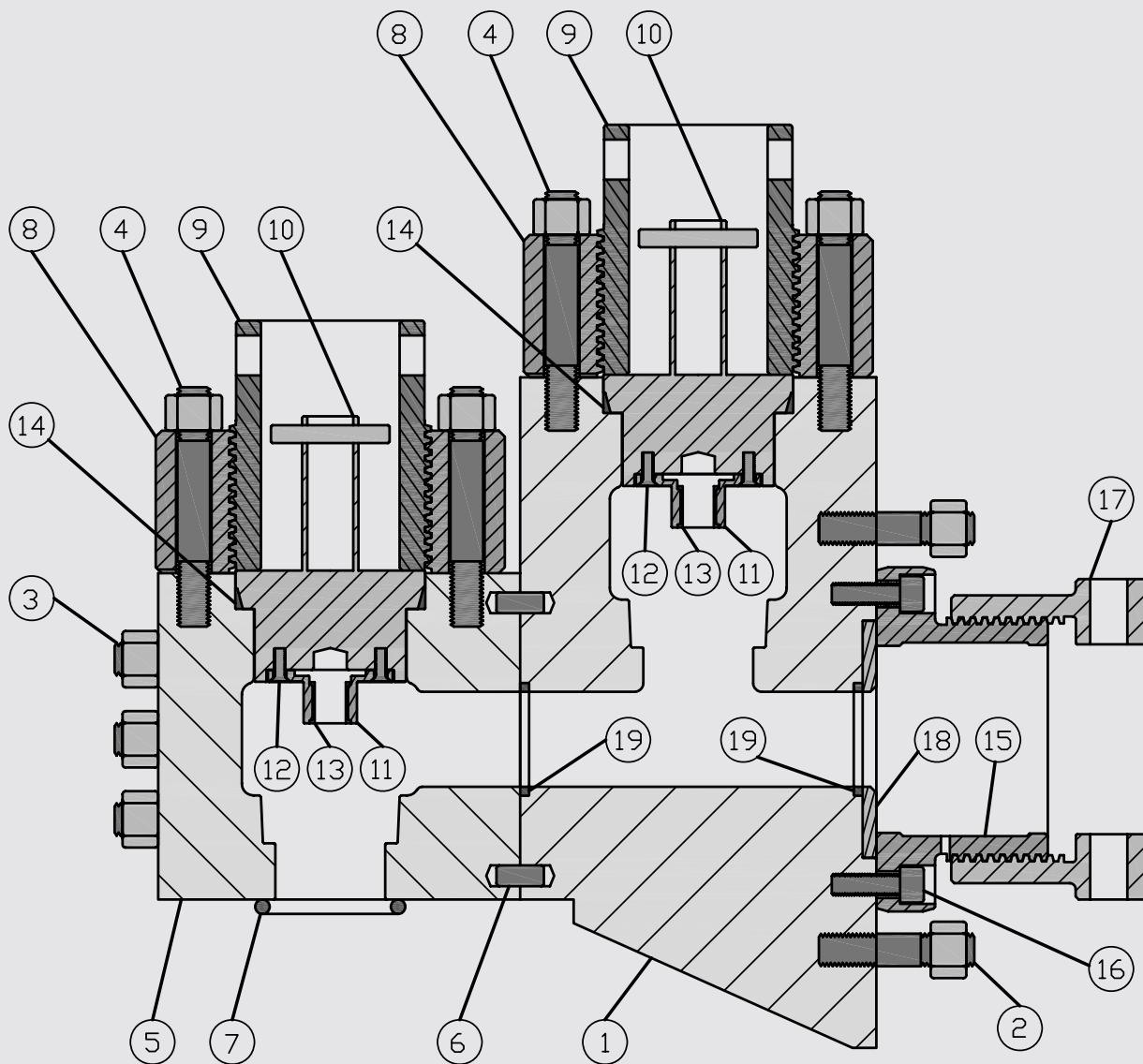
Item	Part No.	Description	Qty per Pump
	MK-8467-A	Complete Assembly	(3)
	MK-8467-1	Fluid Module, Discharge - Studded (included Items 1-4)	(3)
1		Fluid Module - Discharge	3
2	MK-4015-96	Stud w/Nut - Frame	30
3	MK-4017-1	Stud w/Nut - Suction Module	18
4	MK-4015-5	Stud w/Nut - Valve Cover	72
	MK-8467-2	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

**10-P-130**

FLUID END MODULE  
AND ACCESSORIES





# FLUID END MODULE AND ACCESSORIES

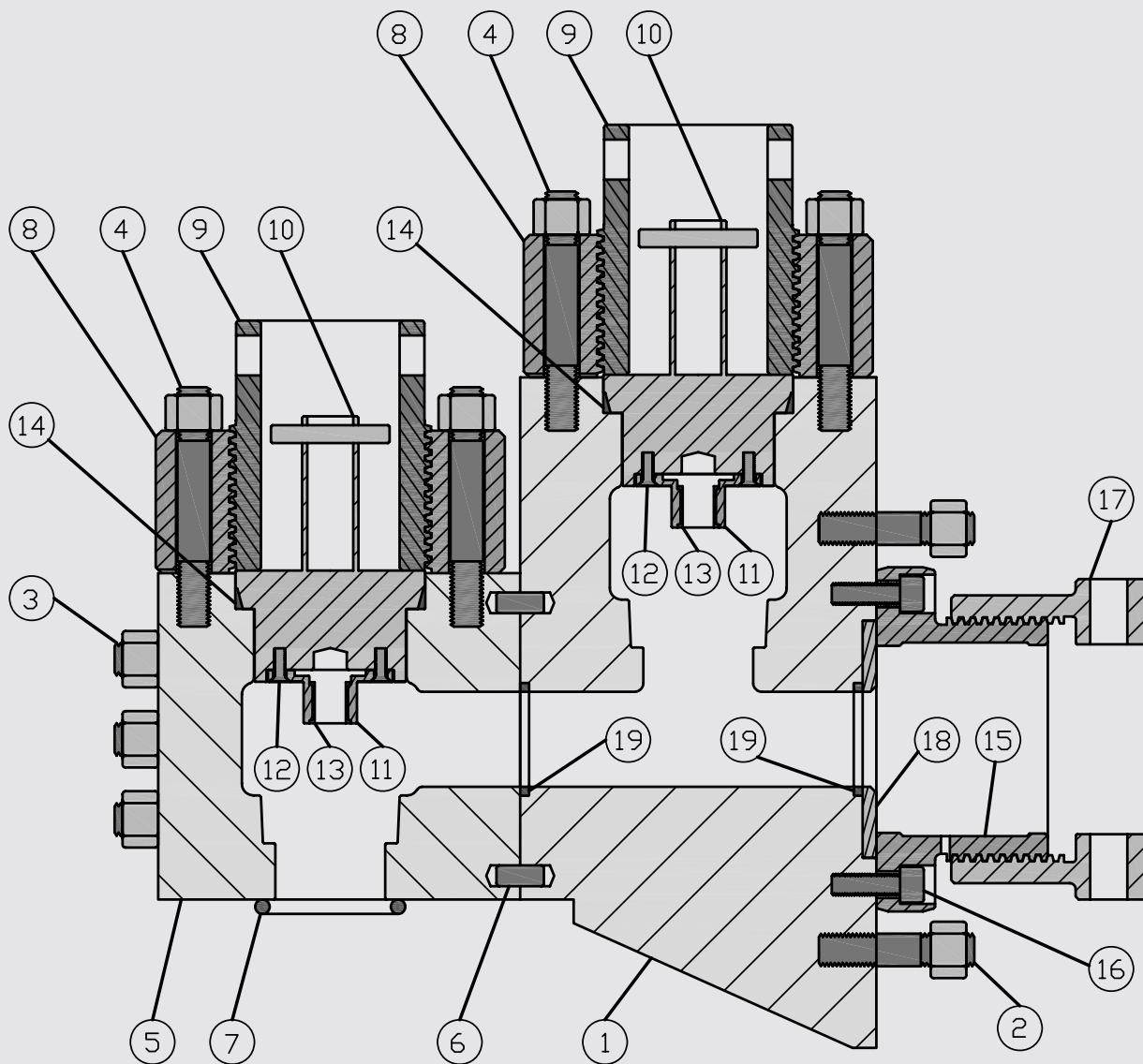
## “L” SHAPED 12-P-160 New Style

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





# FLUID END MODULE AND ACCESSORIES

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

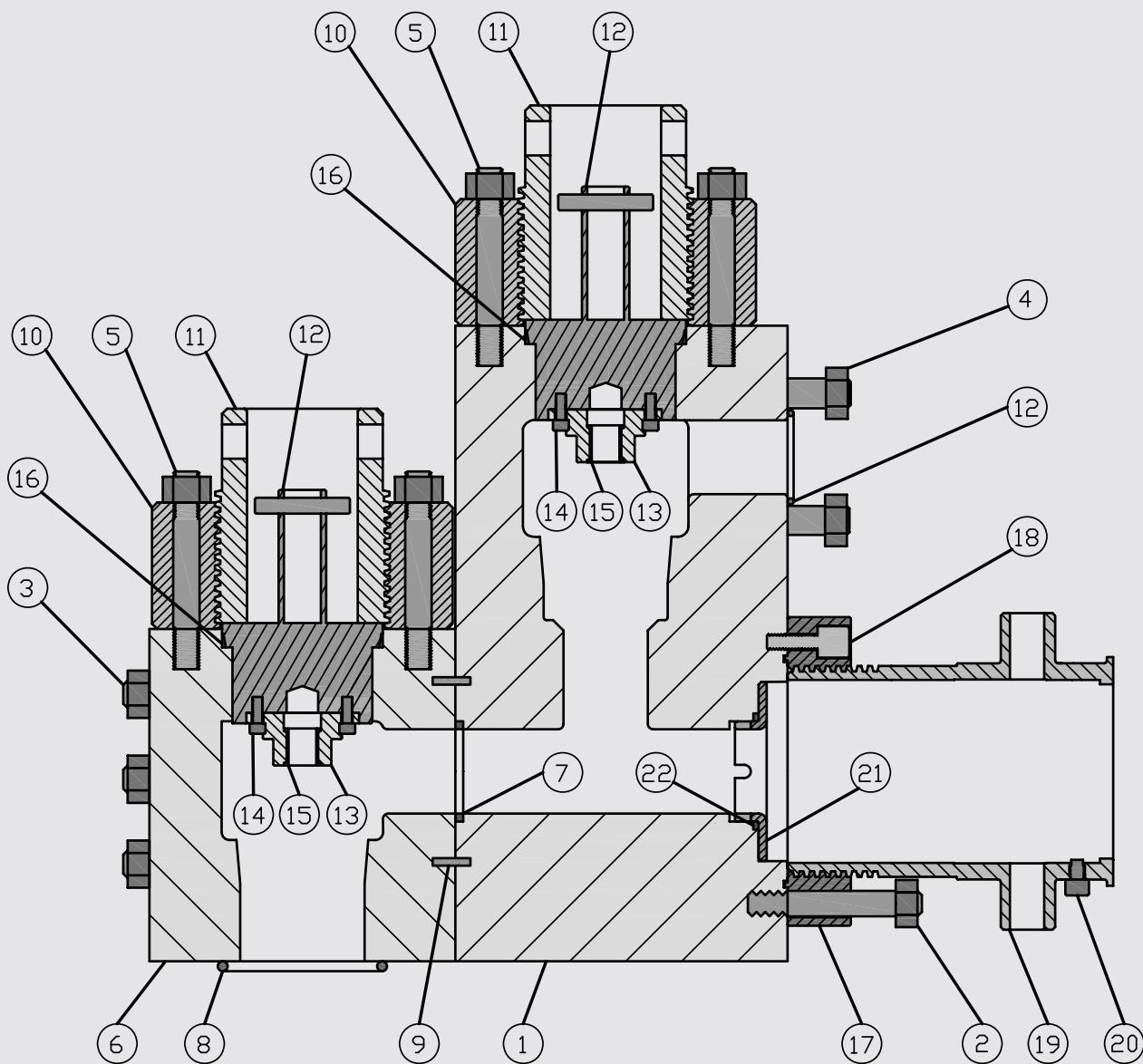
Item	Part No.	Description	Qty per Pump
	MK-8487-A	Complete Assembly (A-850-PT, A-1100-PT)	(3)
	MK-8488-1A	Complete Assembly (A-1400-PT, A-1700-PT)	(3)
	MK-8488-1	Fluid Module, Discharge - Studded (included items 1-5)	(3)
1		Fluid Module - Discharge	3
2	MK-4016-96	Stud w/Nut - Frame	12
3	MK-4016-97	Stud 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



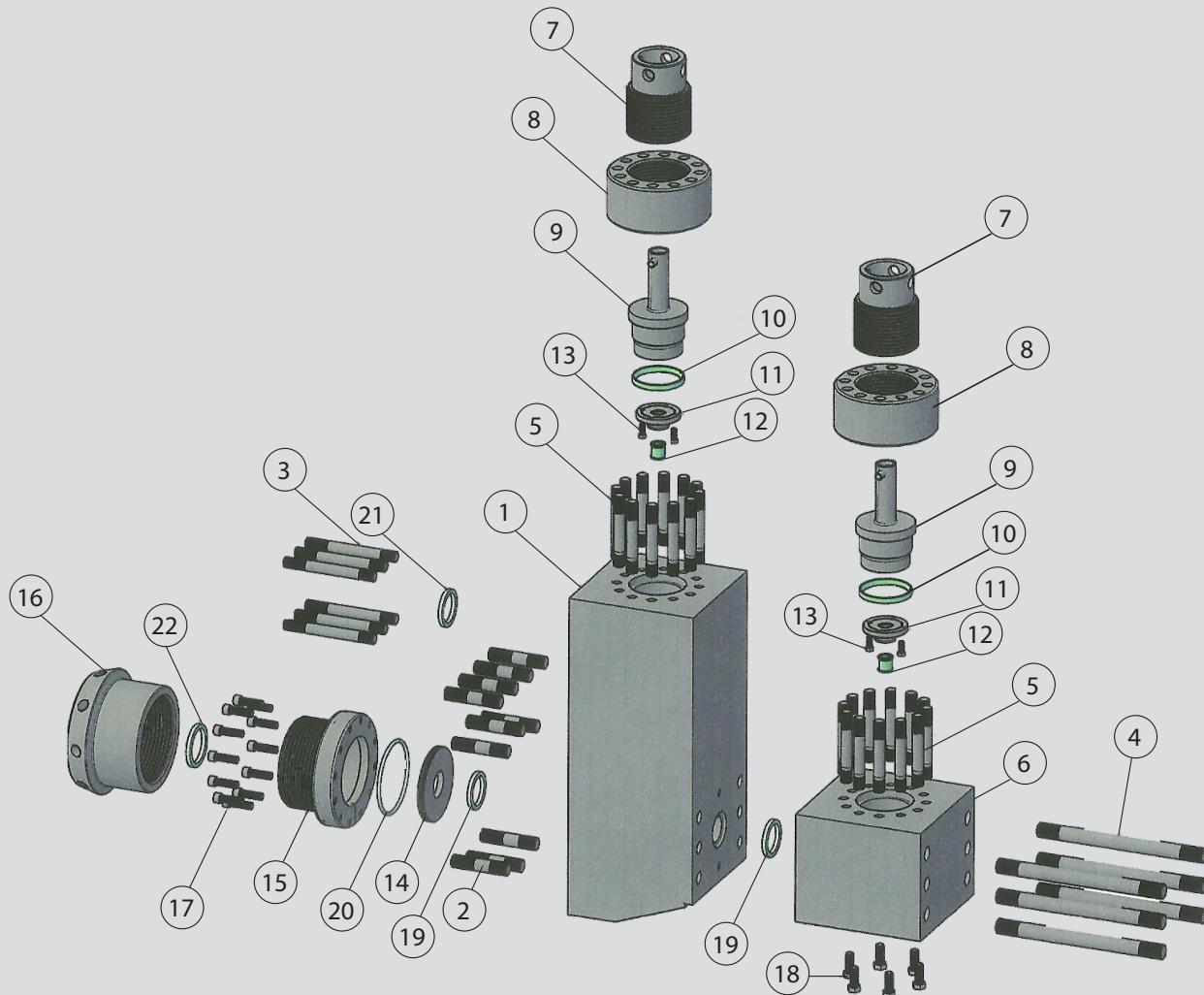
## SW STYLE BOMCO F-1600 7500 PSI

Item	Part No.	Description	Qty per Pump
	MK-8404-25A	Fluid End Assembly Complete	3
	MK-8404-27	Discharge Module - Studded (Includes Items 1-5)	
1	MK-8404-27U	Discharge Module	3
2	MK-4017-33	Power End Stud c/w Nut	30
3	MK-4019-60	Discharge Manifold Stud c/w Nut	18
4	MK-4019-61	Suction Module Stud c/w Nut	18
5	MK-4015-2	Valve Cover Stud c/w Nut	72
	MK-8404-26	Suction Module - Studded (Includes Items 5-6)	
6	MK-8404-26U	Suction Module	3
7	MK-4588-25	Screw Gland	6
8	MK-4488-25	Valve Cover Flange	6
	MK-4690-25A	Valve Cover Plug Assembly (Includes Items 9-13)	
9	MK-4690-25	Valve Cover Plug	6
10	MK-P115	Valve Cover Plug Seal	6
11	MK-4788-25	Valve Guide	6
12	MK-4700-I	Valve Guide Bushing	6
13	MK-4018-18	Valve Guide Screw	12
14	MK-8490-28	Liner Wear Plate	3
15	MK-6490-25	Liner Retainer Flange	3
16	MK-6590-25	Liner Retainer Nut	3
17	MK-4019-51	Liner Retainer Capscrew	36
18	MK-4018-19	Suction Manifold Capscrew	18
19	MK-2988	Module/Wear Plate Seal	6
20	MK-568-443	Wear Plate O-Ring	3
21	MK-2988	Discharge Manifold Seal	3
	NOT SHOWN		
	MK-6316020100	Suction Manifold	1
	MK-8376-25	Discharge Manifold	1



**SW STYLE**  
**BOMCO F-1600**  
**7500 PSI**

FLUID END MODULE  
AND ACCESSORIES





## MUD PUMP EXPENDABLES

### TRIPLEX FLUID END PARTS

#### SW Style Gardner Denver PZ-11 7500 PSI

Item	Part No.	Description	Qty per Pump
	MK-8477-25A	Fluid End Assembly Complete	3
	MK-8477-27	Discharge Module - Studded (Includes Items 1-6)	
1	MK-8477-27U	Discharge Module	3
2	MK-4019-46	Power End Stud c/w Nut	24
3	MK-4019-45	Discharge Manifold Stud c/w Nut	12
4	MK-4019-45	Liner Retainer Stud c/w Nut	24
5	MK-4019-44	Suction Module Stud c/w Nut	18
6	MK-4015-2	Valve Cover Stud c/w Nut	72
	MK-8477-26	Suction Module - Studded (Includes Items 6-7)	
7	MK-8477-26U	Suction Module	3
8	MK-4588-25	Screw Gland	6
9	MK-4488-25	Valve Cover Flange	6
	MK-4688-25A	Valve Cover Plug Assy (Includes Items 10-14)	
10	MK-4688-25	Valve Cover Plug	6
11	MK-P115	Valve Cover Plug Seal	6
12	MK-4788-25R	Valve Guide	6
13	MK-4700-I	Valve Guide Bushing	16
14	MK-4018-18	Valve Guide Screw	12
15	MK-6477-25	Liner Retainer Flange	3
16	MK-6577-25	Liner Retainer Nut	3
17	MK-8477-29	Alignment Ring	3
18	MK-8477-30	Liner Wearplate	3
19	MK-2988	Wearplate, Module, Discharge Manifold Seal	9
20	MK-4017-77	Suction Manifold Capscrew	24
		NOT SHOWN	
	MK-8577-25	Suction Manifold	1
	MK-8377-27	Discharge Manifold	1

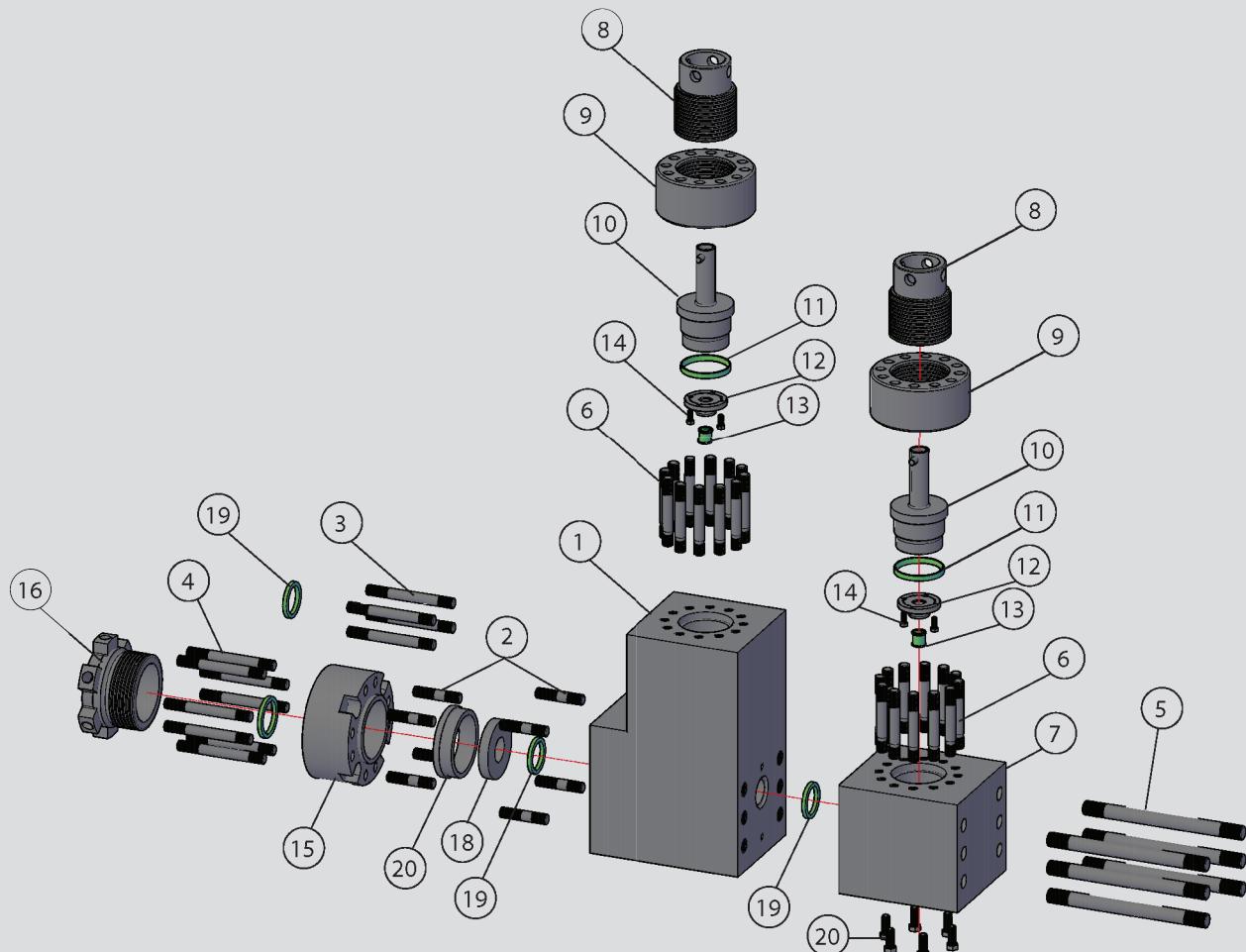


SW STYLE

GARDNER DENVER PZ-11

7500 PSI

FLUID END MODULE  
AND ACCESSORIES





# FLUID END MODULES

## AND ACCESSORIES

### SW STYLE

### NATIONAL 12-P-160 7500 PSI

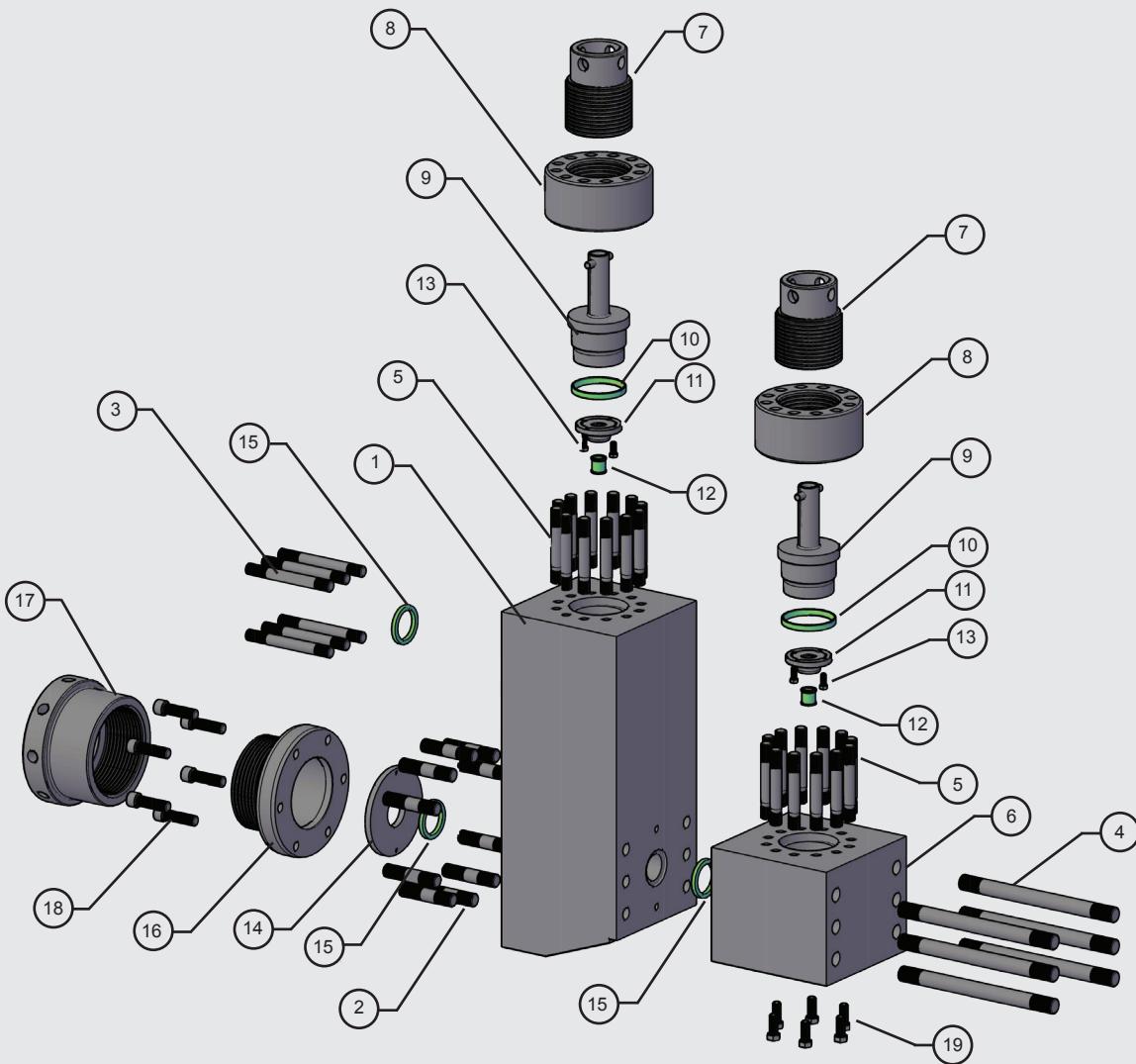
Item	Part No.	Description	Qty per Pump
	MK-8476-25A	Complete Fluid End Assembly	3
	MK-8476-27D	Discharge Module Studded	3
1	MK-8476-27U	Discharge Module Only	3
2	MK-4015-95	Stud w/Nut, Power Frame	30
3	MK-4019-60	Stud w/Nut, Discharge Manifold	18
4	MK-4019-54	Stud w/Nut, Suction to Discharge Module	18
5	MK-4015-2	Stud w/Nut, Valve Cover	72
	MK-8476-26S	Suction Module Studded	3
6	MK-8476-26U	Suction Module Only	3
7	MK-4588-25	Screw Gland	6
8	MK-4488-25	Valve Cover Flange	6
	MK-4690-25A	Valve Cover Plug Assembly	6
9	MK-4690-25	Valve Cover Plug	6
10	MK-P115	Valve Cover Plug Seal	6
11	MK-4788-25	Valve Guide	6
12	MK-4700-I	Valve Guide Bushing	6
13	MK-4018-18	Valve Guide Screw	12
14	MK-8476-3	Wear Plate	3
15	MK-2988	Seal, Wear Plate, Suction Module, & Discharge Manifold	9
16	MK-6476	Liner Retainer Flange	3
17	MK-6576	Liner Retainer Nut	3
18	MK-4017-65	Liner Retainer Cap Screw	18
19	MK-4018-19	Suction Manifold Cap Screw	24
*	MK-8576-50	Suction Manifold	1
*	MK-8376-25	Discharge Manifold	1

\*Not Shown



**SW STYLE  
NATIONAL 12P160  
7500 PSI**

FLUID END MODULE  
AND ACCESSORIES



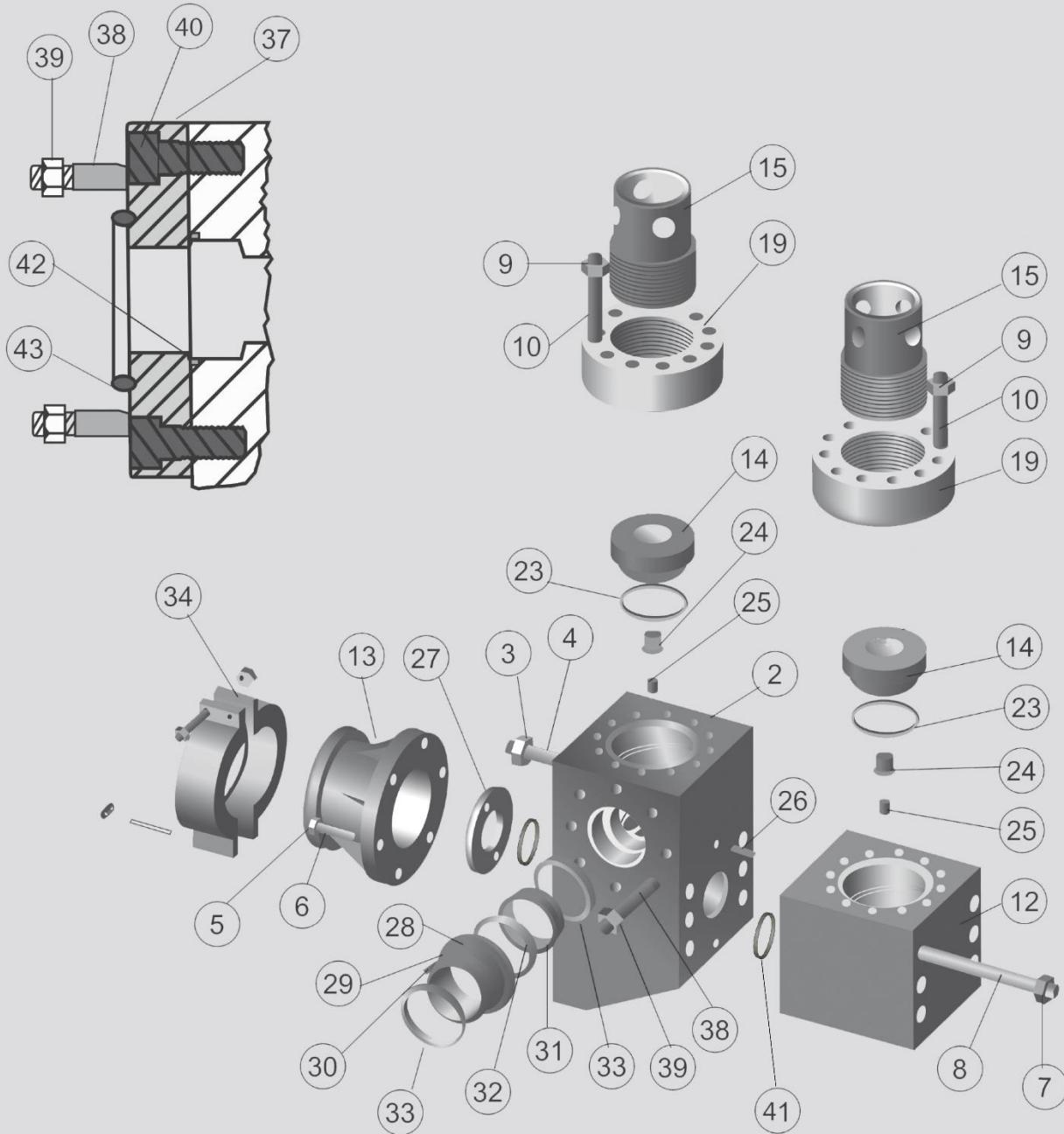


# FLUID END MODULE AND ACCESSORIES

## NATIONAL 14-P-220

Item	Part No.	Description	Qty per Pump
1	MK-1295601	Module Studded, Premium Discharge (Complete)	(3)
2	MK-1295600	Discharge Module Only	3
3	MK-6300240	Nut, Power Frame Stud	30
4	MK-2408027	Stud, Power Frame	30
5	MK-6300200	Nut, Liner Bushing Stud	18
6	MK-2408047	Stud, Liner Bushing	18
7	MK-6300320	Nut, Suction to Discharge Module Stud	18
8	MK-2408048	Stud, Suction to Discharge Module	18
9	MK-6300240	Nut, Valve Cover Stud	84
10	MK-2408049	Stud, Valve Cover	84
11	MK-1295604	Module Studded, Premium Suction (Complete)	(3)
12	MK-1295603	Suction Module Only	3
13	MK-1295165	Bushing, Liner	3
14	MK-1295174	Retainer, Seal	6
15	MK-1295172	Cover, Valve	6
19	MK-1295176	Ring, Threaded	6
23	MK-1540163	Seal	6
24	MK-1292140	Holder, Valve Guide Insert	6
25	MK-1292141	Insert, Valve Guide	6
26	MK-6511416	Pin, 7/8 x 2" Dowel	6
27	MK-1295266	Plate, Wear	3
28	MK-1295252	Connector, Discharge	2
29	MK-7000307-11	Screw, Hex Head	16
30	MK-7619050	Washer, Lock	16
31	MK-1295253	Adapter, Discharge Connector	2
32	MK-2410031-438	Seal, Discharge Connector to Discharge Adapter	2
33	MK-2410031-440	Seal, Discharge Connector & Discharge Adapter	4
34	MK-1295166	Clamp, Liner	3
35	MK-1540021 *	Seal, Suction Manifold	3
36	MK-7000485-11 *	Cap Screw, Suction Manifold	24
37	MK-1295246	Spacer, Discharge	2
38	MK-2408014	Stud, Discharge Flange	12
39	MK-6300180	Nut, Discharge Flange Stud	12
40	MK-7006609	Cap Screw, Discharge Spacer Flange	24
41	MK-1295257	Seal, Wear Plate & Suction Module	6
42	MK-1295258	Seal, Discharge Spacer	2
43	MK-6907339-S	Ring, Oval Joint	2

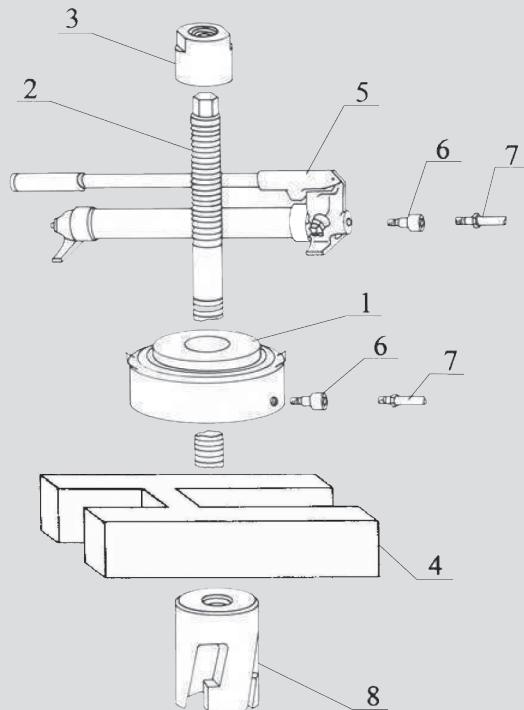
\* Not Shown.



## HYDRAULIC VALVE SEAT PULLER PARTS & OPERATING INSTRUCTIONS

- 1 Insert head into pot and lock into seat. Screw stem into head.
- 2 Place H bar over stem and center over pot bore. Place jack over stem and on H bar.
- 3 Tighten stem nut onto stem until all slack is removed. The jack may be strapped down to eliminate jumping action when seat breaks loose.
- 4 Attach hose to pump and jack then pump handle until seat breaks loose.

Manual Pump(5) Max 10,000 PSI  
Hydraulic Jack(1) 170 ton



No.	Part Number	Description
	MK-1700	Valve Seat Puller Assembly complete w/ metal case
1	MK-1701	Hydraulic Jack
	MK-1717	Hydraulic Jack Seal Repair Kit
2	MK-1702	Center Stem
3	MK-1703	Center Stem Nut
4	MK-1704	Puller H Bar
5	MK-1708	Hydraulic Pump
	MK-1718	Hydraulic Pump Repair Kit
6	MK-1713	Gauge Coupler
7	MK-1707	Hydraulic Hose



## **Pulsation Dampeners and Strainer Blocks**



	<b>Bottom Connection</b>	<b>Capacity</b>	<b>Max Pressure</b>	<b>WT</b>
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

<b>CA122 Liner Wash Pump</b>	
<b>Part Number</b>	<b>Description</b>
MK-CA122	CA122 Liner Wash Pump

