



MUD PUMP EXPANDABLES

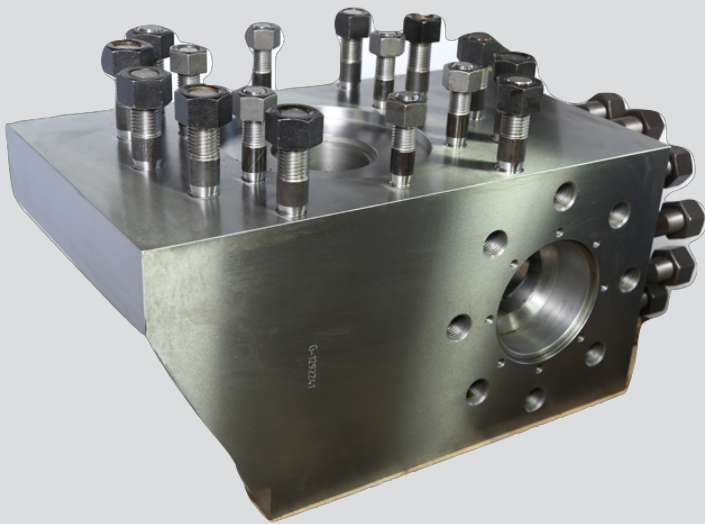
- 5000 PSI FLUID ENDS
- 7500 PSI FLUID ENDS
- LINERS
- VALVES AND SEATS
- PISTON RODS / EXTENSION RODS
- PISTONS
- PACKING AND GASKETS FOR TRIPLEX AND DUPLEX PUMPS

**ALL OF OUR PRODUCTS ARE FULLY
EXCHANGEABLE WITH O.E.M. STANDARDS.**

Mud Pump Expandables

5000 PSI FLUID ENDS

5000 psi fluid end modules are made from 4135 alloy steel, heated and forged for a high mechanical performance and a long working life, rated for all drilling operations up to 5,000psi, machined on CNC machine tools, strictly inspected by the technician with supersonic detecting and other instruments, and packaged for delivery with anti-corrosion protection.



Available 5000 P.S.I. Models include:

BOMCO® F1600
EMSCO® FB1600,F800/1000,F500
GARDNER DENVER® PZ11,PZ8, PZ9 ,
PAH
NATIONAL®
14P220,12P160,10P130,9P100,8P80,
JWS340
OILWELL® A1700PT
IDECO® T1300/1600, T800/1000
SKYTOP BREWSTER® B1300T
ELLIS WILLIAMS® W446,W440
LANSHI® 3NB1300C
TULSA® TT660

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7500 PSI FLUIDS ENDS

GPM 7500 psi fluid end modules are made from heat-treated 8630 forging steel.

Available 7500 P.S.I. Models include:

BOMCO® F1600

EMSCO® FB1600

GARDNER DENVER® PZ11,PXL,PZL

HH F1600®

NATIONAL® 12P160



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Ceramic/Zirconia Liner

GPM ceramic liners are designed to use in harsh environments. Liner sleeve made from ceramic/zirconia material extends the service life than regular steel liners. With this unique material, service life can reach more than 4000 hours. This results in less oil rig downtime and offers more efficient budget cost per operating hour, also reduces piston wear and water consumption for lubrication.



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High Chrome Sleeve / Double Metallic Liner

GPM metallic liner sleeves are structured with maximum amount of chrome for the base metal, inserted into the forged steel hull at full tension.

The bore hardness is 60 to 67 Rockwell C scales, while the hull has a higher tensile strength of more than 90,000 psi, liners with these high quality characteristic can withstand mud pressure up to 7,000 psi and rated to match the pressure rating of the pump per liner size with more than 800 hours of working life under normal environment.



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File Hard Liner

GPM File Hard Steel liner is made from premium forged steel where the bore is carbonized and quenched. The file hard liner is hardened and heat treated under strict quality control to 62 Rockwell C hardness, offering excellent tolerance to assure easy installation and long life.



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Valves and Seats

Full Open roughneck style valve is designed for maximum flow characteristics. GPM full open drilling valves combine the strength of a forged alloy steel upper body with precision casting to minimize flow restriction and fluid turbulence.

The forged, solid valve body construction, of this valve, with thick, rigid seat, provides durability at high pressures.

The single piece, solid body construction of this valve provides the strength and rigidity needed for high pressure drilling operations in the 5,000 to 7,500 psi (34.5 to 51.7MPa) range

The snap on, polyurethane insert on standard replaceable. A non-replaceable bonded insert upgrade is available. Various insert styles and materials are available to suit any drilling condition.

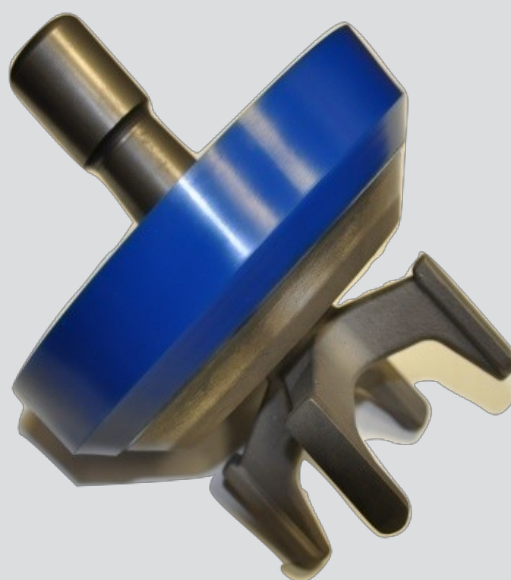
Standard polyurethane inserts are good for 170° to 180°F (77° to 82°C) drilling temperatures. The high temperature is specified for all drilling operations up to and exceeding 300°F/7500psi, suitable for water or oil-based muds. Shelf life of polyurethane insert is 5 years.

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Webbed Valve and Seats



Bonded and Replaceable Full-Open Valve and Seat



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Piston Rods/Extension Rods

GPM supplies piston, extension, sub rods for both triplex and duplex mud pumps. Parts are made from premium grade alloy steel, heat treated with high tensile and yield strength.

The extension rods (pony rods) are chrome plated and polished on the wear surface to improve the seal on the mud pump gear end



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7Urethane "Bullnose" Piston

“Bullnose” Piston is designed to perform in the harshest of drilling conditions, with following features.

Designed for High Temperature and Pressure Service (325°F/ 7500psi)

Suitable for oil, synthetic or water based mud

excellent chemical and abrasion resistance in the most demanding well conditions

Enhanced piston running life with a proprietary blend of lubricating agents

Reduced operating costs in challenging operating environments



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Duplex Rubber Replacable Piston

Replacement Piston Rubbers are made with tough and durable Buna N rubber for all pressures and are ideally suited for either oil-base or water-base mud. A special processing of the fabric provides an unusual waterproof bond of fabric to piston which assures longer life. These high tensile strength pistons will be rated for all drilling operations.



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Triplex Rubber Replacable Piston

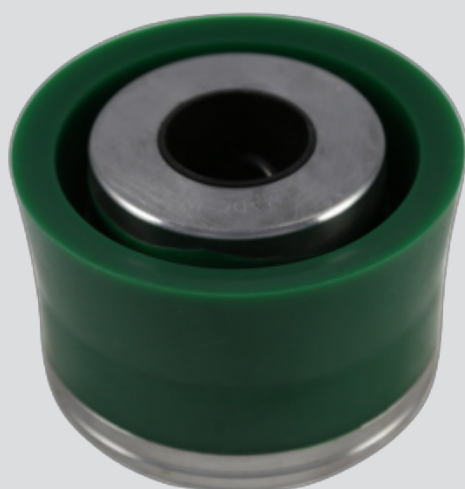
Replacement Piston Rubbers are made with tough and durable Buna N rubber for all pressures and are ideally suited for either oil-base or water-base mud. A special processing of the fabric provides an unusual waterproof bond of fabric to piston which assures longer life. These high tensile strength pistons will be rated for all drilling operations.



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Urethane Bonded Piston (Green Duo)

Green Duo Urethane Bonded Piston is constructed of oil-resistant polyurethane bonded to a solid metal hub. As fluid pressure increases, the urethane surface of the piston expands against the liner to complete the seal, even in the enlarged diameter of a worn liner bore. The Green Duo Urethane Bonded Piston offers a longer service life than replacement rubber pistons



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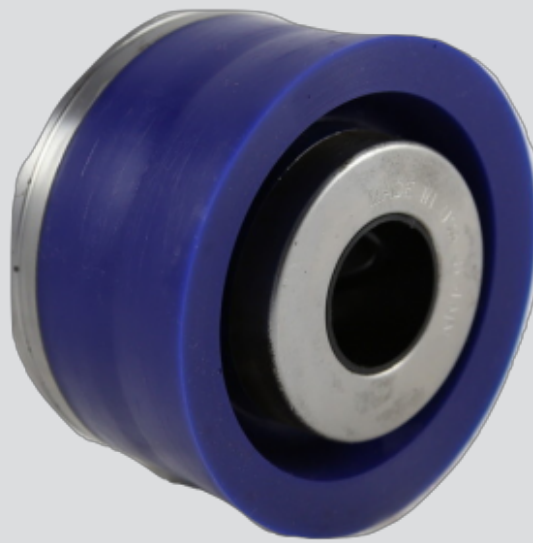
Urethane Bonded Piston (High Temp.)

Designed to perform in the harshest of drilling conditions. It is compatible with all applications and mud types and will withstand operating temperature from 20F to 350F with pressures up to 7500 psi.

Proven, reliable performance in every piston

Resistance to high pressures, abrasion and heat and extrusion

Multi-durometer bonded urethane allows for longer piston life



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Rubber Bonded Piston

Designed and manufactured to handle the tough assignments encountered during land and offshore drilling operations. A special processing of the fabric eliminates leakage points and resistance to abrasion.

Performs Best in the water-based mud
Excellent Chemical and Abrasion Resistance



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Packing and Gaskets for Triplex and Duplex Pumps

JCS Group offers a wide range of regular and high temperature gaskets and packing materials for use in drilling pumps. Gaskets are made of various elastomers and rubbers depending on the application.



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FLUID END MODULE AND ACCESSORIES

EMSCO

F-350, F-500 & F-650

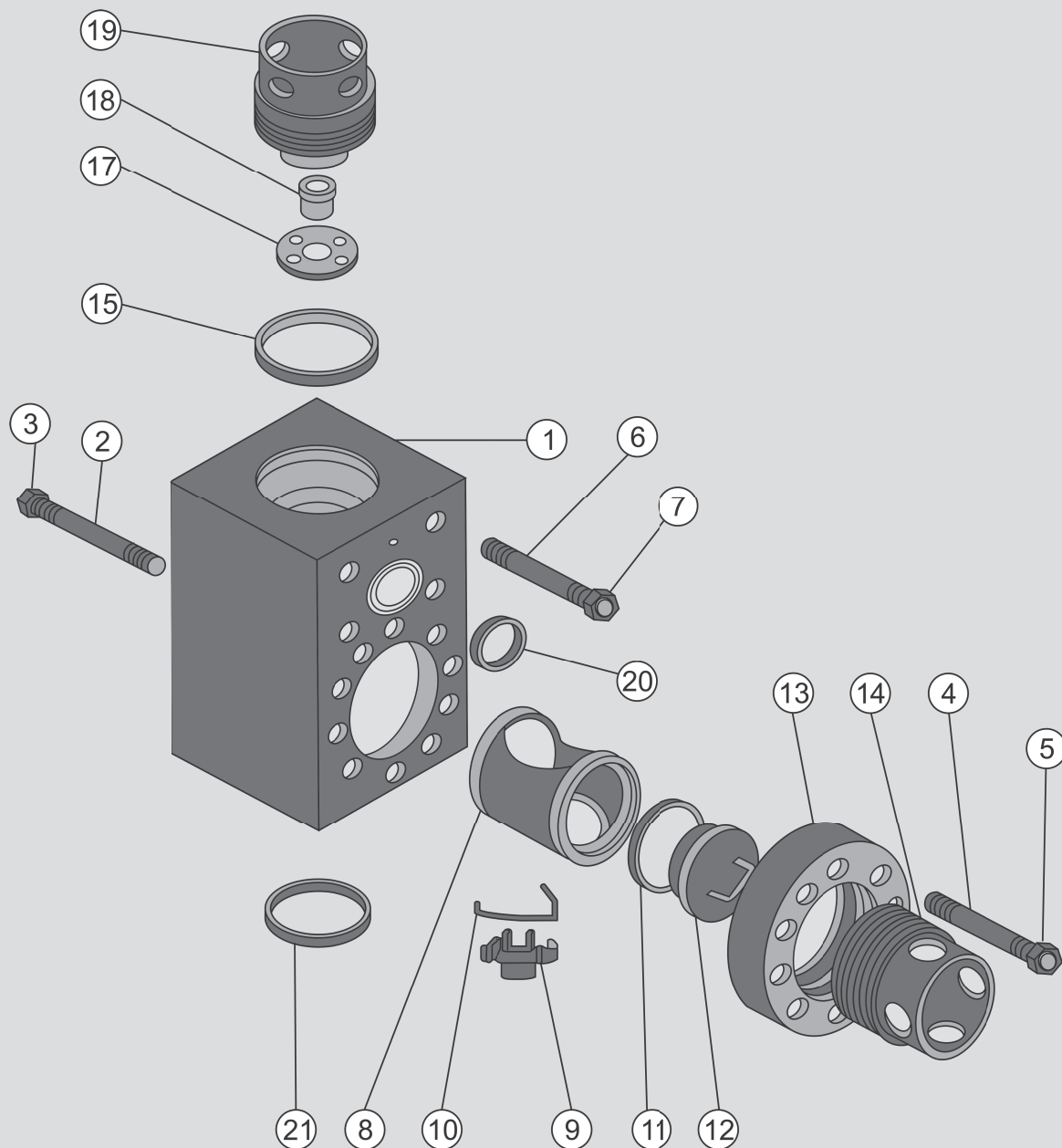
Item	Part No.	Description	Qty per Pump
	6318-0151-00	Fluid Module, Studded (Included Items 2 – 7)	(3)
1		Fluid Module, Only	3
2	7507-2207-00	Stud – Frame	18
3	7601-0630-17	Nut – Frame	18
4	7507-3402-00	Stud – Threaded Ring	36
5	7601-0630-26	Nut – Threaded Ring	36
6	7507-3407-00	Stud – Discharge Manifold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

* Not shown

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F-350 F-500 F-650

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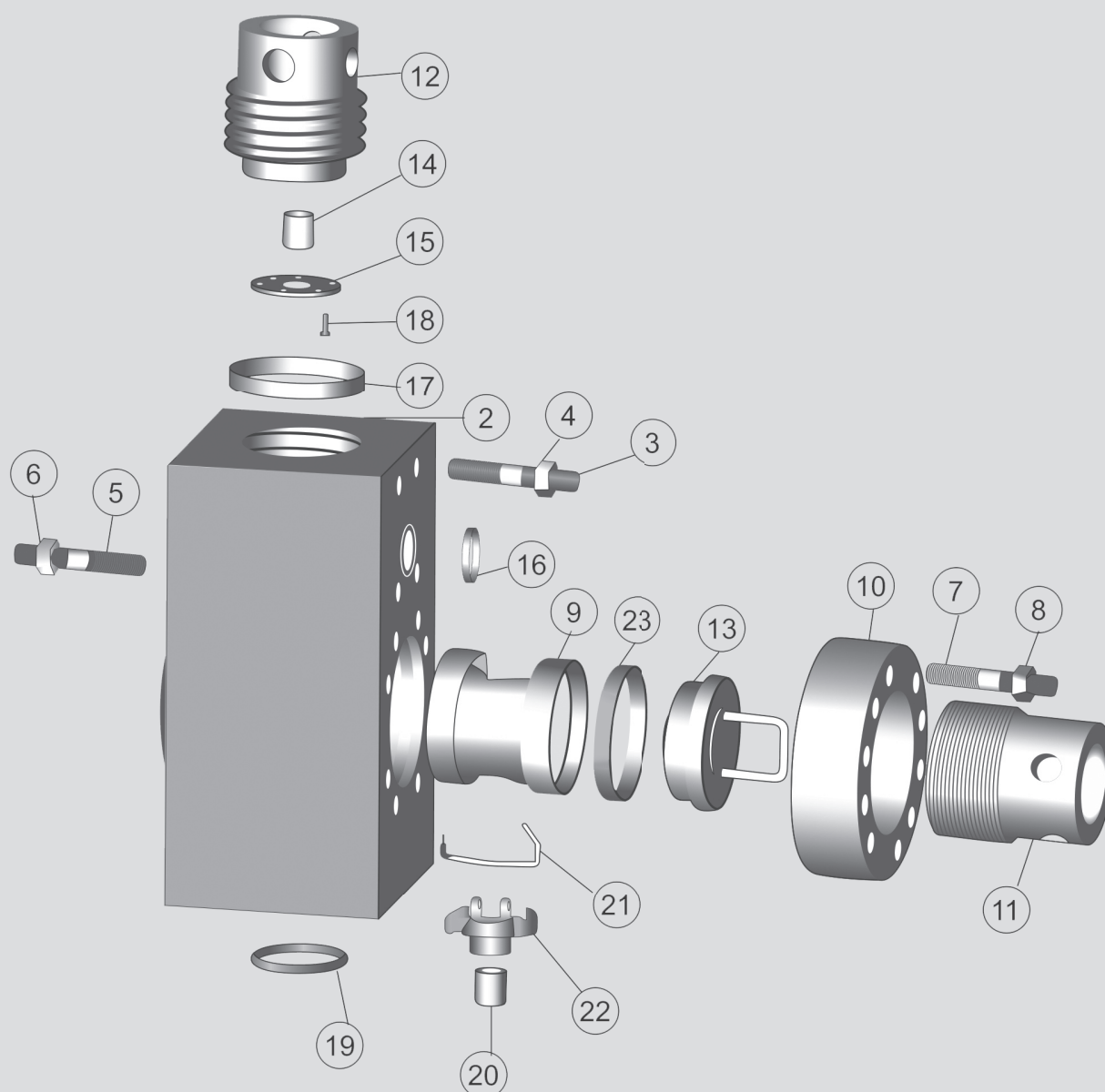
EMSCO F-800 & F-1000

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

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F-800 F-1000

FLUID END MODULE
AND ACCESSORIES



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EMSCO

FB – 1300 & FB – 1600

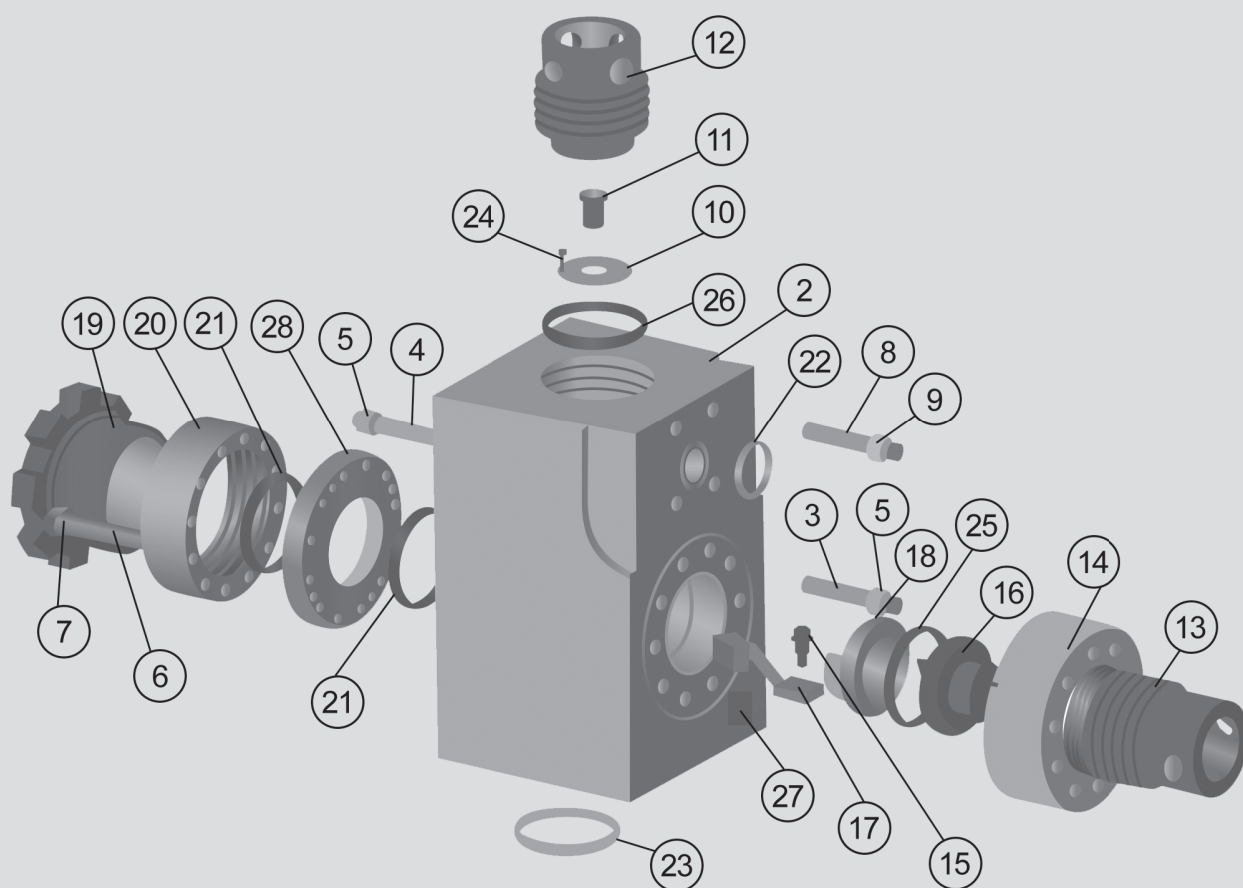
Item	EMSCO Style Part No.	Description	Qty per Pump
1	6316-0357-00	Fluid Module, Studded (Included Items 2 – 9)	(3)
2	6316-0356-00	Fluid Module, Only	3
3	7507-2210-00	Stud – Threaded Ring	30
4	7507-2201-00	Stud – Frame	18
5	7601-0630-17	Nut – Frame, Threaded Ring	48
6	7507-2013-00	Stud – Liner Thread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

¹Offered in Plain Carbon or Stainless Steel

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FB-1300 FB-1600

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BOMCO

F – 1300 & F – 1600

Item	BOMCO Style Part No.	Description	Qty per Pump
1	AH36002-05-01-00	Fluid Module, Studded (Included Items 2 – 9)	(3)
2	AH36002-05-01-00U	Fluid Module, Only	3
3	7507-2210-00	Stud – Threaded Ring	30
4	7507-2201-00	Stud – Frame	18
5	7601-0630-17	Nut – Frame, Threaded Ring	48
6	7507-2013-00	Stud – Liner Thread Ring	36
7	7601-0610-18	Nut – Liner Thread Ring	36
8	7507-2108-00	Stud – Discharge Manifold	12
9	7601-0630-24	Nut – Discharge Manifold	12
10	6397-0603-00	Retainer Plate	3
11	6397-0575-00	Upper Valve Guide	3
12	6316-0039-00	Valve Cover	3
13	6316-0362-00	Cylinder Head	3
14	6316-0361-00	Cylinder Threaded Ring	3
15	AH36001-05A.04	Lower Valve Guide Retainer	3
16	AH36001-05A.06.00	Cylinder Head Plug	3
17	AH36001-05A.05	Lower Valve Guide with Bushing	3
18	AH36001-05A.07	Alignment Ring	3
19	6316-0367-00	Liner Lock	3
20	6316-0366-00	Liner Threaded Ring	3
21	6316-0373-00	Seal – Wear Plate, Liner	3
22	7602-1600-25	Seal – Discharge Manifold	3
23	7602-1600-61	Seal – Suction Manifold	3
24	7501-0051-00	Retainer Bolt	12
25	6316-0369-00	Seal – Cylinder Head Plug	3
26	6316-0092-00	Seal – Valve Pot Cover	3
27	6316-0096-00 *	Valve Guide Bushing	3
28	6316-0365-00	¹ Wear Plate	3
29	AH36002-01	Frame Stud c/w 2 nuts	12
30	AH36002-02	Frame Stud c/w 1 nut	12

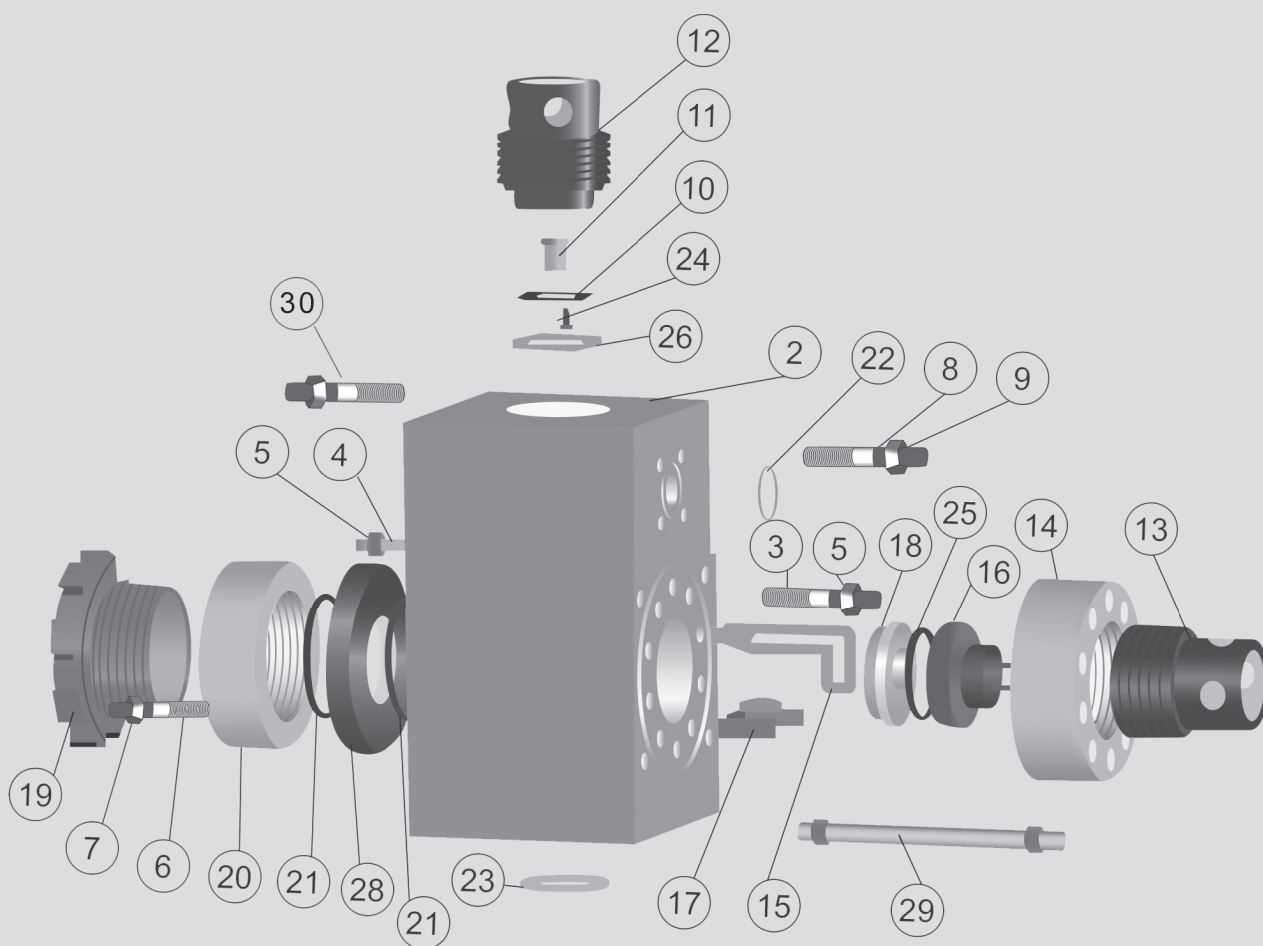
¹Offered in Plain Carbon or Stainless Steel

* Not shown

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BOMCO F-1300 F-1600

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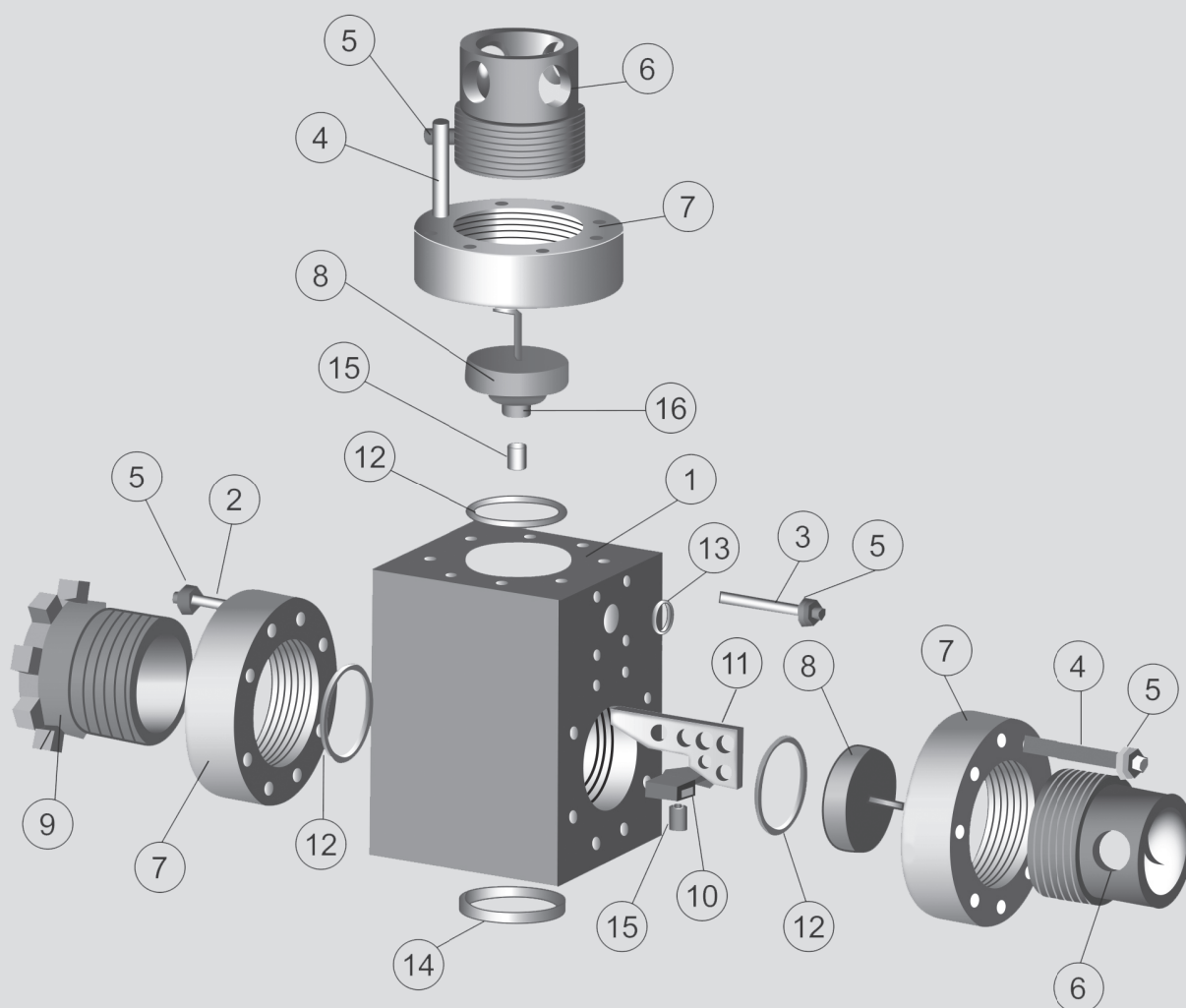
IDECO T-500, T-800 & T-1000

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

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T-500 T-800 T-1000

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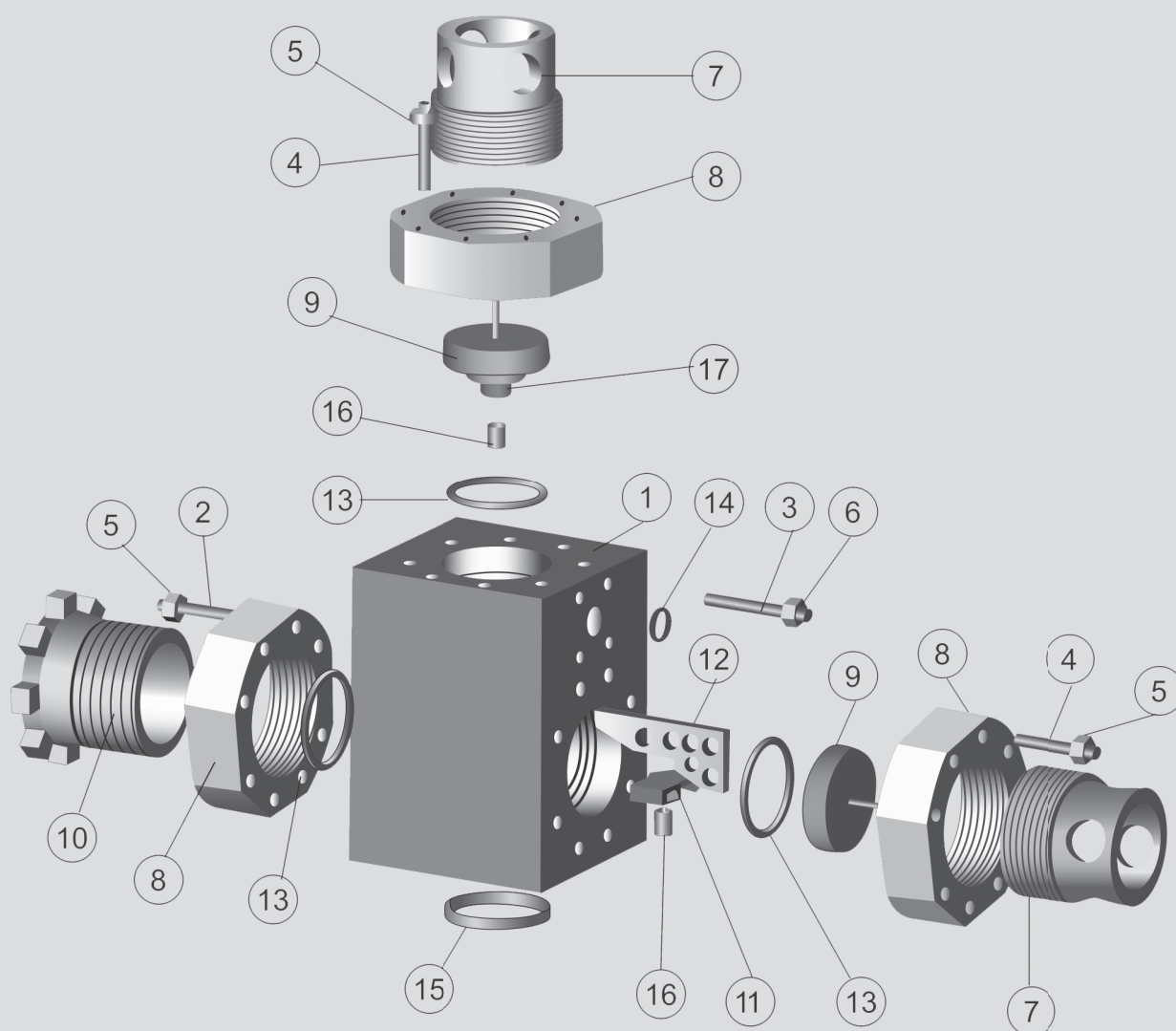
IDECO T-1300 & T-1600

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

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T-1300 T-1600

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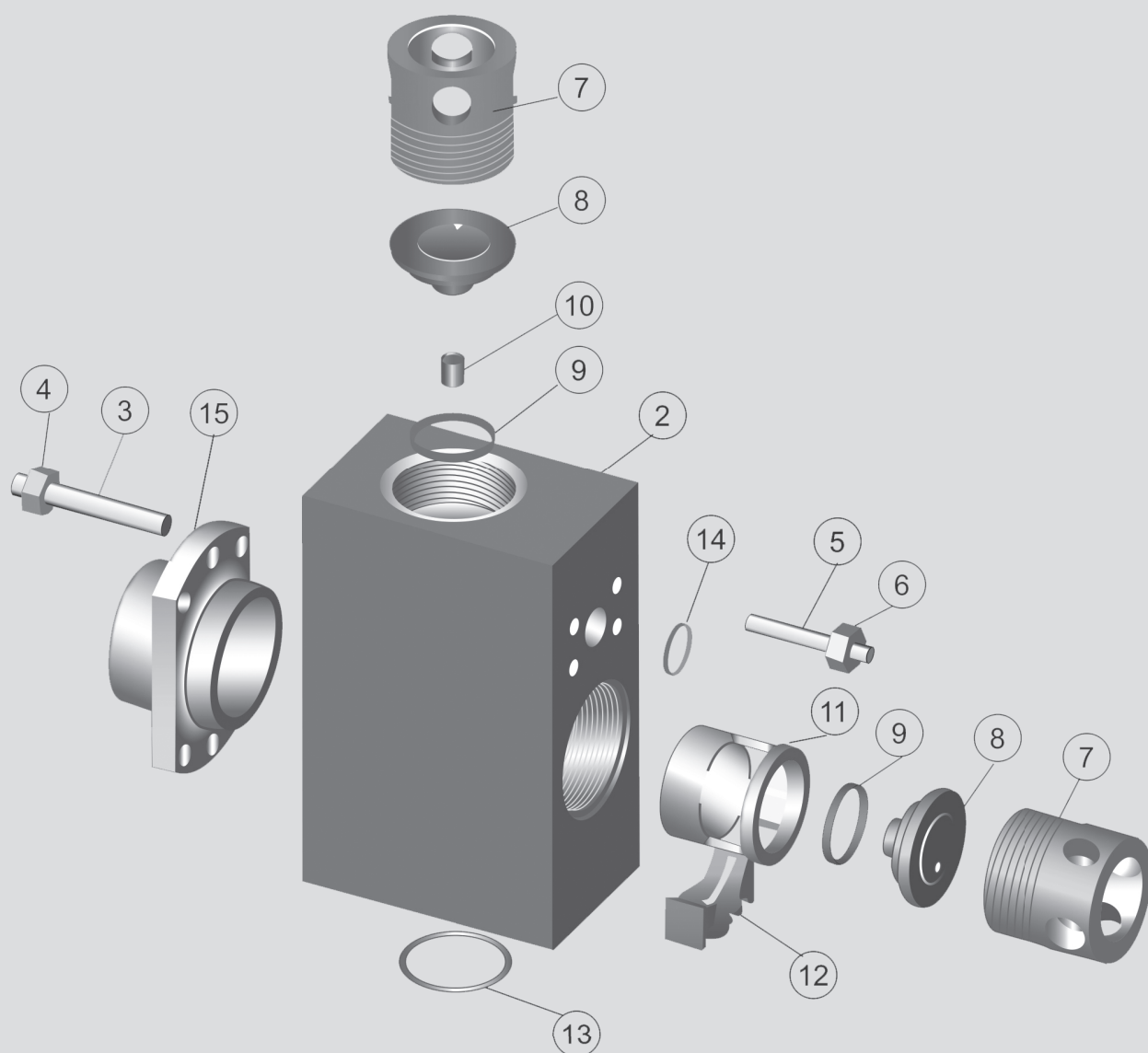
GARDNER DENVER PAH (All Models)

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

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PAH (All Models)

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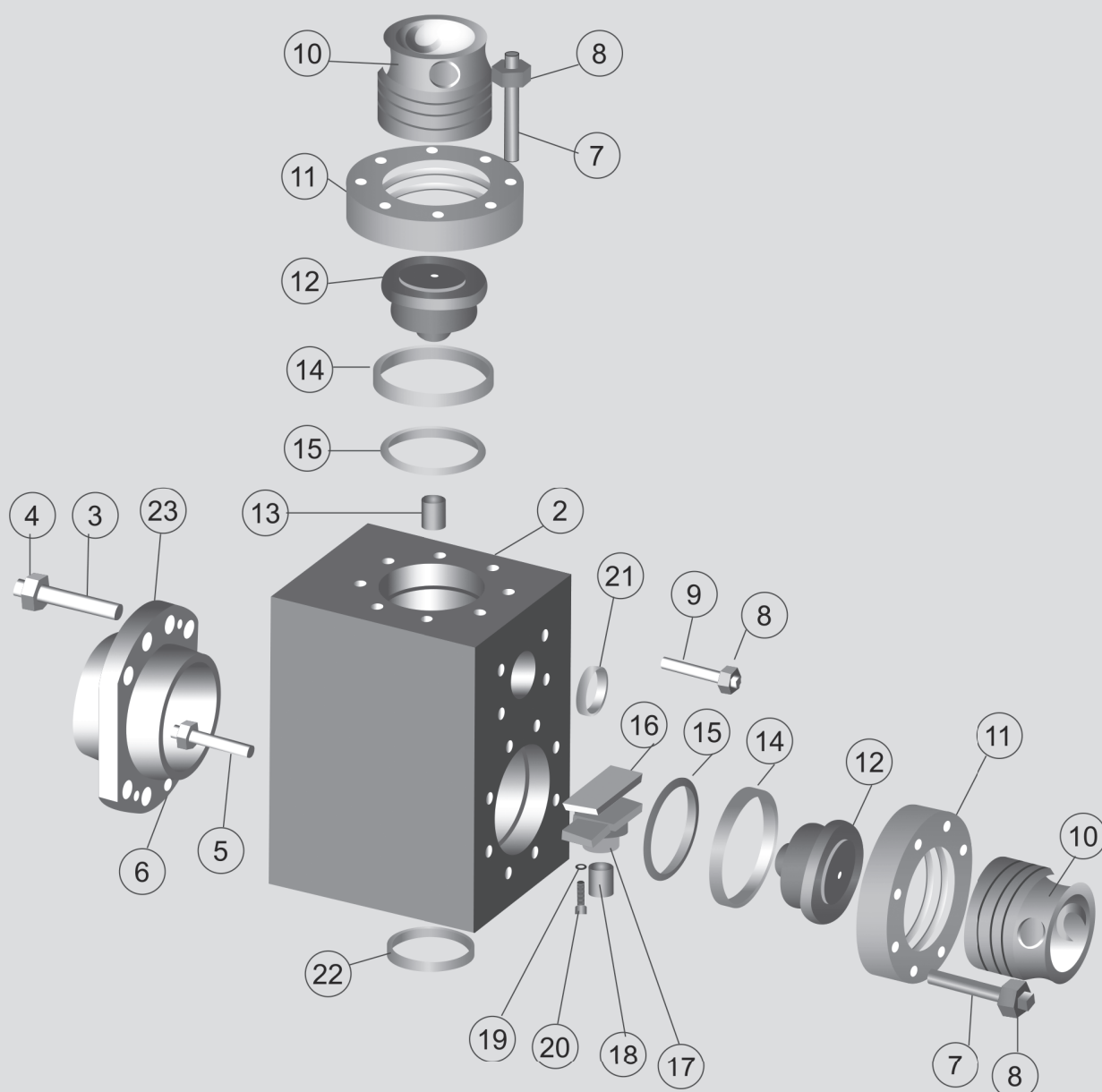
GARDNER DENVER PZ-7, PZ-8 & PZ-9

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

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PZ-7 PZ-8 PZ-9

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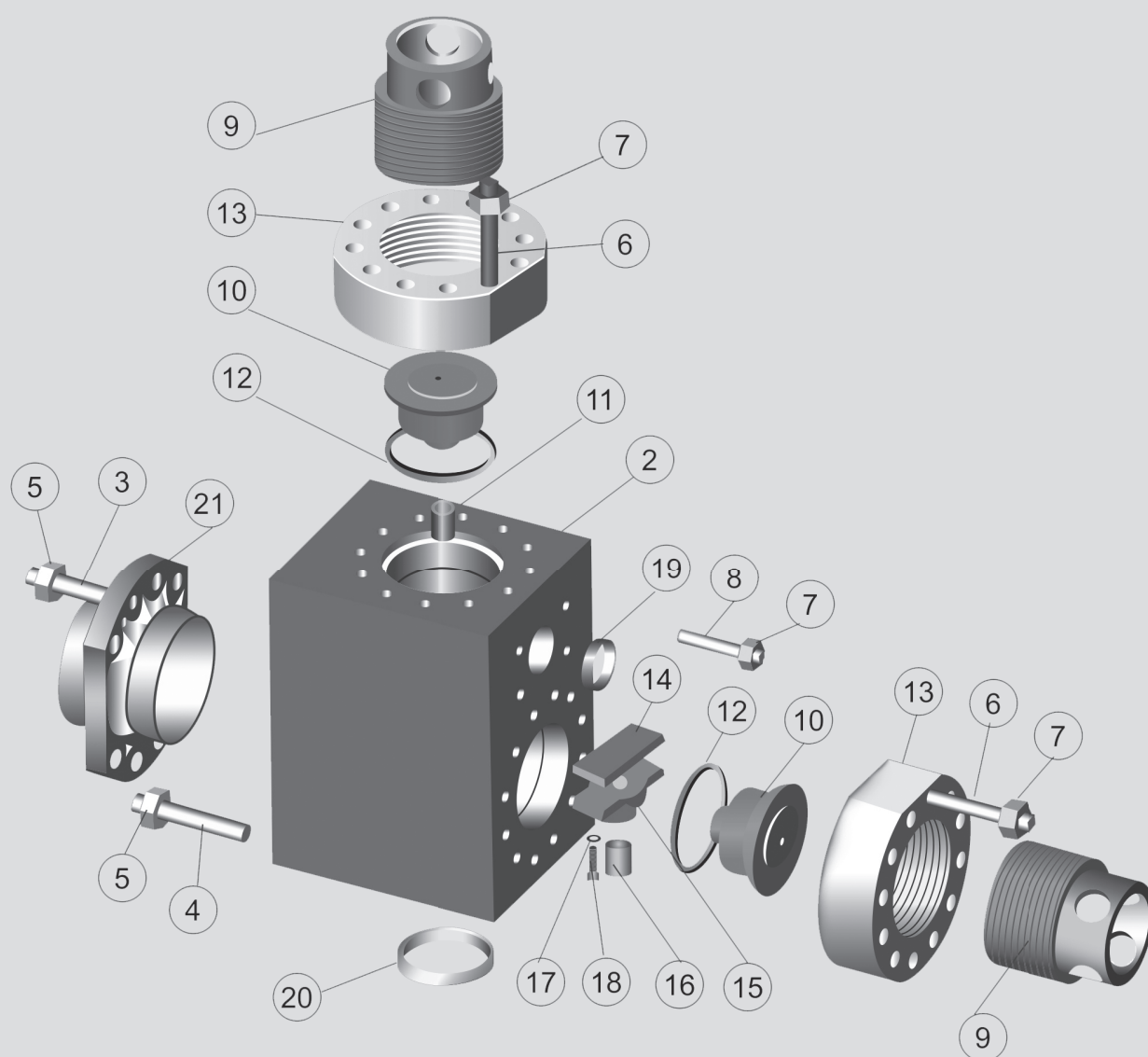
GARDNER DENVER PZ-10 & PZ-11

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

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PZ-10 PZ-11

FLUID END MODULE
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NATIONAL 7-P-50

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

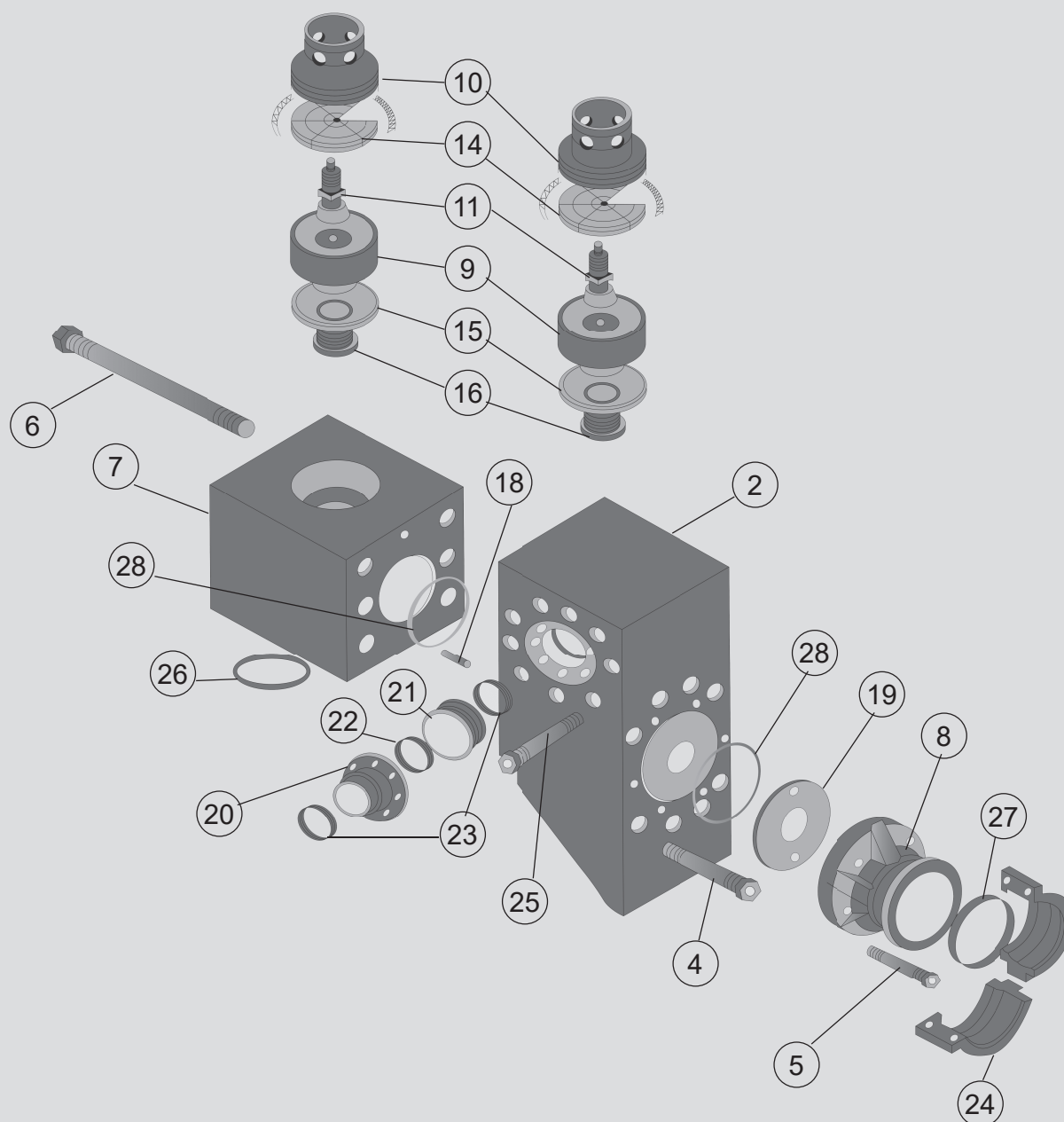
¹Offered in Plain Carbon or Stainless Steel

* Not shown

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

7 - P - 50

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

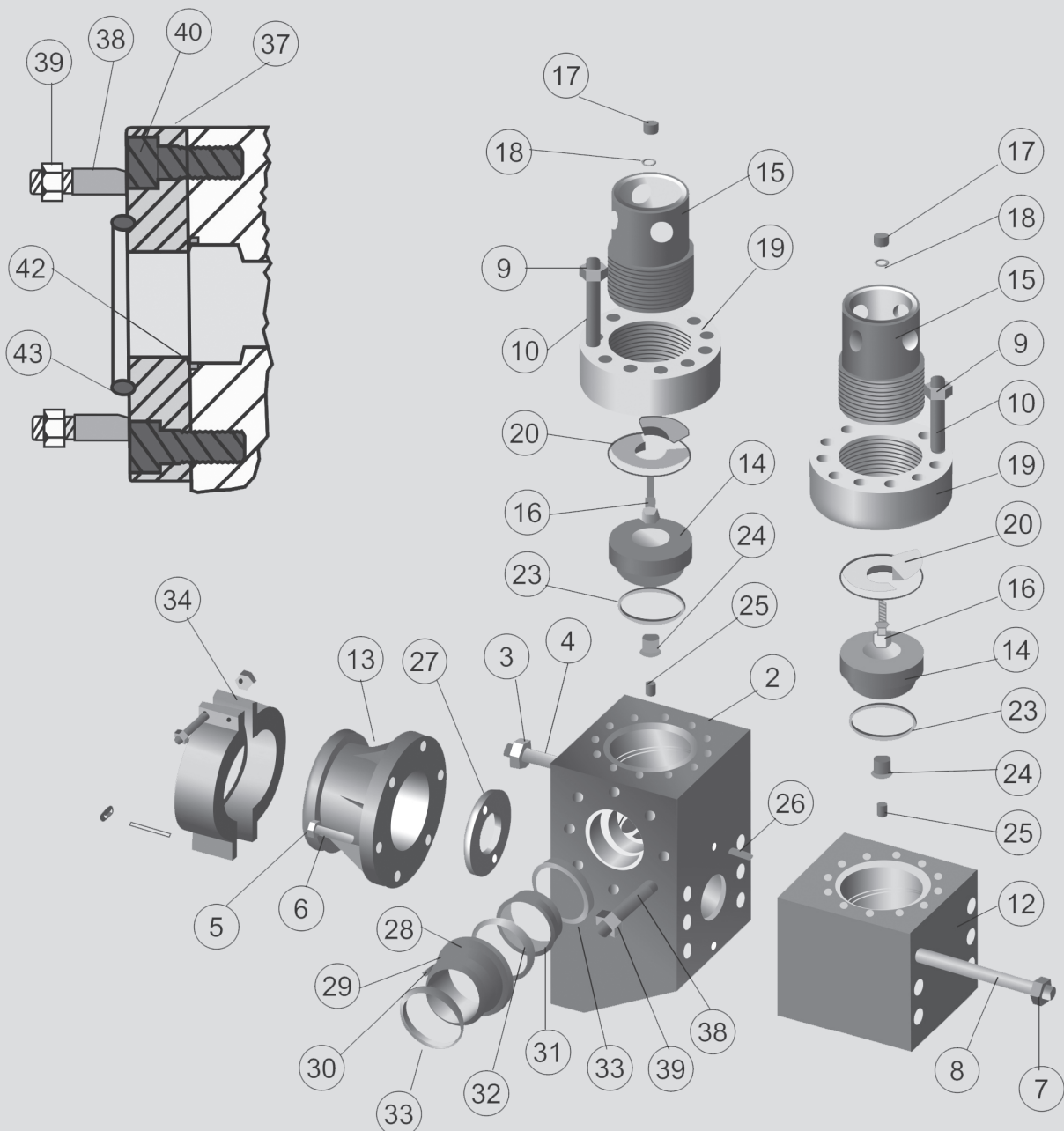
NATIONAL 8-P-80

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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

8 - P - 80

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

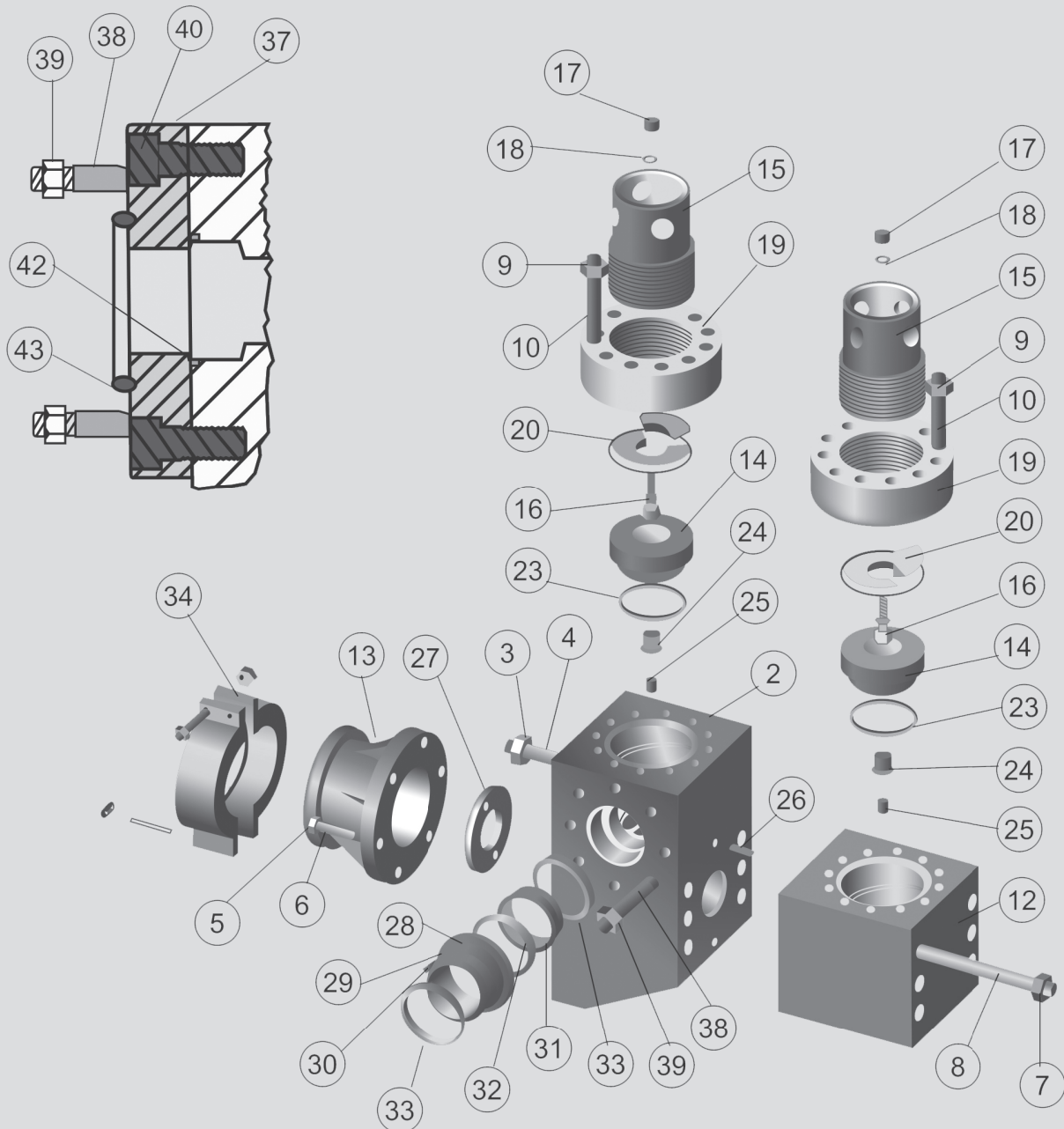
NATIONAL 9-P-100

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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

9 - P - 100

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

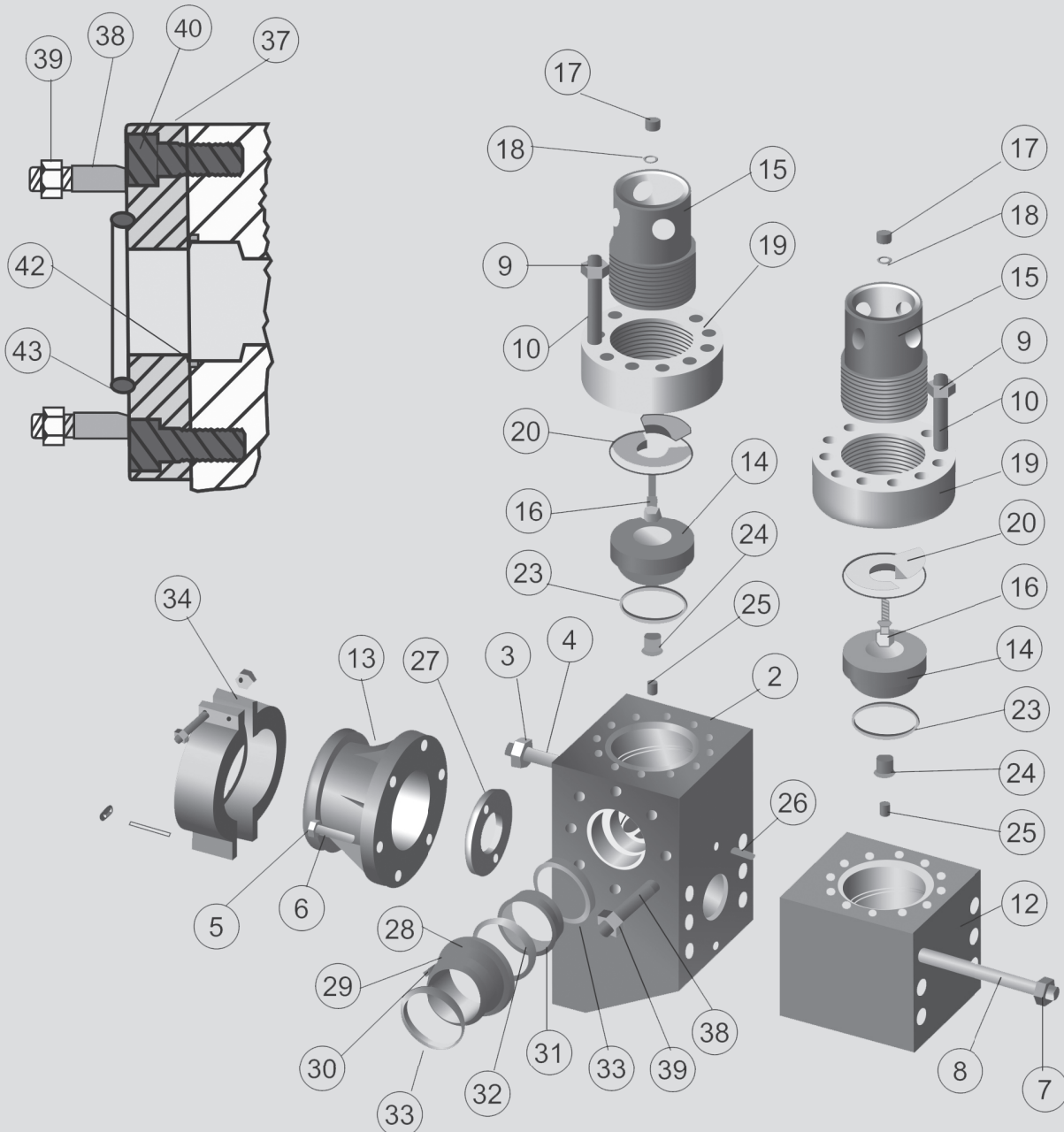
NATIONAL 10-P-130

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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

10 - P - 130

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

NATIONAL 12-P-160

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

¹Offered in Plain Carbon or Stainless Steel * Not Shown

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

OILWELL

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

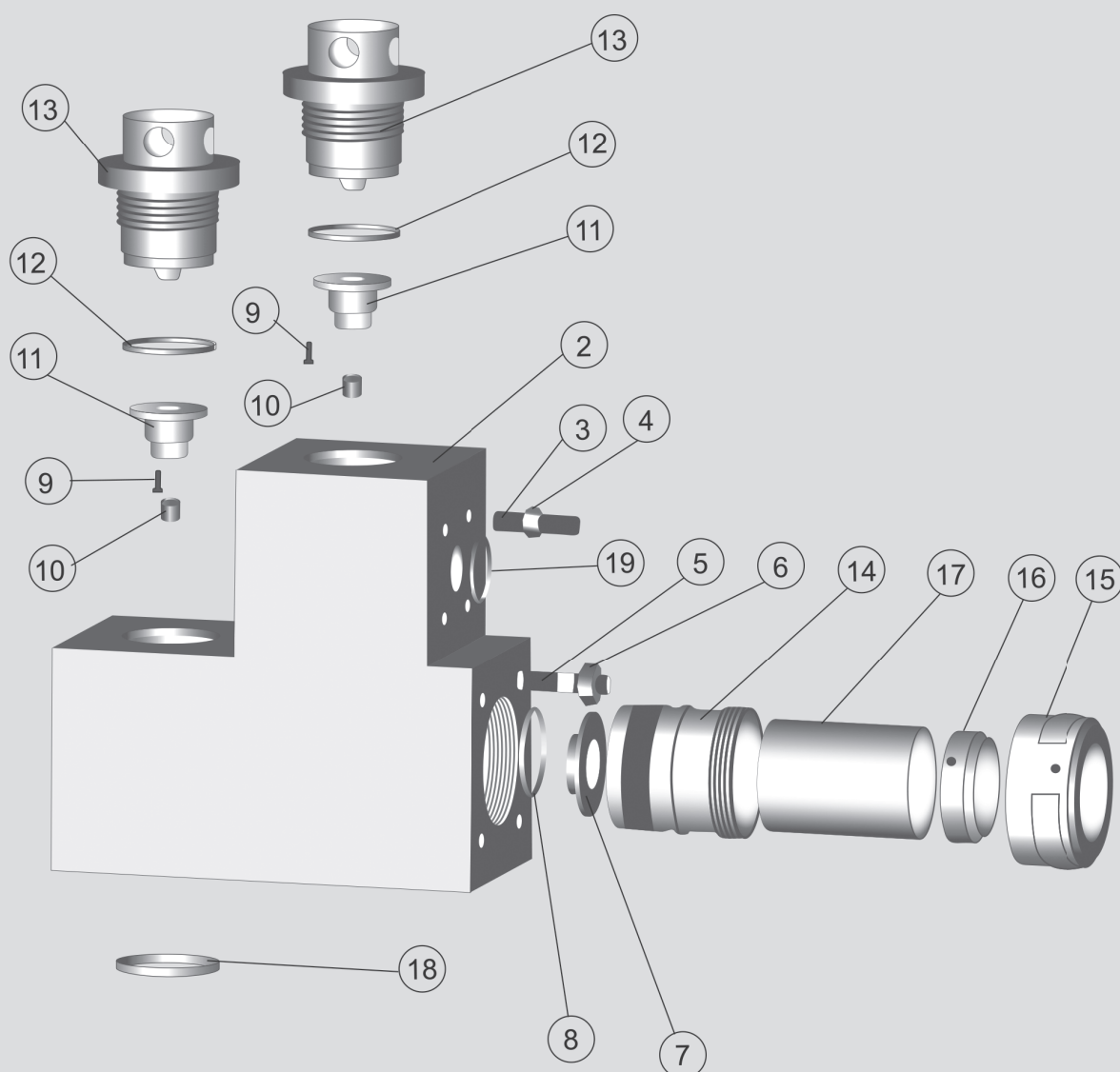
Item	Part No.	Description	Qty per Pump
1	10-300-181	Discharge Module, Studded (Included Items 2 – 6)	(3)
2		Discharge Module, Only	3
3	49-001-292	Stud – Discharge Manifold	12
4	75-511-754	Nut – Discharge Manifold	12
5	49-002-837	Stud – Frame	12
6	75-510-126	Nut – Frame	12
7	10-300-184	¹ Wear Plate –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

¹Offered in Plain Carbon or Stainless Steel

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

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

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

“L” SHAPED FB-1300 & FB-1600

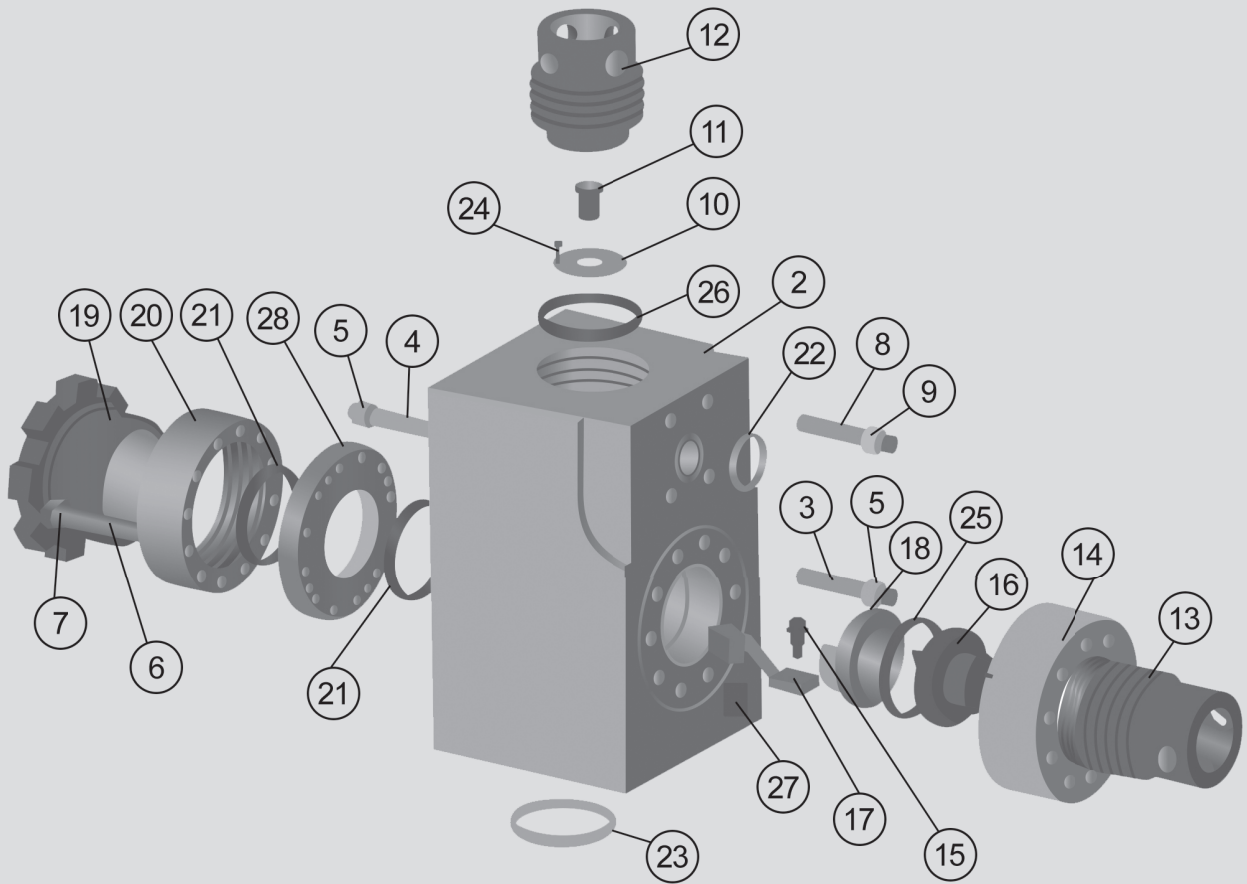
Item	Part No.	Description	Qty per Pump
	8490-2A	Complete Assembly	(3)
	8490-1	Fluid Module, Discharge - Studded (included Items 1-5)	(3)
1		Fluid Module - Discharge	3
2	4016-9	Stud w/Nut - Frame	18
3	4017-1	Stud w/Nut - Suction Module	18
4	4017-46	Stud w/Nut - Discharge Manifold	12
5	4015-2	Stud w/Nut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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

"L" Shaped

FB-1300 FB-1600

FLUID END MODULE AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

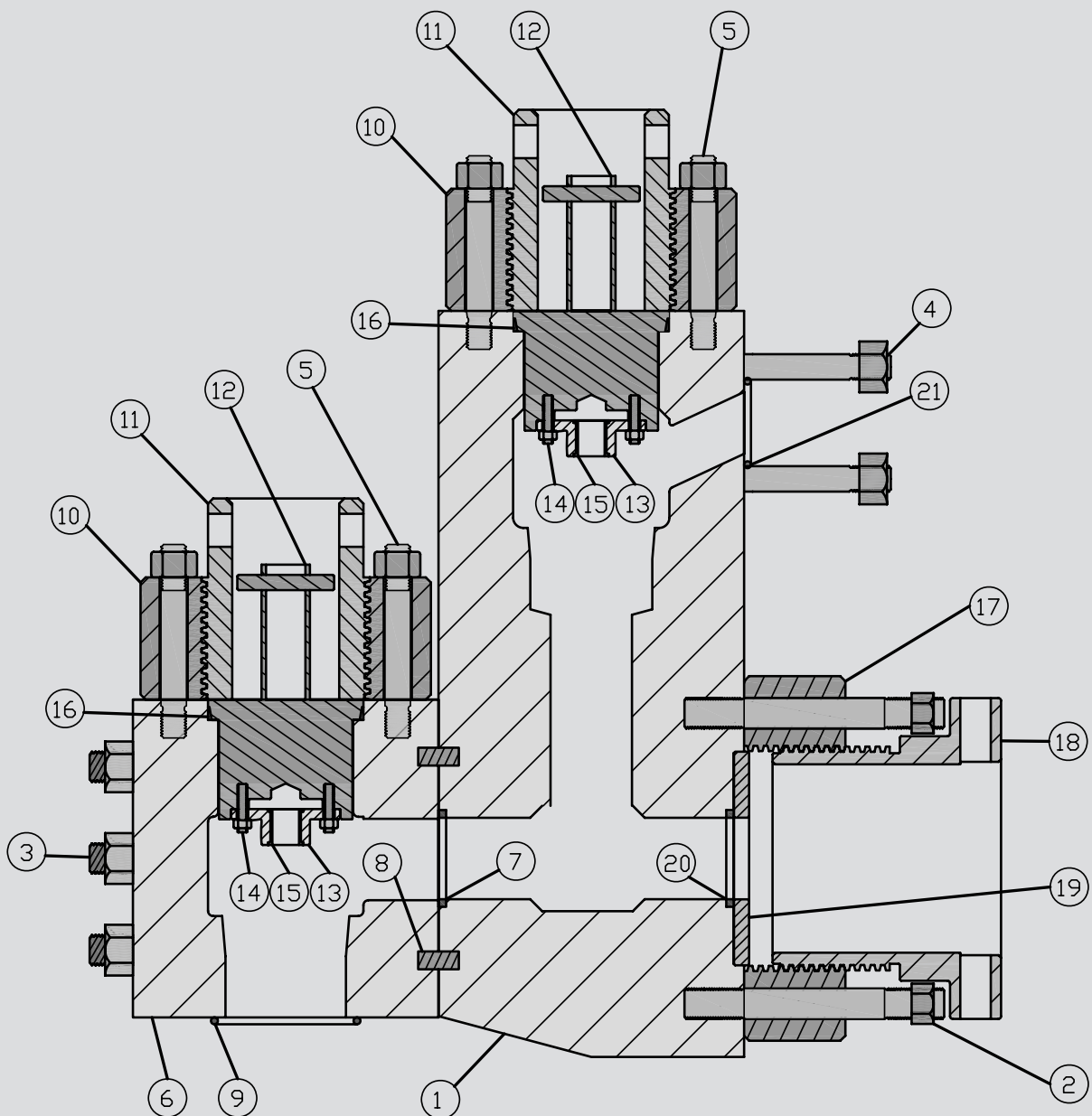
“L” SHAPED T-1300 & T-1600

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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

"L" Shaped T-1300 T-1600

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

“L” SHAPED PZ-10 & PZ-11

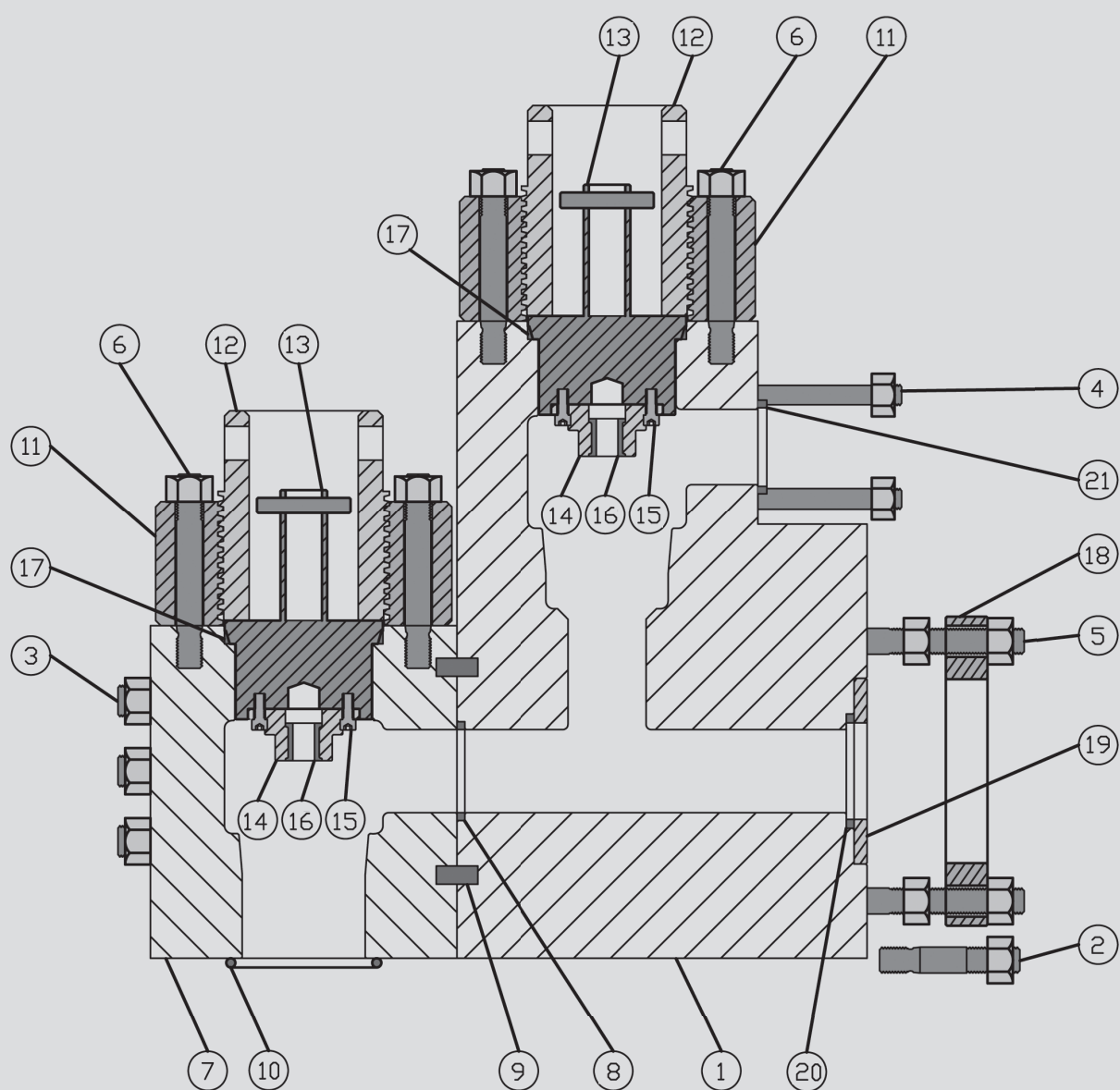
Item	Part No.	Description	Qty per Pump
	8477-A	Complete Assembly	(3)
	8477-1	Fluid Module, Discharge - Studded (included items 1-6)	(3)
1		Fluid Module - Discharge	3
2	4018-35	Stud w/Nut - Frame	24
3	4016-97	Stud w/Nut - Suction Module	18
4	4017-5	Stud w/Nut - Discharge Manifold	12
5	4018-34	Stud w/2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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

"L" Shaped

PZ-10 PZ-11

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

“L” SHAPED 10-P-130

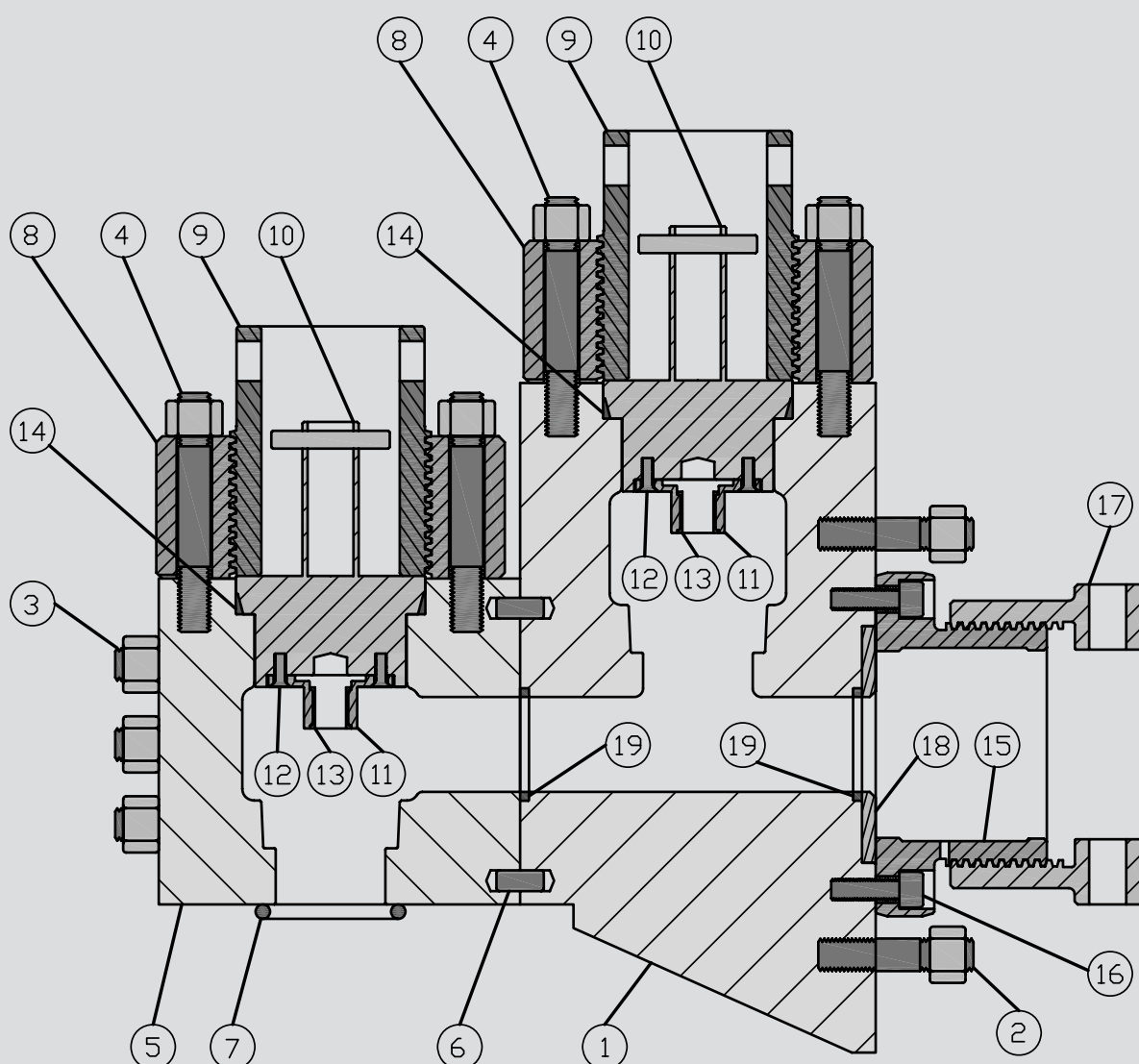
Item	Part No.	Description	Qty per Pump
	8467-A	Complete Assembly	(3)
	8467-1	Fluid Module, Discharge - Studded (included Items 1-4)	(3)
1		Fluid Module - Discharge	3
2	4015-96	Stud w/Nut - Frame	30
3	4017-1	Stud w/Nut - Suction Module	18
4	4015-5	Stud w/Nut - Valve Cover	72
	8467-2	Fluid Module, Suction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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

"L" Shaped

10-P-130

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

“L” SHAPED 12-P-160 New Style

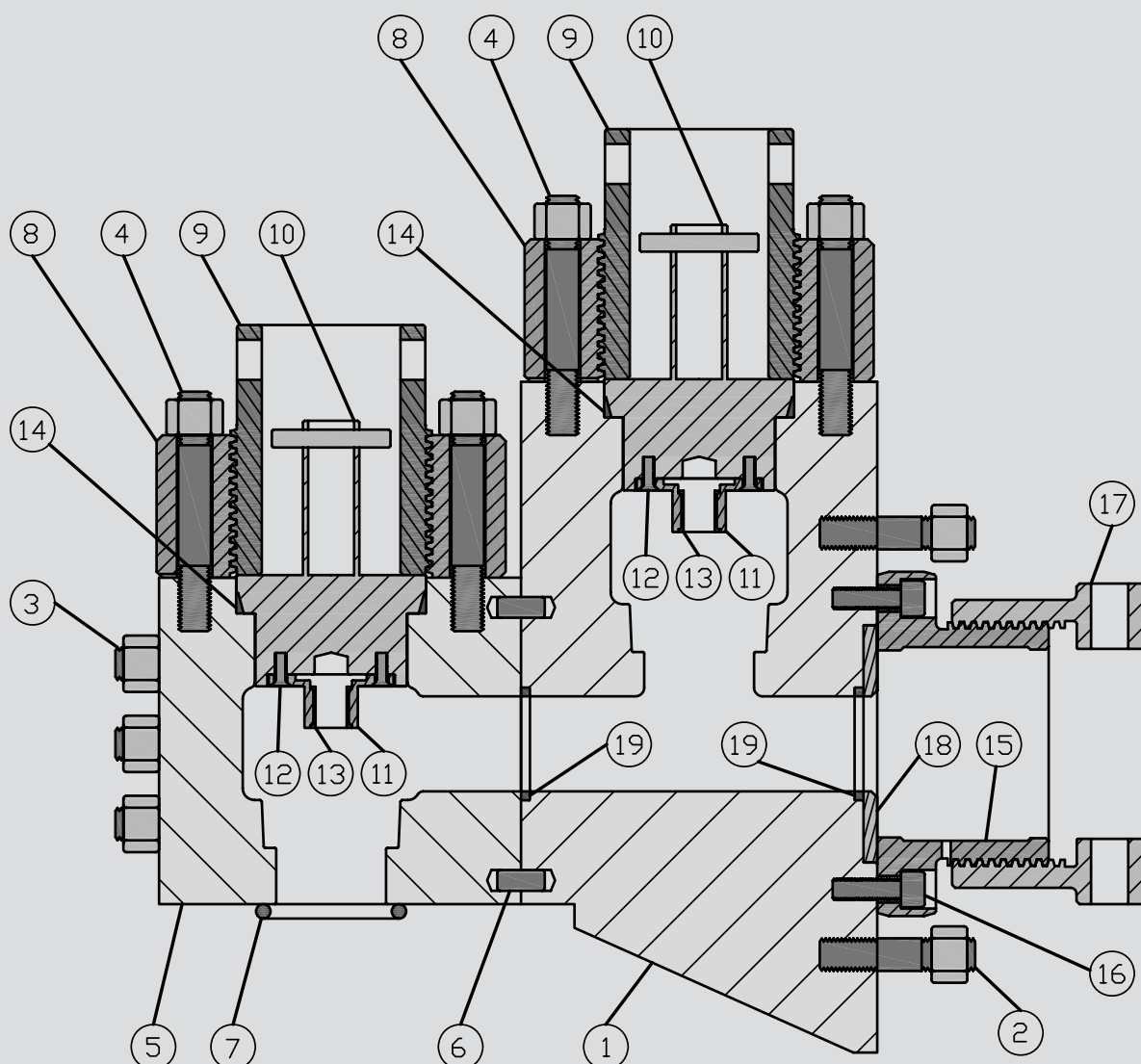
Item	Part No.	Description	Qty per Pump
	8476-4A	Complete Assembly	(3)
	8476-5	Fluid Module, Discharge - Studded (included Items 1-4)	(3)
1		Fluid Module - Discharge	3
2	4015-95	Stud w/Nut - Frame	30
3	4018-17	Stud w/Nut - Suction Module	18
4	4015-54	Stud w/Nut - Valve Cover	72
	8476-6	Fluid Module, Suction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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

"L" Shaped

12-P-160 New Style

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

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

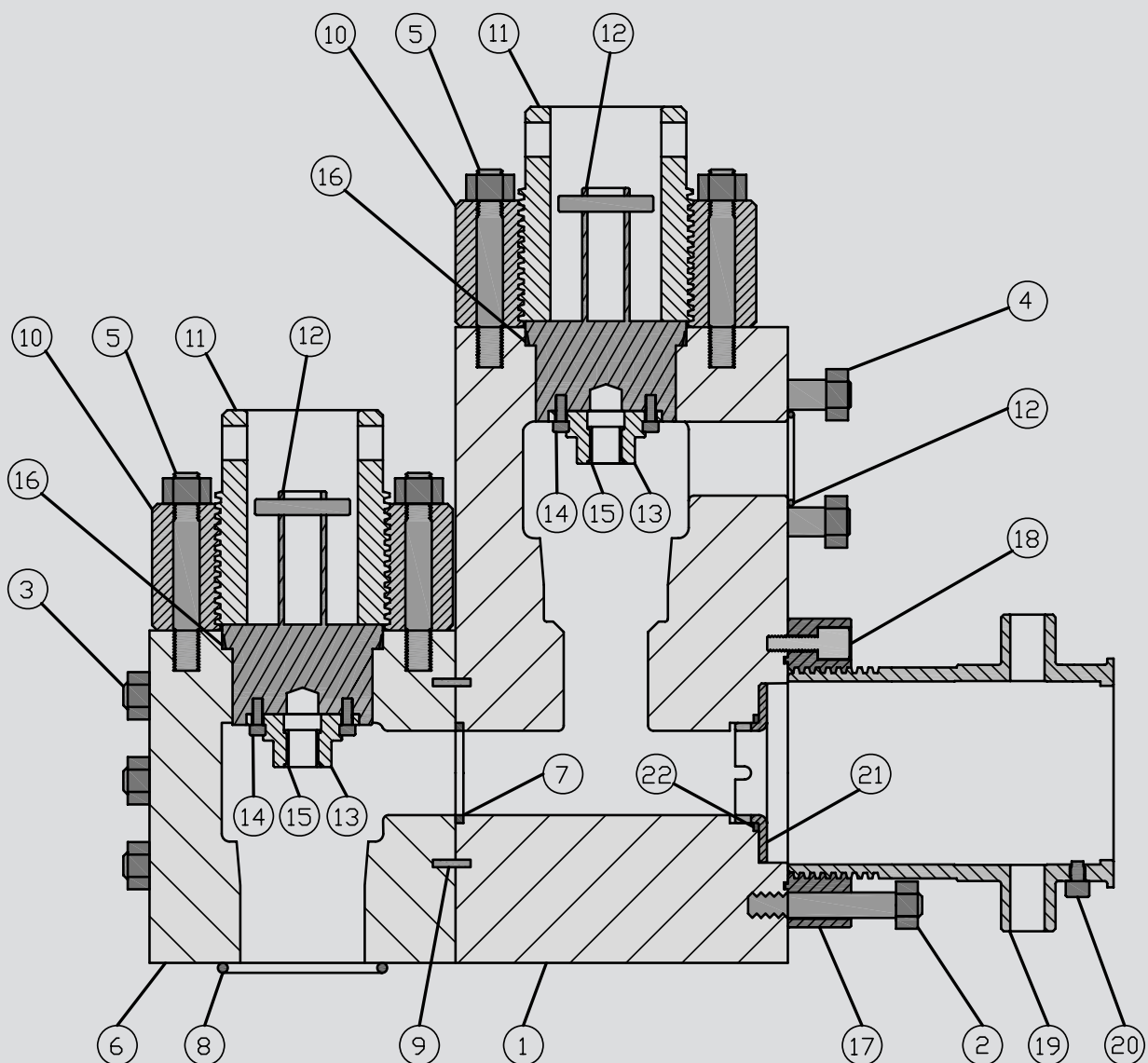
Item	Part No.	Description	Qty per Pump
	8487-A	Complete Assembly (A-850-PT, A-1100-PT)	(3)
	8488-1A	Complete Assembly (A-1400-PT, A-1700-PT)	(3)
	8488-1	Fluid Module, Discharge - Studded (included items 1-5)	(3)
1		Fluid Module - Discharge	3
2	4016-96	Stud w/Nut - Frame	12
3	4016-97	Stud w/Nut - Suction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

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

"L" Shaped

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

FLUID END MODULE
AND ACCESSORIES



ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

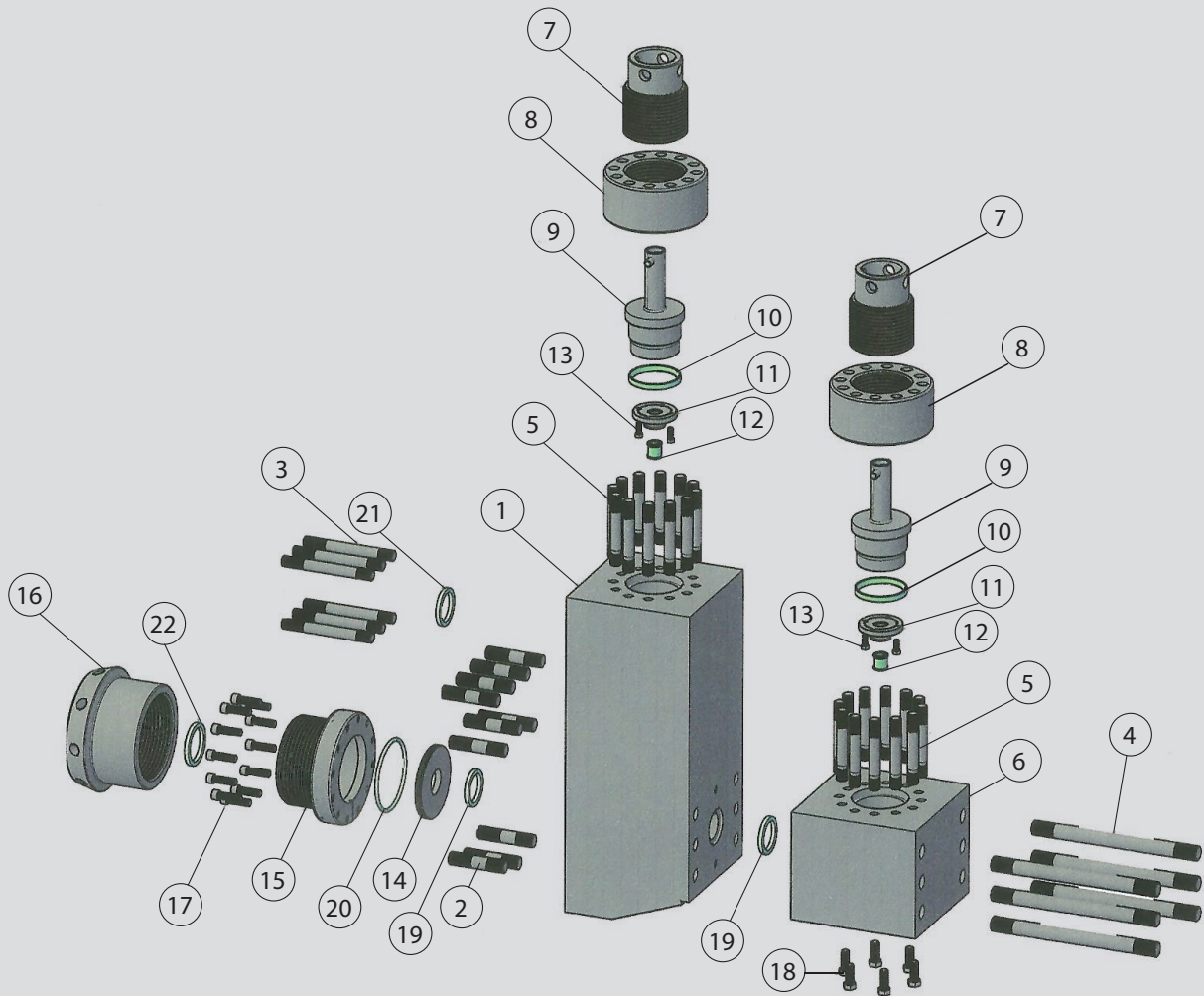
SW STYLE BOMCO F-1600 7500 PSI

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

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SW STYLE BOMCO F-1600 7500 PSI

FLUID END MODULE
AND ACCESSORIES



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SW Style Gardner Denver PZ-11 7500 PSI

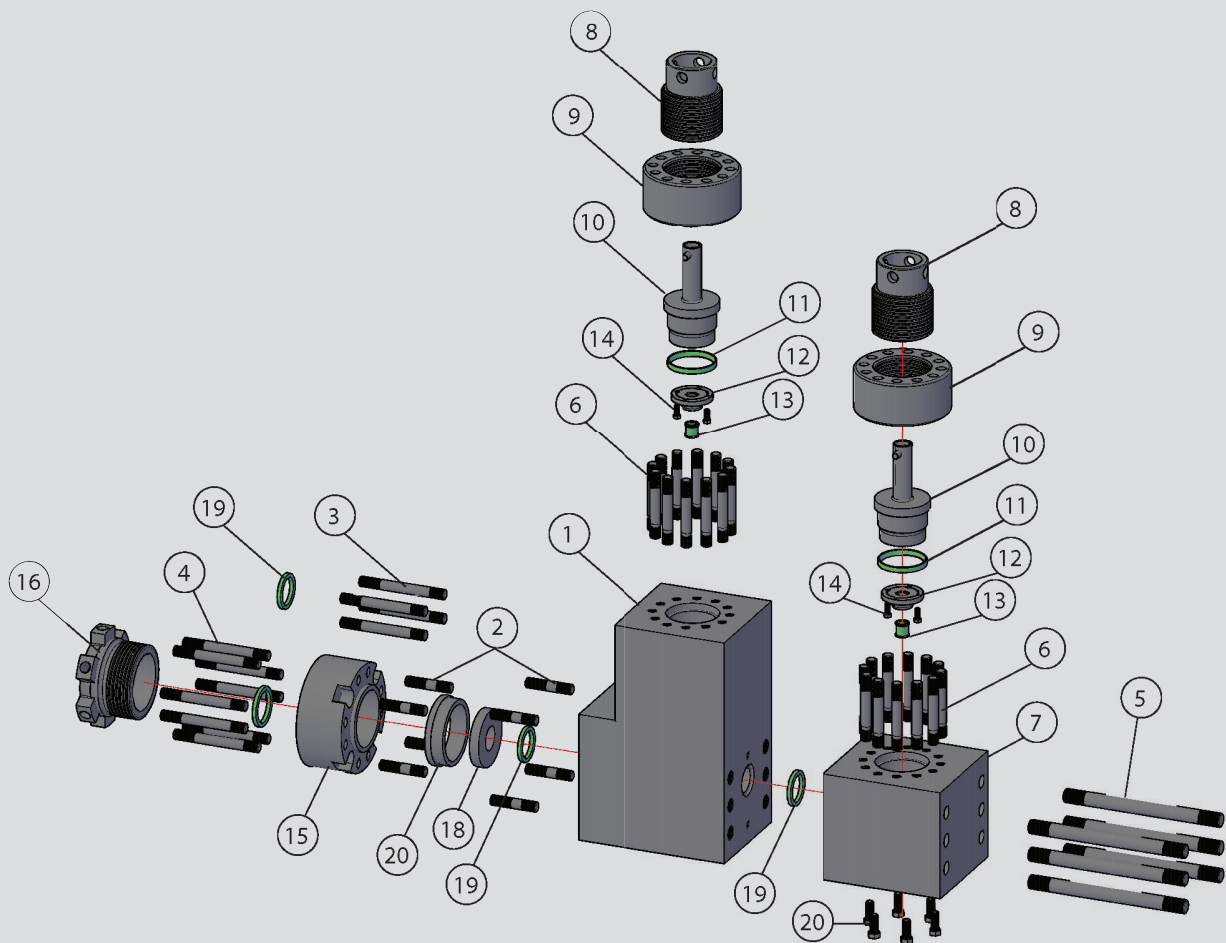
Item	Part No.	Description	Qty per Pump
	8477-25A	Fluid End Assembly Complete	3
	8477-27	Discharge Module - Studded (Includes Items 1-6)	
1	8477-27U	Discharge Module	3
2	4019-46	Power End Stud c/w Nut	24
3	4019-45	Discharge Manifold Stud c/w Nut	12
4	4019-45	Liner Retainer Stud c/w Nut	24
5	4019-44	Suction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

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SW STYLE GARDNER DENVER PZ-11 7500 PSI

FLUID END MODULE
AND ACCESSORIES



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Pulsation Dampeners and Strainer Blocks



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

CA122 Liner Wash Pump	
Part Number	Description
CA122	CA122 Liner Wash Pump

ALL OF OUR PRODUCTS ARE FULLY EXCHANGEABLE WITH O.E.M. STANDARDS.

**“We are a specialized supplier
for ESP components, Drilling and
Workover Rigs”**

Juan Carlos Mendoza | Latam Area Manager

Ph: + 593-2-452-4545

Mobil: + 593-99-807-9145 | juancarlos.m@jcsupplyec.com

Santiago Ayala | Business Development Manager Ecuador

Ph: + 593-2-452-4545

Mobil: + 593-93-991-3925 | santiago.a@jcsupplyec.com

www.jcsupplyec.com