
GARDNER DENVER®

302FWF997 Rev G
February, 2008

WELL SERVICING PUMP

MODEL

**GD-2500Q
GD-2500Q-HD
QUINTUPLEX PUMPS**

**GWS FLUID END
PARTS LIST**

Gardner

Denver

**GWS FLUID END PARTS LIST
FOR
GD-2500Q AND GD-2500Q-HD
WELL SERVICING PUMPS**

**MAINTAIN PUMP RELIABILITY AND PERFORMANCE WITH
GENUINE GARDNER DENVER
PARTS AND SUPPORT SERVICES**

Gardner Denver® genuine pump parts are manufactured to design tolerances and are developed for optimum dependability. Design and material innovations are the result of years of experience with hundreds of different pump applications. Reliability in materials and quality assurance is incorporated in our genuine replacement parts.

Your authorized Gardner Denver Sales Office offers all the backup you'll need. The Fort Worth Manufacturing Facility maintains a large inventory of genuine parts.

Gardner Denver supports your needs with these services:

1. Trained parts specialists to assist you in selecting the correct replacement parts.
2. Repair and maintenance kits designed with the necessary parts to simplify servicing your pump.

Authorized service technicians are factory trained and skilled in pump maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair services.

For the location of your local authorized Gardner Denver distributor, refer to the yellow pages of your phone directory or contact:

Factory (Tulsa): Gardner Denver Well Servicing Pumps 4747 South 83 rd East Avenue Tulsa, Oklahoma 74145	Service Center (Odessa): Chaparral 2121 West 44 th Street Odessa, Tx 79768	Service Center (Ft. Worth): Geoquip 7533 Kathy Lane Ft. Worth, Texas 76126
Phone: (918) 664-1151 (800) 738-8099	Phone: (432) 366-5433 (800) 368-1134	Phone: (817) 249-6400 (800) 824-0271
Fax: (918) 664-6225	Fax: (432) 363-9940	Fax: (817) 249-6401

INSTRUCTIONS FOR ORDERING REPAIR PARTS

When ordering parts, specify Pump MODEL and SERIAL NUMBER (see nameplate on unit). The Serial Number is also stamped on top of the cylinder end of the frame (cradle area).

All orders for Parts should be placed with the Tulsa or Ft. Worth facility.

Where NOT specified, quantity of parts required per pump or unit is one (1); where more than one is required per unit, quantity is indicated in parenthesis. **SPECIFY EXACTLY THE NUMBER OF PARTS REQUIRED.**

GARDNER DENVER PRODUCT WARRANTY

GENERAL PROVISIONS AND LIMITATIONS

Gardner Denver (the "Company") warrants to each original retail purchaser ("Purchaser") of its new products, assemblies or parts from the Company or its authorized distributors that such products are, at the time of delivery to the Purchaser, made with good material and workmanship. No warranty is made with respect to:

1. Any product which has been repaired or altered in such a way, in the Company's judgment, as to affect the product adversely.
 2. Any product which has, in the Company's judgment, been subject to negligence, accident, or improper storage, improper installation, operation or application. (Examples: over-pressure, sand-outs, cavitation, corrosion, erosion or degradation).
 3. Any product which has not been operated or maintained in accordance with the recommendations of the Company.
 4. Components or accessories manufactured, warranted and serviced by others.
- Any reconditioned or prior owned product.

Claims for items described in (4) above should be submitted directly to the manufacturer.

WARRANTY PERIOD

The Company's obligation under this warranty is limited to repairing or, at its option, replacing, during normal business hours at an authorized service facility of the Company, any part or assembly which in the Company's judgment proved to have unsatisfactory material or workmanship within the applicable Warranty Period as follows.

Except for the products or components listed below, and subject to the limitations and restrictions set forth in the "Disclaimer" section set forth below, the Warranty Period for all products is 1,250 hours of operation or three (3) months after start-up, not to exceed 120 days after delivery to Purchaser, whichever occurs first. The exceptions are as follows:

1. Power end is warranted for twelve (12) months from date of start-up or eighteen (18) months from date of delivery to the Purchaser, whichever occurs first.
2. Forged steel fluid cylinders are warranted for materials and workmanship for 6 months

from the date of installation or 18 months from the date of delivery to the purchaser, whichever ever occurs first.

3. Repairs are warranted for 90 days from the date of delivery, for the workmanship and materials of the new parts installed.
4. Weld repaired fluid ends and weld repaired components are not warranted.
5. Expendable fluid end parts, including, but not limited to, valves, valve parts, packing, liners and pistons, are not covered by this warranty due to variable abrasive nature of material pumped.

PRESERVATION ASSEMBLIES DESTINED FOR STORAGE

In order for warranty acceptance any pump assembly not immediately installed or destined to be in storage or in transit for extended periods of time must be prepared for storage as defined in the Company's Long Term Storage Procedure. This includes but is not limited to:

- Drain and thoroughly clean inside power end crankcase.
- Spray rust inhibiting oil on all bearing, machined and inside surfaces of the power end.
- Induce clean gear oil into any circulating pump, filter, heat exchanger and piping.
- Remove valves, seats and plungers from the fluid end. Thoroughly clean and dry these parts and all internal surfaces. Coat all cylinder bores, valve covers and reusable expendable parts with rust preventative.
- Flush all water, and contaminants from pump, tanks, hoses and spray nozzles. Spray all components with a rust inhibiting oil.
- Rotate pump every 30 days to insure bearings are oiled.
- At the expense of the Purchaser, any product properly preserved must be inspected by an authorized agent of the Company, prior to the Company, granting any extended warranty beyond that stated in this warranty.

LABOR TRANSPORTATION AND INSPECTION

The Company will provide labor, by Company representative or authorized service personnel, for repair or replacement of any product or part thereof

which in the Company's judgment is proved not to be as warranted. Labor shall be limited to the amount specified in the Company's labor rate schedule. Labor costs in excess of the Company rate schedules caused by, but not limited to, location or inaccessibility of the equipment, or labor provided by unauthorized service personnel is not provided for by this warranty.

All costs of transportation of product or parts claimed not to be as warranted and, of repaired or replacement parts to or from such service facility shall be borne by the Purchaser. The Company may require the return of any part claimed not to be as warranted to one of its facilities as designated by the Company, transportation prepaid by the Purchaser, to establish a claim under this warranty.

Replacement parts provided under the terms of this warranty are warranted for the remainder of the Warranty Period of the product upon which installed to the same extent as if such parts were original components.

The Company may request a root cause analysis be performed in-order to identify if a request for warranty claim meets the requirements of this warranty.

DISCLAIMER

Except as to title, the foregoing warranty is the sole and exclusive warranty of the Company. The Company hereby extends other manufactures' warranty or guaranties, if any given to Company by such manufacturer, but only to the extent the Company is able to enforce such warranty or guaranties. The Company has not authorized any party to make any representation or warranty other than as expressly set forth herein. SELLER HEREBY DISCLAIMS AND EXCLUDES ANY OTHER EXPRESS, IMPLIED OR STATUTORY WARRANTIES, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. COMPANY MAKES NO WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER (EXPRESS, IMPLIED OR STATUTORY), OF LAW OR OTHERWISE, ON ANY EQUIPMENT, COMPONENT PARTS OR ACCESSORIES SOLD HEREUNDER WHICH, ARE NOT MANUFACTURED BY COMPANY.

NOTWITHSTANDING ANYTHING HEREIN TO THE CONTRARY, THE FOREGOING WARRANTY SHALL BE THE SOLE AND EXCLUSIVE REMEDY AVAILABLE TO THE PURCHASER. UNDER NO CIRCUMSTANCES, WHETHER IN CONTRACT, TORT OR OTHERWISE, SHALL THE COMPANY'S TOTAL LIABILITY ARISING IN CONNECTION WITH ANY PURCHASE ORDER EXCEED THE AMOUNT OF ANY SALES OR OTHER PROCEEDS RECEIVED PURSUANT THERETO. IN ADDITION, UNDER NO CIRCUMSTANCES, WHETHER IN CONTRACT, TORT OR OTHERWISE, SHALL THE COMPANY BE LIABLE FOR LIQUIDATED, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES, EXPENSES OR COSTS, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR FACILITY DOWNTIME, HOWEVER CAUSED AND EVEN IF THE POTENTIAL OF SUCH DAMAGES WAS DISCLOSED AND/OR KNOWN.

No statement, representation, agreement, or understanding, oral or written, made by any agent, distributor, representative, or employee of the Company which is not contained in this Warranty will be binding upon the Company unless made in writing and executed by an officer of the Company.

This warranty shall not be effective as to any claim which is not presented within 30 days after the date upon which the product is claimed not to have been as warranted. Any action for breach of this warranty must be commenced within one year after the date upon which the cause of action occurred.

Any adjustment made pursuant to this warranty shall not be construed as an admission by the Company that any product was not as warranted.

WARRANTY REQUESTS

Products to be returned for warranty analysis shall be approved for return in writing by the Company prior to shipment. All requests for product return shall be submitted by email. Facsimile or letter to:

Warranty Department c/o
Gardner Denver Petroleum Pumps
4747 South 83rd East Avenue
Tulsa, Oklahoma 74145

Email: CCR.QAR@gardnerdenver.com
Facsimile: (918) 664-6225

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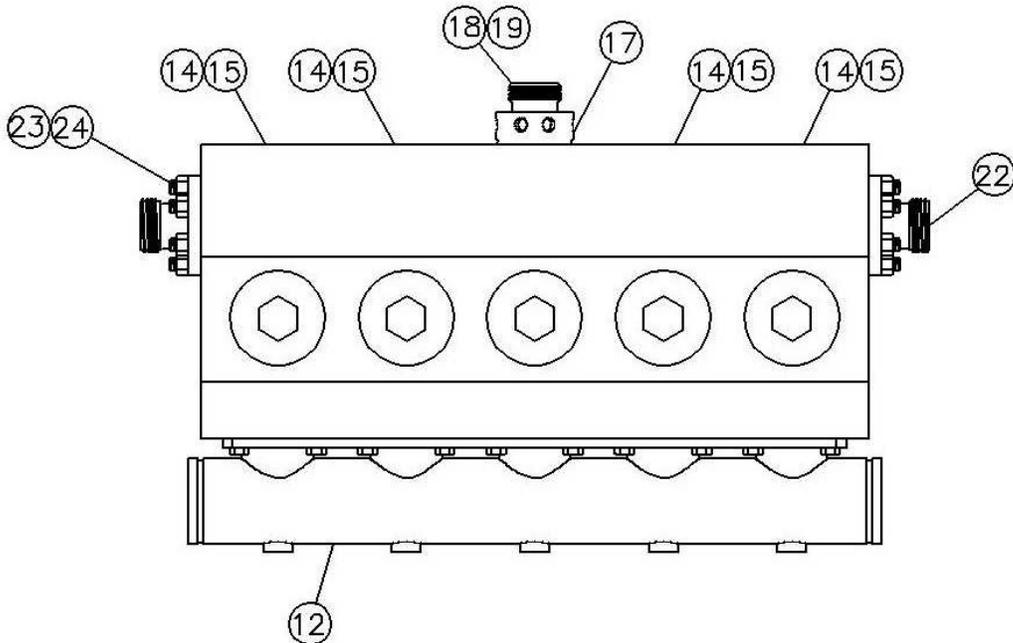
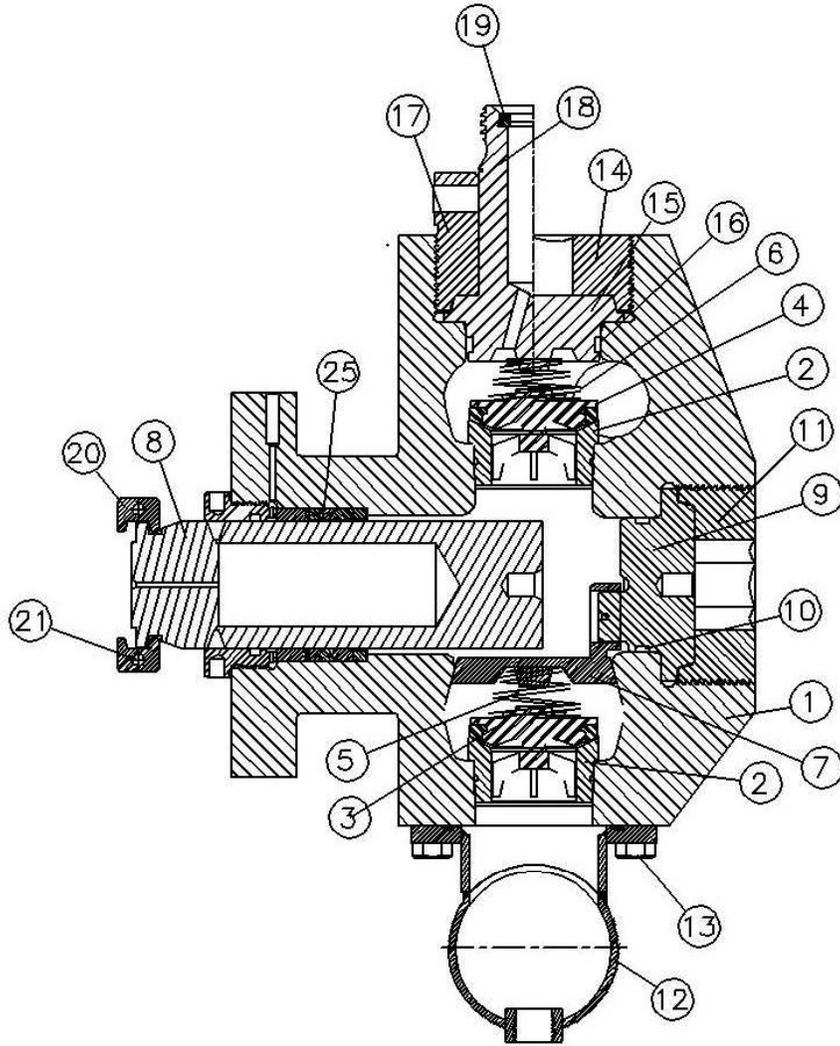
SPECIAL NOTICE CONCERNING PART COMPATIBILITY

THIS PARTS LIST CONTAINS PART NUMBERS THAT ARE COMPATIBLE WITH THE GARDNER DENVER GD-2500Q AND GD-2500Q-HD GWS FLUID CYLINDERS. THE PART NUMBERS LISTED MAY NOT BE COMPATIBLE WITH OTHER FLUID ENDS AVAILABLE FOR THE GD-2500Q AND GD-2500Q-HD PUMP MODELS. ALL PART NUMBERS IN THIS MANUAL ARE COMPATIBLE WITH THE FOLLOWING BARE FLUID CYLINDER PART NUMBERS:

Part No.	Name of Part
PP1027549	GWS Fluid Cylinder, 3.75"
PP1025256	GWS Fluid Cylinder, 4"
PP1003985	GWS Fluid Cylinder, 4.5"
PP1003450	GWS Fluid Cylinder, 5"
PP1005151	GWS Fluid Cylinder, 5.5"
PP1007623	GWS Fluid Cylinder, 5.75"
PP1005366	GWS Fluid Cylinder, 6"

BEFORE ORDERING, VERIFY THAT YOUR BARE FLUID CYLINDER PART NUMBER MATCHES ONE OF THE BARE FLUID CYLINDER PART NUMBERS LISTED ABOVE.

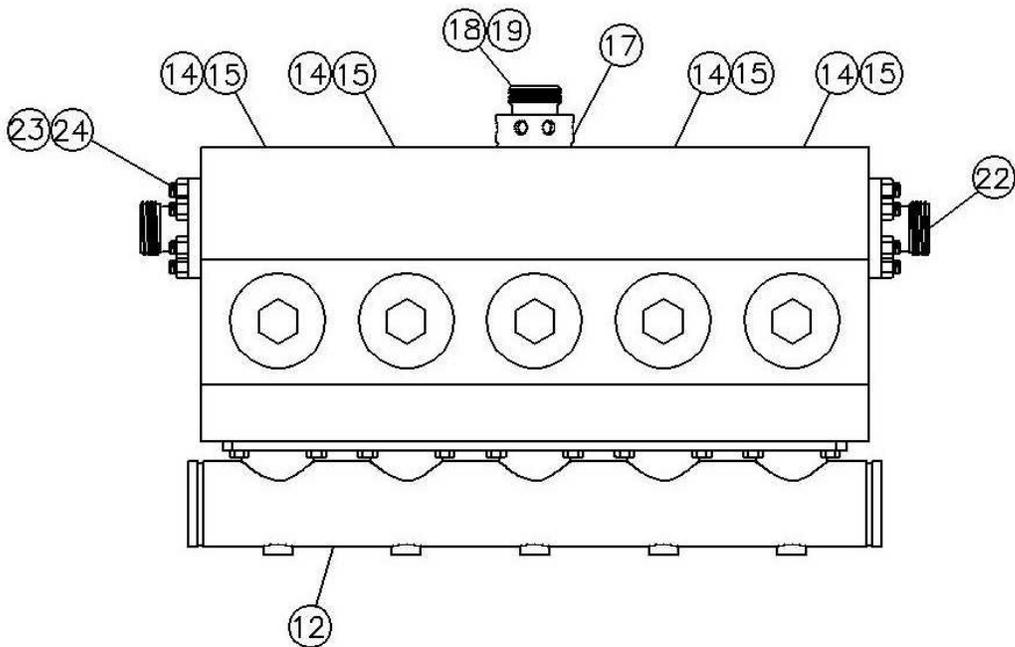
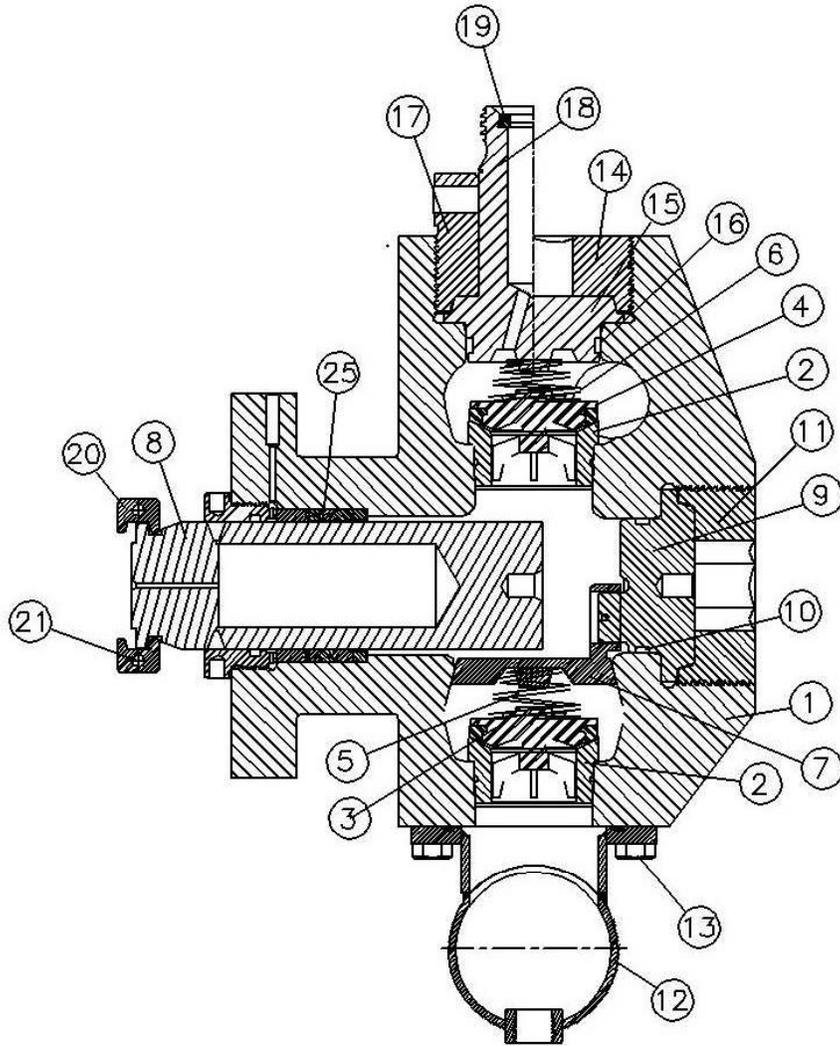
3.75" GWS FLUID CYLINDER ASSEMBLY



3.75" GWS FLUID CYLINDER ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	Fluid Cylinder, 3.75" GWS	1	PP1027549
2	Valve Seat (Suction and Discharge) – Mission	10	928SH01-10
	Valve Seat (Suction and Discharge) – Novatech	10	100349
3	Suction Valve – Mission	5	927SH01-10
	Suction Valve – Novatech	5	101498
4	Discharge Valve – Mission	5	927SH01-10
	Discharge Valve – Novatech	5	101498
5	Valve Spring – Suction	5	918VP023
6	Valve Spring – Discharge	5	918VP023
7	Suction Spring Retainer – Valve Stop	5	PP1027654
8	Plunger – 16" Long (Standard)	5	508895000
	Plunger – 16" Long Pump Saver	5	157AD003
9	Suction Valve Cover	5	PP1027594
10	Seal, Suction Valve Cover	5	100197
11	Retainer Nut – Suction Valve Cover	5	PP1027593
12	Suction Manifold	1	See Pages 31-34
13	Screw	20	75A230
14	Retainer Nut – Discharge Valve Cover – Plain	4	PP1027593
15	Discharge Valve Cover – Plain	4	PP1027620
16	Seal, Discharge Valve Cover	5	100197
17	Retainer Nut – Discharge Valve Cover – Gage	1	PP1027607
18	Discharge Valve Cover – 2" 1502 Gauge Connection	1	PP1027621
19	Seal – 2" 1502 Weco	1	901SH06-1
20	Plunger Clamp	5	302THD092
21	Screw	10	2009617
22	Discharge Flanges	2	See Pages 25-29
23	Stud	12	450VP005-034
24	Hex Nut	12	50B34
25	Packing Group	5	See Pages 20-24

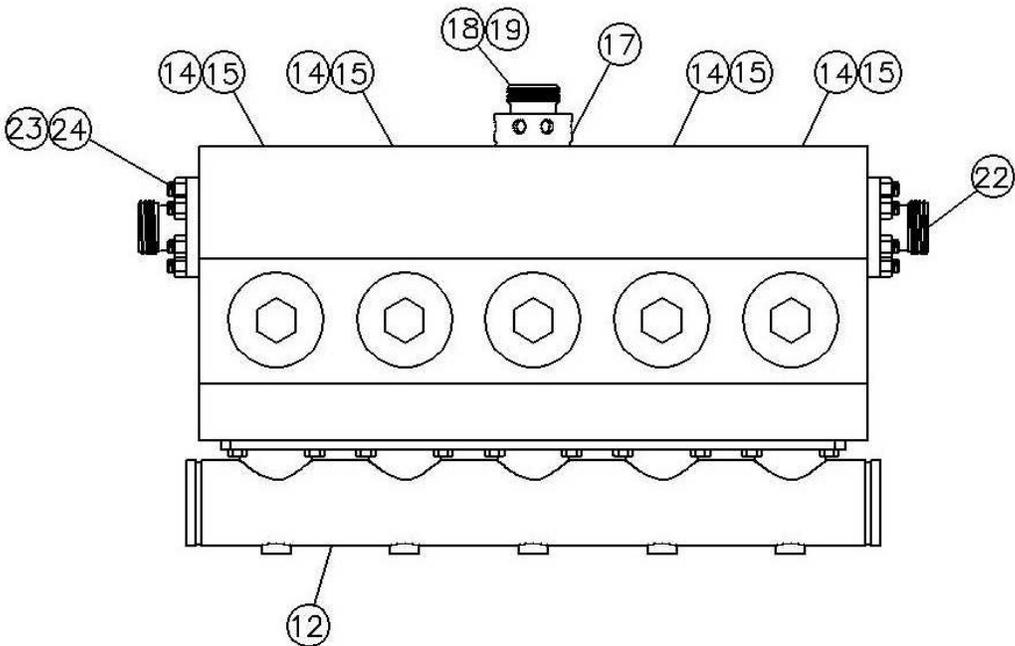
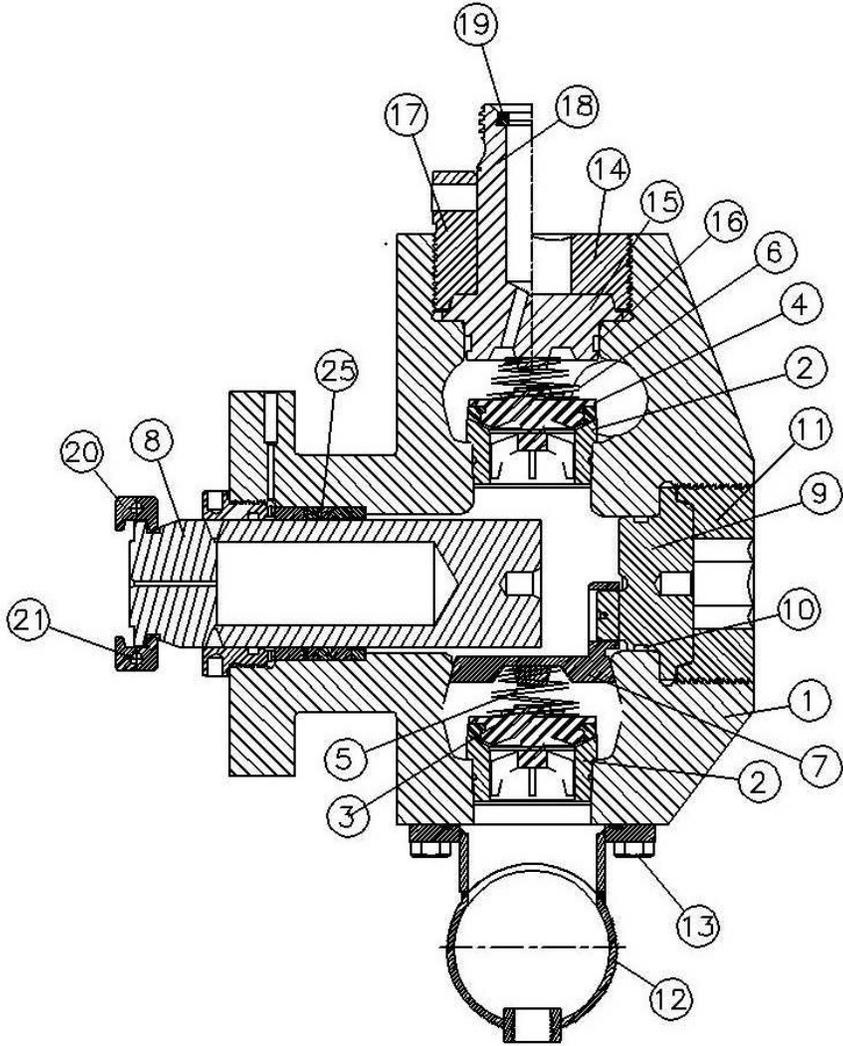
4" GWS FLUID CYLINDER ASSEMBLY



4" GWS FLUID CYLINDER ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	Fluid Cylinder, 4" GWS	1	PP1025256
2	Valve Seat (Suction and Discharge) – Mission	10	928SH01-10
	Valve Seat (Suction and Discharge) – Novatech	10	100349
3	Suction Valve – Mission	5	927SH01-10
	Suction Valve – Novatech	5	101498
4	Discharge Valve – Mission	5	927SH01-10
	Discharge Valve – Novatech	5	101498
5	Valve Spring – Suction	5	918VP023
6	Valve Spring – Discharge	5	918VP023
7	Suction Spring Retainer – Valve Stop	5	PP1027654
8	Plunger – 16" Long (Standard)	5	157PN009
	Plunger – 16" Long Pump Saver	5	157AD009
9	Suction Valve Cover	5	PP1027594
10	Seal, Suction Valve Cover	5	100197
11	Retainer Nut – Suction Valve Cover	5	PP1027593
12	Suction Manifold	1	See Pages 31-34
13	Screw	20	75A230
14	Retainer Nut – Discharge Valve Cover – Plain	4	PP1027593
15	Discharge Valve Cover – Plain	4	PP1027620
16	Seal, Discharge Valve Cover	5	100197
17	Retainer Nut – Discharge Valve Cover – Gage	1	PP1027607
18	Discharge Valve Cover – 2" 1502 Gauge Connection	1	PP1027621
19	Seal – 2" 1502 Weco	1	901SH06-1
20	Plunger Clamp	5	342-C-78
21	Screw	10	2009617
22	Discharge Flanges	2	See Pages 25-29
23	Stud	12	450VP005-034
24	Hex Nut	12	50B34
25	Packing Group	5	See Pages 20-24

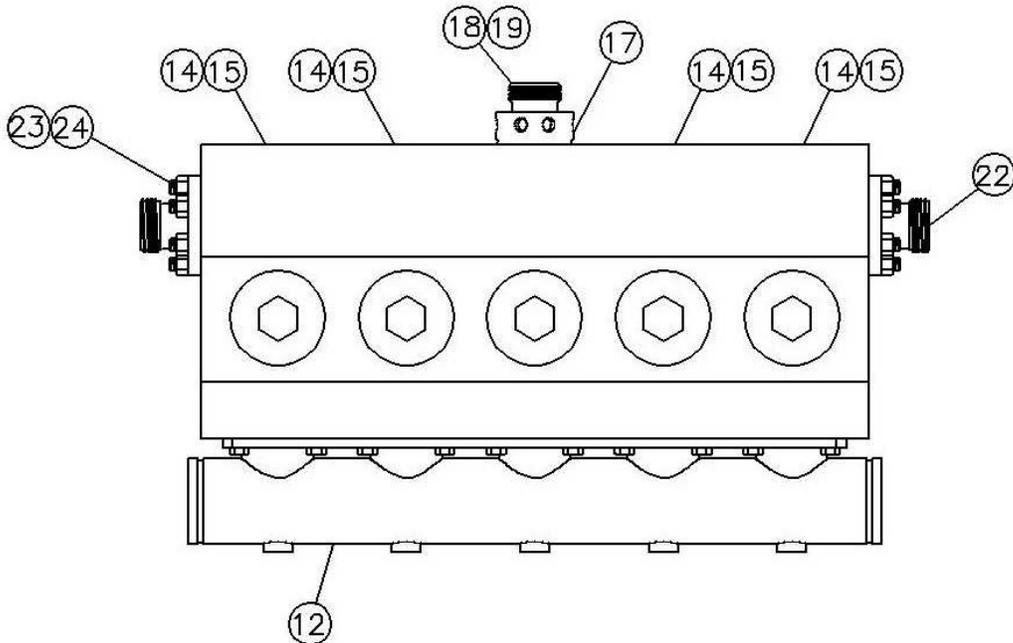
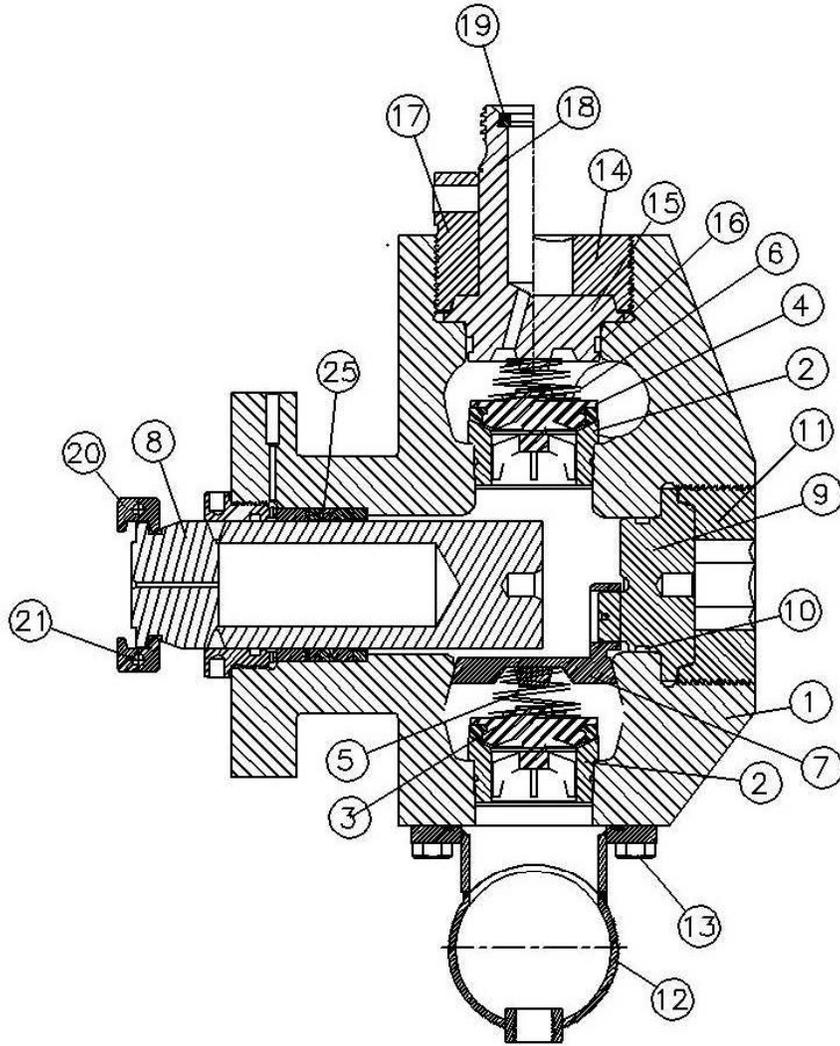
4.5" GWS FLUID CYLINDER ASSEMBLY



4.5" GWS FLUID CYLINDER ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	Fluid Cylinder, 4.5" GWS	1	PP1003985
2	Valve Seat (Suction and Discharge) – Mission	10	928SH01-1
	Valve Seat (Suction and Discharge) – Novatech	10	100241
3	Suction Valve – Mission	5	927VP010-004
	Suction Valve – Novatech	5	101469
4	Discharge Valve – Mission	5	927VP010-004
	Discharge Valve – Novatech	5	101469
5	Valve Spring – Suction	5	918PN05
6	Valve Spring – Discharge	5	918PN05
7	Suction Spring Retainer – Valve Stop	5	PP1004022
8	Plunger – 16" Long (Standard)	5	512893000
	Plunger – 16" Long Pump Saver	5	157AD002
9	Suction Valve Cover	5	320TLS147
10	Seal, Suction Valve Cover	5	306TLS316
11	Retainer Nut – Suction Valve Cover	5	309TLS205
12	Suction Manifold	1	See Pages 31-34
13	Screw	20	75A230
14	Retainer Nut – Discharge Valve Cover – Plain	4	309TLS205
15	Discharge Valve Cover – Plain	4	322TLS147
16	Seal, Discharge Valve Cover	5	306TLS316
17	Retainer Nut – Discharge Valve Cover – Gage	1	315TLS205
18	Discharge Valve Cover – 2" 1502 Gauge Connection	1	PP1004025
19	Seal – 2" 1502 Weco	1	901SH06-1
20	Plunger Clamp	5	342-C-76
21	Screw	10	2009617
22	Discharge Flanges	2	See Pages 25-29
23	Stud	12	450VP005-034
24	Hex Nut	12	50B34
25	Packing Group	5	See Pages 20-24

5" GWS FLUID CYLINDER ASSEMBLY



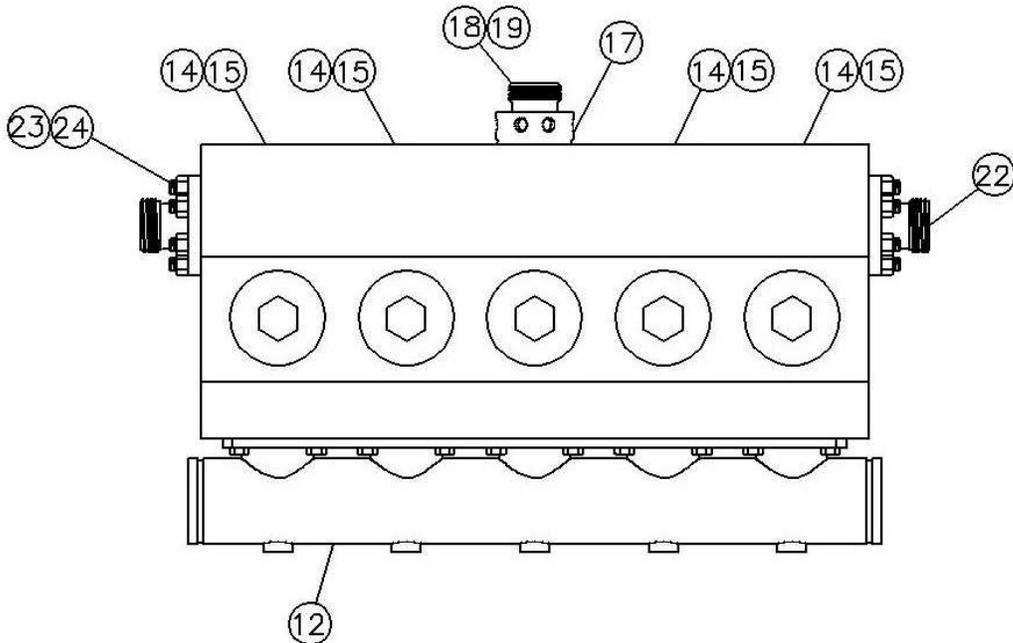
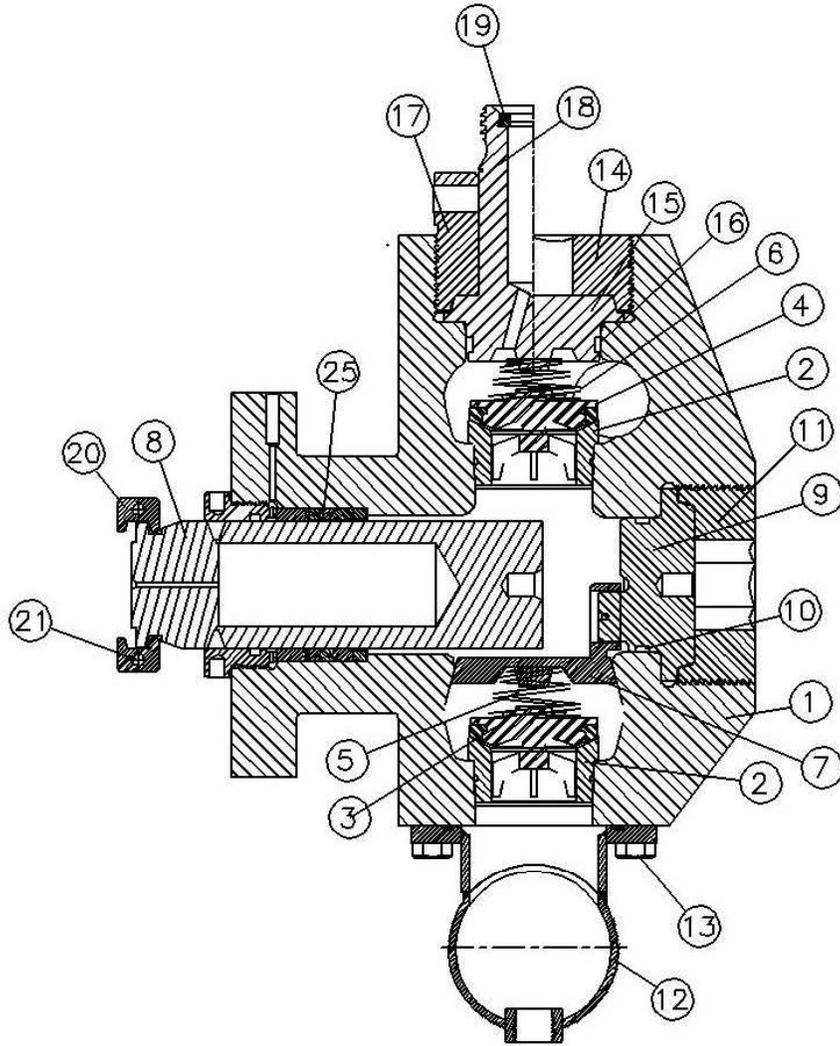
5" GWS FLUID CYLINDER ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	Fluid Cylinder, 5" GWS	1	PP1003450
2	Valve Seat (Suction and Discharge) – Mission	10	928SH01-1
	Valve Seat (Suction and Discharge) – Novatech	10	100241
3	Suction Valve – Mission	5	927VP010-004
	Suction Valve – Novatech	5	101469
4	Discharge Valve – Mission	5	927VP010-004
	Discharge Valve – Novatech	5	101469
5	Valve Spring – Suction	5	918PN05
6	Valve Spring – Discharge	5	918PN05
7	Suction Spring Retainer – Valve Stop	5	PP1004022
8	Plunger – 16" Long (Standard)	5	478640000
	Plunger – 16" Long Pump Saver	5	157AD007
9	Suction Valve Cover	5	320TLS147
10	Seal, Suction Valve Cover	5	306TLS316
11	Retainer Nut – Suction Valve Cover	5	309TLS205
12	Suction Manifold	1	See Pages 31-34
13	Screw	20	75A230
14	Retainer Nut – Discharge Valve Cover – Plain	4	309TLS205
15	Discharge Valve Cover – Plain	4	322TLS147
16	Seal, Discharge Valve Cover	5	306TLS316
17	Retainer Nut – Discharge Valve Cover – Gage	1	315TLS205
18	Discharge Valve Cover – 2" 1502 Gauge Connection	1	PP1004025
19	Seal – 2" 1502 Weco	1	901SH06-1
20	Plunger Clamp	5	342-C-77
21	Screw	10	2009617
22	Discharge Flanges	2	See Pages 25-29
23	Stud	12	450VP005-034
24	Hex Nut	12	50B34
25	Packing Group	5	See Pages 20-24

5.5" GWS FLUID CYLINDER ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	Fluid Cylinder, 5.5" GWS	1	PP1005151
2	Valve Seat (Suction and Discharge) – Mission	10	928SH01-6
	Valve Seat (Suction and Discharge) – Novatech	10	100153
3	Suction Valve – Mission	5	927VP010-005
	Suction Valve – Novatech	5	101470
4	Discharge Valve – Mission	5	927VP010-005
	Discharge Valve – Novatech	5	101470
5	Valve Spring – Suction	5	300TLS105
6	Valve Spring – Discharge	5	300TLS105
7	Suction Spring Retainer – Valve Stop	5	PP1004022
8	Plunger – 16" Long (Standard)	5	478658000
	Plunger – 16" Long Pump Saver	5	157AD005
9	Suction Valve Cover	5	PP1004342
10	Seal, Suction Valve Cover	5	301TLS316
11	Retainer Nut – Suction Valve Cover	5	309TLS205
12	Suction Manifold	1	See Pages 31-34
13	Screw	20	75A230
14	Retainer Nut – Discharge Valve Cover – Plain	4	309TLS205
15	Discharge Valve Cover – Plain	4	317TLS147
16	Seal, Discharge Valve Cover	5	301TLS316
17	Retainer Nut – Discharge Valve Cover – Gage	1	315TLS205
18	Discharge Valve Cover – 2" 1502 Gauge Connection	1	PP1004826
19	Seal – 2" 1502 Weco	1	901SH06-1
20	Plunger Clamp	5	342-C-77
21	Screw	10	2009617
22	Discharge Flanges	2	See Pages 25-29
23	Stud	12	450VP005-034
24	Hex Nut	12	50B34
25	Packing Group	5	See Pages 20-24

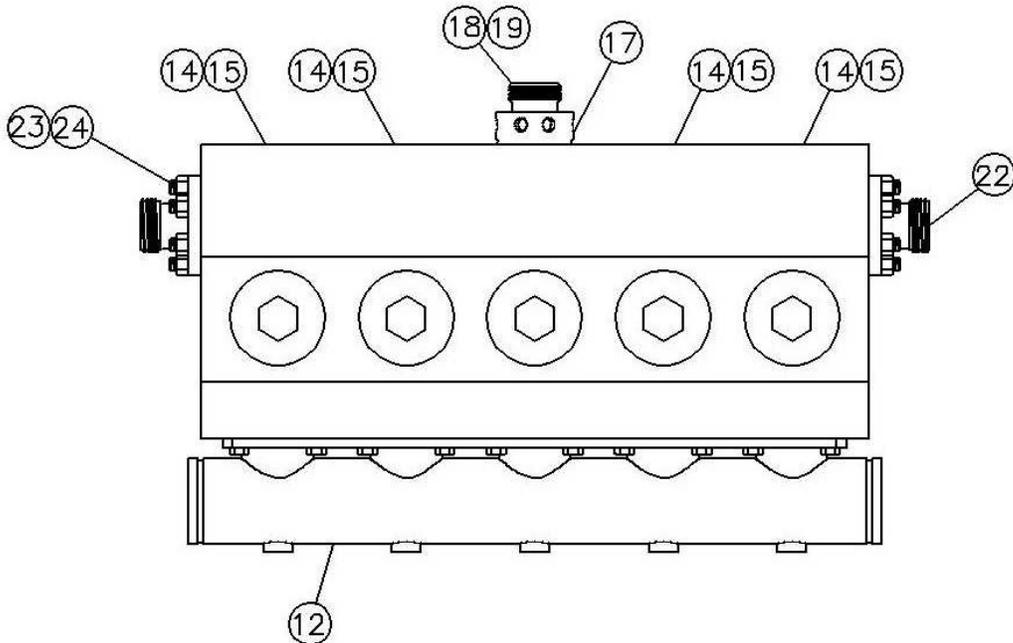
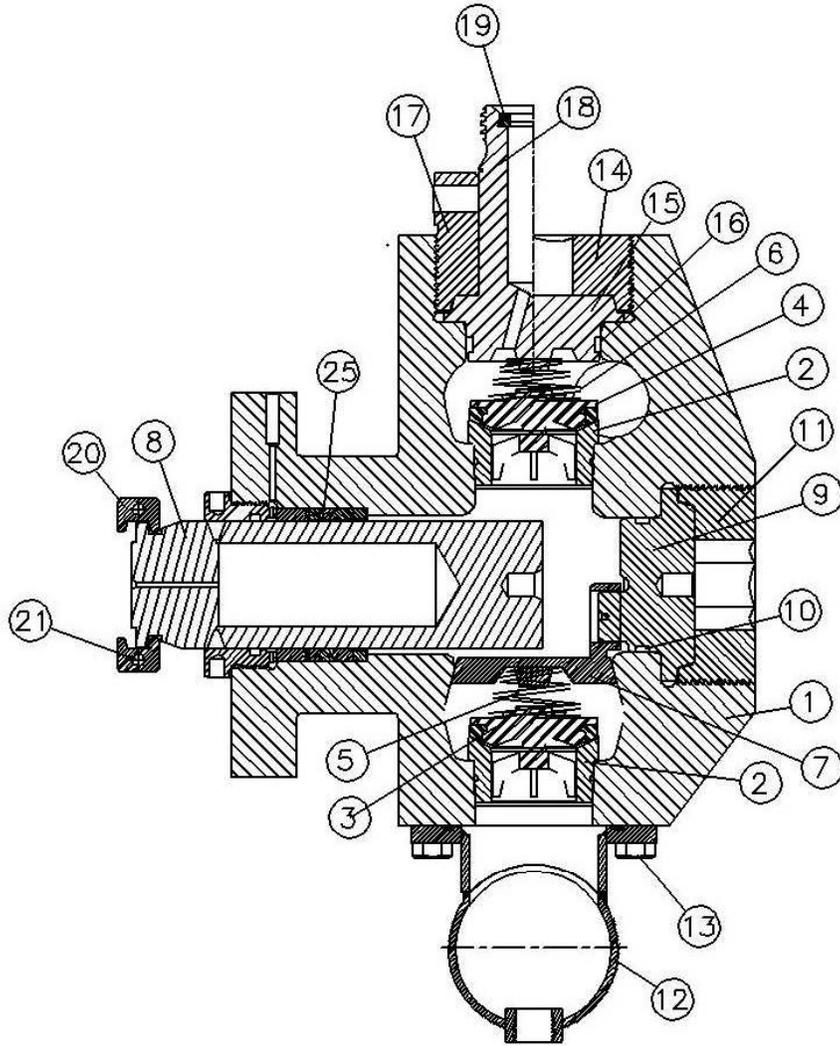
5.75" GWS FLUID CYLINDER ASSEMBLY



5.75" GWS FLUID CYLINDER ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	Fluid Cylinder, 5.75" GWS	1	PP1007623
2	Valve Seat (Suction and Discharge) – Mission	10	928SH01-6
	Valve Seat (Suction and Discharge) – Novatech	10	100153
3	Suction Valve – Mission	5	927VP010-005
	Suction Valve – Novatech	5	101470
4	Discharge Valve – Mission	5	927VP010-005
	Discharge Valve – Novatech	5	101470
5	Valve Spring – Suction	5	300TLS105
6	Valve Spring – Discharge	5	300TLS105
7	Suction Spring Retainer – Valve Stop	5	PP1004022
8	Plunger – 16" Long (Standard)	5	210OPB038
	Plunger – 16" Long Pump Saver	5	157AD004
9	Suction Valve Cover	5	PP1004342
10	Seal, Suction Valve Cover	5	301TLS316
11	Retainer Nut – Suction Valve Cover	5	309TLS205
12	Suction Manifold	1	See Pages 31-34
13	Screw	20	75A230
14	Retainer Nut – Discharge Valve Cover – Plain	4	309TLS205
15	Discharge Valve Cover – Plain	4	317TLS147
16	Seal, Discharge Valve Cover	5	301TLS316
17	Retainer Nut – Discharge Valve Cover – Gage	1	315TLS205
18	Discharge Valve Cover – 2" 1502 Gauge Connection	1	PP1004826
19	Seal – 2" 1502 Weco	1	901SH06-1
20	Plunger Clamp	5	342-C-77
21	Screw	10	2009617
22	Discharge Flanges	2	See Pages 25-29
23	Stud	12	450VP005-034
24	Hex Nut	12	50B34
25	Packing Group	5	See Pages 20-24

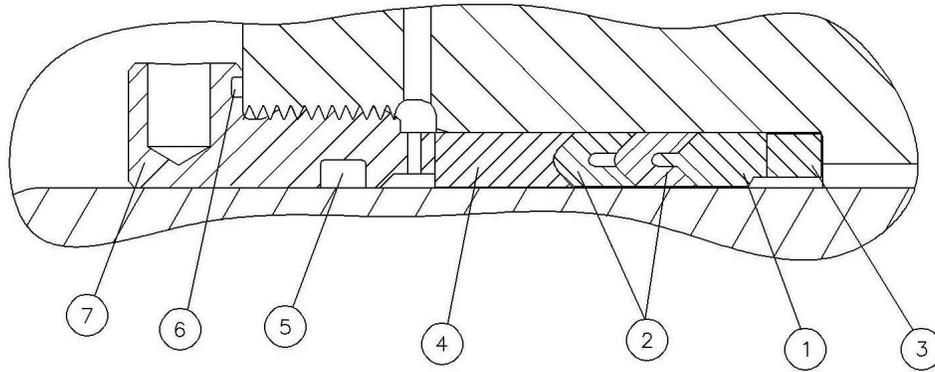
6" GWS FLUID CYLINDER ASSEMBLY



6" GWS FLUID CYLINDER ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	Fluid Cylinder, 6" GWS	1	PP1005366
2	Valve Seat (Suction and Discharge) – Mission	10	928SH01-6
	Valve Seat (Suction and Discharge) – Novatech	10	100153
3	Suction Valve – Mission	5	927VP010-005
	Suction Valve – Novatech	5	101470
4	Discharge Valve – Mission	5	927VP010-005
	Discharge Valve – Novatech	5	101470
5	Valve Spring – Suction	5	300TLS105
6	Valve Spring – Discharge	5	300TLS105
7	Suction Spring Retainer – Valve Stop	5	PP1004022
8	Plunger – 16" Long (Standard)	5	211OPB038
	Plunger – 16" Long Pump Saver	5	157AD006
9	Suction Valve Cover	5	PP1005365
10	Seal, Suction Valve Cover	5	VP1028128
11	Retainer Nut – Suction Valve Cover	5	309TLS205
12	Suction Manifold	1	See Pages 31-34
13	Screw	20	75A230
14	Retainer Nut – Discharge Valve Cover – Plain	4	309TLS147
15	Discharge Valve Cover – Plain	4	317TLS147
16	Seal, Discharge Valve Cover	5	301TLS316
17	Retainer Nut – Discharge Valve Cover – Gage	1	315TLS205
18	Discharge Valve Cover – 2" 1502 Gauge Connection	1	PP1004826
19	Seal – 2" 1502 Weco	1	901SH06-1
20	Plunger Clamp	5	342-C-77
21	Screw	10	2009617
22	Discharge Flanges	2	See Pages 25-29
23	Stud	12	450VP005-034
24	Hex Nut	12	50B34
25	Packing Group	5	See Pages 20-24

“RSL” PACKING ASSEMBLY FOR GWS CYLINDER



3.75” RSL PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 3.75”	1	901VP014-004
2	PACKING RING	2	901VP002-004
3	SPACER	1	207WPD144
4	FEMALE ADAPTER	1	203PN001-002
5	WIPER SEAL	1	60AM71
6	O-RING	1	901SH05-256
7	PACKING NUT	1	300THD008

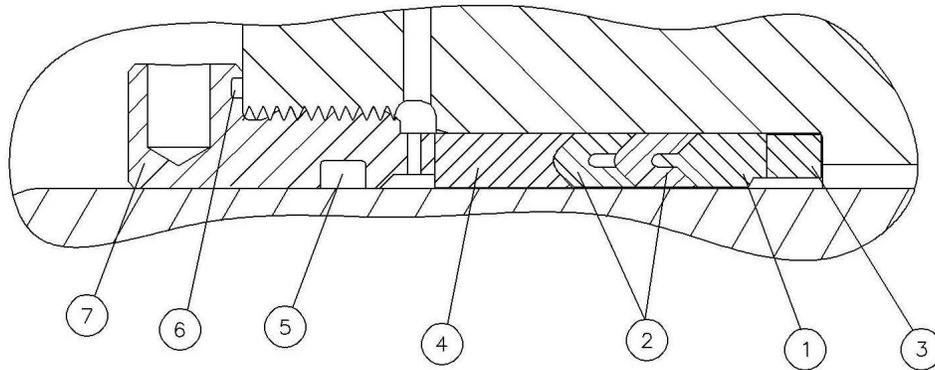
4” RSL PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 4”	1	901VP014-005
2	PACKING RING	2	901VP002-005
3	SPACER	1	203WPD144
4	FEMALE ADAPTER	1	203PN001-003
5	WIPER SEAL	1	60AM84
6	O-RING	1	901SH05-256
7	PACKING NUT	1	301THD008

4.5” RSL PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 4.5”	1	901VP014-014
2	PACKING RING	2	901VP002-014
3	SPACER	1	204WPD144
4	FEMALE ADAPTER	1	203PN001-005
5	WIPER SEAL	1	60AM73
6	O-RING	1	108515
7	PACKING NUT	1	302THD008

"RSL" PACKING ASSEMBLY FOR GWS CYLINDER



5" RSL PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 5"	1	901VP014-009
2	PACKING RING	2	901VP002-009
3	SPACER	1	205WPD144
4	FEMALE ADAPTER	1	203PN001-006
5	WIPER SEAL	1	60AM74
6	O-RING	1	167661
7	PACKING NUT	1	303THD008

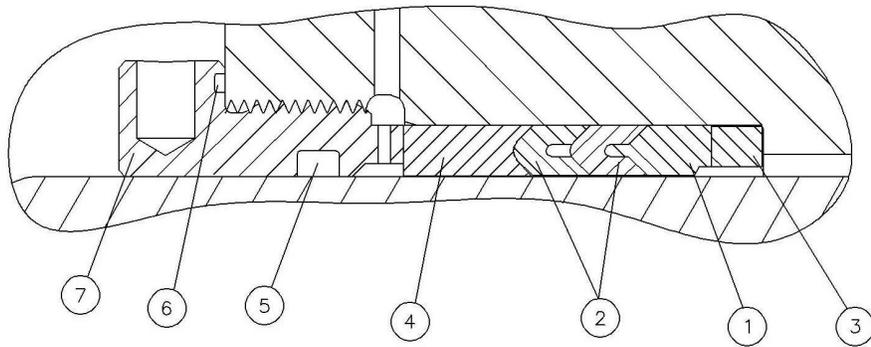
5.5" RSL PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 5.5"	1	901VP014-008
2	PACKING RING	2	901VP002-008
3	SPACER	1	208WPD144
4	FEMALE ADAPTER	1	203PN001-012
5	WIPER SEAL	1	60AM75
6	O-RING	1	901SH05-263
7	PACKING NUT	1	304THD008

5.75" RSL PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 5.75"	1	901VP014-006
2	PACKING RING	2	901VP002-006
3	SPACER	1	209WPD144
4	FEMALE ADAPTER	1	203PN001-010
5	WIPER SEAL	1	60AM85
6	O-RING	1	108516
7	PACKING NUT	1	305THD008

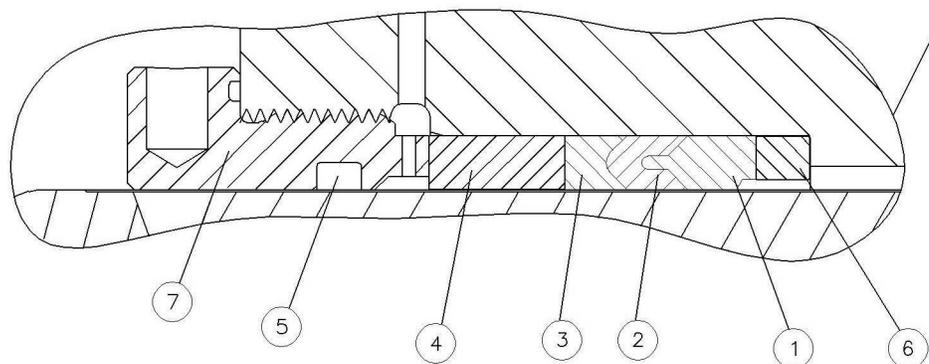
“RSL” PACKING ASSEMBLY FOR GWS CYLINDER



6” RSL PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 6”	1	901VP014-007
2	PACKING RING	2	901VP002-007
3	SPACER	1	210WPD144
4	FEMALE ADAPTER	1	203PN001-011
5	WIPER SEAL	1	60AM76
6	O-RING	1	108516
7	PACKING NUT	1	306THD008

“CDI” PACKING ASSEMBLY FOR GWS CYLINDER



3.75” CDI PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 3.75”	1	595703000
2	PRESSURE RING	1	595695000
3	FEMALE ADAPTER	1	595687000
4	SPACER	1	595719000
5	WIPER SEAL	1	60AM71
6	JUNK RING	1	304OPE317
7	PACKING NUT	1	300OPE008

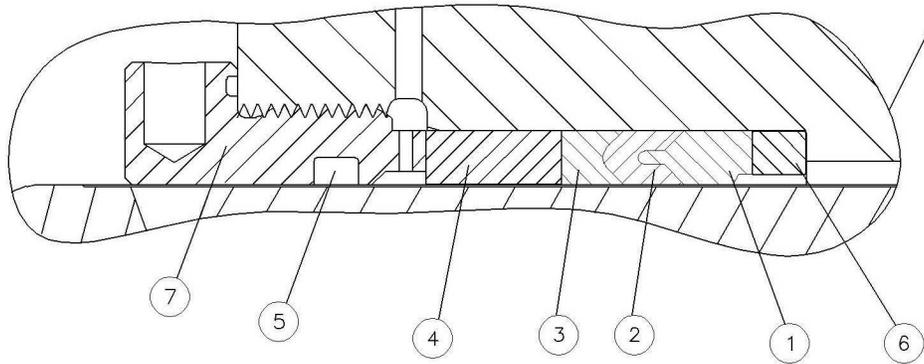
4” CDI PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 4”	1	303OPE222
2	PRESSURE RING	1	310OPE222
3	FEMALE ADAPTER	1	309OPE170
4	SPACER	1	303OPE144
5	WIPER SEAL	1	60AM84
6	JUNK RING	1	305OPE317
7	PACKING NUT	1	301OPE008

4.5” CDI PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 4.5”	1	595704000
2	PRESSURE RING	1	595696000
3	FEMALE ADAPTER	1	595688000
4	SPACER	1	595720000
5	WIPER SEAL	1	60AM73
6	JUNK RING	1	306OPE317
7	PACKING NUT	1	302OPE008

“CDI” PACKING ASSEMBLY FOR GWS CYLINDER



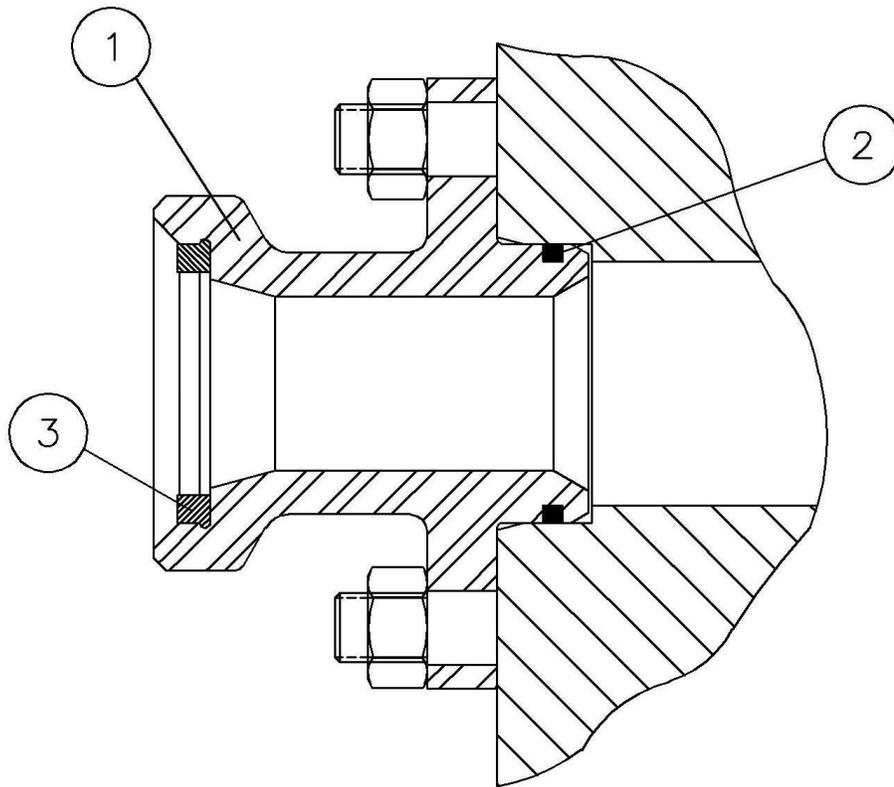
5” CDI PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 5”	1	595705000
2	PRESSURE RING	1	595697000
3	FEMALE ADAPTER	1	595689000
4	SPACER	1	595721000
5	WIPER SEAL	1	60AM74
6	JUNK RING	1	307OPE317
7	PACKING NUT	1	303OPE008

5.5” CDI PACKING ASSEMBLY

Ref No.	Name of Part	Qty.	Part No.
1	HEADER RING, 5.5”	1	595706000
2	PRESSURE RING	1	595698000
3	FEMALE ADAPTER	1	595690000
4	SPACER	1	595723000
5	WIPER SEAL	1	60AM75
6	JUNK RING	1	308OPE317
7	PACKING NUT	1	304OPE008

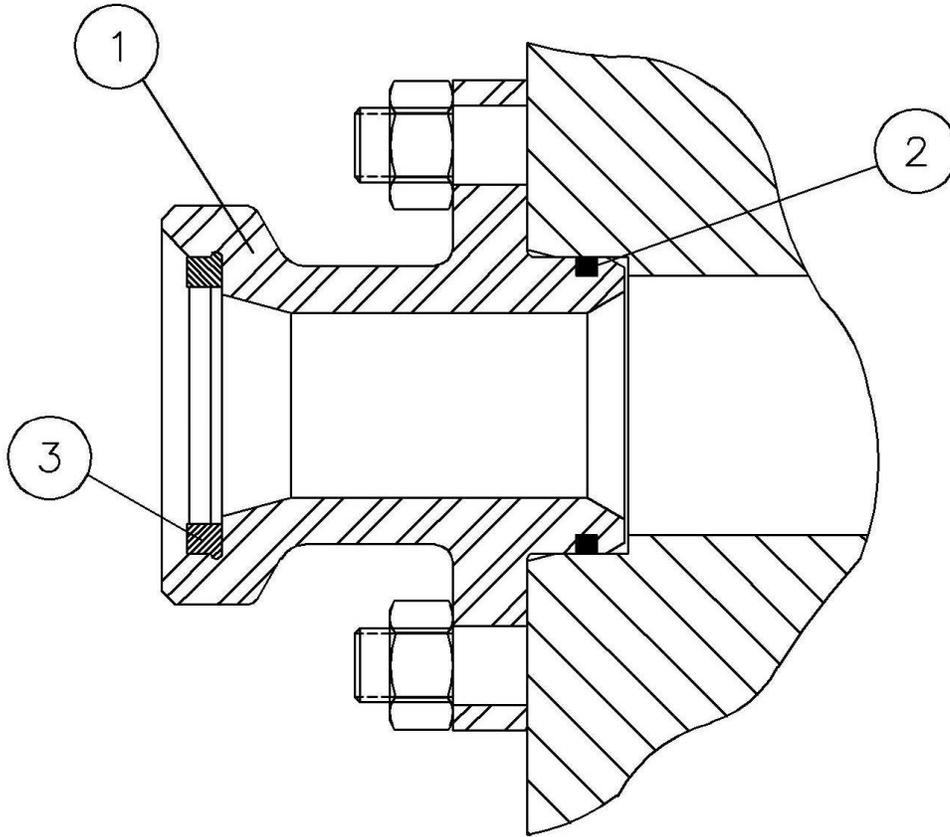
3" 1002 HAMMER UNION DISCHARGE FLANGE



5-1/2" TO 6" FLUID END

Ref No.	Name of Part	Qty.	Part No.
1	3" 1002 Female Flange	1	101328
2	Seal	1	100131
3	Seal - 3" 1002 Weco	1	901SH06-2

3" 1502 FEMALE HAMMER UNION DISCHARGE FLANGE



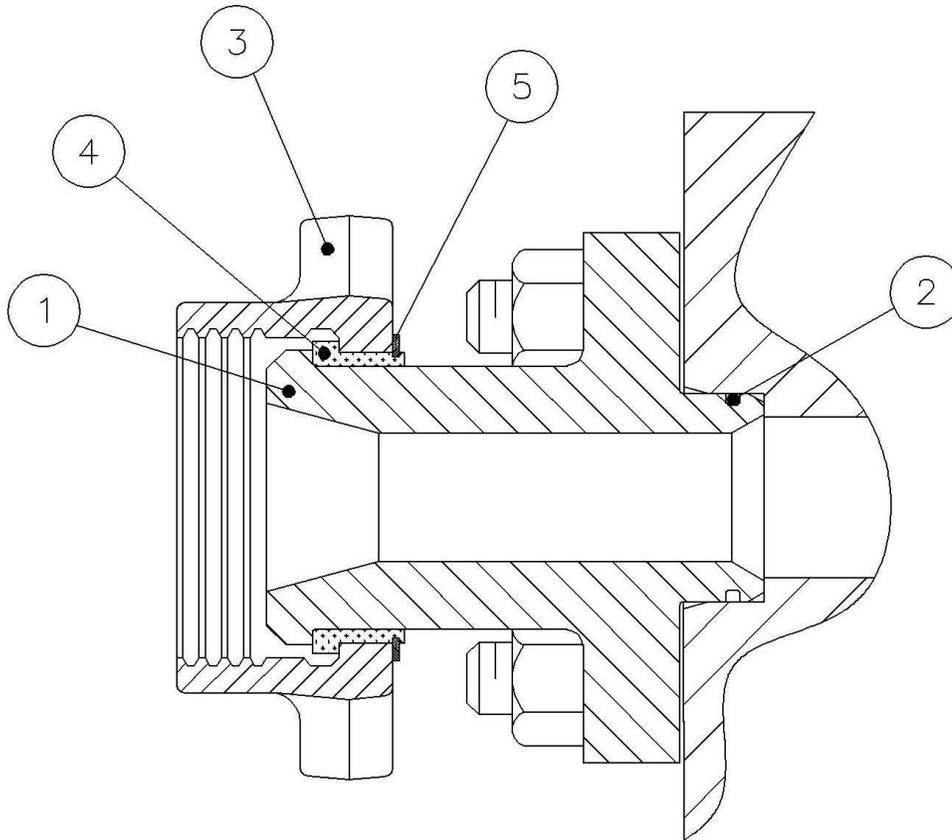
4-1/2" TO 5" FLUID END

Ref No.	Name of Part	Qty.	Part No.
1	3" 1502 Female Flange	1	101348
2	Seal	1	100279
3	Seal – 3" 1502 Weco	1	901SH06-2

5-1/2" TO 6" FLUID END

Ref No.	Name of Part	Qty.	Part No.
1	3" 1502 Female Flange	1	101300
2	Seal	1	101344
3	Seal – 3" 1502 Weco	1	901SH06-2

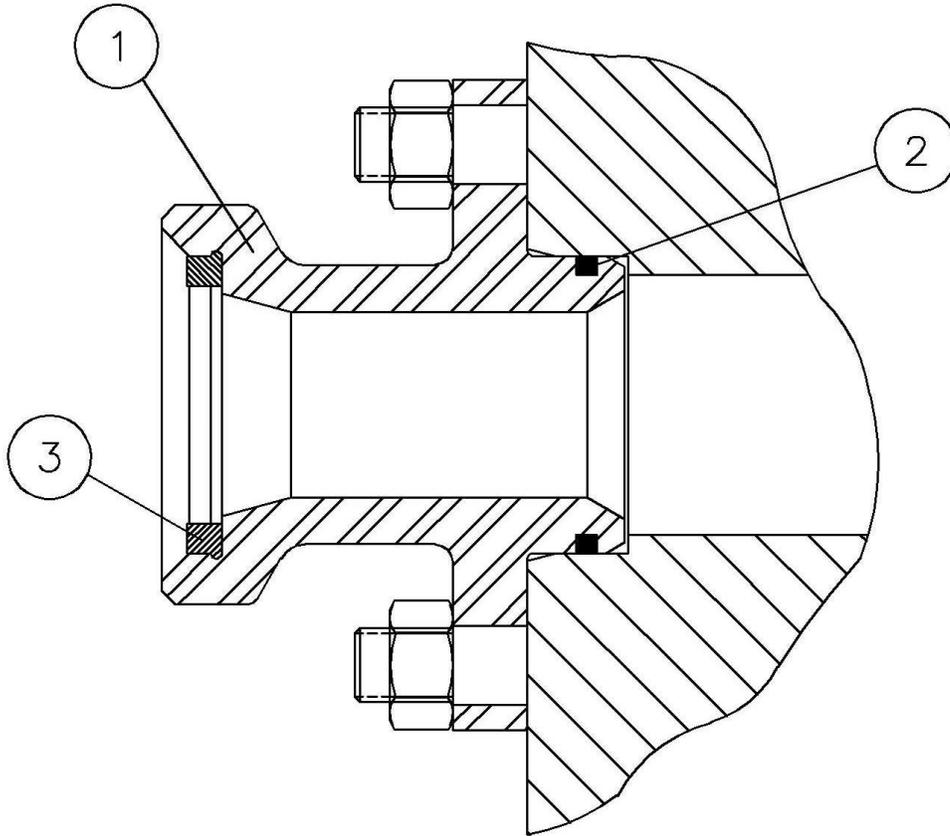
3" 1502 MALE HAMMER UNION DISCHARGE FLANGE



4-1/2" TO 5" FLUID END

Ref No.	Name of Part	Qty.	Part No.
1	3" 1502 Male Flange	1	PP1012368
2	Seal	1	100279
3	Retaining Segments	3	431042090
4	Union Nut	1	431200090
5	Retaining Ring	1	421067000

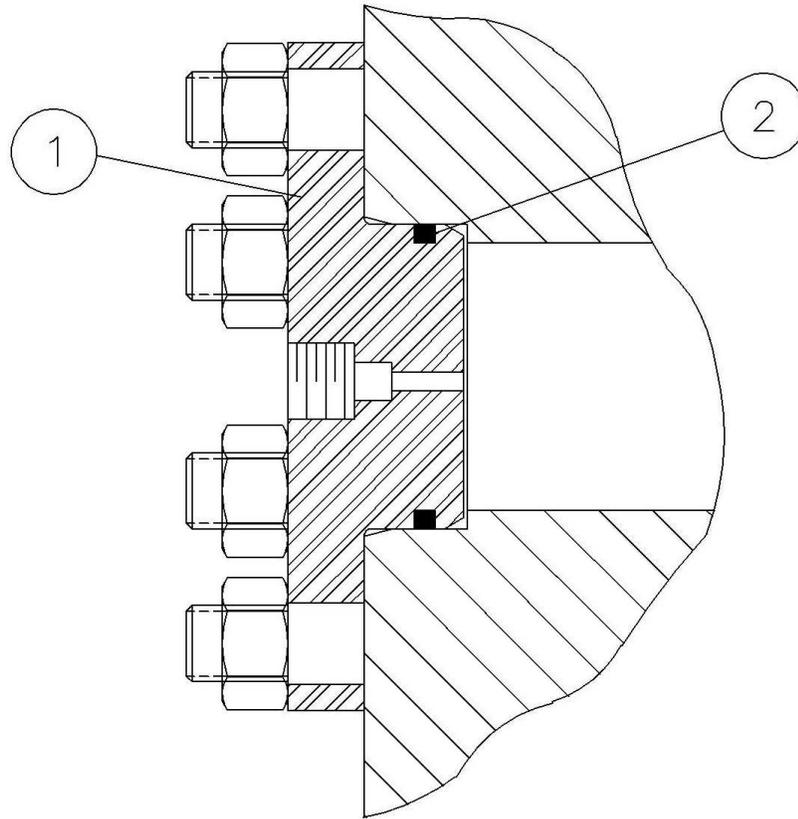
4" 602 HAMMER UNION DISCHARGE FLANGE



5-1/2" TO 6" FLUID END

Ref No.	Name of Part	Qty.	Part No.
1	4" 602 Female Flange	1	101351
2	Seal	1	101344
3	Seal – 4" 602 Weco	1	901SH06-6

BLEED OFF DISCHARGE FLANGE



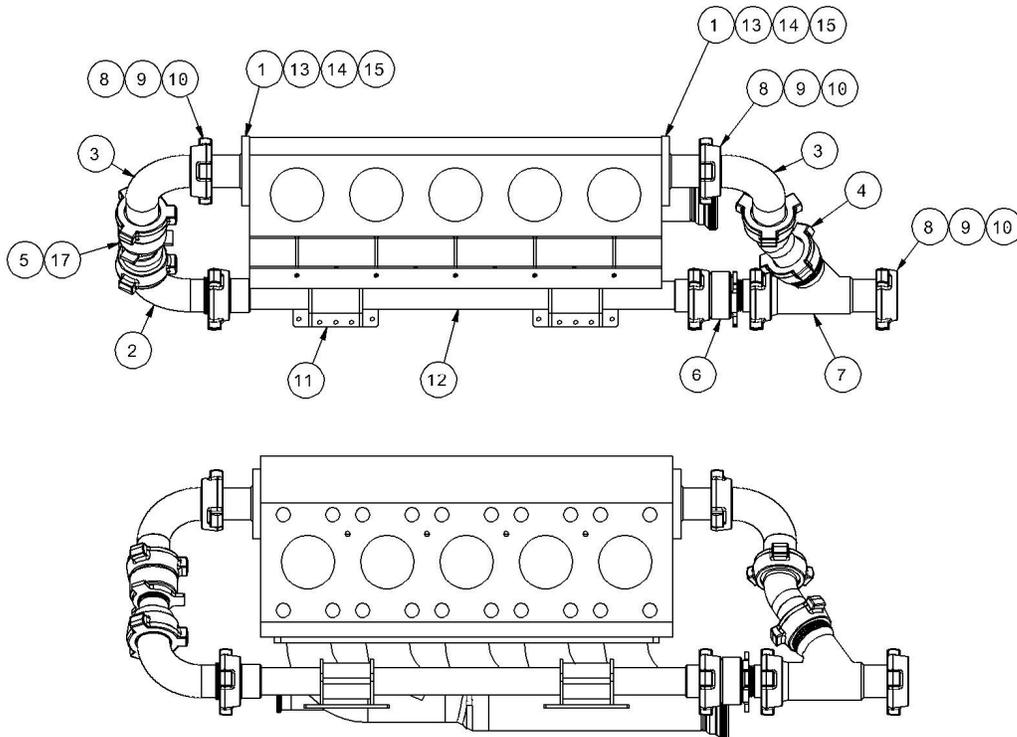
4-1/2" TO 5" FLUID END

Ref No.	Name of Part	Qty.	Part No.
1	Bleed Off Flange	1	100256
2	Seal	1	100131

5-1/2" TO 6" FLUID END

Ref No.	Name of Part	Qty.	Part No.
1	Bleed Off Flange	1	TUL101347
2	Seal	1	101344

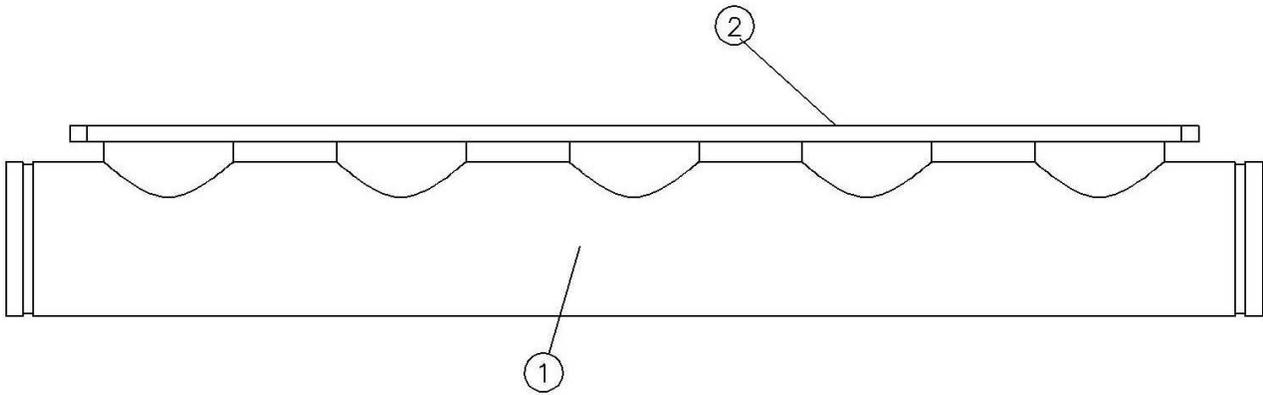
3" DISCHARGE BRIDLE ASSEMBLY



3-3/4" THRU 5" FLUID ENDS ONLY

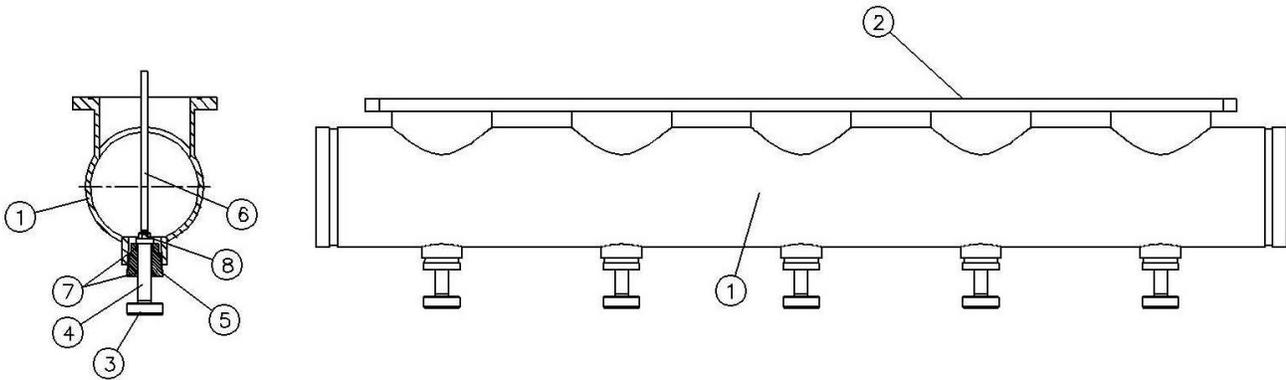
Ref No.	Name of Part	Qty.	Part No.
1	Discharge Flanges	2	PP1012368
2	Elbow, 90 Deg Male X Male w/Nuts	1	520574000
3	Elbow, 90 Deg. Male X Female w/Nut	2	PP1010848
4	Elbow, 30 Deg. Male X Female w/Nut	1	520573000
5	Treating Adapter Assembly, Female X Female	1	520916000
6	Treating Adapter Assembly, Male X Female	1	479105000
7	3" Lateral	1	430502090
8	Union Nut	3	431200090
9	Retaining Segments	9	431042090
10	Retaining Ring	3	421067000
11	Pipe Support	2	521007000
12	Pup Joint	1	PP1010238
13	Seal, Flange to Fluid End	2	100279
14	Stud, Discharge Flange	12	450VP005-034
15	Hex Nut	12	50B34
16	Seal, 3" Weco Anti-Extrusion	9	449373000
17	Spacer, Treating Adapter Assembly .125" Long	*	476153000
	Spacer, Treating Adapter Assembly .188" Long	*	476154000
	Spacer, Treating Adapter Assembly .25" Long	*	476155000
	Spacer, Treating Adapter Assembly .313" Long	*	476156000
*	(Order length and quantity as needed)		

6" SUCTION MANIFOLD WITH VICTAULIC ENDS



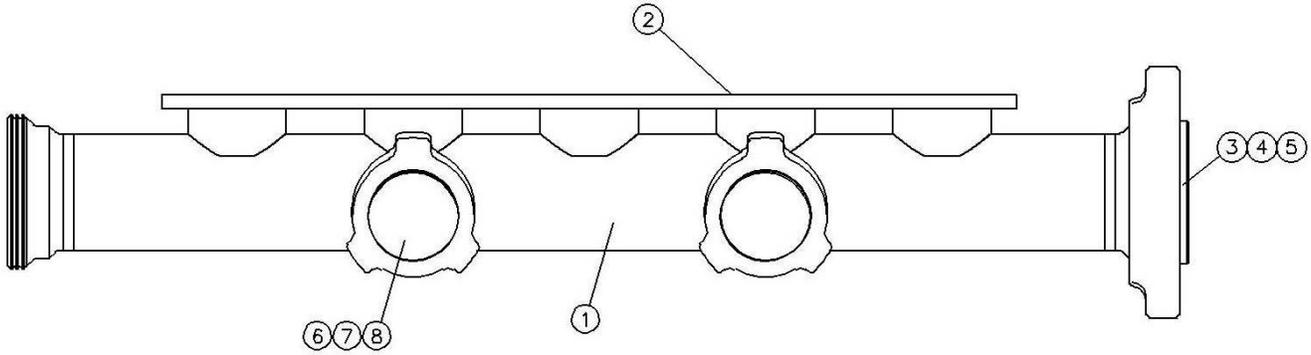
Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	104209
2	O-ring	5	107992

6" SUCTION MANIFOLD WITH VICTAULIC ENDS AND VALVE LIFTERS



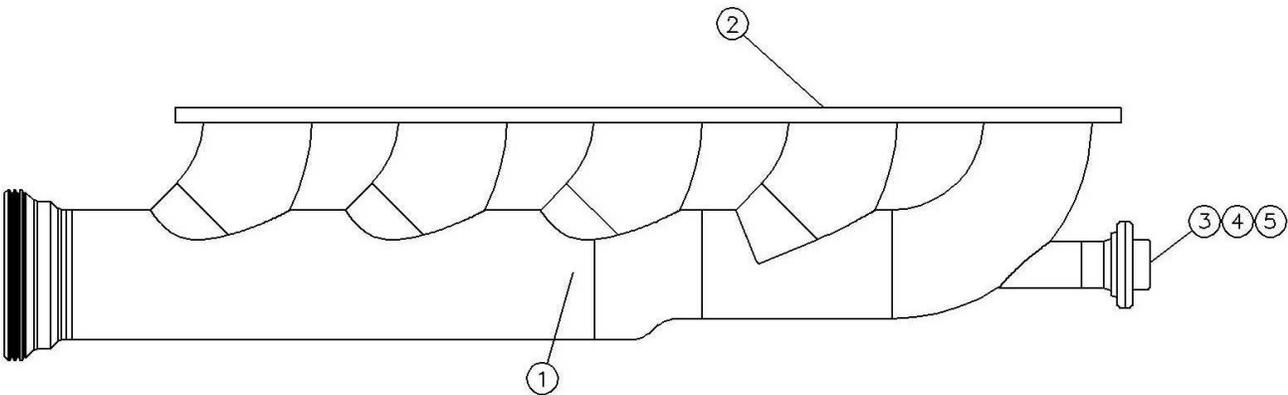
Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	TUL101346
2	O-ring	5	107992
3	Lifter Disc	5	595PN01
4	Lifter Shaft	5	595PN02
5	Coupling	5	102487-1
6	Push Rod	5	595PN04
7	O-ring	5	107956
8	Hex Nut	5	50AQ3

6" CO2 SUCTION MANIFOLD ASSEMBLY WITH CLEANOUTS



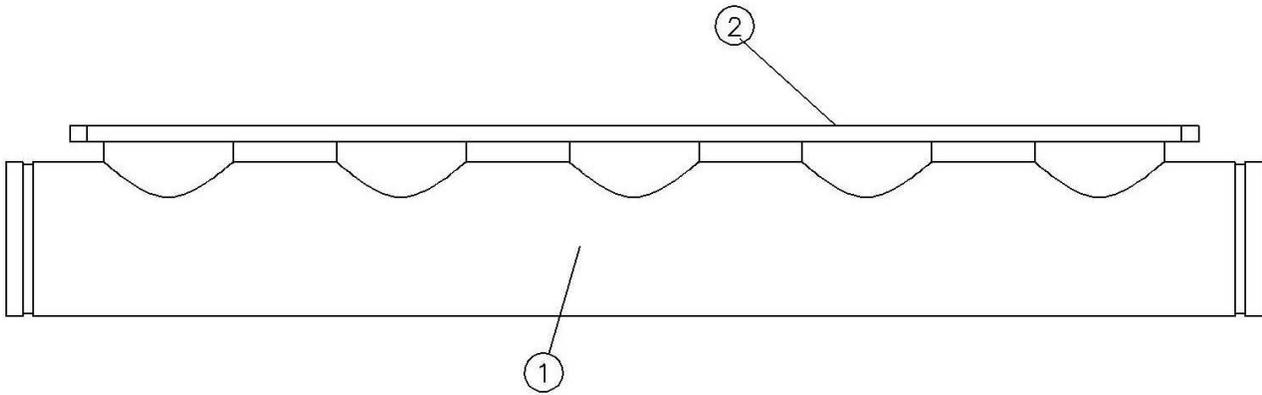
Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	PP1009502
2	O-ring – Fluid End	5	107992
3	Plug – End	1	VP1009631
4	Wing Nut – End Plug	1	VP1009630
5	O-ring – End Plug	1	107992
6	Plug – Cleanout	2	64EB876
7	Wing Nut – Cleanout	2	64EB875
8	O-ring – Cleanout	2	124642

6" ZOOMIE SUCTION MANIFOLD ASSEMBLY THREADED INLET



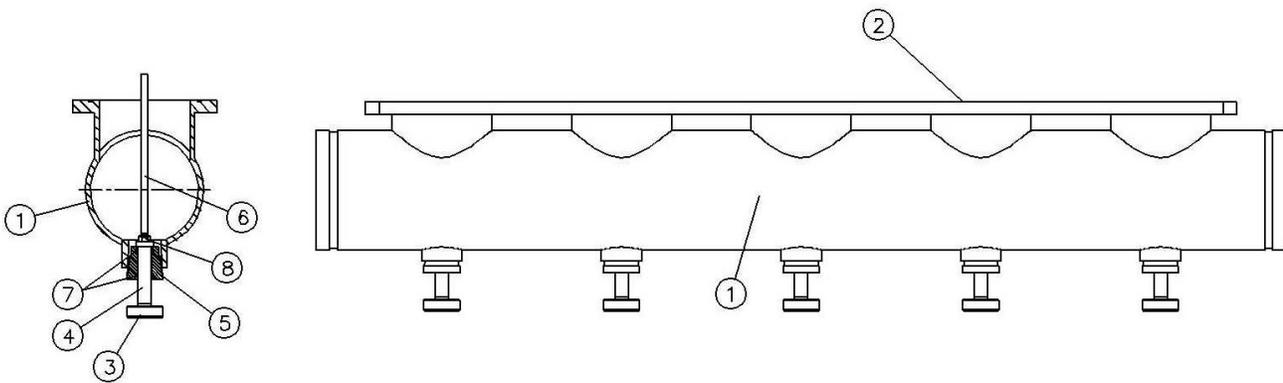
Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	PP1010837
2	O-ring – Fluid End	5	107992
3	End Plug	1	501002
4	O-ring – End Plug	1	108502
5	Wing Nut	1	PP1000686

8" SUCTION MANIFOLD WITH VICTAULIC ENDS



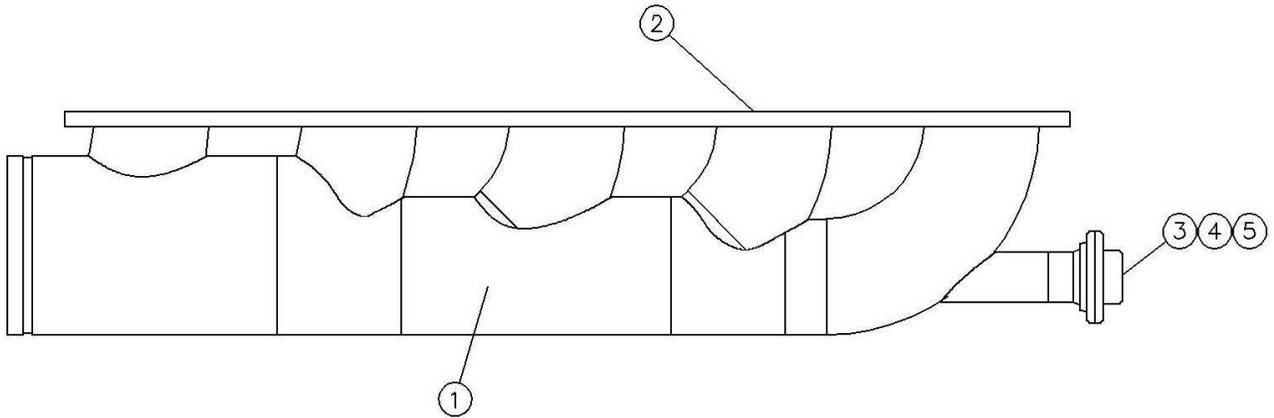
Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	PP1005259
2	O-ring	5	107992

8" SUCTION MANIFOLD WITH VICTAULIC ENDS AND VALVE LIFTERS



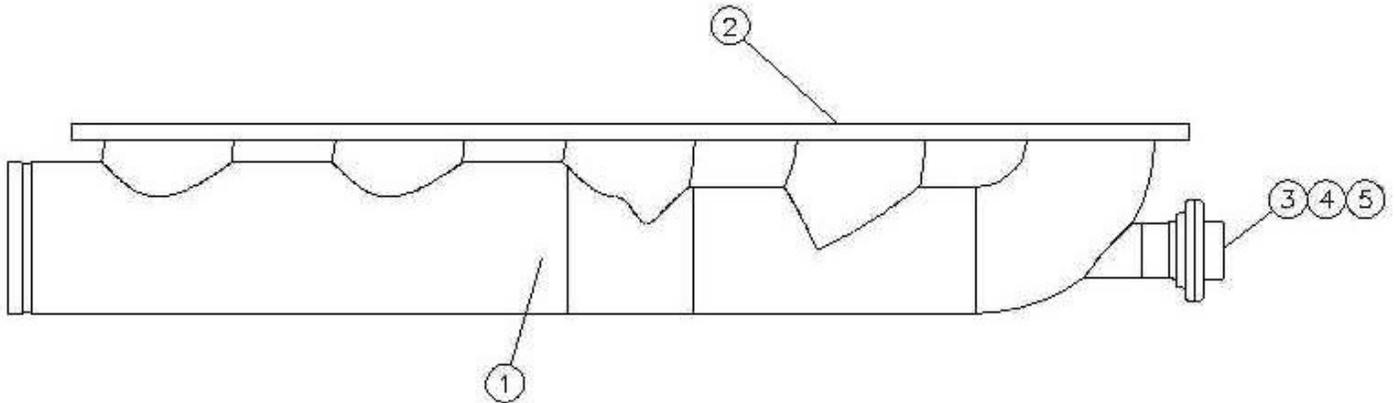
Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	101304
2	O-ring	5	107992
3	Lifter Disc	5	595PN01
4	Lifter Shaft	5	595PN02
5	Coupling	5	102487-1
6	Push Rod	5	595PN04
7	O-ring	5	107956
8	Hex Nut	5	50AQ3

8" ZOOMIE SUCTION MANIFOLD ASSEMBLY WITH VICTAULIC END



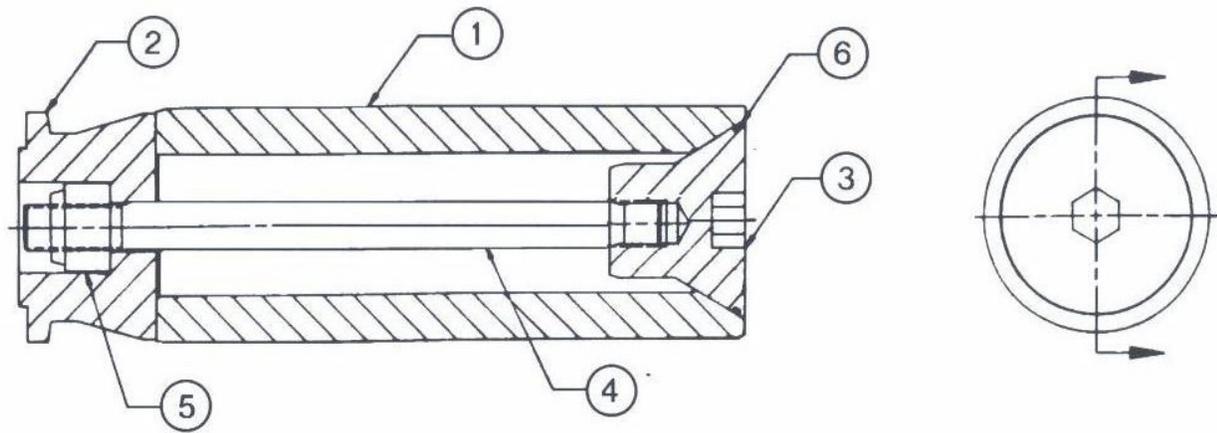
Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	PP1000405
2	O-ring – Fluid End	5	107992
3	End Plug	1	501002
4	O-ring – End Plug	1	108502
5	Wing Nut	1	PP1000686

6" LOW PROFILE ZOOMIE SUCTION MANIFOLD ASSEMBLY WITH VICTAULIC END



Ref No.	Name of Part	Qty.	Part No.
1	Suction Manifold	1	PP1017992
2	O-ring – Fluid End	5	107992
3	End Plug	1	501002
4	O-ring – End Plug	1	108502
5	Wing Nut	1	PP1000686

PUMP SAVE PLUNGER ASSEMBLY (16" LONG)



Ref. No.	Name of Part	Qty.	3-3/4" 157AD003	4" 157AD009	4-1/2" 157AD002
1	PLUNGER BODY	1	411PN002	411PN003	411PN001
2	PLUNGER CAP END	1	255PN002	255PN003	255PN001
3	PLUNGER NOSE PLUG ..	1	974PN002	974PN002	974PN001
4	TENSIONING STUD.....	1	450PN001	450PN001	450PN001
5	HEX NUT W/ INSERT	1	50V3	50V3	50V3
6	O-RING.....	1	108504	108504	901SH05-240

Ref. No.	Name of Part	Qty.	5" 157AD007	5-1/2" 157AD005	5-3/4" 157AD004
1	PLUNGER BODY	1	411PN004	411PN005	411PN006
2	PLUNGER CAP END	1	255PN004	255PN005	255PN005
3	PLUNGER NOSE PLUG ..	1	974PN001	974PN003	974PN003
4	TENSIONING STUD.....	1	450PN001	450PN001	450PN001
5	HEX NUT W/ INSERT	1	50V3	50V3	50V3
6	O-RING.....	1	901SH05-240	901SH05-249	901SH05-249

Ref. No.	Name of Part	Qty.	6" 157AD006
1	PLUNGER BODY	1	411PN024
2	PLUNGER CAP END	1	255PN005
3	PLUNGER NOSE PLUG ..	1	974PN003
4	TENSIONING STUD.....	1	450PN001
5	HEX NUT W/ INSERT	1	50V3
6	O-RING.....	1	901SH05-249

GWS FLUID END SERVICE TOOLS

Ref No.	Name of Part	Qty.	Part No.
1	Packing Nut Wrench	1	100162
2	3" Hex Wrench	1	342-A-89
3	Slide Hammer Puller	1	590PN006
4	Suction Valve Spring Retainer Installation Tool	1	PP1006746
5	LH Slide Hammer Adapter	1	307TLS170

VALVE SEAT PULLER KITS

Ref No.	Name of Part	Qty.	Part No.
1	3.75" – 4" Valve Seat Puller Kit* (*Includes the following 3 items)	1	402THD6031
	* Seat Puller Jack Assembly	1	102014
	* Puller Head Assembly	1	HG-3
	* Tool Box	1	H-400
2	4.5" – 5" Valve Seat Puller Kit* (*Includes the following 3 items)	1	403THD6031
	* Seat Puller Jack Assembly	1	102014
	* Puller Head Assembly	1	HR-4
	* Tool Box	1	H-400
2	5.5" – 6" Valve Seat Puller Kit* (*Includes the following 3 items)	1	404THD6031
	* Seat Puller Jack Assembly	1	102014
	* Puller Head Assembly	1	HB-5
	* Tool Box	1	H-400



For additional information contact your local representative or
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4747 South 83rd East Avenue, Tulsa, OK 74145
PH: (918) 664-1151, (800) 637-8099
FAX: (918) 664-6225
www.gardnerdenver.com

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