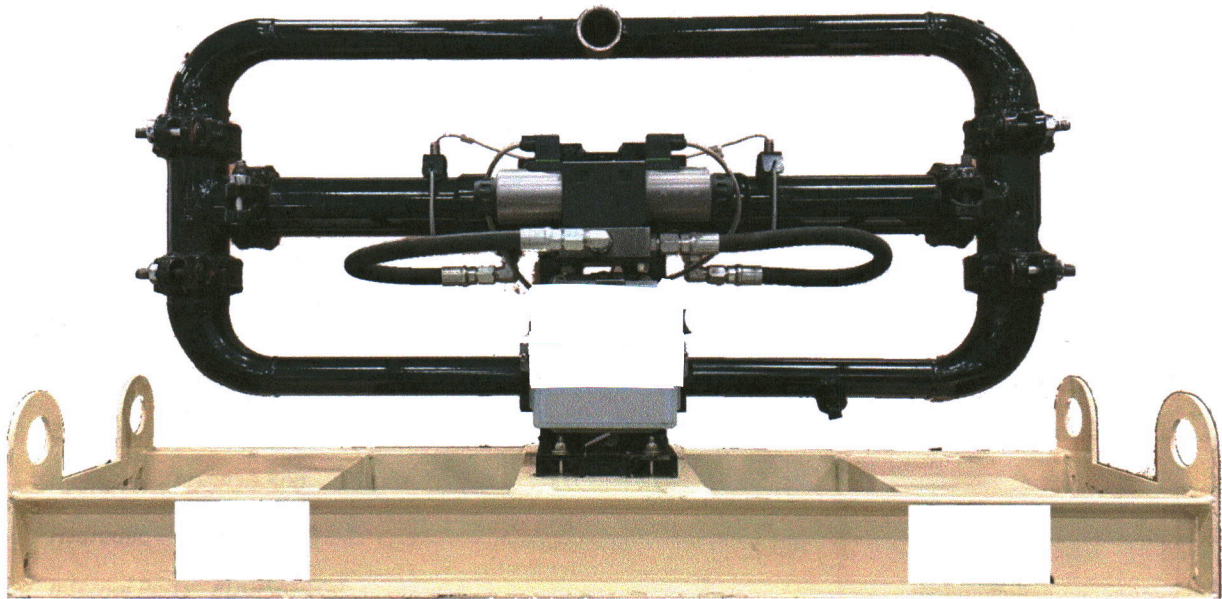


OPERATIONS & PARTS MANUAL

REVISION B, OCTOBER 2022

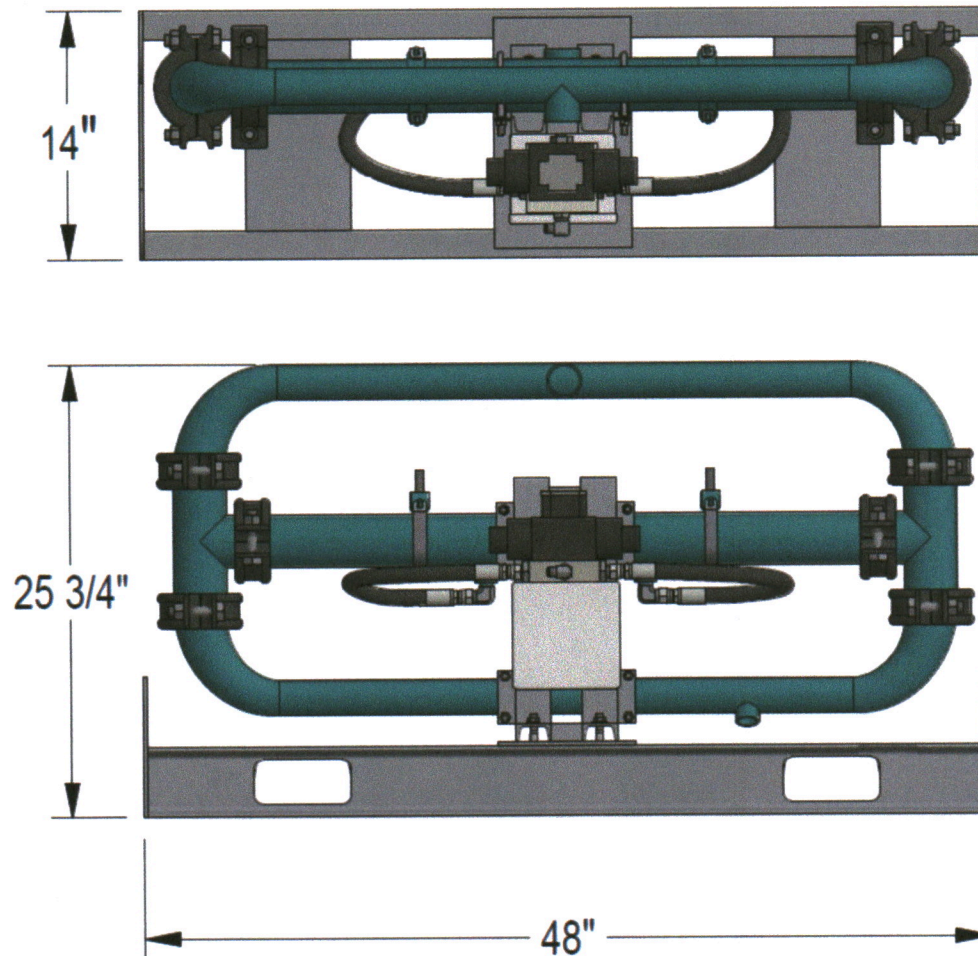
PDGP20

GROUT PUMP



TECHNICAL SPECIFICATIONS

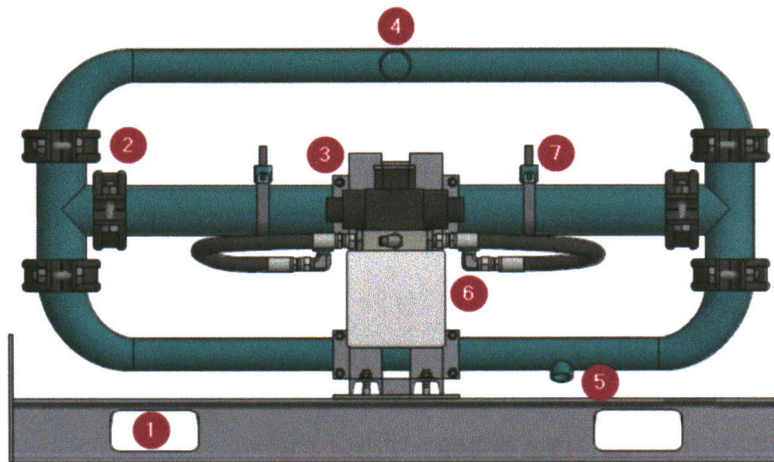
Dimensions



Equipment Specifications

- 20 Gallons per minutes
- Max Pressure:
 - PDGP20-500: 500 psi
 - PDGP20-1000: 1000 psi
- Double action piston
- Weight – 220 lbs.

MACHINE OVERVIEW



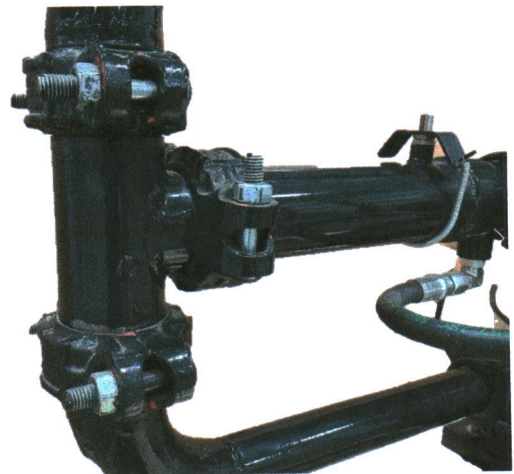
1. FORK POCKET
2. PIPE CLAMPS
3. HYDRAULIC SYSTEM
4. OUTLET PORT
5. DRAIN PORT
6. ELECTRIC PANEL
7. PROXIMITY SENSORS

DAILY OPERATION

DO NOT OPERATE WITHOUT LIQUID

Before beginning a day's operation, the following items should be checked to ensure that the pump is prepared for operation and that no condition exists which will lead to a breakdown.

- Machine Operation
 - The unit is powered from the hydraulic source.
 - Stop the hydraulic power if shutdown is required
- Electrical System
 - Check all wiring for damage, corrosion, or loose connections.
- General Mechanical
 - Check for loose or missing hydraulic, electrical, and grout line connections
 - Check for structural damage.
- Safety Tests
 - The equipment may only be used when all safety devices are in place and in proper working order.
 - Be observant of oil spills from the hydraulic system. If there is a spill, find the cause and repair it. High pressure oil spray can cause severe burns and poisoning.
- Maintenance
 - Flush system after every use until water runs clear



MAINTENANCE

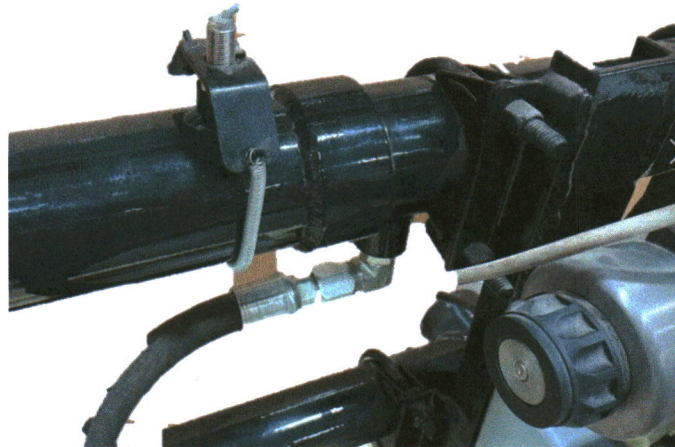
Safety Guidelines for Maintenance

- Have maintenance carried out by only skilled personnel.
- Replace with genuine parts
- Carry out the maintenance at the prescribed intervals.
- Also observe the other manufacturers' service instructions for components of the equipment.

Maintenance

The maintenance for this equipment is organized based on inspection:

- Inspect unit for any hydraulic leaks
 - Replacement of seals
- Pressure not met
 - Balls and seals could require replacement
- Grout leakage
 - Replacement of material seals
- Clean out after every use. Flush until water runs clear.

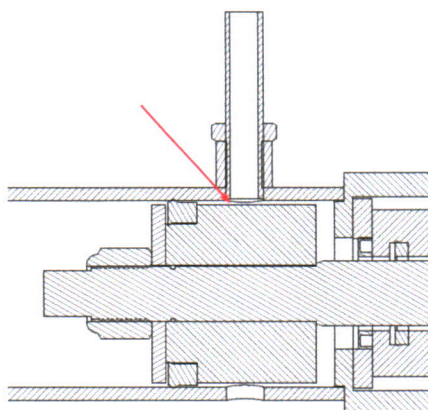


COMPONENTS

Electrical

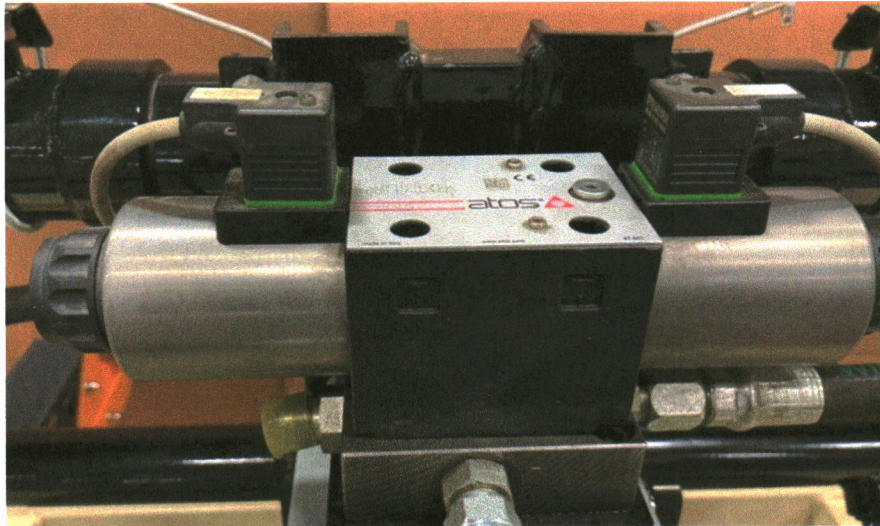


<i>Part Number</i>	<i>Description</i>
W2430116	LABEL - LEFT RIGHT
W2430115	LABEL – AUTO OFF ON
W2139692	ENCLOSURE
W2139631	RELAY SOCKET BASE
W2139556	RELAY
W2139553	PROXIMITY SENSOR *see installation note below*
RP2190020	PROXIMITY SENSOR HOLD
RP2190019	PROXIMITY SENSOR SPRING
W2137182	3-POS MAINTAINED SELECTOR SWITCH
W2137140	3-POS MOMENTARY SELECTOR SWITCH
W2135978	IN-LINE FUSE HOLDER
HB2130014	20A FUSE – BLADE
W5930035	COMPLETE ELECTRICAL PANEL



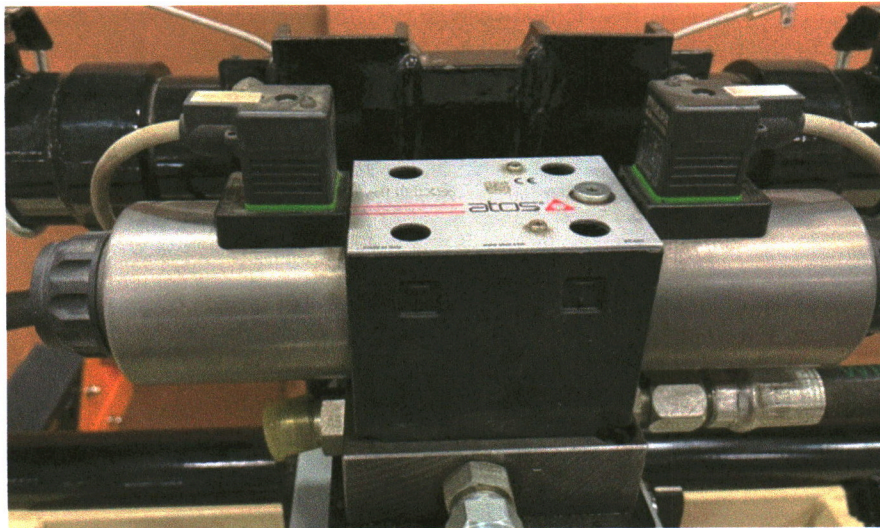
NOTE: For installation of proximity sensor, bottom out prox then back off 1 ½ threads to allow for clearance

Hydraulic – PDGP20-500



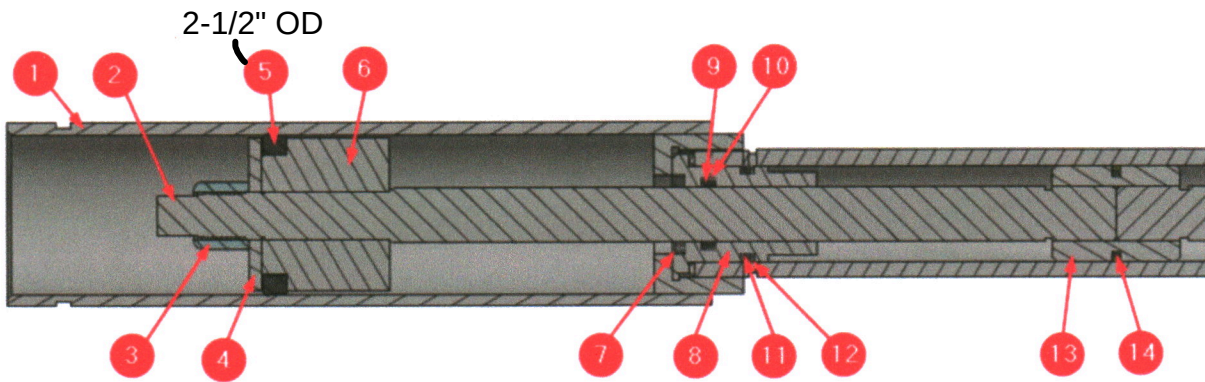
<i>Part Number</i>	<i>Description</i>	<i>QTY</i>
RP2190023	VALVE COIL DS03 PDGP-500	2
RP2190025	REPLACEMENT VALVE PDGP20-500	1
RP2190028	VALVE MANIFOLD DS-03 SERIES PDGP20-500	1
RP2130000	DIN CONNECTOR W LED 12VDC	2
	PRESSURE RELIEF VALVE	1
HA062ST9016.5	HYDRAULIC HOSE, 3/8"	-
RP2190021	VALVE STACK ASSEMBLY – PDGP20-500	-

Hydraulic – PDGP20-1000



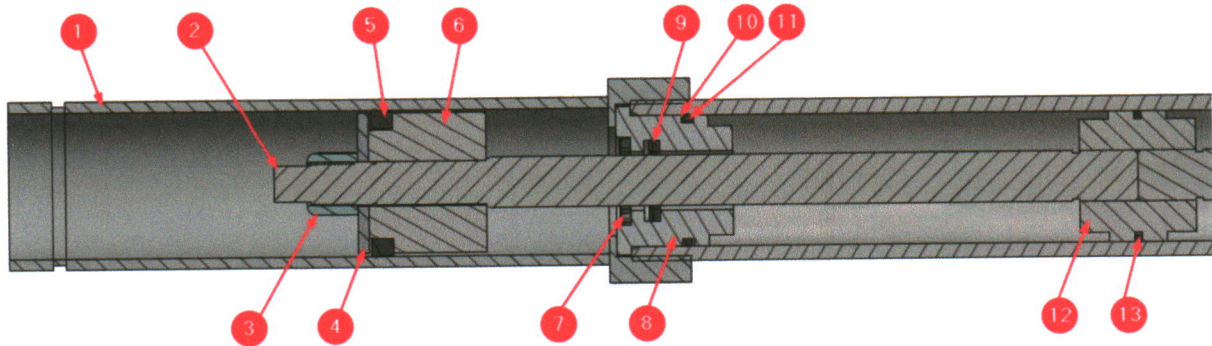
Part Number	Description	QTY
RP2190024	VALVE COIL DS05 PDGP-1000	2
RP2190026	REPLACEMENT VALVE PDGP20-1000	1
RP2190028	VALVE MANIFOLD DS-05 SERIES PDGP20-1000	1
RP2130000	DIN CONNECTOR W LED 12VDC	2
W2190042	PRESSURE RELIEF VALVE	1
HA082ST9016.5	HYDRAULIC HOSE, 1/2"	-
RP2190022	VALVE STACK ASSEMBLY – PDGP20-1000	-

Internal Parts - PDGP20-500



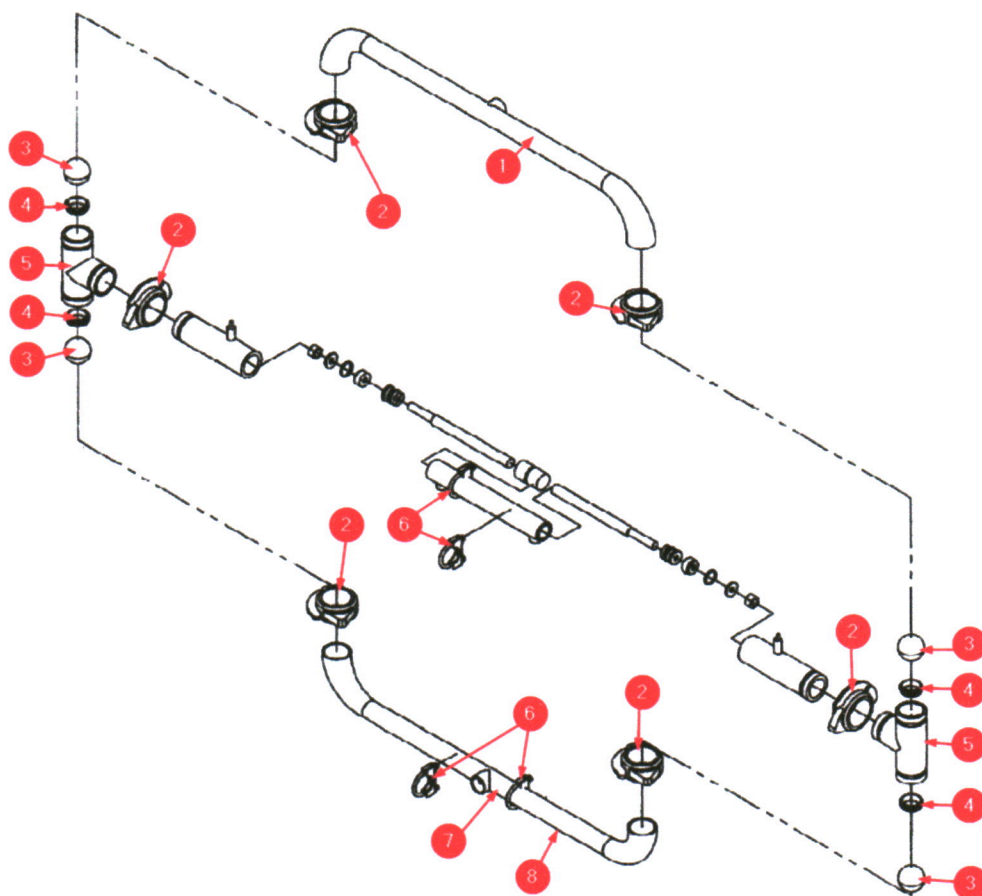
ITEM #	PART #	DESCRIPTION	QTY
1	RP5990019	MATERIAL AND HYDRAULIC CYLINDER SET - 500	1
2	RP2190010	ROD, PISTON, 500PSI	2
3	W2198763-8	NUT, 3/4-16 NYLOC	2
4	RP2190006	WASHER, MATERIAL PISTON	2
5	RP2270004	SEAL, MATERIAL	2
6	RP2190005	PISTON, MATERIAL	2
7	RP2270001	CYLINDER ROD WIPER, 500PSI	2
8	RP2190004	GLAND, HYDRAULIC, 500PSI	2
9	RP2210002	BACKUP RING	2
10	RP2270002	CYLINDER ROD SEAL, 500PSI	2
11	RP2210003	GLAND BOX OUTER SEAL BACKUP, 500PSI	2
12	RP2210001	GLAND BOX OUTER SEAL, 500PSI	2
13	RP2190007	PISTON, HYDRAULIC, 500PSI	1
14	RP2270003	CYLINDER PISTON SEAL, 500PSI	1
-	RP5990017	COMPLETE CENTER SECTION ASSEMBLY – 500	-

Internal Parts – PDGP20-1000



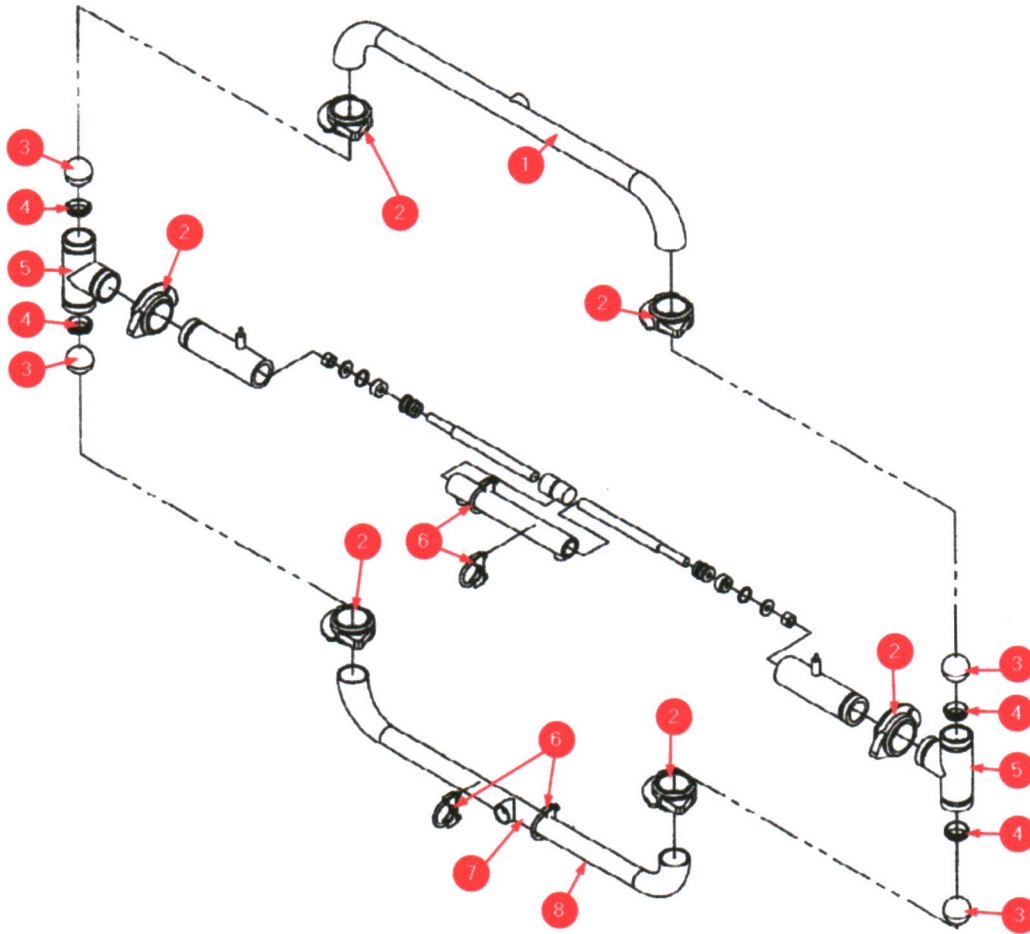
ITEM #	PART #	DESCRIPTION	QTY
1	RP5990020	FLUID AND HYDRAULIC CYLINDER SET - 1000	1
2	RP2190016	ROD, PISTON, 1000PSI	2
3	W2198763-8	NUT, 3/4-16 NYLOC	2
4	RP2190006	WASHER, MATERIAL PISTON	2
5	RP2270004	SEAL, MATERIAL	2
6	RP2190005	PISTON, MATERIAL	2
7	RP2270005	CYLINDER ROD WIPER, 1000PSI	2
8	RP2190008	GLAND, HYDRAULIC, 1000PSI	2
9	RP2270006	CYLINDER ROD SEAL, 1000PSI	2
10	RP2210004	GLAND BOX OUTER SEAL, 1000PSI	2
11	RP2210005	GLAND BOX OUTER SEAL BACKUP, 1000PSI	2
12	RP2190009	PISTON, HYDRAULIC, 1000PSI	1
13	RP2270007	CYLINDER PISTON SEAL, 1000PSI	1
-	RP5990016	COMPLETE CENTER SECTION ASSEMBLY – 1000	-

Maintenance Parts – PDGP20-500



ITEM #	PART #	DESCRIPTION	QTY
1	RP5990010	WELDMENT, OUTLET PIPE	1
2	W7993053	CLAMP, MATERIAL	6
2*	W2198763-16S	2 1/2" VICTAULIC SEAL	6
3	W2198763-12	VALVE, BALL	4
4	RP2190001	SEAT, BALL VALVE	4
4*	W2115374	O RING SEAL GP-20 BALL SEAT	4
5	RP5990007	WELDMENT, TEE	2
6	W2060005	U-BOLT W/ SADDLE CLAMP, 1-1/2"	4
7	RP5990032	WELDMENT, SUCTION PIPE	1
8	W2236442	DRAIN PLUG	1

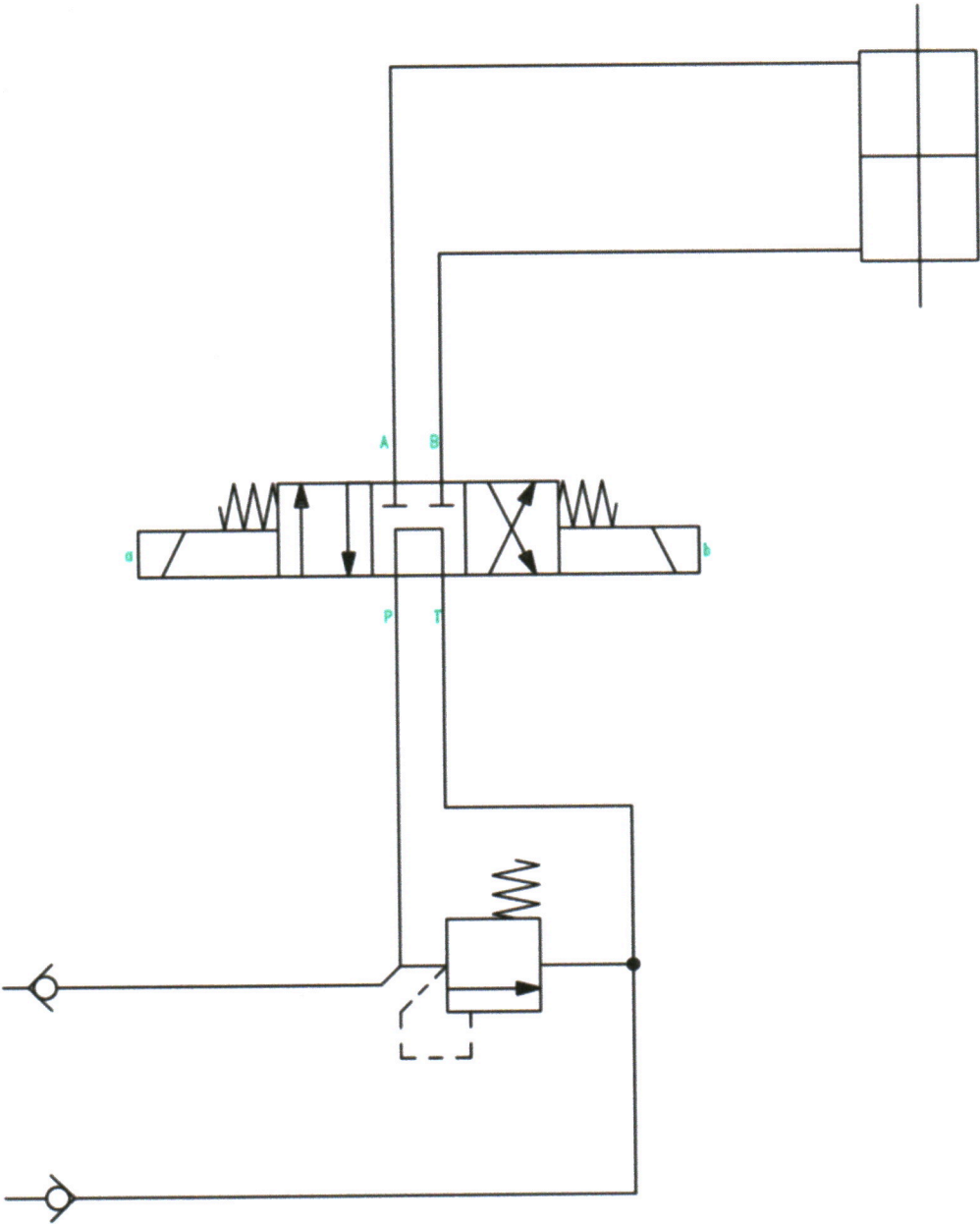
Maintenance Parts – PDGP20-1000



ITEM #	PART #	DESCRIPTION	QTY
1	RP5990004	WELDMENT, OUTLET PIPE	1
2	W7993054	CLAMP, MATERIAL	6
2*	W2198763-16S	2 1/2" VICTAULIC SEAL	6
3	W2198763-12	VALVE, BALL	4
4	RP2190001	SEAT, BALL VALVE	4
4*	W2215374	O RING SEAL GP-20 BALL SEAT	4
5	RP5990007	WELDMENT, TEE	2
6	W2065105	U-BOLT W/ SADDLE CLAMP, 2-3/4"	4
7	RP5990005	WELDMENT, SUCTION PIPE	1
8	W2236442	DRAIN PLUG	1

DIAGRAMS

Hydraulic Diagram



Wiring Diagram

