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2-3/8" SP SAND PUMP

COMPLETE ASSEMBLY, 5 FOOT

23SP.10XX

STANDARD SAND PUMP IS ASSEMBLED WITH POLYPAC.
PLEASE SPECIFY OTHER SEAL SYSTEM AT TIME OF ORDER.

| ITEM | DESCRIPTION | PART # | NO. REQ'D. |
|------|--|------------|------------|
| 1 | DRAIN SUB | 23SP01 | 1 |
| 2 | DRAIN PLUG | 45LS14M | 2 |
| 3 | TRAP SUB-ASSEMBLY CONSIST OF: | 23SP18 | 1 |
| | TRAP SUB | 23SP02 | 4 |
| | FLAPPER VALVE ASSEMBLY | 23SP17 | 4 |
| 4 | SOC. SET SCREW, 3/8-24 X 3/8, HALF DOG | HA1011HD | 4 |
| 5 | JET SUB | 23SP03 | 1 |
| 6 | JET | 23SP14 | 2 |
| 7 | KELLY X-OVER | 23SP08 | 1 |
| 8 | SOC. SET SCREW, 5/16-18 X 1/2 | HA1006 | 2 |
| 9 | KELLY, 5 | 23SP11-5 | 1 |
| 10 | KELLY BUSHING | 23SP05 | 1 |
| 11 | BARREL | 23SP04-5 | 1 |
| 12 | POLYPAC | 23SP12 | 3 |
| | SWAB CUP | 23SP12C | 1 |
| 13 | SEAL RETAINER | 23SP10 | 1 |
| | CUP RETAINER | 23SP10C | 1 |
| 14 | LOWER BARREL CONNECTION | 23SP06 | 1 |
| 15 | O-RING | 050-90-218 | 1 |
| 16 | O-RING | 050-90-228 | 1 |
| 17 | SOC. SET SCREW, 5/16-18 X 3/4 | 003-C5-012 | 2 |
| 18 | KELLY STOP, POLYPAC | 23SP07 | 1 |
| | KELLY STOP, CUP | 23SP07C | 1 |
| 19 | SEAL SPACER | 23SP09 | 2 |
| 20 | LOCK NUT, CUP | 23SP13C | 2 |

2-7/8" SP SAND PUMP

COMPLETE ASSEMBLY, 5 FOOT

27SP.10XX

STANDARD SAND PUMP IS ASSEMBLED WITH POLYPAC.
PLEASE SPECIFY OTHER SEAL SYSTEM AT TIME OF ORDER.

| ITEM | DESCRIPTION | PART # | NO. REQ'D. |
|------|--|-------------|------------|
| 1 | DRAIN SUB | 27SP01 | 1 |
| 2 | DRAIN PLUG | 45LS14M | 2 |
| 3 | TRAP SUB-ASSEMBLY CONSIST OF: | 27SP18 | 1 |
| | TRAP SUB | 27SP02 | 4 |
| | FLAPPER VALVE ASSEMBLY | 27SP17 | 4 |
| 4 | SOC. SET SCREW, 3/8-24 X 3/8, HALF DOG | HA1011HD | 4 |
| 5 | JET SUB | 27SP03 | 1 |
| 6 | JET | 23SP14 | 2 |
| 7 | KELLY X-OVER | 27SP08 | 1 |
| 8 | SOC. SET SCREW, 5/16-18 X 1/2 | HA1006 | 2 |
| 10 | KELLY, 2-1/2, 5 | 27SP11-5 | 1 |
| 11 | KELLY BUSHING | 27SP05 | 1 |
| 12 | BARREL, 5 | 27SP04-5 | 1 |
| 13 | POLYPAC | 27SP12 | 3 |
| | SWAB CUP, 2-1/2 DIA. | 27SP12C | 1 |
| | SEAL, HI-TEMP | 27SP12.1001 | 3 |
| 14 | SEAL RETAINER | 27SP10 | 1 |
| | CUP RETAINER | 27SP10C | 1 |
| 15 | LOWER BARREL CONNECTION | 27SP06 | 1 |
| 16 | O-RING | 050-90-222 | 1 |
| 17 | O-RING | 050-90-232 | 1 |
| 19 | SOC. SET SCREW, 5/16-18 X 3/4 | 003-C5-012 | 2 |
| 20 | KELLY STOP, POLYPAC | 27SP07 | 1 |
| | KELLY STOP, CUP | 27SP07C | 1 |
| 21 | SEAL SPACER | 27SP09 | 2 |
| 22 | LOCK NUT, CUP | 27SP13C | 1 |

2-3/8" X 1.75" TUBING TEST VALVE

COMPLETE ASSEMBLY

23TTV.10XX

| ITEM | DESCRIPTION | PART # | NO. REQ'D. |
|------|-------------------------------|------------|------------|
| 1 | COUPLING | 23E23NC | 1 |
| 2 | TOP SUB | 23TTV01-43 | 1 |
| 3 | BEARING RETAINER | 23TTV02-43 | 1 |
| 4 | SOC. SET SCREW, 5/16-18 X 1/2 | HA1006 | 4 |
| 5 | O-RING | 050-90-228 | 2 |
| 6 | RACE | HM1039 | 4 |
| 7 | BEARING | HM1038 | 2 |
| 8 | O-RING | 050-90-234 | 3 |
| 9 | BEARING SEGMENTS | 23TTV04-43 | 1 SET |
| 10 | BEARING STOP | 23TTV03-43 | 1 |
| 11 | MANDREL STOP | 23TTV05-43 | 1 |
| 12 | SOC. SET SCREW, 1/4-20 X 1/4 | HA1007 | 12 |
| 13 | TORQUE TUBE | 23TTV06-43 | 1 |
| 14 | CONTROL ARMS | 23TTV08-43 | 1 SET |
| 15 | CARBIDE BALL, 3/8 DIA. | HM1037 | 1 |
| 16 | BALL | 23TTV09-43 | 1 |
| 17 | BALL HOUSING | 23TTV07-43 | 1 |
| 18 | O-RING | 050-90-227 | 2 |
| 19 | SEAT ASSEMBLY | 23TTV11-43 | 1 SET |
| 20 | BOTTOM SUB | 23TTV14-43 | 1 |
| 21 | PISTON | 23TTV12-43 | 1 |
| 22 | SPRING | 23TTV13-43 | 1 |
| 23 | O-RING | 050-90-226 | 1 |

2-3/8" X 2.00" TUBING TEST VALVE

COMPLETE ASSEMBLY

23TTV.10XX

| ITEM | DESCRIPTION | PART # | NO. REQ'D. |
|------|-------------------------------|------------|------------|
| 1 | COUPLING | 23E23NC | 1 |
| 2 | TOP SUB | 23TTV01-45 | 1 |
| 3 | BEARING RETAINER | 23TTV02-45 | 1 |
| 4 | SOC. SET SCREW, 5/16-18 X 1/2 | HA1006 | 4 |
| 5 | O-RING | 050-90-228 | 2 |
| 6 | RACE | HM1049 | 4 |
| 7 | BEARING | HM1048 | 2 |
| 8 | O-RING | 050-90-234 | 3 |
| 9 | BEARING SEGMENTS | 23TTV04-45 | 1 SET |
| 10 | BEARING STOP | 23TTV03-45 | 1 |
| 11 | MANDREL STOP | 23TTV05-45 | 1 |
| 12 | SOC. SET SCREW, 1/4-20 X 1/4 | HA1007 | 12 |
| 13 | TORQUE TUBE | 23TTV06-45 | 1 |
| 14 | CONTROL ARMS | 23TTV08-45 | 1 SET |
| 15 | CARBIDE BALL, 3/8 DIA. | HM1037 | 1 |
| 16 | BALL | 23TTV09-45 | 1 |
| 17 | BALL HOUSING | 23TTV07-45 | 1 |
| 18 | O-RING | 050-90-227 | 2 |
| 19 | SEAT ASSEMBLY | 23TTV11-45 | 1 SET |
| 20 | BOTTOM SUB | 23TTV14-45 | 1 |
| 21 | PISTON | 23TTV12-45 | 1 |
| 22 | SPRING | 23TTV13-45 | 1 |
| 23 | O-RING | 050-90-226 | 1 |

2-7/8" X 2.50" TUBING TEST VALVE

COMPLETE ASSEMBLY

27TTV.10XX

| ITEM | DESCRIPTION | PART # | NO. REQ'D. |
|-------------|-------------------------------|---------------|-------------------|
| 1 | COUPLING | 27E27EC | 1 |
| 2 | TOP SUB | 27TTV01-47 | 1 |
| 3 | BEARING RETAINER | 27TTV02-47 | 1 |
| 4 | SOC. SET SCREW, 5/16-18 X 1/2 | HA1006 | 4 |
| 5 | O-RING | 050-90-228 | 2 |
| 6 | RACE | hm1052 | 4 |
| 7 | BEARING | HM1051 | 2 |
| 8 | O-RING | 050-90-234 | 3 |
| 9 | BEARING SEGMENTS | 27TTV04-47 | 1 SET |
| 10 | BEARING STOP | 27TTV03-47 | 1 |
| 11 | MANDREL STOP | 27TTV05-47 | 1 |
| 12 | SOC. SET SCREW, 1/4-20 X 1/4 | HA1007 | 12 |
| 13 | TORQUE TUBE | 27TTV06-47 | 1 |
| 14 | CONTROL ARMS | 27TTV08-47 | 1 SET |
| 15 | CARBIDE BALL, 3/8 DIA. | HM1037 | 1 |
| 16 | BALL | 27TTV09-47 | 1 |
| 17 | BALL HOUSING | 27TTV07-47 | 1 |
| 18 | O-RING | 050-90-227 | 2 |
| 19 | SEAT ASSEMBLY | 27TTV11-47 | 1 SET |
| 20 | BOTTOM SUB | 27TTV14-47 | 1 |
| 21 | PISTON | 27TTV12-47 | 1 |
| 22 | SPRING | 27TTV13-47 | 1 |
| 23 | O-RING | 050-90-226 | 1 |
| 24 | SHEAR SCREW, BRASS | HA1006B | 4 |
| 25 | SOC. SET SCREW, 5/16-18 X 3/8 | 003-C5-006 | 9 |