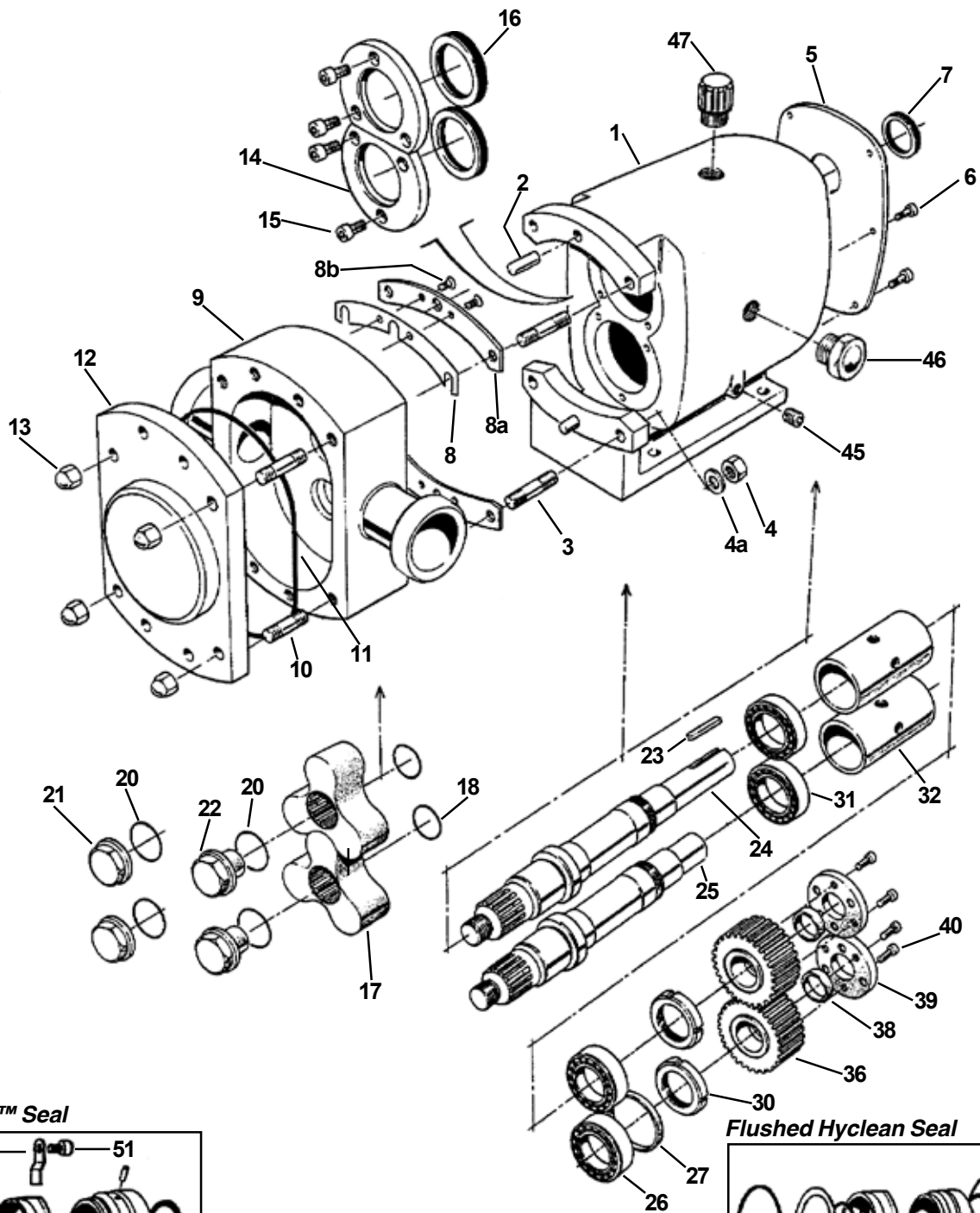
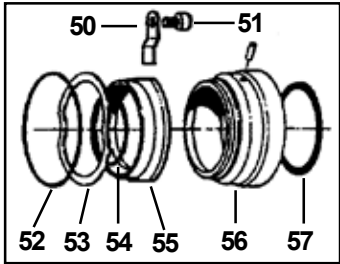
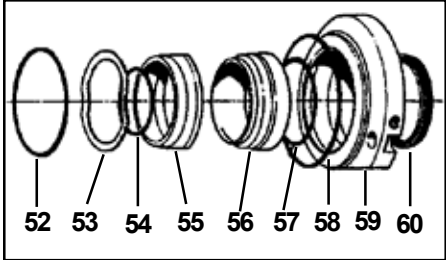




**Hyclean™ Seal**



**Flushed Hyclean Seal**



Positive Displacement Pump  
422/432 GHPD (Horizontal)

| Pos. | Qty. | Description                       | 422/432<br>Part No. |
|------|------|-----------------------------------|---------------------|
| 1    | 1    | Gear case .....                   | 5220-073            |
| 2    | 2    | Dowel .....                       | 5170-025            |
| 3    | 4    | Stud, RC-gear case .....          | 6350-136            |
| 4    | 4    | Nut, RC-gear case .....           | 5330-000            |
| 4a   | 4    | Washer .....                      | 6400-037            |
| 5    | 1    | Gear case cover .....             | 5120-051            |
| 6    | 6    | Screw .....                       | 5990-044            |
| 7    | 1    | Lip seal, Nitrile .....           | 5310-101            |
|      | 1    | Lip seal, FPM .....               | 5310-079            |
| 8    | 1    | Shim set, SS .....                | 31494-6150-151      |
|      | 1    | Shim set, Plastic .....           | 6150-152            |
| 8a   | 2    | Shim Retainer .....               | 6150-272            |
| 8b   | 4    | Screw .....                       | 6000-010            |
| 9    | 1    | Rotor case, 422 .....             | 31494-91120831      |
|      | 1    | Rotor case, 432 .....             | 31494-92120841      |
| 10   | 4    | Stud front cover .....            | 6350-136            |
| 11   | 1    | Front cover O-ring, Nitrile ..... | 883-1550-249        |
|      | 1    | Front cover O-ring, FPM .....     | 883-1551-249        |
|      | 1    | Front cover O-ring, PTFE .....    | 883-1552-249        |
|      | 1    | Front cover O-ring, EPDM .....    | 883-1555-249        |
| 12   | 1    | Front cover .....                 | 31494-5130-312      |
| 13   | 4    | Front cover nuts .....            | 5340-047            |
| 14   | 2    | Retainer (front bearing) .....    | 5560-031            |
| 15   | 6    | Retainer screw .....              | 5990-007            |
| 16   | 2    | Lip seal, Nitrile .....           | 5310-038            |
|      | 2    | Lip seal, FPM .....               | 5310-071            |
| 18   | 2    | Rotor O-ring, Nitrile .....       | 883-1550-022        |
|      | 2    | Rotor O-ring, FPM .....           | 883-1551-022        |
|      | 2    | Rotor O-ring, PTFE .....          | 1558-022            |
|      | 2    | Rotor O-ring, EPDM .....          | 883-1555-022        |
| 20   | 2    | Rotor nut O-ring, Nitrile .....   | 883-1550-020        |
|      | 2    | Rotor nut O-ring, FPM .....       | 883-1551-020        |
|      | 2    | Rotor nut O-ring, PTFE .....      | 883-1552-020        |
|      | 2    | Rotor nut O-ring, EPDM .....      | 883-1555-020        |
| 21   | 1    | Rotor nut 422 R.H. ....           | 31494-5900-163      |
| 22   | 1    | Rotor nut 422 L.H. ....           | 31494-5900-183      |
| 21   | 1    | Rotor nut 432 R.H. ....           | 31494-5900-164      |
| 22   | 1    | Rotor nut 432 L.H. ....           | 31494-5900-184      |
| 23   | 1    | Drive key .....                   | 5270-007            |
| 24   | 1    | Drive shaft, SS .....             | 31494-6110-656      |
|      | 1    | Drive shaft, Duplex .....         | 31494-6110-660      |
| 25   | 1    | Lay shaft, SS .....               | 31494-6100-664      |
|      | 1    | Lay shaft, Duplex .....           | 31494-6100-668      |
| 26   | 2    | Rear bearing .....                | 5080-012            |
| 27   | 1    | Shaft spacer .....                | 31494-5670-062      |
| 30   | 2    | Rear nut .....                    | 5340-041            |
| 31   | 2    | Front bearing .....               | 5080-012            |
| 32   | 2    | Bearing spacer .....              | 5670-056            |
| 36   | 2    | Timing gear -std. ....            | 31494-5210-031      |
|      | 2    | Timing gear - hard .....          | 31494-5210-037      |
| 38   | 2    | Clamp plate .....                 | 5110-040            |
| 39   | 2    | Torque locking element .....      | 5615-015            |
| 40   | 6    | Clamp plate screws .....          | 5990-044            |
| 45   | 1    | Drain plug .....                  | 1660-004            |
| 46   | 1    | Sight level glass .....           | 5480-001            |
| 47   | 1    | Filler plug .....                 | 31491-0052-1        |
|      | 1    | Filler plug washer .....          | 31499-5916-1        |

Recommended Spare Parts: Pos. 7, 11, 16, 18, 20, 26, 31 and shaft seals



CSI

CONTACT CSI FOR MORE INFORMATION | CSIDESIGNS.COM | SALES@CSIDESIGNS.COM | 417.831.1411

Positive Displacement Pump  
422/432 GHPD (Horizontal)

| Pos.                       | Qty. | Description                   | 422<br>Part No. | 432<br>Part No. |
|----------------------------|------|-------------------------------|-----------------|-----------------|
| <b>Trilobe Rotors (SS)</b> |      |                               |                 |                 |
| 17                         | 2    | Class "A" .....               | 31494-5740-0131 | 31494-5740-0181 |
|                            | 2    | Class "B" .....               | 31494-5740-0132 | 31494-5740-0182 |
|                            | 2    | Class "C" .....               | 31494-5740-0133 | 31494-5740-0183 |
|                            | 2    | High pressure class "A" ..... | 31494-5740-0134 | 31494-5740-0184 |
|                            | 2    | High pressure class "B" ..... | 31494-5740-0135 | 31494-5740-0185 |
|                            | 2    | High pressure class "C" ..... | 96300-4774-9    | 96300-4805-1    |

**Bilobe rotors (SS)** (Bilobe rotors must be ordered in pairs)

|    |   |                               |              |              |
|----|---|-------------------------------|--------------|--------------|
| 17 | 1 | Class "A" .....               | 96300-9057-1 | 96300-9057-7 |
|    | 1 | Class "B" .....               | 96300-9057-2 | 96300-9057-8 |
|    | 1 | Class "C" .....               | 96300-9057-3 | 96300-9057-9 |
|    | 1 | High pressure class "A" ..... | 96300-9057-4 | 96300-9059-9 |
|    | 1 | High pressure class "B" ..... | 96300-9057-5 | 96300-9058-0 |
|    | 1 | High pressure class "C" ..... | 96300-9057-6 | 5741018W     |

| Pos.                 | Qty. | Description                            | 422/432<br>Part No. |
|----------------------|------|----------------------------------------|---------------------|
| <b>Hyclean™ Seal</b> |      |                                        |                     |
| 50                   | 1    | Clip .....                             | 31495-5087-053      |
| 51                   | 1    | Screw .....                            | 5990-064            |
| 52Δ                  | 1    | Rotor case O-ring, EPDM .....          | 883-1555-325        |
|                      | 1    | Rotor case O-ring, Nitrile .....       | 883-1550-325        |
|                      | 1    | Rotor case O-ring, FPM .....           | 883-1551-325        |
| 53Δ                  | 1    | Wave spring .....                      | 31494-0508-1        |
| 54Δ                  | 1    | Shaft O-ring, EPDM .....               | 1555-121            |
|                      | 1    | Shaft O-ring, Nitrile .....            | 883-1550-121        |
|                      | 1    | Shaft O-ring, FPM .....                | 883-1551-121        |
| 55Δ                  | 1    | Stationary face, Carbon .....          | 31494-0501-2        |
|                      | 1    | Stationary face, Silicon Carbide ..... | 31494-0501-3        |
| 56Δ                  | 1    | Rotary face, SS .....                  | 31494-0506-1        |
|                      | 1    | Rotary face, Silicon Carbide .....     | 31494-0506-3        |
| 57Δ                  | 1    | Washer, Nitrile .....                  | 6400-069            |
|                      | 1    | Washer, FPM .....                      | 6400-073            |
| 58                   | 1    | Flush housing O-ring, Nitrile .....    | 1550-139            |
|                      | 1    | Flush housing O-ring, FPM .....        | 883-1551-139        |
| 59                   | 1    | Flush housing .....                    | 31494-5265-382      |
| 60                   | 1    | Lip seal, Nitrile .....                | 5310-106            |
|                      | 1    | Lip seal, FPM .....                    | 5310-107            |
| not listed           | 2    | Housing screw .....                    | 5990011             |
|                      | 2    | Nut .....                              | 5470006             |

**Hyclean Seal Kit**

|   |                      |                 |
|---|----------------------|-----------------|
| Δ | C/SS, Nitrile .....  | 31494-7600-1021 |
| Δ | C/SS, FPM .....      | 31494-7600-1022 |
| Δ | C/SS, EPDM .....     | 31494-7600-1025 |
| Δ | C/SC, Nitrile .....  | 31494-7600-1821 |
| Δ | C/SC, FPM .....      | 31494-7600-1822 |
| Δ | C/SC, EPDM .....     | 31494-7600-1825 |
| Δ | SC/SC, Nitrile ..... | 31494-7600-2021 |
| Δ | SC/SC, FPM .....     | 31494-7600-2022 |
| Δ | SC/SC, EPDM .....    | 31494-7600-2025 |

Parts marked with Δ are included in the Hyclean seal kit.

Note! Two seal kits are required per pump.

Recommended Spare Parts: Pos. 7, 11, 16, 18, 20, 26, 31 and shaft seals



CSI

CONTACT CSI FOR MORE INFORMATION | CSIDESIGNS.COM | SALES@CSIDESIGNS.COM | 417.831.1411