CANNY ENGINEERING SERVICES
MANUFACTURER AND SUPPLIER OF OILFIELD & ENGINEERING EQUIPMENT'S
(ISO 9001:2015 COMPANY)
J 63/2, UPSIDC, SITE-5, KASNA, GREATER NOIDA, GAUTAM BUDHA NAGAR, 201310, UP, INDIA
E-mail: - info@cannyengineeringservices.com, www.cannyengineeringservices.com

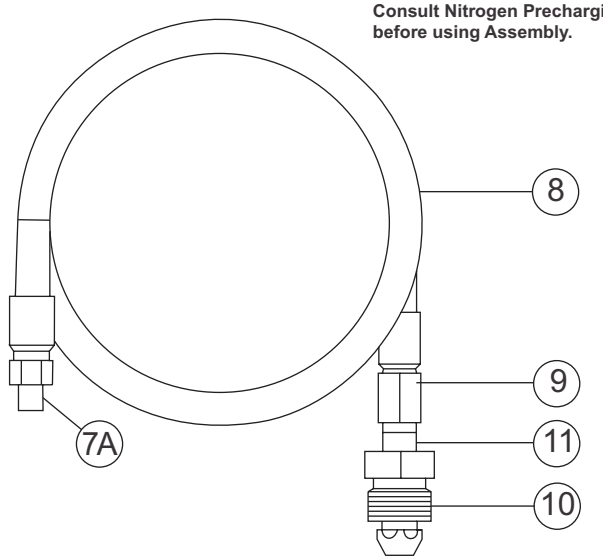
# CHARGING & GAUGING ASSEMBLIES

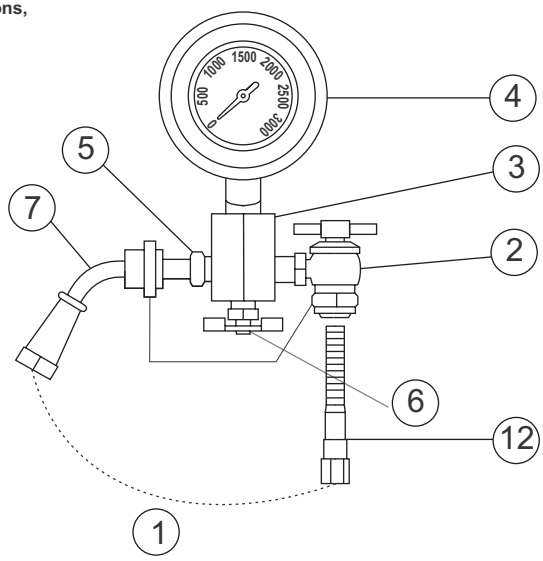
**0902-0100** **Charging and Gauging Assembly for Standard 3000 PSI Accumulators (shown)**
**0902-0900** **Charging and Gauging Assembly for Recessed Top Loading Accumulators**
**0902-0150** **Charging and Gauging Assembly for 5000 PSI Accumulators**

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 1 | 0902-0112 | Gauging Head Assembly, 3000 psi | 1 |
| 2 | 0902-0101 | Air Chuck | 1 |
| 3* | 0902-0102 | Adapter | 1 |
| 4** | 4002-4100 | 0-3000 psi Gauge | 1 |
| 5 | 0902-0104 | Tank Valve | 1 |
| 6 | 0902-0109 | Bleeder Valve | 1 |
| 7 | 0902-0105 | Swivel Connector | 1 |
| 7A | Ref. | Hose End Fitting (Only Required For Old Hose Assemblies, P/N 0902-0111 | 1 |
| 8 | 0902-0106 | Hose Assembly,11', With End Fittings | 1 |
| 9 | 8010-0200 | Coupler (Not shown obsolete) | 1 |
| 10*** | 0902-0108 | Nut, Right Hand | 1 |
| 11 | 0902-0110 | Gland | 1 |
| 12 | 0902-0113 | Recessed Top Loading Accumulators, Adaptor. | 1 |

** Use P/N 4002-4120 for 5000 PSI Bottle.
*** Left Hand Nut, P/N 0902-0114

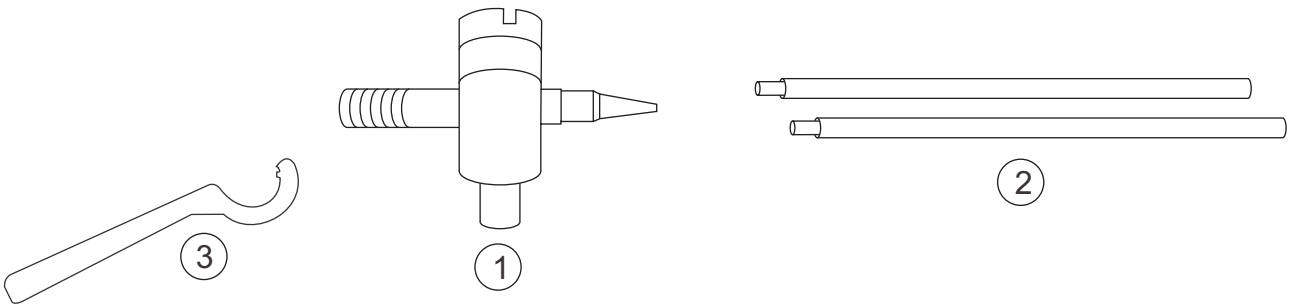
Note : Item 1 Consists of Items 2, 3, 4, 5, & 6. Consult Nitrogen Precharging Instructions, before using Assembly.




**Additional Accumulator Tools**

| | | | |
|---|---|---|---|
| 1 | 0902-0200 | Valve Core Tool | 1 |
| 2 | 0902-0300 | Bladder Pull Rod Assembly (5 Sections) | 1 |
| 3 | 0902-0400 | Spanner Wrench | 1 |



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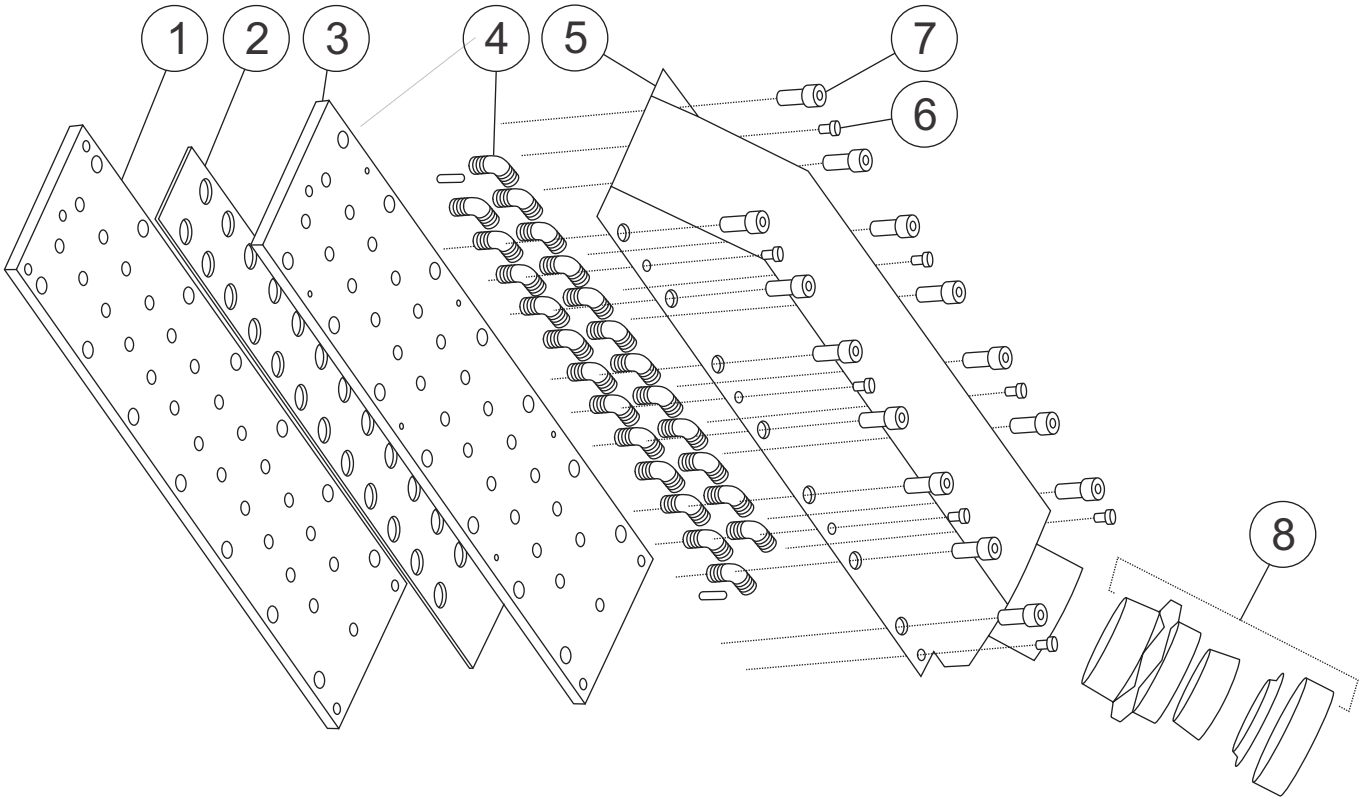
# AIR JUNCTION BOXES

## RECTANGULAR AIR JUNCTION BOXES

| Item | Description | JG-12 | Qty | JG-16 | Qty | JG-24 | Qty |
|---|---|---|---|---|---|---|---|
| Assy. | Junction Box Assembly | 0910-8400 | | 0910-8600 | | 0910-8700 | |
| 1 | Fixed Plate | 0910-1101 | 1 | 0910-1201 | 1 | 0910-1301 | 1 |
| 2 | Gasket | 0910-1303 | 1 | 0910-1303 | 1 | 0910-1303 | 1 |
| 3 | Hose Plate | 0910-0101 | 1 | 0910-0201 | 1 | 0910-0301 | 1 |
| 4 | Hose Fitting | 5200-2100 | 12 | 5200-2100 | 16 | 5200-2100 | 24 |
| 5 | Hose Cover | 0910-0102 | 1 | 0910-0202 | 1 | 0910-0302 | 1 |
| 6 | Screw, Cover | 8502-0100 | 4 | 8502-0100 | 6 | 8502-0100 | 8 |
| 7 | Screw | 8504-4016 | 6 | 8504-4016 | 10 | 8504-4016 | 14 |
| 8 | Connector | 8220-6200 | 1 | 8220-7400 | 1 | 8220-8300 | 1 |



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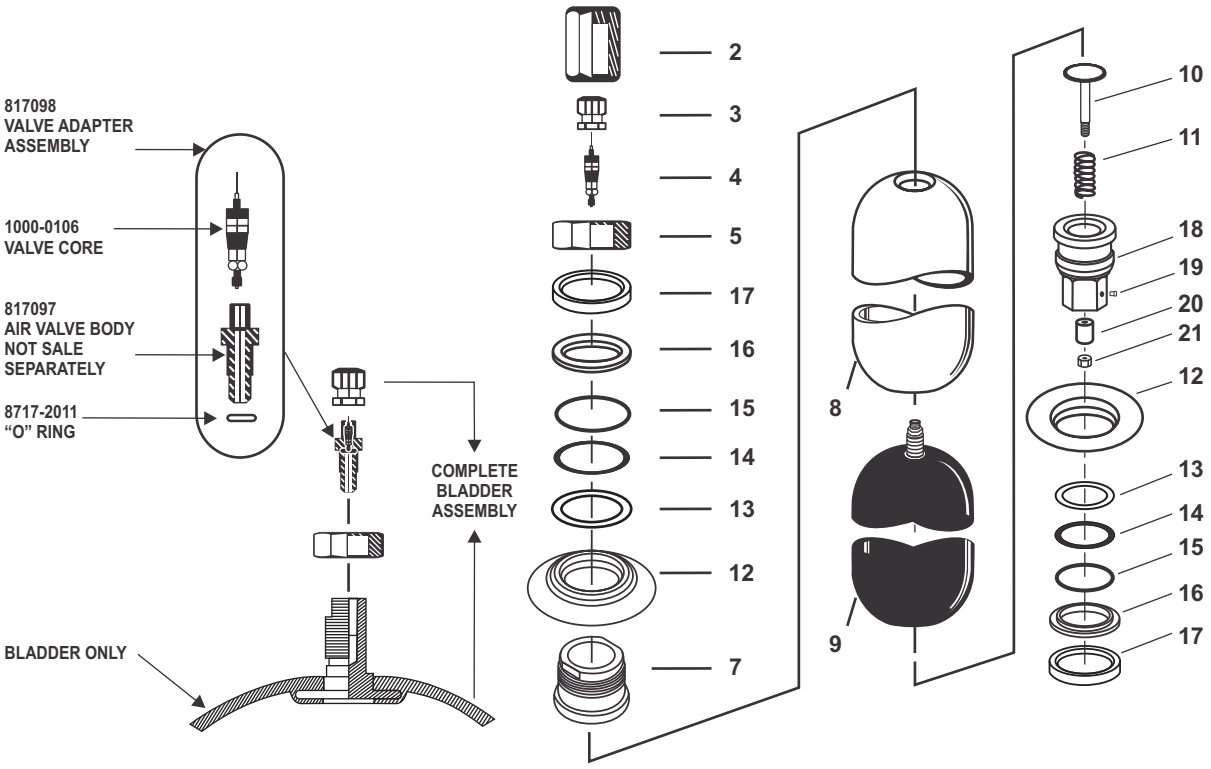
# ACCUMULATORS

## PART NO. 1005-7300 - ACCUMULATOR BOTTLE, TOP-LOADING
## 11 GALLON 3000 PSI 1-1/4" PORT, OIL SERVICE




| Item | Part No. | Decription | Qty |
|---|---|---|---|
| Assy | 1005-7300 | Accumulator ,11-Gallon 3,000 psi 1-1/4" Port, Bladder Type, Top Loading | |
| Kit | 1000-3195 | Port Assembly, 1-1/4" (includes Plug & Poppet Assembly) | |
| Kit | 1000-3196 | Plug and Poppet Assembly | |
| 1 | 8099-0001 | Cap Plug (Not Shown) | 1 |
| 2 | 1000-3101 | Valve Guard | 1 |
| 3 | 1000-0105 | Valve Cap | 1 |
| 4 | 1000-0106 | Valve Core | 1 |
| 5 | 1000-3102 | Valve Nut | 1 |
| 6 | N/A | Nameplate (Not Shown) | 1 |
| 7 | N/A | Plug Body Top | 1 |
| 8 | N/A | Shell | 1 |
| 9 | 817100 | Bladder Assembly | 1 |
| 10** | 1000-4103 | Poppet | 1 |
| 11** | 1000-4104 | Spring, Poppet | 1 |
| 12* | 1000-4105 | Ring, Anti-Extrusion | 2 |
| 13* | 1000-4106 | Washer, Back-Up | 2 |
| 14* | 8717-2338 | O-Ring | 2 |
| 15* | 8842-8338 | Back-Up Ring | 2 |
| 16* | 1000-4107 | Spacer | 2 |
| 17* | 1000-4110 | Lock Nut, Plug | 2 |
| 18 | 1000-4109 | Plug Body Botom | 1 |
| 19 | 8017-0200 | Bleeder Pulg | 1 |
| 20** | 1000-7115 | Piston, Poppet | 1 |
| 21** | 1000-4111 | Stop Nut, Poppet | 1 |

**Dimensions:**
Height – 59-1/2"
Width – 53-1/2"
Depth – 9-1/16"
**Weight – 240 pounds**

* Included in Port Assembly - consists of one (1) each of items Plus items Plug and Poppet Assembly.
** Included in Plug and Poppet Assembly.

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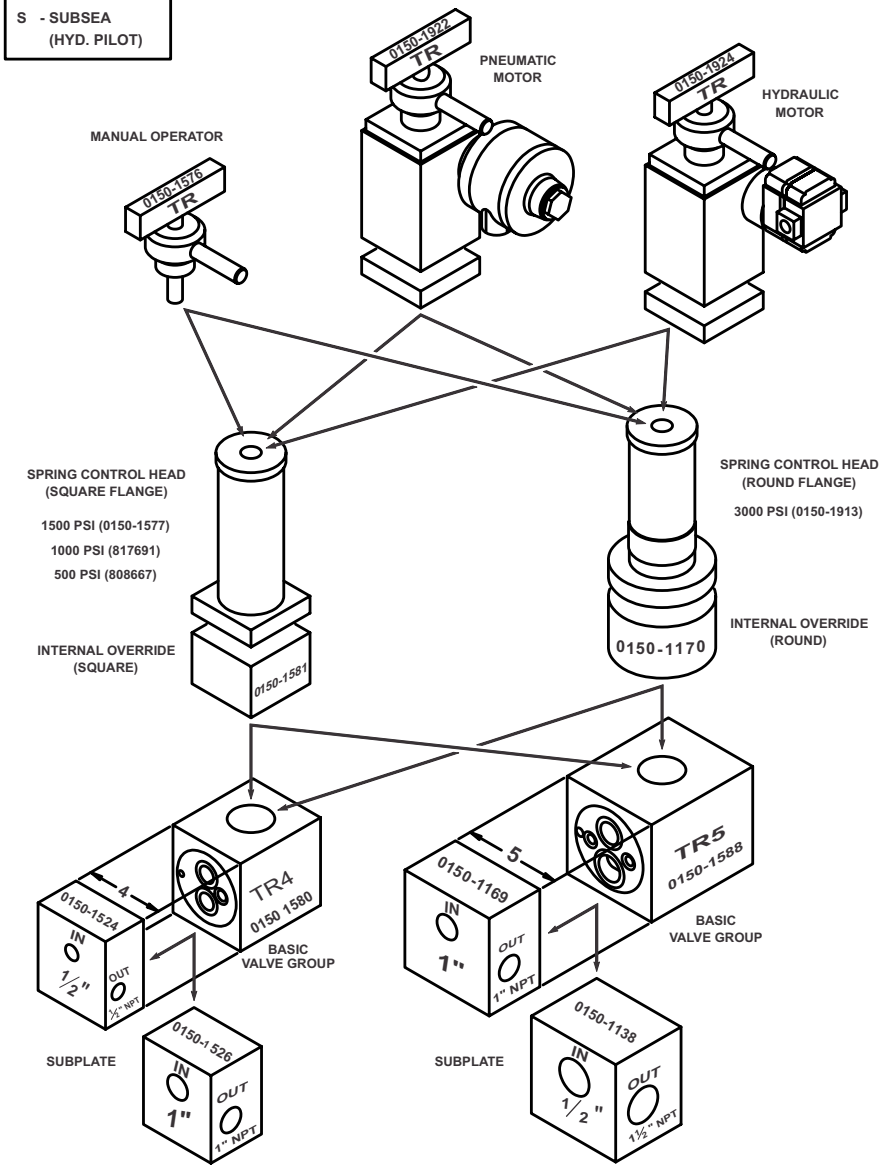
# TR FAIL-SAFE PRESSURE REDUCING AND REGULATING VALVE

| M | TR | 4 | 1500 | 0 | 10 |
|---|---|---|---|---|---|

| OPERATION TYPE | SERIES | SIZE | PRESSURE LIMIT | ACCESSORY | SUBPLATE |
|---|---|---|---|---|---|
| M - MANUAL<br>P - PNEUMATIC MOTOR<br>H - HYDRAULIC MOTOR<br>S - SUBSEA (HYD. PILOT) | TRADE MARK | 4 - 4" WIDE<br>5 - 5" WIDE | 500 PSI<br>1000 PSI<br>1500 PSI<br>3000 PSI | 0 - NONE<br>I - INTERNAL OVERRIDE | 00 - NONE<br>05 - 1/2 " NPT<br>10 - 1 " NPT<br>15 - 1 1/2 " NPT |



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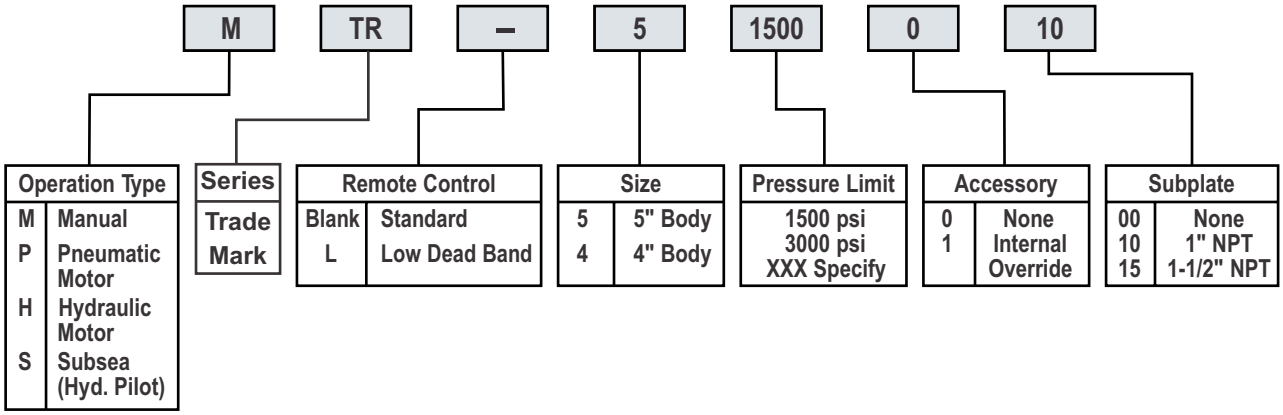
# STANDARD VERSION

## MODEL NUMBER IDENTIFICATION SYSTEM




### Specifications for Pressure Reducing and Regulating Valve

**MANUAL**

| MODEL NO. | Final Ass'y Catalog P/N | Ass'y Less Subplate P/N | REGULATOR ASSEMBLY LESS SUBPLATE | | | | SEAL KIT P/N | REPAIR KIT* P/N |
|---|---|---|---|---|---|---|---|---|
| | | | OPERATOR TYPE | REGULATOR CONFIGURATION | | | | |
| | | | Manual | Basic Group | Spring Control Head | Internal Override | | |
| MTR-4-1500-0-05 | 1110-7700 | 0150-1590 | 0150-1576 | 0150-1580 | 0150-1577 | --- | 1110-9497 | 1110-9499 |
| MTR-4-1500-I-05 | 1110-7600 | 0150-2126 | 0150-1576 | 0150-1580 | 0150-1577 | 0150-1581 | 1110-9497 | 1110-9499 |
| MTR-4-3000-0-05 | 1110-8500 | 0150-1916 | 0150-1576 | 0150-1580 | 0150-1913 | --- | 1110-9497 | 1110-9499 |
| MTR-4-3000-I-05 | 1110-8400 | 0150-2127 | 0150-1576 | 0150-1580 | 0150-1913 | 0150-1170 | 1110-9497 | 1110-9499 |
| MTR-4-1500-0-10 | 1110-7900 | 0150-1590 | 0150-1576 | 0150-1580 | 0150-1577 | --- | 1110-9497 | 1110-9499 |
| MTR-4-1500-I-10 | 1110-7800 | 0150-2126 | 0150-1576 | 0150-1580 | 0150-1577 | 0150-1581 | 1110-9497 | 1110-9499 |
| MTR-4-3000-0-10 | 1110-8700 | 0150-1916 | 0150-1576 | 0150-1580 | 0150-1913 | --- | 1110-9497 | 1110-9499 |
| MTR-4-3000-I-10 | 1110-8600 | 0150-2127 | 0150-1576 | 0150-1580 | 0150-1913 | 0150-1170 | 1110-9497 | 1110-9499 |
| MTR-5-1500-0-10 | 1110-8000 | 0150-1145 | 0150-1576 | 0150-1588 | 0150-1577 | --- | 1110-6897 | 1110-6899 |
| MTR-5-1500-I-10 | 1110-8100 | 0150-1163 | 0150-1576 | 0150-1588 | 0150-1577 | 0150-1581 | 1110-6897 | 1110-6899 |
| MTR-5-3000-0-10 | 1110-8800 | 0150-1591 | 0150-1576 | 0150-1588 | 0150-1913 | --- | 1110-6897 | 1110-6899 |
| MTR-5-3000-I-10 | 1110-8900 | 0150-2128 | 0150-1576 | 0150-1588 | 0150-1913 | 0150-1170 | 1110-6897 | 1110-6899 |
| MTR-5-1500-0-15 | 1110-8200 | 0150-1145 | 0150-1576 | 0150-1588 | 0150-1577 | --- | 1110-6897 | 1110-6899 |
| MTR-5-1500-I-15 | 1110-8300 | 0150-1163 | 0150-1576 | 0150-1588 | 0150-1577 | 0150-1581 | 1110-6897 | 1110-6899 |
| MTR-5-3000-0-15 | 1110-9000 | 0150-1591 | 0150-1576 | 0150-1588 | 0150-1913 | --- | 1110-6897 | 1110-6899 |
| MTR-5-3000-I-15 | 1110-9100 | 0150-2128 | 0150-1576 | 0150-1588 | 0150-1913 | 0150-1170 | 1110-6897 | 1110-6899 |

*Repair Kit will also contain one (1) Seal Kit

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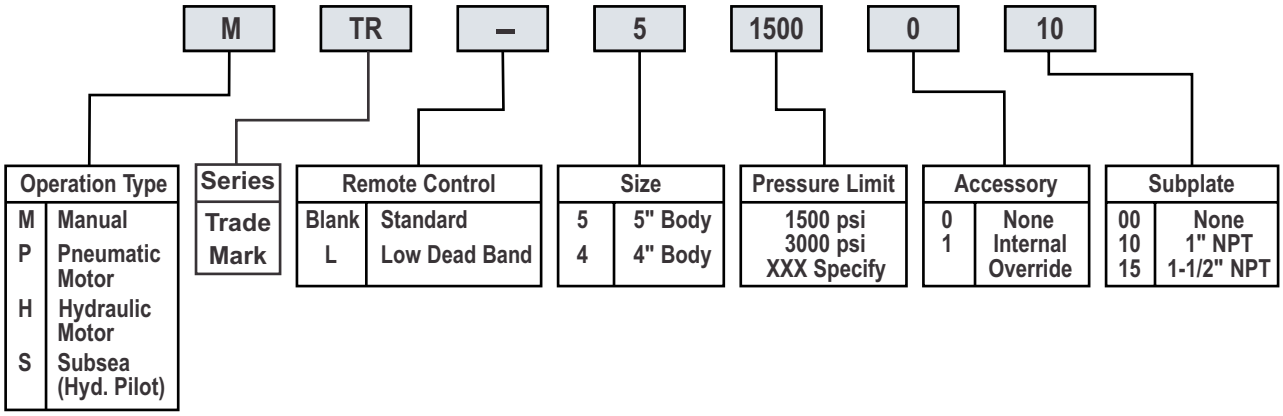
# STANDARD VERSION

## MODEL NUMBER IDENTIFICATION SYSTEM




### Specifications for Pressure Reducing and Regulating Valve

| PNEUMATIC | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| MODEL NO. | Final Ass'y Catalog P/N | Ass'y Less Subplate P/N | REGULATOR ASSEMBLY LESS SUBPLATE | | | | SEAL KIT P/N | REPAIR KIT* P/N |
| | | | OPERATOR TYPE | REGULATOR CONFIGURATION | | | | |
| | | | Air Motor | Basic Group | Spring Control Head | Internal Override | | |
| PTR-4-1500-0-05 | 1111-8300 | 0150-2129 | 0150-1922 | 0150-1580 | 0150-1577 | --- | 1110-9497 | 1110-9499 |
| PTR-4-1500-I-05 | 1111-8200 | 0150-2130 | 0150-1922 | 0150-1580 | 0150-1577 | 0150-1581 | 1110-9497 | 1110-9499 |
| PTR-4-3000-0-05 | 1111-9100 | 0150-2131 | 0150-1922 | 0150-1580 | 0150-1913 | --- | 1110-9497 | 1110-9499 |
| PTR-4-3000-I-05 | 1111-9000 | 0150-2132 | 0150-1922 | 0150-1580 | 0150-1913 | 0150-1170 | 1110-9497 | 1110-9499 |
| PTR-4-1500-0-10 | 1111-8500 | 0150-2129 | 0150-1922 | 0150-1580 | 0150-1577 | --- | 1110-9497 | 1110-9499 |
| PTR-4-1500-I-10 | 1111-8400 | 0150-2130 | 0150-1922 | 0150-1580 | 0150-1577 | 0150-1581 | 1110-9497 | 1110-9499 |
| PTR-4-3000-0-10 | 1111-9300 | 0150-2131 | 0150-1922 | 0150-1580 | 0150-1913 | --- | 1110-9497 | 1110-9499 |
| PTR-4-3000-I-10 | 1111-9200 | 0150-2132 | 0150-1922 | 0150-1580 | 0150-1913 | 0150-1170 | 1110-9497 | 1110-9499 |
| PTR-5-1500-0-10 | 1111-8600 | 0150-1164 | 0150-1922 | 0150-1588 | 0150-1577 | --- | 1110-6897 | 1110-6899 |
| PTR-5-1500-I-10 | 1111-8700 | 0150-2133 | 0150-1922 | 0150-1588 | 0150-1577 | 0150-1581 | 1110-6897 | 1110-6899 |
| PTR-5-3000-0-10 | 1111-9400 | 0150-2134 | 0150-1922 | 0150-1588 | 0150-1913 | --- | 1110-6897 | 1110-6899 |
| PTR-5-3000-I-10 | 1111-9500 | 0150-2135 | 0150-1922 | 0150-1588 | 0150-1913 | 0150-1170 | 1110-6897 | 1110-6899 |
| PTR-5-1500-0-15 | 1111-8800 | 0150-1164 | 0150-1922 | 0150-1588 | 0150-1577 | --- | 1110-6897 | 1110-6899 |
| PTR-5-1500-I-15 | 1111-8900 | 0150-2133 | 0150-1922 | 0150-1588 | 0150-1577 | 0150-1581 | 1110-6897 | 1110-6899 |
| PTR-5-3000-0-15 | 1111-9600 | 0105-2134 | 0150-1922 | 0150-1588 | 0150-1913 | --- | 1110-6897 | 1110-6899 |
| PTR-5-3000-I-15 | 1111-9700 | 0150-2135 | 0150-1922 | 0150-1588 | 0150-1913 | 0150-1170 | 1110-6897 | 1110-6899 |

*Repair Kit will also contain one (1) Seal Kit

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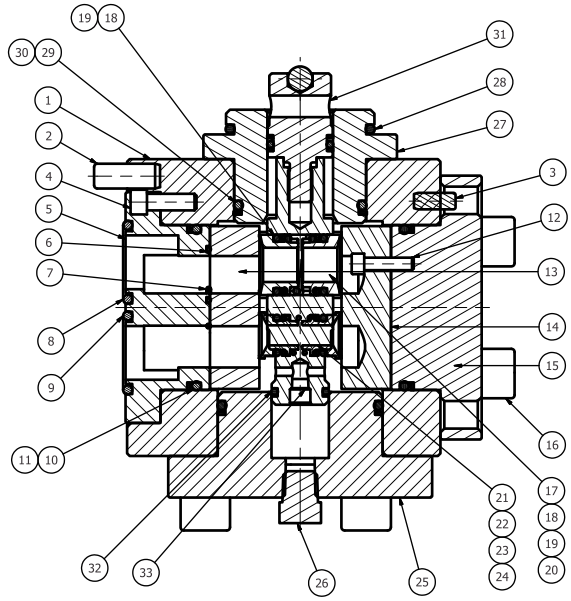
# TR FAIL-SAFE PRESSURE REDUCING AND REGULATING VALVE

## PART NO. 0150-1580, BASIC VALVE PARTS,

## SUB-ASSEMBLY, "TR4" REGULATOR




| Item | | Part No. | Description | Qty |
|---|---|---|---|---|
| 1 | | 0150-1530 | Body | 1 |
| 2 | | 8599-0216 | Pin | 1 |
| 3 | | 8599-0012 | Pin | 1 |
| 4 | | 8506-0012 | Socket Head Cap Screw | 1 |
| 5 | | 0150-1529 | Port Plate | 1 |
| 6 | * | 8717-2019 | O-Ring | 1 |
| 7 | * | 8717-2014 | O-Ring | 1 |
| 8 | * | 8717-2214 | O-Ring | 2 |
| 9 | * | 8717-2113 | O-Ring | 1 |
| 10 | * | 8717-2228 | O-Ring | 3 |
| 11 | * | 8841-2228 | Back-Up Ring | 3 |
| 12 | * | 805391 | Socket Head Cap Screw | 4 |
| 13 | ** | 0150-1527 | Flow Plate | 1 |
| 14 | ** | 0150-1528 | Flow Plate | 1 |
| 15 | | 0150-1533 | Flange | 1 |
| 16 | | 8504-4024 | Socket Head Cap Screw | 8 |
| 17 | ** | 0150-1142 | Hydraseat (Inlet) | 2 |
| 18 | * | 8717-2117 | O-Ring | 3 |
| 19 | * | 8841-2117 | Back-Up Ring | 4 |
| 20 | ** | 808566 | Seat Spring (Inlet) | 1 |
| 21 | ** | 0150-1549 | Hydraseat (Vent) | 2 |
| 22 | * | 8717-2111 | O-Ring | 2 |
| 23 | * | 8841-2111 | Back-Up Ring | 2 |
| 24 | ** | 0150-1592 | Seat Spring (Vent) | 1 |
| 25 | | 0150-1532 | Bottom Flange | 1 |
| 26 | | 805392 | Pipe Plug | 1 |
| 27 | | 0150-1150 | Piston Guide | 1 |
| 28 | * | 8717-2226 | O-Ring | 1 |
| 29 | * | 8717-2224 | O-Ring | 1 |
| 30 | * | 8841-2224 | Back-Up Ring | 1 |
| 31 | | 0150-1535 | Piston & Seal Container | 1 |
| 32 | * | 8717-2115 | O-Ring | 1 |
| 33 | ** | 0150-1172 | Orifice Plug | 1 |

*** Included in Standard Universal TR4 Seal Kit # 1110-9497**
**** Included in Standard Universal TR4 Repair Kit # 1110-9499 (Repair Kit also includes one Standard Universal Seal Kit).**

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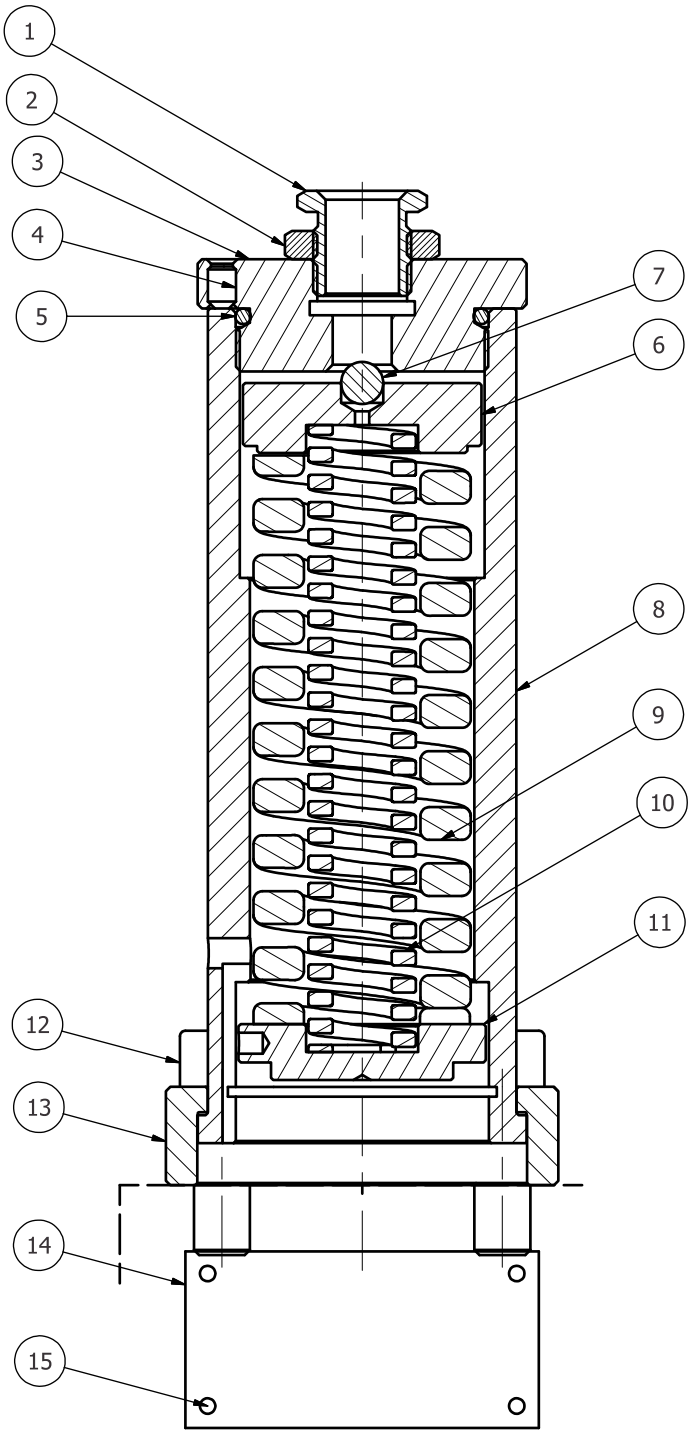
# Spring Control Head, 1500 PSI, Regulator, TR-4 / TR-5

## PART NO. 0150-1577




| Item | Part No. | Description | Qty. |
|---|---|---|---|
| 1 | 0150-1158 | Stop Nut | 1 |
| 2 | 0150-1168 | Lock Nut | 1 |
| 3 | 0150-1154 | Head Cap | 1 |
| 4* | 805396 | Set Screw | 1 |
| 5** | 8717-2226 | O-ring | 1 |
| 6 | 0150-1152 | Spring guide | 1 |
| 7 | 805396 | Ball | 1 |
| 8 | 0150-1153 | Head Tube | 1 |
| 9 | 7010-0900 | Compression Spring | 1 |
| 10 | 7010-0800 | Compression Spring | 1 |
| 11 | 0150-1151 | Spring Plate | 1 |
| 12 | 8504-4024 | Socket head Cap Screw | 4 |
| 13 | 0150-1173 | Head Flange | 1 |
| 14 | 0150-1548 | Name Plate | 1 |
| 15 | 8590-0001 | Drive Screw | 4 |

* Included in Standard Universal TR4 Seal Kit # 1110-9497

* Included in Standard Universal TR5 Seal Kit # 1110-6897

** Included in Standard Universal TR4 Repair Kit # 1110-9499

** Included in Standard Universal TR5 Repair Kit # 1110-6899

(Repair Kits also include one Standard Universal Seal Kit.)

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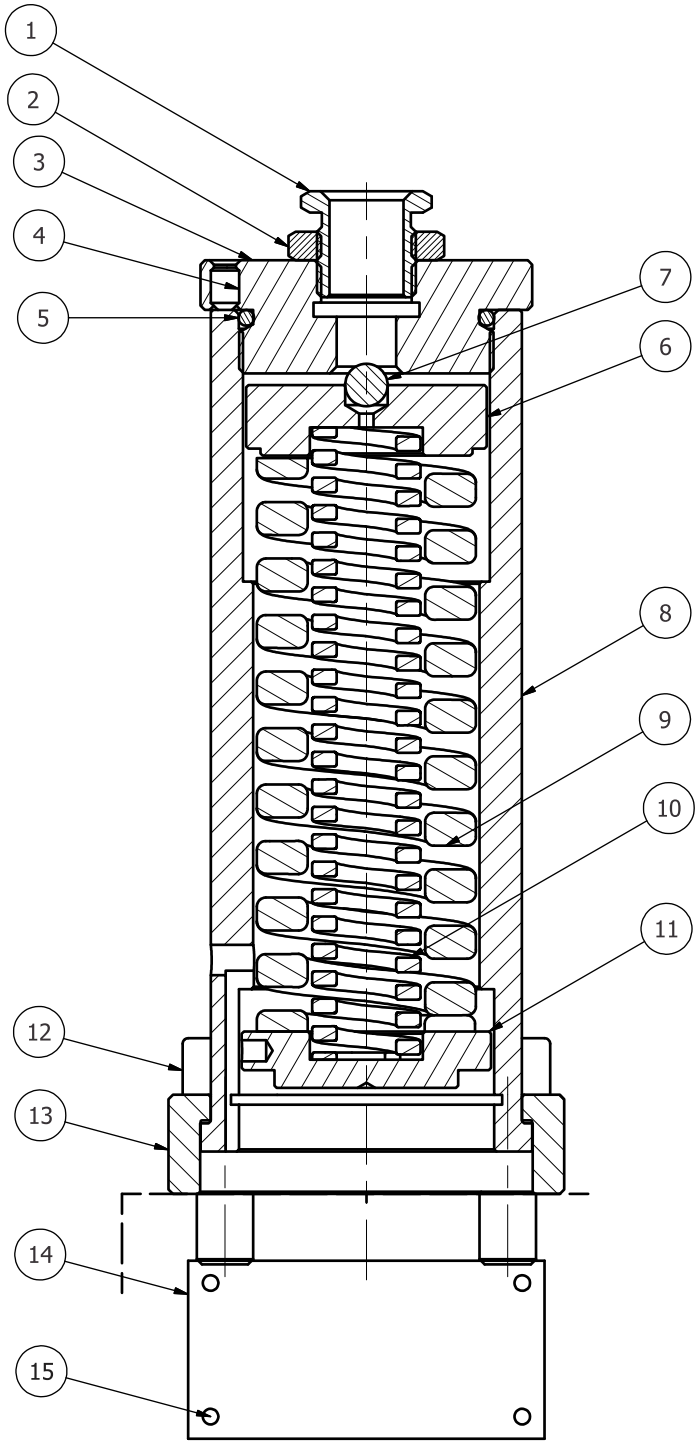
# Spring Control Head, 3000 PSI, Regulator, TR-4 / TR-5

## PART NO. 0150-1913




| Item | Part No. | Description | Qty. |
|---|---|---|---|
| 1 | 0150-1158 | Stop Nut | 1 |
| 2 | 0150-1168 | Lock Nut | 1 |
| 3 | 0150-1154 | Head Cap | 1 |
| 4** | 805395 | Set Screw | 1 |
| 5* | 8717-2226 | O-ring | 1 |
| 6 | 0150-1152 | Spring Guide | 1 |
| 7 | 805396 | Ball | 1 |
| 8 | 0150-1911 | Head Tube | 1 |
| 9 | 805397 | Compression Spring | 1 |
| 10 | 805398 | Compression Spring | 1 |
| 11 | 0150-1151 | Spring Plate | 1 |
| 12 | 8504-4024 | Socket head Cap Screw | 4 |
| 13 | 0150-1912 | Head Flange | 1 |
| 14 | 0150-1923 | Name Plate | 1 |
| 15 | 8590-0001 | Drive Screw | 4 |

* Included in Standard Universal TR4 Seal Kit # 1110-9497
* Included in Standard Universal TR5 Seal Kit # 1110-6897
** Included in Standard Universal TR4 Repair Kit # 1110-9499
** Included in Standard Universal TR5 Repair Kit # 1110-6899
(Repair Kits also include one Standard Universal Seal Kit.)

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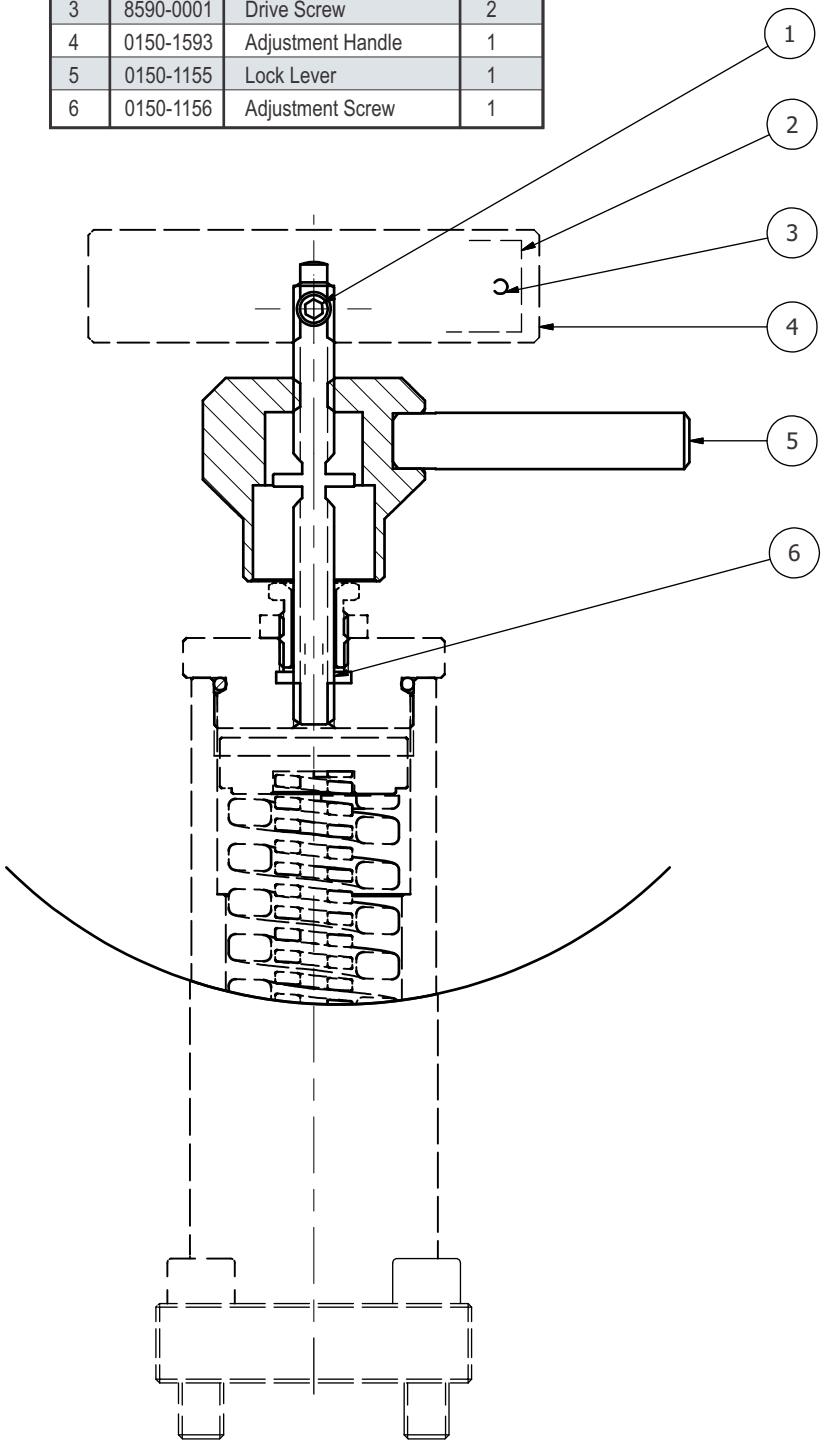
# Manual Operator, Regulator, TR-4 / TR-5

## PART NO. 0150-1576

| Item | Part No. | Description | Qty. |
|---|---|---|---|
| 1 | 8522-5000 | Set Screw | 1 |
| 2 | 0150-1589 | Name Plate | 1 |
| 3 | 8590-0001 | Drive Screw | 2 |
| 4 | 0150-1593 | Adjustment Handle | 1 |
| 5 | 0150-1155 | Lock Lever | 1 |
| 6 | 0150-1156 | Adjustment Screw | 1 |



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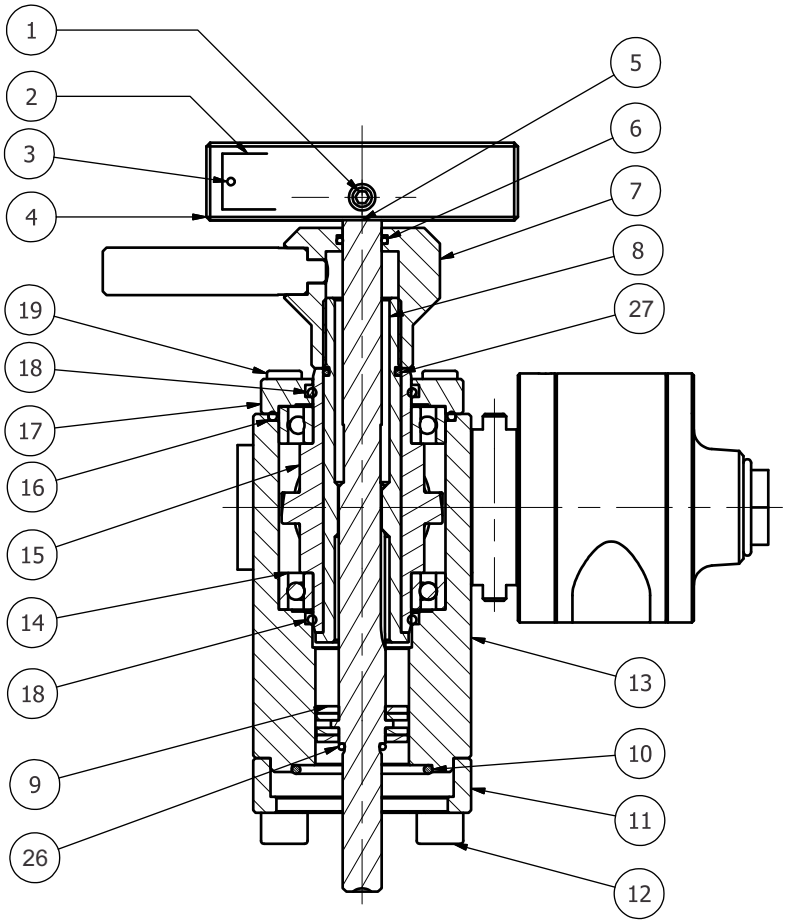
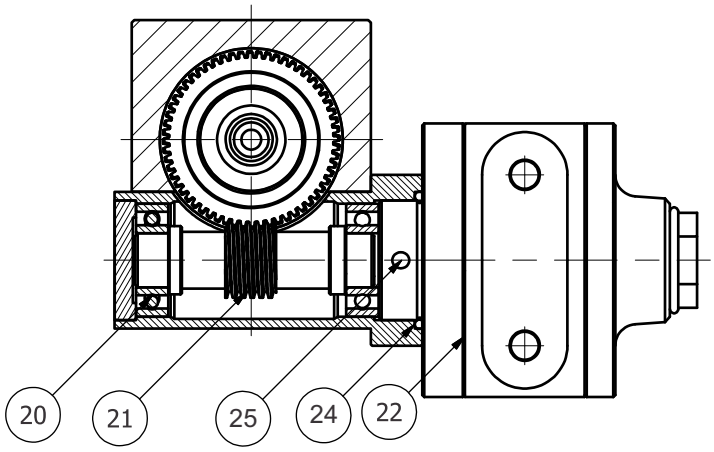
# Air Motor Drive
# Regulator, TR-4 / TR-5

## PART NO. 0150-1913




| Item | Part No. | Description | Qty. |
|---|---|---|---|
| 1 | 8522-5000 | Set Screw | 1 |
| 2 | 0150-1589 | Name Plate | 1 |
| 3 | 8590-0001 | Drive Screw | 2 |
| 4 | 0150-1593 | Adjustment Handle | 1 |
| 5 | 0150-1178 | Drive Shaft | 1 |
| 6 * | 8717-2114 | O-ring | 1 |
| 7 | 0150-1921 | Lock Lever | 1 |
| 8 | 0150-1925 | Drive Bushing | 1 |
| 9 | 0150-1545 | Disc | 4 |
| 10* | 8717-2226 | O-ring | 1 |
| 11 | 0150-1173 | Head Flange | 1 |
| 12 | 8504-4024 | Socket Head Cap Screw | 4 |
| 13 | 0150-1541 | Gear Box Body | 1 |
| 14 | 805493 | Bearing | 2 |
| 15 | 0150-1919 | Worm Wheel | 1 |
| 16* | 8717-2232 | O-ring | 1 |
| 17 | 0150-1542 | Cap | 1 |
| 18* | 8717-2223 | O-ring | 2 |
| 19 | 805491 | Socket Head Cap Screw | 4 |
| 20 | 805492 | Bearing | 2 |
| 21 | 0150-1918 | Worm | 1 |
| 22 | 3150-0300 | Air Motor | 1 |
| 23 | 810944 | Key (Not shown) | 1 |
| 24* | 8717-2224 | O-ring | 1 |
| 25 | 805490 | Set Screw | 2 |
| 26* | 8717-2113 | O-ring | 1 |
| 27* | 8717-2121 | O-ring | 1 |

* Included in Standard Universal TR4 Seal Kit # 1110-9497
* Included in Standard Universal TR5 Seal Kit # 1110-6897

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# AIR REGULATOR

| Description | Part No. | Repair Kit |
|---|---|---|
| 1/4" Air Regulator, Panel Mount, 0-125 psi | 1153-1100 | 1153-1199 |
| 1/4" Air Regulator, Panel Mount, 0-125 psi with Gauge and Bracket | 1153-1200 | 1153-1199 |
| 1/4" Air Regulator, Panel Mount, 0-125 psi with Gauge | 1153-1500 | 1153-1199 |
| 1/4" Air Regulator, Panel Mount, 0-250 psi with Gauge | 1153-1700 | 1153-1199 |

| Description | Part No. | Repair Kit |
|---|---|---|
| 3/8" Air Regulator, with Gauge, 0-125 psi | 1173-2100 | 1173-3199 |
| 1/2" Air Regulator, with Gauge, 0-125 psi | 1173-3100 | 1173-3199 |
| 1" Air Regulator, with Gauge, 0-125 psi | 1173-1400 | 1173-3199 |

| Description | Part No. | Repair Kit |
|---|---|---|
| 1/4" Air Regulator, with Gauge, 0-30 psi | 1160-1100 | 1160-1199 |

# AIR FILTER

| Part No. | Description | Element (50 Micron) Part No. | Bowl Part No. | Seal Kit Part No. |
|---|---|---|---|---|
| 2620-0100 | Filter, Air, 1/4", Metal Bowl, Manual Drain | 2620-0101 | 2620-0102 | 2620-0197 |
| 2620-3300 | Filter, Air, 1/2", Metal Bowl with Sight Glass, Auto Drain | 805536 | 805535 | 805540 |
| 2620-3600 | Filter, Air, 1", Metal Bowl with Sight Glass, Auto Drain | 805539 | 805538 | 805537 |

# AIR LUBRICATOR

| Description | Part No. | Repair Kit |
|---|---|---|
| 1/4" Air Lubricator, Metal Bowl w/Sight Gauge | 810257 | 811643 |
| 1/2" Air Lubricator, Metal Bowl w/Sight Gauge | 2704-0500 | 2704-0599 |
| 1" Air Lubricator, Metal Bowl w/Sight Gauge | 810261 | 811642 |

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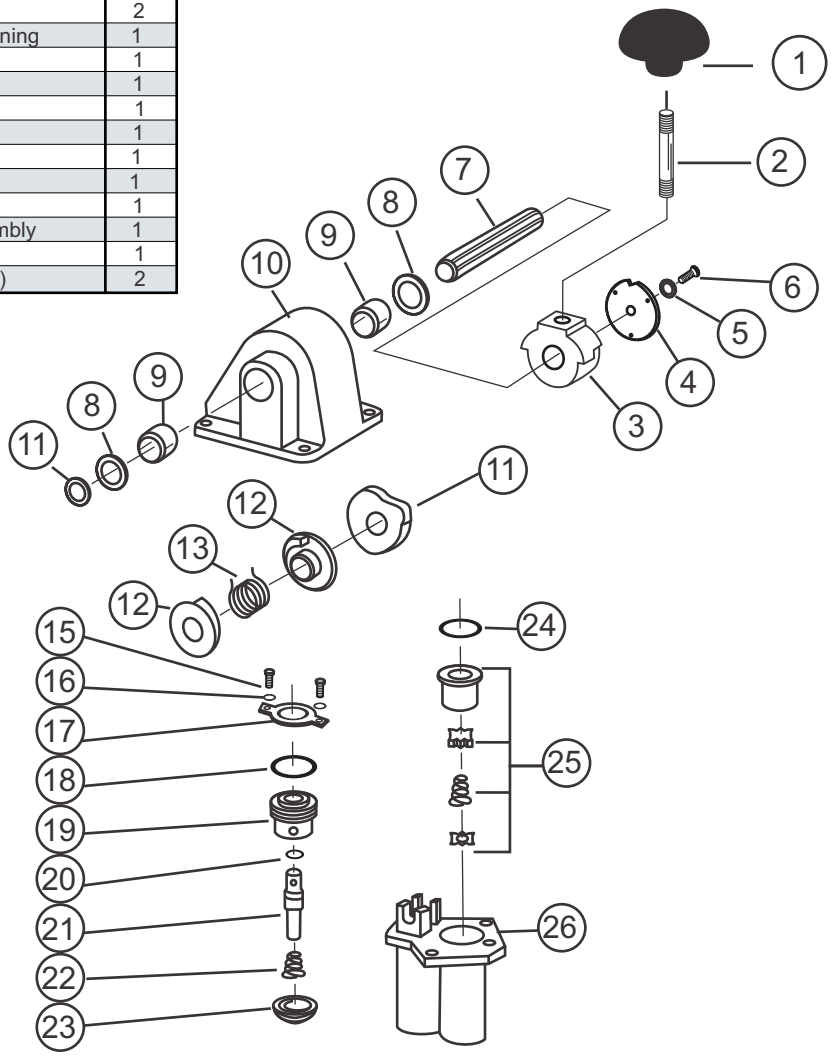
# AIR CONTROL VALVES

## 1/4" THREE-WAY, 150 PSI AIR CONTROL VALVE

## Part No. 1222-0100

| Item | Part No. | Description | Qty |
|---|---|---|---|
| Assy. | 1222-0100 | 1/4" Three-Way Air Valve | |
| Kit | 1222-0199 | Major Repair Kit ( Incl.) | |
| | | Cartridge Repair Kit | |
| Kit | 814798 | Cartridge Repair Kit | |
| 1 | 1222-0101 | Knob | 1 |
| 2 | 1222-0125 | Handle | 1 |
| 3 | 1222-0121 | Hub Handle | 1 |
| 4 | 1222-0122 | Nameplate | 1 |
| 5 | 8575-0300 | Washer | 1 |
| 6 | 8517-5000 | Screw | 1 |
| 7 | 1222-0126 | Shaft Handle | 1 |
| 8 | 1222-0105 | Washer | 2 |
| 9 | 1222-0127 | Spacer | 2 |
| 10 | 1222-0108 | Cam Housing | 1 |
| 11 | 1222-0106 | Retaining Ring | 1 |
| 12 | 1222-0104 | Arbor, Spring | 2 |
| 13 | 1222-0107 | Handle Return Spring | 1 |
| 14 | 1222-0120 | Cam | 1 |
| 15 | 8517-5500 | Screw | 2 |
| 16 | 8575-1000 | Washer | 2 |
| 17 | 1222-0117 | Flange, Valve Retaining | 1 |
| 18 ** | 8717-2115 | O-Ring | 1 |
| 19 * | 1222-0116 | Guide, Plunger | 1 |
| 20 ** | 8717-2010 | O-Ring | 1 |
| 21 * | 1222-0114 | Plunger | 1 |
| 22 ** | 1222-0112 | Spring, Valve | 1 |
| 23 ** | 1222-0111 | Seat, Valve | 1 |
| 24 ** | 8717-2115 | O-Ring | 1 |
| 25 ** | 1222-0102 | Supply Valve Assembly | 1 |
| 26 | 1222-0109 | Body | 1 |
| 27 | 8517-4000 | Screw ( Not Shown) | 2 |

* **Included in Major Repair Kit**
** **Included in Cartridge Repair Kit**



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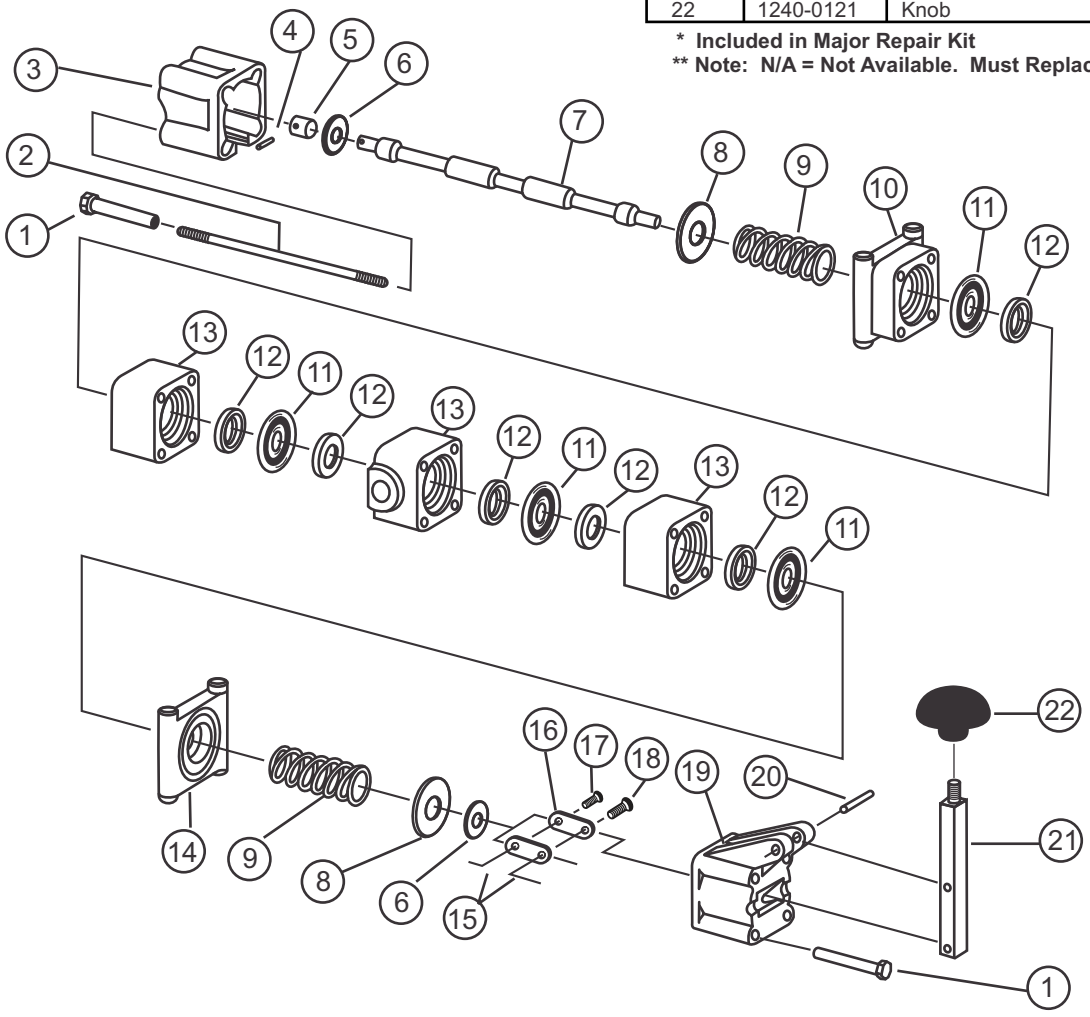
# AIR CONTROL VALVES

## 1/4" FOUR-WAY, 150 PSI AIR CONTROL VALVE

## Part No. 1240-0100

| Item | Part No. | Description | Qty |
|---|---|---|---|
| Assy. | 1240-0100 | 1/4" Four-Way Air Valve | |
| Kit | 1240-0199 | Repair Kit | |
| 1 | 1240-0122 | Nut, Mounting Adapter | 8 |
| 2 | 1240-0107 | Tie Road | 4 |
| 3 | 1240-0104 | Cage, Spring | 1 |
| 4 | N/A | Roll Pin | |
| 5 | 1240-0113 | Sleeve, Retainer | 2 |
| 6 | N/A | Stop | 2 |
| 7 * | N/A | Stem | 1 |
| 8 | N/A | Retainer, Spring | 2 |
| 9 * | 1240-0101 | Spring | 2 |
| 10 | N/A | Cover ( "B" End) | 1 |
| 11 * | N/A | Packing Ring | 4 |
| 12 * | 1240-0102 | Retainer | 6 |
| 13 | N/A | Body Segment | 3 |
| 14 | N/A | Cover ( "A" End ) | 1 |
| 15 | 1011-0106 | Pin, Cotter | 2 |
| 16 | N/A | Link | 2 |
| 17 | N/A | Pin | 1 |
| 18 | 1240-0108 | Pin | 1 |
| 19 | N/A | Adapter, Mounting | 1 |
| 20 | 1240-0110 | Roll Pin | 1 |
| 21 | 1240-0119 | Lever | 1 |
| 22 | 1240-0121 | Knob | 1 |

*** Included in Major Repair Kit**
**** Note: N/A = Not Available. Must Replace Valve.**



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# VALVES

## 1/4" FOUR-WAY, THREE-POSITION, SPRING CENTERED, 250 PSI, PANEL MOUNT Part No. 1242-0100

| Item | Part No. | Description | Qty |
|---|---|---|---|
| Assy. Kit | 1242-0100 | 1/4" Four-Way Air Valve | 1 |
| 1 | 1242-0113 | Body | 4 |
| 2 | N/A | Washer, Shear Seal | 4 |
| 3 | 8717-2012 | O-Ring | 4 |
| 4 | N/A | Shear Seal Seat | 1 |
| 5 | N/A | Ball Rotor | 1 |
| 6 | N/A | Spring Rotor | 1 |
| 7 | N/A | Rotor | 1 |
| 8 | N/A | Shaft | 1 |
| 9 | N/A | Thrust Washer | 1 |
| 10 | 8717-2035 | O-Ring | 1 |
| 11 | 8717-2111 | O-Ring | 1 |
| 12 | N/A | Plate | 1 |
| 13 | 1242-0112 | Housing | 1 |
| 14 | 1242-0122 | Spring Pin | 4 |
| 15 | 1242-0121 | Screw | 1 |
| 16 | N/A | Washer | 1 |
| 17 | N/A | Spring, Center | 1 |
| 18 | N/A | Retaining Ring | 1 |
| 19 | 1242-0123 | Washer | 1 |
| 20 | N/A | Spring Cover | 1 |
| 21 | N/A | Handle Pin | 1 |
| 22 | 1242-0102 | Set Screw | 2 |
| 23 | 1242-0101 | Handle | 1 |

N/A = Not Available - Must Replace Valve.

## CROWN BLOCK SAVER COMPONENTS PART NO. 1250-0100 - THREE-WAY RESET AIR VALVE FOR CBS-ST

| Item | Part No. | Description | Qty |
|---|---|---|---|
| Assy. Kit | 1250-0100<br>1250-0199 | 1/2" 3-Way Air Valve<br>Repair Kit | |
| 1 | 8510-3050 | Screw | 4 |
| 4 | 1250-0107 | Ball | 6 |
| 5* | 8717-2212 | O-Ring (Qty 2 in R.K.) | 3 |
| 8 | 1250-0119 | Washer | 1 |
| 9* | 8717-2215 | O-Ring | 2 |
| 13* | 8717-2214 | O-Ring | 1 |
| 14* | 8719-2113 | O-Ring | 3 |
| 17 | 1250-0101 | Tumbler Cap | 1 |
| 18 | 1250-0103 | Screw | 3 |
| 19 | 1250-0108 | Screw | 2 |
| 20 | 1250-0102 | Tumbler | 1 |
| 21 | 1250-0104 | Pin | 1 |
| 22 | 1250-0106 | Clamp | 1 |
| 23 | 1250-0105 | Handle | 1 |
| 24 | 1250-0107 | Ball (Handle) | 1 |

* **Included in Repair Kit**
**Note: Items 2, 3, 6, 7, 10, 11, 12, 15 & 16 are Not Sold Separate - Must Replace Valve.**

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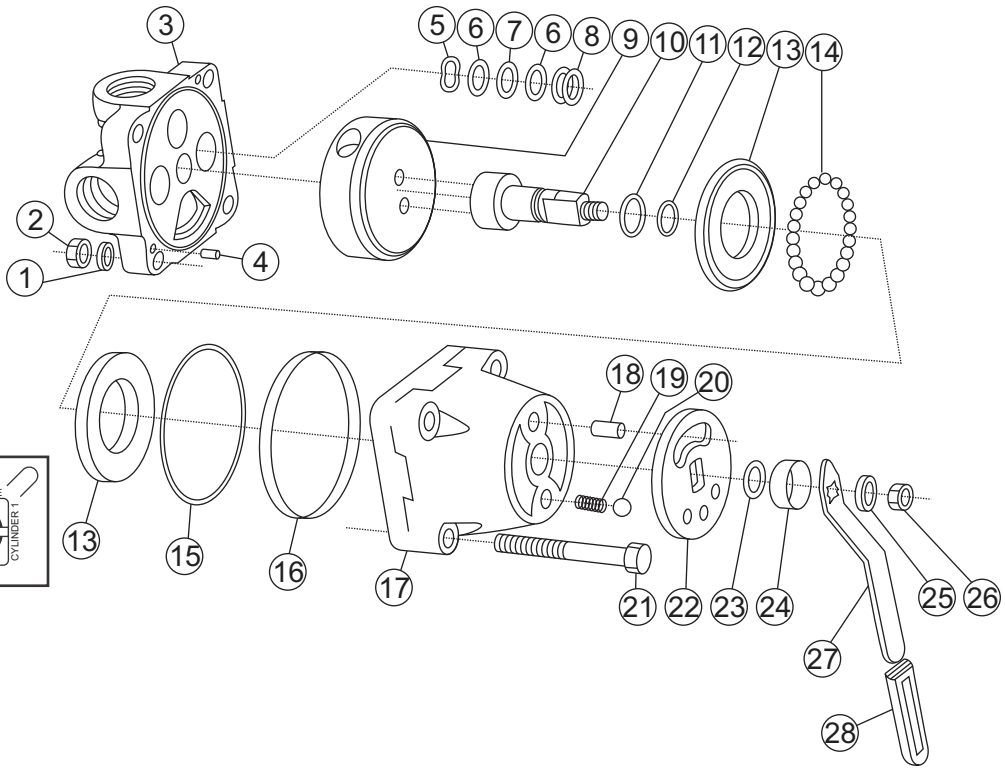
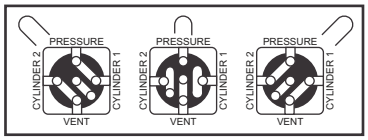
# HYDRAULIC CONTROL VALVES

## 3000 PSI HYDRAULIC, FOUR-WAY, THREE POSITION SHEAR-SEAL, SELECTOR TYPE CONTROL VALVES




**SELECTOR VALVE**

| Size | Part No. |
|---|---|
| 1/4" | 1330-0100 |
| 1/2" | 1330-2100 |
| 1" | 1330-4100 |
| 1-1/2" | 1330-5100 |

| Item | Description | 1/4" | Qty | 1/2" | Qty | 1" | Qty | 11-2" | Qty |
|---|---|---|---|---|---|---|---|---|---|
| Kit | Repair Kit, Major | 1330-0199 | | 1330-2199 | | 1330-4199 | | 1330-5199 | |
| Kit | Repair Kit, Minor (Also in Major Repair Kit) | 1330-0198 | | 1330-2198 | | 1330-4198 | | 1330-5198 | |
| Kit | Seal Kit (Included in Repair Kit) | 1320-0197 | | 1320-2197 | | 1320-4197 | | 1320-5197 | |
| 1 | Lockwasher | 1320-0124 | 4 | 8575-1200 | 4 | 1320-4122 | 4 | 1320-5110 | 4 |
| 2 | Nut | 1320-0125 | 4 | 1320-2116 | 4 | 1320-4123 | 4 | 1320-5111 | 4 |
| 3 | Body | 1320-0123 | 1 | 1320-2110 | 1 | 1320-4121 | 1 | 1320-5109 | 1 |
| 4 | Dowel Pin | 1320-0122 | 2 | 1320-2109 | 2 | 1320-4120 | 2 | 1320-4120 | 2 |
| 5** | Washer | 1320-0121 | 3 | 1320-2108 | 3 | 1320-4119 | 3 | 1320-5108 | 3 |
| 6** | Back-Up Ring | 8841-2011 | 3 | 8841-2112 | 6 | 8841-2116 | 6 | 8841-2219 | 6 |
| 7** | O-Ring | 8717-2011 | 3 | 8717-2112 | 3 | 8717-2116 | 3 | 8717-2219 | 3 |
| 8** | Seat | 1320-0120 | 3 | 1320-2107 | 3 | 1320-4118 | 3 | 1320-5107 | 3 |
| 9** | Rotor | 1330-0102 | 1 | 1330-2102 | 1 | 1330-4101 | 1 | 1330-5101 | 1 |
| 10 | Shaft | 1320-0118 | 1 | 1320-2106 | 1 | 1320-4116 | 1 | 1320-5105 | 1 |
| 11** | O-Ring | 8717-2112 | 1 | 8717-2210 | 1 | 8717-2212 | 1 | 8717-2212 | 1 |
| 12** | O-Ring | N/A | | N/A | | 8717-2115 | 1 | 8717-2115 | 1 |
| 13* | Thrust Washer | 1320-0114 | 1 | 1320-2117 | 2 | 1320-4113 | 2 | 1320-5103 | 2 |
| 14* | Ball Bearing | 1320-0115 | 17 | 1320-0108 | 20 | 1320-4114 | 26 | 1320-5104 | 22 |
| 15** | O-Ring | 8719-2224 | 1 | 8719-2231 | 1 | 8719-2243 | 1 | 8719-2258 | 1 |
| 16 | Retainer, Ball | 1320-0116 | 1 | N/A | | 1320-4125 | 1 | 1320-5125 | 1 |
| 17 | Housing | 1320-0113 | 1 | 1320-2111 | 1 | 1320-4112 | 1 | 1320-5102 | 1 |
| 18 | Stop Pin | 1320-0110 | 1 | 1320-2114 | 1 | 1320-4110 | 1 | 1320-4110 | 1 |
| 19 | Spring, Detent | 1320-0109 | 1 | 1390-0107 | 1 | 1320-4109 | 1 | 1320-4109 | 1 |
| 20 | Ball, Detent | 1320-0108 | 1 | 1320-0108 | 1 | 1320-4108 | 1 | 1320-4108 | 1 |
| 21 | Screw | 1320-0112 | 4 | 1320-2105 | 4 | 1320-4111 | 4 | 1320-5101 | 4 |
| 22 | Disc, Detent | 1320-0107 | 1 | 1320-2112 | 1 | 1320-4107 | 1 | 1320-4107 | 1 |
| 23 | Retaining Ring | 1320-0117 | 1 | 1320-2118 | 1 | 1320-4115 | 1 | 1320-4115 | 1 |
| 24 | Handle Spacer | 1320-0106 | 1 | 1320-2101 | 1 | 1320-4106 | 1 | 1320-4106 | 1 |
| 25 | Washer, Shaft | 1320-0102 | 1 | 1320-2104 | 1 | 1320-4102 | 1 | 1320-4102 | 1 |
| 26 | Nut, Shaft | 1320-0101 | 1 | 1320-2102 | 1 | 1320-4101 | 1 | 1320-4101 | 1 |
| 27 | Handle | 1320-0103 | 1 | 1330-2101 | 1 | 1320-4103 | 1 | 1320-4103 | 1 |
| 28 | Grip | 1320-0105 | 1 | 1320-2103 | 1 | 1320-4105 | 1 | 1320-4105 | 1 |

* Included in Repair Kit, Major
** Included in Seal Kit

SPECIAL NOTE: Minor Repair Kit Consists of the Seal Kit and Rotor Only.

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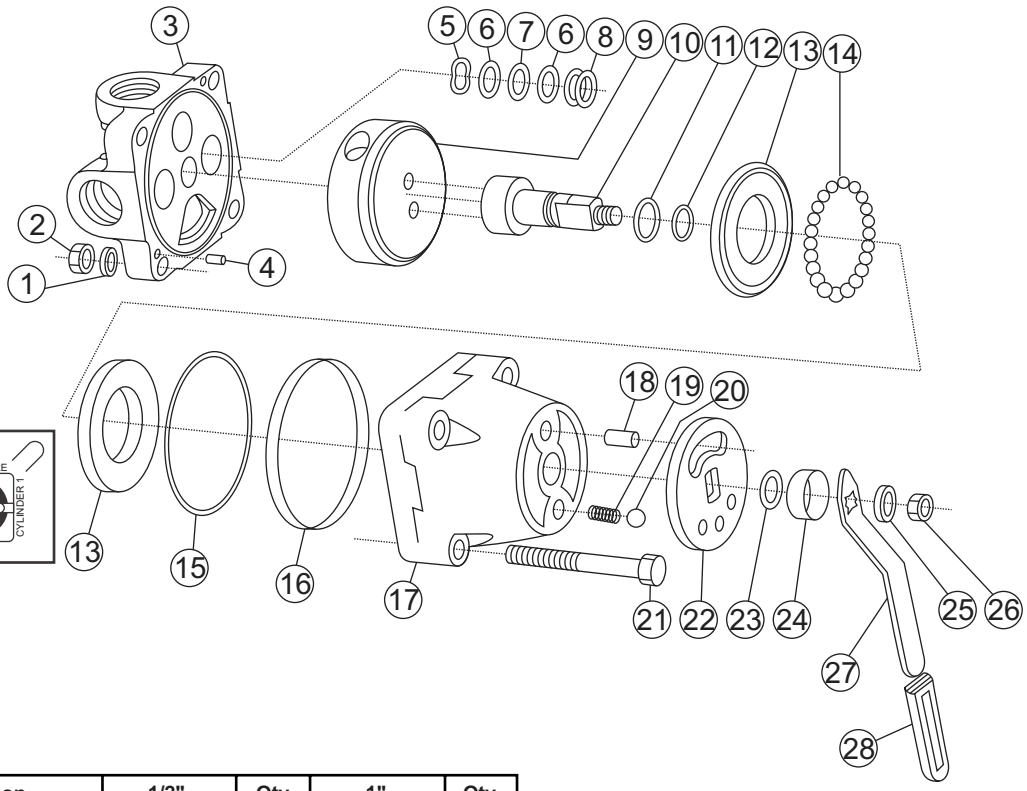
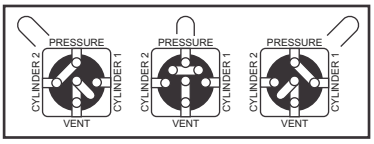
# HYDRAULIC CONTROL VALVES

## 3000 PSI HYDRAULIC, FOUR-WAY, THREE POSITION SHEAR-SEAL, BYPASS TYPE CONTROL VALVES




**BYPASS VALVE**

| Size | Part No. |
|---|---|
| 1/2" | 1390-1200 |
| **1"** | 1390-1100 |

| Item | Description | 1/2" | Qty | 1" | Qty |
|---|---|---|---|---|---|
| Kit | Repair Kit, Major | 1390-1299 | | 1390-1199 | |
| Kit | Repair Kit, Minor (Also in Major Repair Kit) | 1390-1298 | | 1390-1198 | |
| Kit | Seal Kit (Included in Repair Kit) | 1320-2197 | | 1320-4197 | |
| 1 | Lockwasher | 8575-1200 | 4 | 1320-4122 | 4 |
| 2 | Nut | 1320-2116 | 4 | 1320-4123 | 4 |
| 3 | Body | 1320-2110 | 1 | 1320-4121 | 1 |
| 4 | Dowel Pin | 1320-2109 | 2 | 1320-4120 | 2 |
| 5** | Washer | 1320-2108 | 3 | 1320-4119 | 3 |
| 6** | Back-Up Ring | 8841-2112 | 6 | 8841-2116 | 6 |
| 7** | O-Ring | 8717-2112 | 3 | 8717-2116 | 3 |
| 8** | Seat | 1320-2107 | 3 | 1320-4118 | 3 |
| 9* | Rotor | 1390-1201 | 1 | 1390-1101 | 1 |
| 10 | Shaft | 1320-2106 | 1 | 1320-4116 | 1 |
| 11** | O-Ring | 8717-2210 | 1 | 8717-2212 | 1 |
| 12** | O-Ring | N/A | | 8717-2115 | 1 |
| 13* | Thrust Washer | 1320-2117 | 2 | 1320-4113 | 2 |
| 14* | Ball Bearing | 1320-0108 | 20 | 1320-4114 | 26 |
| 15** | O-Ring | 8719-2231 | 1 | 8719-2243 | 1 |
| 16 | Retainer, Ball | N/A | | 1320-4125 | 1 |
| 17 | Housing | 1320-2111 | 1 | 1320-4112 | 1 |
| 18 | Stop Pin | 1320-2114 | 1 | 1320-4110 | 1 |
| 19 | Spring, Detent | 1390-0107 | 1 | 1320-4109 | 1 |
| 20 | Ball, Detent | 1320-0108 | 1 | 1320-4108 | 1 |
| 21 | Screw | 1320-2105 | 4 | 1320-4111 | 4 |
| 22 | Disc, Detent | 1320-2112 | 1 | 1320-4107 | 1 |
| 23 | Retaining Ring | 1320-2118 | 1 | 1320-4115 | 1 |
| 24 | Handle Spacer | 1320-2101 | 1 | 1320-4106 | 1 |
| 25 | Washer, Shaft | 1320-2104 | 1 | 1320-4102 | 1 |
| 26 | Nut, Shaft | 1320-2102 | 1 | 1320-4101 | 1 |
| 27 | Handle | 1330-2101 | 1 | 1320-4103 | 1 |
| 28 | Grip | 1320-2103 | 1 | 1320-4105 | 1 |

* **Included in Repair Kit, Major**

** **Included in Seal Kit**

**SPECIAL NOTE: Minor Repair Kit Consists of the Seal Kit and Rotor Only.**

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# CHECK VALVE, 5,000 PSI

| Item | Part No. | Description |
|---|---|---|
| 1 | 1601-0100 | Valve Check Poppet, Inline 1/8" NPT Port |
| 2 | 1601-0150 | Valve Check Poppet, Inline 1/4" NPT Port |
| 3 | 1601-0300 | Valve Check Poppet, Inline 3/8" NPT Port |
| 4 | 1601-1100 | Valve Check Poppet, Inline 1/2" NPT Port |
| 5 | 1601-2100 | Valve Check Poppet, Inline 3/4" NPT Port |
| 6 | 1601-3100 | Valve Check Poppet, Inline 1" NPT Port |
| 7 | 1601-4100 | Valve Check Poppet, Inline 1-1/4" NPT Port |
| 8 | 1601-5100 | Valve Check Poppet, Inline 1-1/2" NPT Port |
| 9 | 1601-6100 | Valve Check Poppet, Inline 2" NPT Port |

# VALVES

## GLOBE VALVES 10,000 PSI NEEDLE VALVES

### BALL VALVES HI-PRESSURE

| Description | Part No. |
|---|---|
| 1/2" CS 7,300 psi | 818306 |
| 1/2" SS 6,000 psi | 818110 |
| 3/4" SS 6,000 psi | 818111 |
| 1" CS 6,000 psi | 818308 |
| 1" SS 6,000 psi | 818098 |
| 1-1/4" CS 6,000 psi | 830345 |
| 1-1/2" CS 6,000 psi | 818631 |
| 1-1/2" SS 6,000 psi | 824984 |

### 200 PSI BALL/COMBO VALVES

| Description | Part No. |
|---|---|
| Ball Valve, 3/8" FPT | 1510-0100 |
| Ball Valve, 1/2" FPT | 1510-1100 |
| Ball Valve, 3/4" FPT | 1510-2100 |
| Ball Valve, 1" FPT | 1510-3100 |
| Ball Valve, 1-1/2" FPT | 1510-4100 |
| Ball Valve, 2" FPT | 1510-5100 |
| Ball Valve, 1/4" FPT | 1510-6100 |
| Gate Valve, 2-1/2" FPT | 1510-7100 |

### 10,000 PSI NEEDLE VALVE

| Description | Part No. |
|---|---|
| Needle Valve, 3/8" FPT | 1522-1100 |
| Needle Valve, 1/2" FPT | 1522-2100 |
| Needle Valve, 3/4" FPT | 1522-3100 |
| Needle Valve, 1" FPT | 1522-4100 |
| Needle Valve, 1/4" FPT | 1522-5100 |
| Needle Valve, 1/2" FPT | 1522-7100 |
| Needle Valve, 1/8" FPT | 1522-8100 |

### 6,000 PSI NEEDLE VALVE

| Description | Part No. |
|---|---|
| Needle Valve 6000 psi, 1/2" FPT, S.S. | 1522-6100 |

### 5,000 PSI NEEDLE VALVES

| Description | Part No. |
|---|---|
| Needle Valve, 1/4" Tube, S.S. | 1522-1200 |
| Needle Valve, 1/4" Tube, Brass | 1522-1300 |
| Needle Valve, 1/4" Tube, S.S. | 1522-1400 |
| Needle Valve, 3/8" Tube, S.S. | 1522-1500 |

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# VALVES

## RELIEF VALVES

| Part No. |
|---|
| 1700-8500 Relief Valve, 3300 psi |
| 1700-8700 Relief Valve, 5500 psi |

## QUICK RELEASE VALVE

MAXIMUM WORKING PRESSURES :

200 PSI on 1/4" and 3/8",
150 PSI on 1/2" thru 1" sizes.

MATERIAL : Die-cast aluminum body.

Synthetic rubber diapragm.

## ORDER REFERENCE

| Part Size | Part Number | Description | Weight | Capacity CV | |
|---|---|---|---|---|---|
| | | | | In to out | Out to exh. |
| 1/4" | 1290-0400 | Quick Release Valve | 10 oz. | 1.77 | 2.50 |

ALUMINIUM BODY

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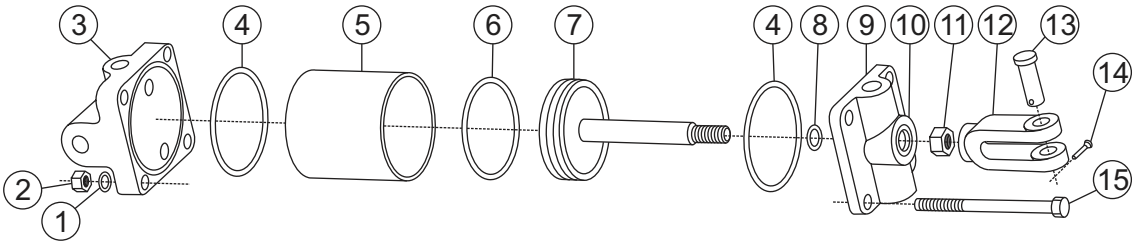
# AIR CYLINDERS

## 2 POSITION AIR CYLINDER - 200 PSI WORKING PRESSURE

| Description | 2" Bore | 3" Bore | 4" Bore |
|---|---|---|---|
| Air Cylinder with Clevis Assembly | 2000-0100 | 2000-1100 | 2000-2100 |
| Clevis | 2000-0110 | 2000-1110 | 2000-2110 |
| Repair Kit | 2000-0199 | 2000-1199 | 805083 |




## 3 POSITION AIR CYLINDER - 200 PSI WORKING PRESSURE

| Item | Description | 2" Bore | Qty | 3" Bore | Qty |
|---|---|---|---|---|---|
| Assy. | Air Cylinder with Clevis | 2001-0500 | | 808972 | |
| Kit | Repair Kit | 2001-0599 | | 2001-1199 | |
| Assy. | Clevis Assy. | 2000-1110 | | 2000-2110 | |

# FILTERS / SNUBBERS

## HIGH PRESSURE DISCHARGE FILTERS

| Description | Filter | Element |
|---|---|---|
| 1/2" NPT, 10 Micron | 2633-1100 | 2634-1210 |
| 1" NPT, 40 Micron | 2633-2600 | 2634-2200 |
| 2" NPT, 40 Micron | 2633-3100 | 2634-4200 |

## SNUBBERS

| Part No. | Description |
|---|---|
| 1730-0100 | 1/4" MPT X 1/4" FPT Oil 303 SS |
| 1730-1100 | 1/2" MPT x 1/2" FPT Oil 303 SS |
| 1731-0100 | 1/4" MPT x 1/4" FPT Water 303 Stainless Steel Grade E |
| 815310 | 1/4" Male Tube x 1/4" MPT 316 SS Grade D |
| 815391 | 1/4" Tube x 1/2" FPT 316 SS Grade D |
| 815726 | 1/4" Tube x 1/4" Tube Union Swagelok Grade E 316 SS |
| 815801 | 1/4" Tube x 1/4" MPT Grade E (water, light oil) 316 SS |
| 817013 | 1/4" Tube x 1/4" MPT Grade E 316 SS |
| 1740-0100 | 1/4" MPT x 1/4" MPT Oriface |

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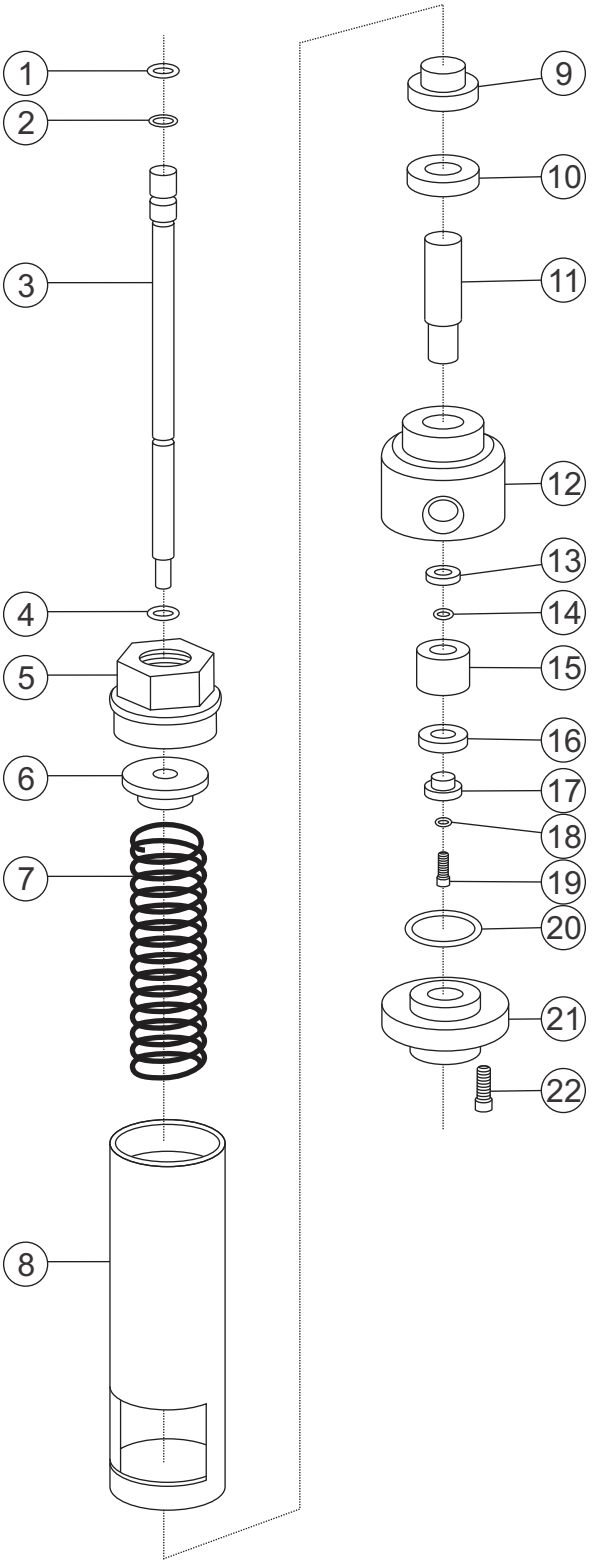
# PRESSURE SWITCHES

## PART NO. 2250-0100 - HYDRO-PNEUMATIC PRESSURE SWITCH

| Item | Part No. | Description | Qty |
|---|---|---|---|
| Assy. | 2250-0100 | Hydro-Pneumatic Pressure Switch 3000 psi | |
| Assy. | 2250-0200 | Hydro-Pneumatic Pressure Switch 5000 psi | |
| Assy. | 2250-0300 | Hydro-Pneumatic Pressure Switch 1500 psi | |
| Kit | 2250-0199 | Repair Kit | |
| 1* | 8717-2111 | O-Ring | 1 |
| 2* | 8841-2111 | Back-Up Ring | 1 |
| 3 | 2250-0113 | Rod | 1 |
| 4* | 8717-2012 | O-Ring | 1 |
| 5 | 2250-0115 | Fluid Inlet Body | 1 |
| 6 | 2250-0114 | Spring Retainer | 1 |
| 7 | | Spring | |
| | 2250-0112 | For 3000 psi | |
| | 2250-0201 | For 5000 psi | |
| | 2250-0301 | For 1500 psi | |
| 8 | 2250-0111 | Sleeve | 1 |
| 9 | 2250-0110 | Adjustment Nut | 1 |
| 10 | 2250-0109 | Stop | 1 |
| 11 | 2250-0116 | Male Threaded Insert | 1 |
| 12 | 2250-0108 | Inlet Body | 1 |
| 13 | 2250-0107 | Spacer | 1 |
| 14* | 8718-2012 | O-Ring | 1 |
| 15 | 2250-0106 | Sleeve | 1 |
| 16* | 2250-0101 | Seal | 1 |
| 17 | 2250-0103 | Retainer | 1 |
| 18 | 8575-1200 | Lock Washer | 1 |
| 19 | 2250-0102 | Cap Screw | 1 |
| 20* | 8717-2225 | O-Ring | 1 |
| 21 | 2250-0105 | Outlet Body | 1 |
| 22 | 8504-2012 | Cap Screw | 1 |

*** Included in Repair Kit**

**Part No. 2250-0100**
**Dimensions :**
Height – 15-1/2"
Width – 3-1/4"
Depth – 3-1/4"
**Weight : 17 Pounds**



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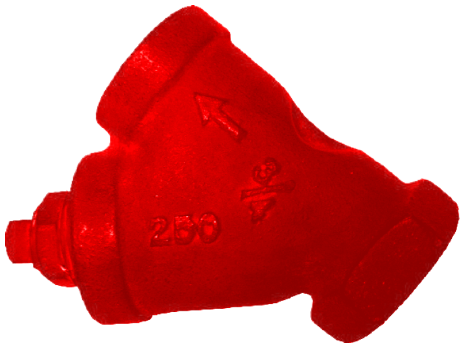
# STRAINERS

## Y-TYPE STRAINER

| Part No. | Description |
|---|---|
| 2600-0101 | Screen Only, Y-Type, 1/2" FPT |
| 2600-1101 | Screen Only, Y-Type, 3/4" FPT |
| 2600-2101 | Screen Only, Y-Type, 1" FPT |
| 2600-3101 | Screen Only, Y-Type, 1-1/2" FPT |
| 2600-4101 | Screen Only, Y-Type, 2" FPT |
| 2600-5101 | Screen Only, Y-Type, 2-1/2" FPT |

| Part No. | Description |
|---|---|
| 2600-0100 | Strainer,Y-Type,1/2" FPT |
| 2600-1100 | Strainer,Y-Type, 3/4" FPT |
| 2600-2100 | Strainer,Y-Type, 1" FPT |
| 2600-3100 | Strainer,Y-Type, 1-1/2 " FPT |
| 2600-4100 | Strainer,Y-Type, 2" FPT |
| 2600-5100 | Strainer,Y-Type, 2-1/2" FPT |
| 2600-6100 | Strainer,Y-Type, 1-1/2" FPT, 3000 psi |
| 2600-6101 | Bonnet Sub-Assy. w/Element |



## T-TYPE STRAINER

| Part No. | Description |
|---|---|
| 2610-0100 | Strainer T-Type, 6000 psi |
| 2610-0101 | Element |
| 8717-2218 | O-Ring |

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# PUMPS

## PART NO. 3012-2100 - AIR OPERATED PUMP
## 60:1 RATIO, 8-1/2" DIA. AIR MOTOR

| Item | Part No. | Description | Qty |
|---|---|---|---|
| Assy. | 3012-2100 | Air Operated Hydraulic Pump | |
| Assy. | 3023-0100 | Air Motor, 8-1/2" Diameter Assy. | |
| Assy. | 3033-0100 | Fluid End Assembly | |
| Kit | 3012-2199 | Complete Repair Kit (Contains Air Motor And Fluid End Repair Kit) | |
| Kit | 3023-0199 | Air Motor Repair Kit | |
| Kit | 3033-0199 | Fluid End Repair Kit | |
| 1 | 3022-0111 | Air Line | 2 |
| 2 | 3022-0104 | Adapter | 4 |
| 3 | 3022-0119 | Nut | 2 |
| 4 | 3022-0117 | Trip Spring Retainer | 2 |
| 5* | 8717-2115 | O-Ring | 2 |
| 6* | 3022-0120 | Trip Spring | 2 |
| 7* | 3023-0108 | Ball | 2 |
| 8 | 3023-0102 | Cylinder Head | 1 |
| 9 | 3022-0118 | Bolt | 2 |
| 10 | 3022-0125 | Bolt | 8 |
| 11 | 3022-0122 | Adapter Exhaust Plate | 2 |
| 12 | 3022-0121 | Exhaust Plate | 2 |
| 13 | 3022-0112 | Nut | 10 |
| 14* | 3022-0102 | Valve Sleeve | 1 |
| 15* | 8717-2133 | O-Ring | 5 |
| 16 | 3022-0114 | Stop Nut | 1 |
| 17 | 3022-0115 | Upper Valve Keeper | 1 |
| 18* | 3022-0103 | Air Valve | 1 |
| 19* | 8757-2128 | O-Ring | 2 |
| 20* | 3023-0109 | Lower Valve Keeper | 1 |
| 21* | 8717-2011 | O-Ring | 1 |
| 22 | 3022-0105 | Bushing | 1 |
| 23* | 3023-0103 | Gasket | 2 |
| 24* | 3022-0124 | Retainer Ring | 1 |
| 25* | 3023-0106 | Cylinder | 1 |

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 26* | 3023-0112 | Valve Rod Assembly | 1 |
| 27 | 3022-0107 | Piston Nut | 1 |
| 28 | 3023-0104 | Piston Nut Washer | 1 |
| 29 | 3023-0105 | Piston | 1 |
| 30 | 3022-0127 | Valve Trip Collar | 1 |
| 31* | 8717-2445 | O-Ring | 1 |
| 32 | 3022-0113 | Piston Rod | 1 |
| 33* | 8717-2216 | O-Ring | 1 |
| 34 | 3023-0113 | Motor Base | 1 |
| 35 | N/A | Connecting Rod | 1 |
| 36 | 3032-0120 | Coupling Nut | 1 |
| 37 | 8585-1600 | Jam Nut | 1 |
| 38 | 3033-0101 | Plunger Rod | 1 |
| 39** | 3033-0104 | Washer, Piston | 1 |
| 40** | 3033-0109 | Lower Packing Spring | 1 |
| 41** | 3033-0108 | Packing Set | 2 |
| 42** | 3032-0108 | Ball | 1 |
| 43 | 3033-0105 | Piston Body Assembly | 1 |
| 44 | 3033-0103 | Lower Pump Block | 1 |
| 45** | 3033-0102 | Upper Packing Spring | 1 |
| 46** | 3033-0110 | Washer | 1 |
| 47** | 8717-2137 | O-Ring | 2 |
| 48 | 3033-0111 | Pump Tube | 1 |
| 49** | 3033-0113 | Ball Stop | 1 |
| 50** | 3033-0106 | Ball | 1 |
| 51 | 3033-0107 | Foot Valve Assembly | 1 |
| 52 | 3032-0101 | Stanchion Washer | 6 |
| 53 | 3032-0102 | Stanchion | 2 |
| 54 | 3032-0105 | Stanchion Nut | 2 |

*** Included in Air Motor Repair Kit**

**** Included in Fluid End Repair Kit**

| | | |
|---|---|---|
| RATIO: | 60:1 | 60:1 |
| DELIVERY: | 2.6 GPM | 9.8 LPM |
| CYCLE RATE: | 30/GALLON | 7.9/LITER |
| MAX. PRESS.: | 6,000 PSI | 414 BAR |
| FLUID INLET: | 1" FNPT | 1" FNPT |
| FLUID OUTLET: | 1/2" FNPT | 1/2" FNPT |
| AIR INLET | 1/2" FNPT | 1/2" FNPT |

- APPROXIMATE AIR REQUIRMENTS PER GALLON @ 100 PSI, 53 SCFM
- APPROXIMATE AIR REQUIRMENTS PER 3.8 LITERS @ 6.9 BAR, 25 L/s (1.50$m^3$/min.)

**Dimensions:**

Height – 34-3/8"
Width – 16"
Depth – 10-5/8"

**Weight – 65 pounds**

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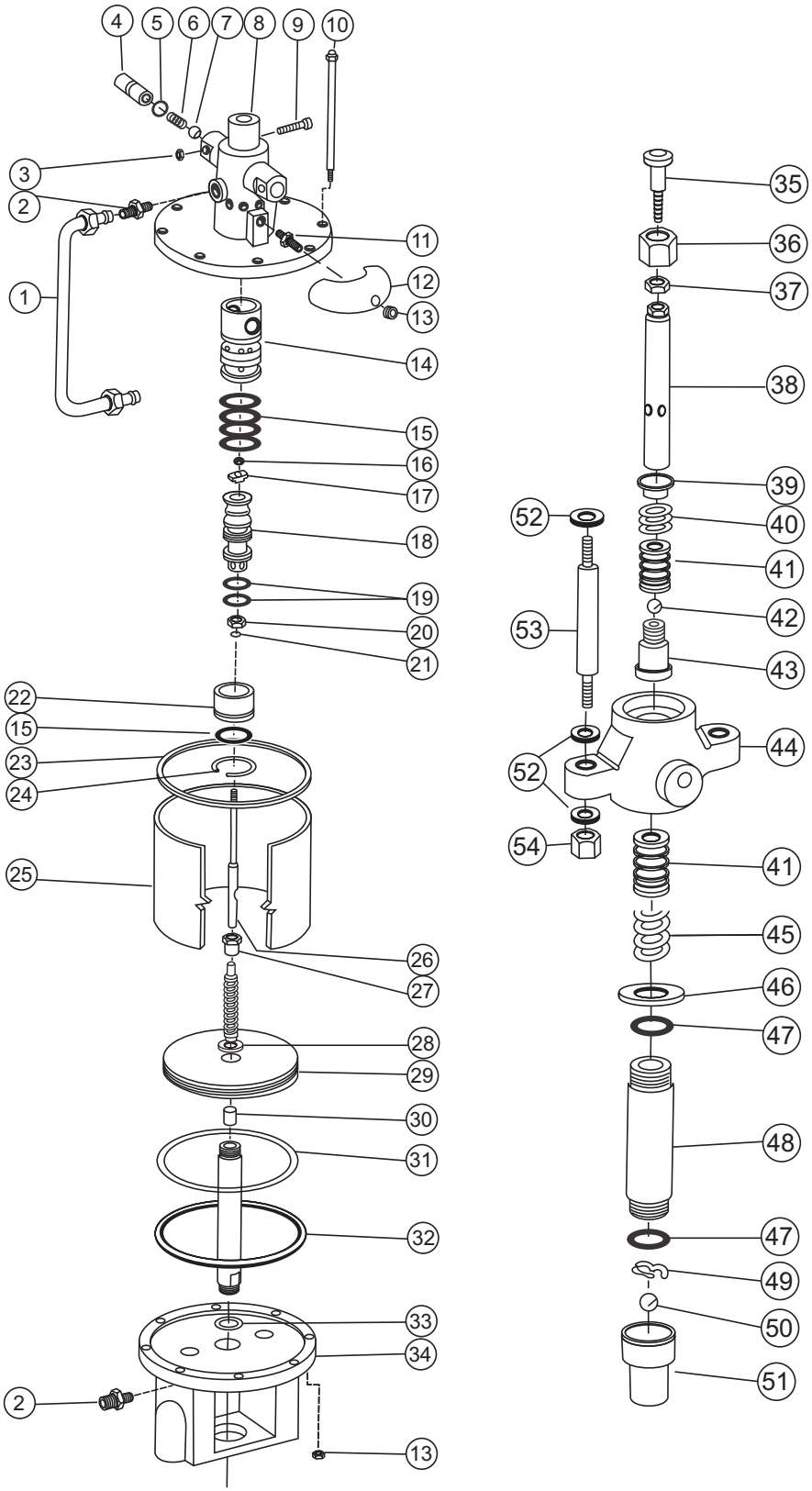
# PUMPS

## PART NO. 3012-2100 - AIR OPERATED PUMP
## 60:1 RATIO, 8-1/2" DIA. AIR MOTOR



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# PUMPS

## NEW T-SERIES TRIPLEX PUMPS
## 30, 40 AND 50 HORSEPOWER

| Item | Description | 30 HP | 40 HP | 50 HP | |
|---|---|---|---|---|---|
| | | 1" Plunger | 1-1/8"- Plunger | 1-1/4"-Plunger | Qty |
| Assy | Triplex Pump | 3002-0100 | 3003-1200 | 3003-1300 | |
| Kit | Repair Kit | 3002-0199 | 3003-1299 | 3003-1399 | |
| 1 | Nut | 816285 | 816283 | 816283 | 24 |
| 2 | Cylinder Head | 3002-2126 | 3002-2126 | 3002-2126 | 3 |
| 3 | Stud | 817904 | 817908 | 817909 | 24 |
| 4 | Cylinder Head Extension | 817818 | 817840 | 3003-1127 | 3 |
| 5* | Valve Cover Gasket | 817817 | 817839 | 817849 | 6 |
| 6* | Valve Spring | 3002-2122 | 3003-1122 | 3003-1122 | 6 |
| 7* | Valve | 3002-2120 | 817834 | 3003-1120 | 6 |
| 8* | Valve Seat (Not Shown) | 3002-2121 | 817833 | 3003-1121 | 6 |
| 9 | Fluid Cylinder | 3002-2118 | 817827 | 3003-1117 | 1 |
| 10 | Discharge Valve Stop | 817814 | 817837 | 3003-1119 | 3 |
| 11 | Discharge Valve Cover | 817799 | 817838 | 3003-1118 | 3 |
| 12* | Stuffing Box Gasket | 3002-2124 | 817843 | 3003-1124 | 3 |
| 13 | Stuffing Box Throat Bushing | 3002-2130 | 817844 | 817852 | 3 |
| 14 | Stuffing Box | 3002-2127 | 817842 | 3003-1128 | 3 |
| 15 | Stuffing Box Flange | 3002-2123 | 817841 | 300-1123 | 1 |
| 16* | Packing | 819821 | 817848 | 817855 | 3 |
| 17 | Gland Follower | 817819 | 817845 | 817853 | 3 |
| 18* | Plunger | 817820 | 817847 | 817854 | 3 |
| 19 | Stuffing Box Gland | 3002-2128 | 817846 | 3003-1129 | 3 |
| 20 | Crosshead Stub Deflector | 3002-2108 | 3003-1108 | 3003-1108 | 3 |
| 21* | Crosshead Stub Seal | 3002-2118 | 817825 | 817825 | 6 |
| 22 | Crosshead Stub Seal Cap | 3002-2113 | 3003-1113 | 3003-1113 | 3 |
| 23 | Crosshead Stub Seal Gasket | 3002-2116 | 817826 | 817826 | 3 |
| 24 | Screw | 3001-3114 | 3001-3114 | 3001-3114 | 6 |
| 25* | Nut | 816284 | 816283 | 816283 | 8 |
| 26* | Nut | 816286 | 816284 | 816284 | 4 |
| 27 | Stud | 3001-3113 | 817910 | 817910 | 8 |
| 28 | Stud | 817905 | 817911 | 817911 | 4 |
| 29 | Screw | 8540-1011 | 817824 | 817824 | 12 |
| 30 | Crankshaft Frame Cap-Outboard | 3002-2111 | 3003-1111 | 3003-1111 | 1 |
| 31* | Shim-Outboard | 817906 | 817913 | 817913 | 6 |
| 32 | Bearing | 3002-2104 | 3003-1104 | 3003-1104 | 2 |
| 33 | Race, Bearing | 3001-2140 | 3003-1140 | 3003-1140 | 2 |
| 34 | Crankcase Breather | 3006-2119 | 817822 | 817822 | 1 |
| 35 | Power Frame | 3002-2101 | 3003-1101 | 3003-1101 | 1 |
| 36 | Plug | 8017-0500 | 3003-0500 | 3003-0500 | 3 |
| 37 | Crosshead Assembly | 3002-2196 | 3003-1105 | 3003-1105 | 3 |
| 38 | Connecting Rod Assembly | 3002-2102 | 817823 | 817823 | 3 |
| 39 | Crankcase Gasket | 3002-2115 | 3003-1115 | 3003-1115 | 1 |
| 40 | Crankcase Cover | 3002-2114 | 3003-0114 | 3003-0114 | 1 |
| 41 | Screw | 8540-1009 | 8540-1009 | 8540-1009 | 12 |
| 42 | Crankshaft | 3002-2103 | 3003-1103 | 3003-1103 | 1 |
| 43* | Shim-Inboard | 817907 | 817912 | 817912 | 3 |
| 44 | Crankcase Oil Seal | 3002-2117 | 3003-1116 | 3003-1116 | 1 |
| 45 | Crankshaft Frame Cap-Inboard | 3002-2112 | 3003-1112 | 3003-1112 | 1 |
| 46 | Sight Glass | 3002-2141 | 3003-1135 | 3003-1135 | 1 |
| 47 | Crosshead Pin | 3002-0106 | TBD | TBD | 3 |

*** Included in Repair Kit**

**Dimensions :**
Height – 14-11/16"
Width – 25-1/2"
Depth – 38-1/4"
**Weight : 1020 Pounds**

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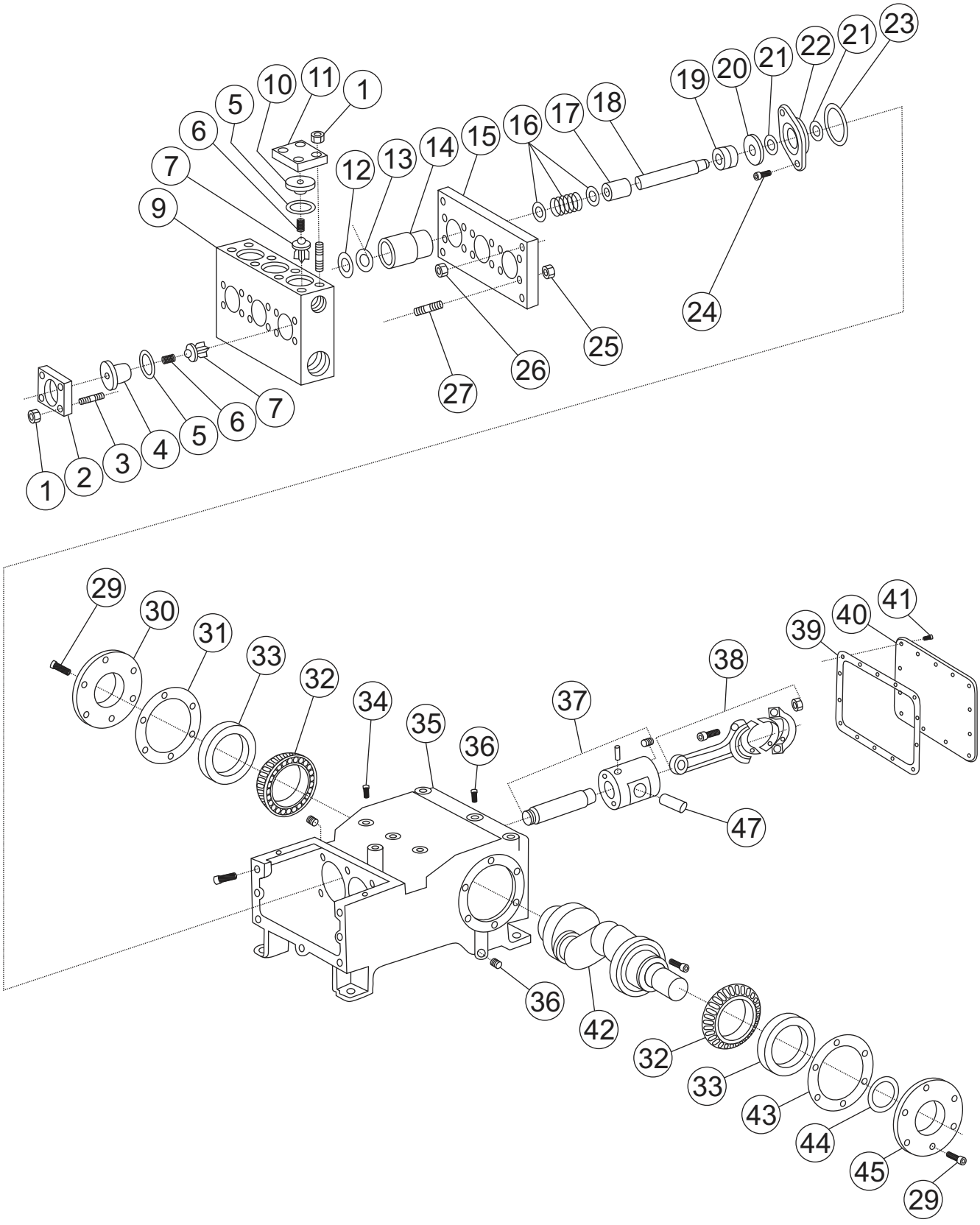
# PUMPS

## NEW T-SERIES TRIPLEX PUMPS
## 30, 40 AND 50 HORSEPOWER