

# MODEL 1530RSCM.CO2



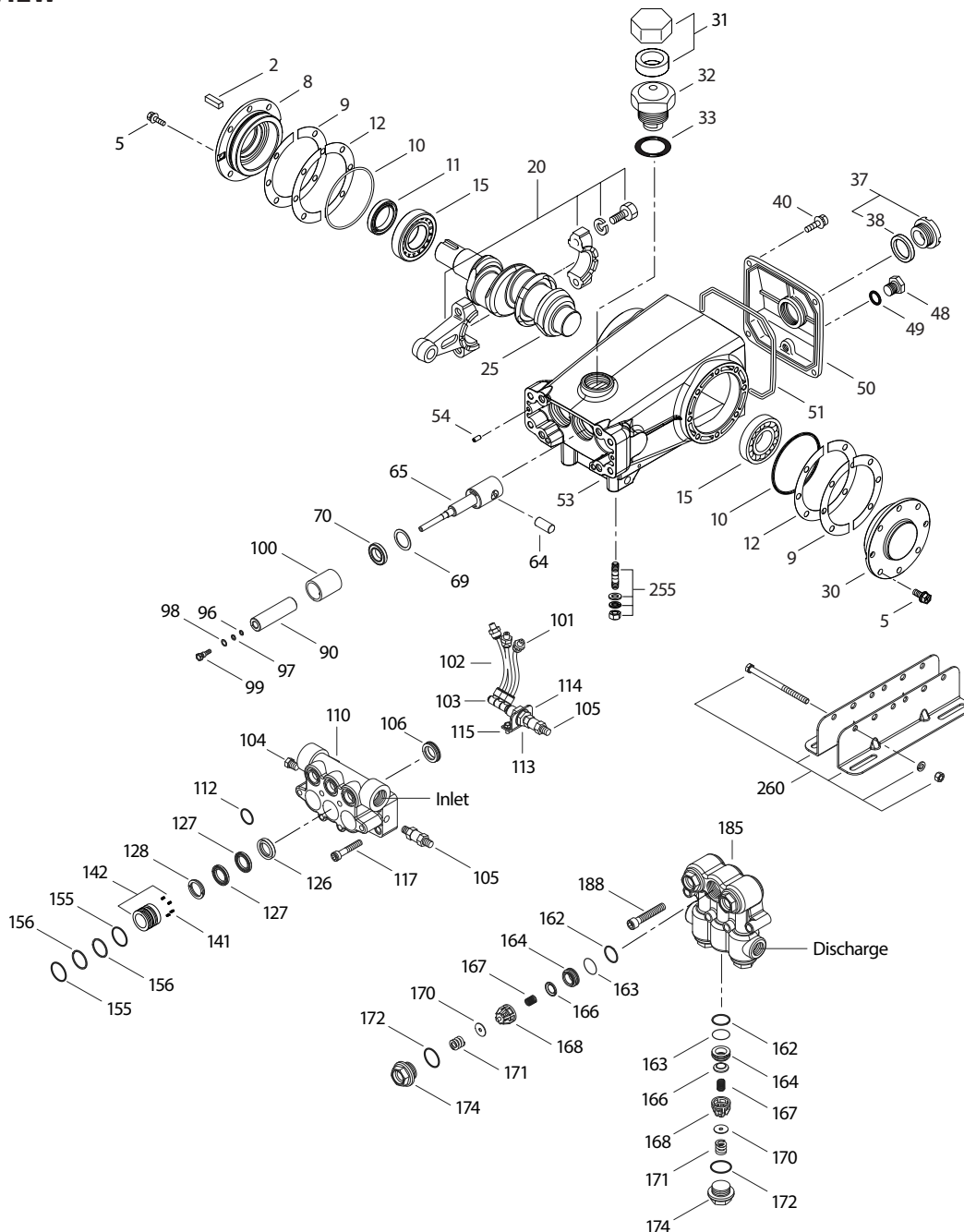
| SPECIFICATIONS            | U.S. Measure | Metric Measure |
|---------------------------|--------------|----------------|
| Flow                      | 5.0 gpm      | 19.0 lpm       |
| Pressure Range            | 400–1800 psi | 27.5–124 bar   |
| Pump RPM*                 | 450 rpm      | 450 rpm        |
| Inlet Pressure Range**    | 300–400 psi  | 21–27.5 bar    |
| Min. Liquid Temperature** | -20° F       | -29° C         |
| Bore                      | 0.984"       | 25 mm          |
| Stroke                    | 1.181"       | 30 mm          |
| Crankcase Capacity        | 42 oz        | 1.26 l         |

| SPECIFICATIONS      | U.S. Measure          | Metric Measure     |
|---------------------|-----------------------|--------------------|
| Inlet Ports (2)     | 1" NPT(F)             | 1" NPT(F)          |
| Flush Ports (2)     | 1/4" NPT(F)           | 1/4" NPT(F)        |
| Discharge Ports (2) | 3/4" NPT(F)           | 3/4" NPT(F)        |
| Shaft Diameter      | 1.181"                | 30 mm              |
| Weight              | 55 lbs                | 25 kg              |
| Dimensions          | 17.24 x 12.99 x 7.40" | 438 x 330 x 188 mm |

\*Pump minimum is 100 RPM.

\*\*Temperature and pressure must be maintained to keep incoming CO<sub>2</sub> in a liquid state.

## EXPLODED VIEW



(Parts List on Reverse Side)

June 2023

## PARTS LIST

| ITEM | PN     | MATL   | DESCRIPTION                                                            | QTY |
|------|--------|--------|------------------------------------------------------------------------|-----|
| 2    | 990036 | STL    | Key (M8 x 7 x 40) (Use with 990012 "B" Hub)                            | 1   |
|      | 30067  | STL    | Key (M8 x 7.5 x 25) (Use with 30059 "H" Hub)                           | 1   |
| 5    | 126540 | STCP R | Screw, Sems HHC (M8 x 20)<br>(See Tech Bulletins 074, 128)             | 8   |
| 8    | 134805 | ALE    | Cover, Bearing (See Tech Bulletins 118, 128)                           | 1   |
| 9    | 855043 | FBR    | Shim, Split 2-Piece (See Tech Bulletin 128)                            | 0–2 |
| 10   | 11340  | NBR    | O-Ring, Bearing Cover–70D                                              | 2   |
| 11   | 43495  | NBR    | Seal, Oil, Crankshaft                                                  | 1   |
| 12   | 855044 | SS     | Shim, Split 2-Piece (See Tech Bulletin 128)                            | 0–2 |
| 15   | 39060  | STL    | Bearing, Roller                                                        | 2   |
| 20   | 768600 | TNM    | Rod, Connecting Assembly (with PLM Bushing)<br>(See Tech Bulletin 074) | 3   |
| 25   | 49954  | FCM    | Crankshaft, Single End (M30)                                           | 1   |
| 30   | 134803 | ALE    | Cover, Bearing, Blind                                                  | 1   |
| 31   | 828710 | —      | Protector, Oil Cap with Foam Gasket                                    | 1   |
| 32   | 43211  | ABS    | Cap, Oil Filler                                                        | 1   |
| 33   | 14177  | NBR    | O-Ring, Filler Cap–70D                                                 | 1   |
| 37   | 92241  | PC     | Gauge, Oil, Bubble with Gasket–80D                                     | 1   |
| 38   | 44428  | NBR    | Gasket, Flat, Oil Gauge–80D                                            | 1   |
| 40   | 126541 | STCP R | Screw, Sems HHC (M6 x 20) (See Tech Bulletin 074)                      | 4   |
| 48   | 25625  | STCP   | Plug, Drain (¼" x 19 BSP)                                              | 1   |
| 49   | 23170  | NBR    | O-Ring, Drain Plug–70D                                                 | 1   |
| 50   | 133576 | ALE    | Cover, Rear (See Tech Bulletin 118)                                    | 1   |
| 51   | 44834  | NBR    | O-Ring, Rear Cover–70D                                                 | 1   |
| 53   | 134889 | ALE    | Crankcase, Assembly (Includes: 54)<br>(See Tech Bulletins 118, 128)    | 1   |
| 54   | 27488  | S      | Pin, Guide                                                             | 2   |
| 64   | 763507 | CM     | Pin, Crosshead (with Flats)                                            | 3   |
| 65   | 76228  | SHS    | Rod, Plunger (with Set Screws)                                         | 3   |
| 69   | 126592 | STCP R | Washer, Oil Seal                                                       | 3   |
| 70   | 43500  | NBR    | Seal, Oil Crankcase                                                    | 3   |
| 90   | 48606  | CC     | Plunger, Ceramic (M25 x 92)                                            | 3   |
| 96   | 43235  | PTFE   | Backup Ring, Plunger Retainer                                          | 3   |
| 97   | 17399  | NBR    | O-Ring, Plunger Retainer–80D                                           | 3   |
| 98   | 45891  | CU     | Gasket, Plunger Retainer                                               | 3   |
| 99   | 104360 | S      | Retainer, Plunger (See Tech Bulletin 074)                              | 3   |
| 100  | 769509 | AL     | Retainer, Seal                                                         | 3   |

| ITEM | PN        | MATL   | DESCRIPTION                                                                                       | QTY |
|------|-----------|--------|---------------------------------------------------------------------------------------------------|-----|
| 101  | 999490    | D      | Adapter                                                                                           | 3   |
| 102  | 999492    | NY     | Tubing                                                                                            | 3   |
| 103  | 999491    | PLM    | Manifold                                                                                          | 1   |
| 104  | 22177     | BBCP   | Plug (¼" NPT[M])                                                                                  | 1   |
| 105  | 33937     | SS     | Valve, Check (¼" NPT[M])                                                                          | 2   |
| 106  | 701944    | SFTA   | Seal, Low-Pressure with SS–Spring                                                                 | 3   |
| 110  | 48608C    | FBB    | Manifold, Inlet (Flushed)                                                                         | 1   |
| 112  | 14200     | NBR    | O-Ring, Inlet Manifold–70D                                                                        | 3   |
| 113  | 34338     | BB     | Union (¼" NPT[M])                                                                                 | 1   |
| 114  | 34347     | STZP   | Bracket                                                                                           | 1   |
| 115  | 990776    | STZP R | Screw, HHC (¼" – 20 x ½")                                                                         | 2   |
| 117  | 126515    | STCP R | Screw, HSH (M10 x 55) (See Tech Bulletin 074)                                                     | 4   |
| 126  | 48538     | BB     | Adapter, Female                                                                                   | 3   |
| 127  | 44610     | STG    | V-Packing                                                                                         | 6   |
| 128  | 48539     | BB     | Adapter, Male                                                                                     | 3   |
| 141  | 48672     | SS     | Spring, Coil                                                                                      | 18  |
| 142  | 48550     | BB     | Spacer with Coil Springs                                                                          | 3   |
| 155  | 17629     | NBR    | O-Ring, Spacer–80D                                                                                | 6   |
| 156  | 28243     | PTFE   | Backup Ring, Spacer                                                                               | 6   |
| 162  | 48363     | D      | Backup Ring, Seat                                                                                 | 6   |
| 163  | 26142     | NBR    | O-Ring, Seat–80D                                                                                  | 6   |
| 164  | 48596     | S      | Seat                                                                                              | 6   |
| 166  | 670108    | SS     | Valve                                                                                             | 6   |
| 167  | 48687     | SS     | Spring, Valve                                                                                     | 6   |
| 168  | 44735     | PVDF   | Retainer, Spring                                                                                  | 6   |
| 170  | 44794     | SS     | Washer, Spring Retainer                                                                           | 6   |
| 171  | 48689     | SS     | Spring, Coil                                                                                      | 6   |
| 172  | 17629     | NBR    | O-Ring, Valve Plug–80D                                                                            | 6   |
| 174  | 48597     | FBB    | Plug, Valve (See Tech Bulletin 074)                                                               | 6   |
| 185  | 48610     | FBB    | Manifold, Discharge                                                                               | 1   |
| 188  | 126519    | STCP R | Screw, HSH (M12 x 70) (See Tech Bulletin 074)                                                     | 6   |
| 260  | 30613     | STZP   | Rail, Angle Assembly                                                                              | 1   |
| 300  | 31355.CO2 | NBR*   | Kit, Seal (Includes: 97, 106, 112, 127, 155, 156)                                                 | 1   |
| 310  | 31360     | NBR    | Kit, Valve (Includes: 162, 163, 164, 166–170, 172)                                                | 2   |
| —    | 6107      | —      | Oil, Bottle (21 oz.) ISO 68 Hydraulic<br>(Fill to Specified Crankcase Capacity Prior to Start-up) | 2   |

*Italics are optional items.* R Components comply with RoHS Directive.

\* Review material codes for individual items (STG generally may be used as alternate). For additional technical information see [www.catpumps.com/literature/tech-bulletins](http://www.catpumps.com/literature/tech-bulletins).

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic AL=Aluminum ALE=Aluminum Epoxy BB=Brass BBCP=Brass/Chrome Plated CC=Ceramic  
CM=Chrome-moly CU=Copper D=Acetal FBB=Forged Brass FBR=Fiber FCM=Forged Chrome-moly NBR=Medium Nitrile (Buna-N) NY=Nylon PC=Poly Carbonate  
PLM=Unspecified Poly PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride S=304SS SFTA=Special Blend PTFE (Tan)  
SHS=304SS/High Strength SS=316SS STCP=Steel/ChromePlated STG=Special Blend PTFE White STL=Steel  
STZP=Steel/Zinc Plated TNM=Special High Strength

### ⚠ CAUTIONS AND WARNINGS

All high-pressure systems require a primary pressure regulating device (e.g. regulator, unloader) and a secondary pressure relief device (e.g. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. Cat Pumps does not assume any liability or responsibility for the operation of a customer's high-pressure system.

Read all CAUTIONS and WARNINGS before commencing service or operation of any high-pressure system. The CAUTIONS and WARNINGS are included in each Service Manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at [www.catpumps.com/dynamic-literature/cautions-and-warnings](http://www.catpumps.com/dynamic-literature/cautions-and-warnings) or can be requested directly from Cat Pumps.

### WARRANTY

View the Limited Warranty online at [www.catpumps.com/literature/cat-pumps-limited-warranty](http://www.catpumps.com/literature/cat-pumps-limited-warranty)