

# Operating Instructions

## Series HD70000 Spring Driven Hose Reels

Low, Medium and High Pressure Model Numbers:

|             |             |             |              |
|-------------|-------------|-------------|--------------|
| HD76000 OLP | HD78075 OLP | HD78050 OMP | HD76000 OHP  |
| HD76050 OLP | HD79000 OLP | HD78005 OMP | HD76050 OHP  |
| HD76005 OLP | HD79025 OLP | HD78065 OMP | HD76005 OHP  |
| HD76075 OLP | HD76000 OMP | HD74000 OHP | HD76075 OHP  |
| HD76100 OLP | HD76050 OMP | HD74050 OHP | PWD76005 OHP |
| HD78000 OLP | HD76005 OMP | HD74005 OHP | PWD76050 OHP |
| HD78050 OLP | HD76075 OMP | HD74075 OHP |              |
| HD78005 OLP | HD78000 OMP | HD74100 OHP |              |



### Dimensions

|   | 1        |     | 2        |     |
|---|----------|-----|----------|-----|
|   | in       | mm  | in       | mm  |
| A | 20 1/4"  | 514 | 20 1/4"  | 514 |
| B | 19 3/4"  | 502 | 19 3/4"  | 502 |
| C | 7 13/16" | 198 | 7 13/16" | 198 |
| D | 3 7/8"   | 98  | 3 7/8"   | 98  |
| E | 7"       | 178 | 8 1/4"   | 210 |

### IMPORTANT

Read this manual carefully before installing, operating or servicing this equipment.

### SAFETY

Personal injury and/or equipment damage may result if proper safety precautions are not observed.

- Ensure that reel is properly installed before connecting input and output hoses.
- Bleed fluid/gas pressure from system before servicing reel.
- Before connecting reel to supply line, ensure that pressure does not exceed maximum working pressure rating of reel.
- Remember, even low pressure is very dangerous and can cause personal injury or death.
- Be aware of machinery and personnel in work area.
- If a leak occurs in the hose or reel, remove system pressure immediately.
- A high tension spring assembly is contained within the reel. Exercise extreme caution.
- Pull hose from reel by grasping the hose itself, not the control valve.
- Ensure that reel, hose, and equipment being serviced are properly grounded. Use an ohmmeter to check ground continuity.
- If reel ceases to unwind or rewind, remove system pressure immediately. Do not pull or jerk on hose!
- Treat and respect the hose reel as any other piece of machinery, observing all common safety practices.

Form# 1286-716 Rev: 9/2016

## INSTALLATION INSTRUCTIONS

### MOUNTING

**Caution:** Unless reel was specified differently when ordering, maximum installation height is 16 feet. Do not exceed this distance.

1. Unpack and inspect reel for damage. Turn by hand to check for smooth operation. Check for completeness.
2. Configure reel for top, side or bottom-wind hose dispensing by removing nuts (1) securing guide arm bracket (2). Position guide arm bracket to desired location, and replace nuts.

**Caution:** When changing guide arm positions, the U-bolt must be placed in the proper location as instructed in figure A below. The reel can "latch out" during use if this instruction is not adhered to.

3. Position reel on floor, wall, or ceiling. Secure into place using four (customer supplied) bolts (3).

### INSTALLING THE INPUT HOSE(S)

**Warning:** Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Apply pipe thread sealant to all threads.

**Caution:** Use flexible hose connection at input. Do not use rigid plumbing.

1. Connect supply line hose (4) to main shaft input (5) as indicated in illustration.

### INSTALLING THE OUTPUT HOSE(S)

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. Apply pipe thread sealant to all threads.

1. Manually turn sheave (10) until spring is tight, back off 3 turns, then latch.
2. Route output hose(s) (11) through guide arm bracket (2), U-bolts (12), then through cutout (13) in spool as indicated in illustration.
3. Connect output hose(s) (11) to swivel (14) as indicated in illustration.
4. Tighten U-bolts (12).
5. Charge hose(s). Momentarily open control valve to purge hose(s) of gases. When fluid appears at control valve, close valve. With hose(s) fully charged, release latch and wind output hose(s) onto reel.

### ADJUSTMENTS

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension on reel by adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Add wraps to increase tension. Remove wraps to decrease tension.

## SERVICE INSTRUCTIONS

User servicing of the reel is limited to replacing input/output hoses only. Refer all other repairs to an authorized service person or directly to Reelcraft. Failure to do so can result in personal injury and/or equipment damage and may void the warranty. **Warning:** Rewind hose on reel, then bleed pressure from system before performing the following procedures.

1. Replace hoses in accordance with procedures given in "Installation Instructions" section of this manual.

**Caution:** When replacing drive spring, hold the center of the spring down as the hub is pulled out. If the center is allowed to raise up, the spring may escape from it's container with enough force to cause injuries.

When disposing of old or broken spring assemblies, the coils should be welded or wired together to prevent possible injury to scrap handling personnel.

2. All mating moving parts are to be lubricated with Perma Bond or Loctite anti-seize compound.

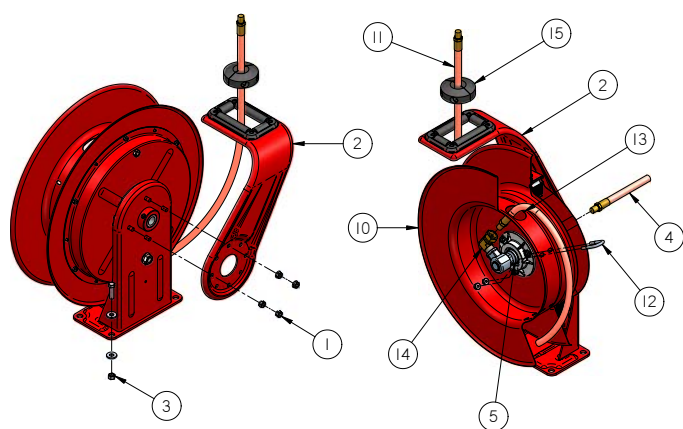
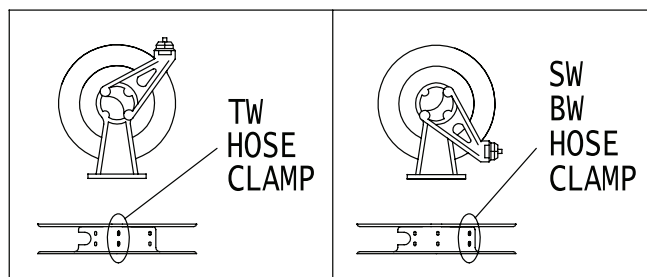
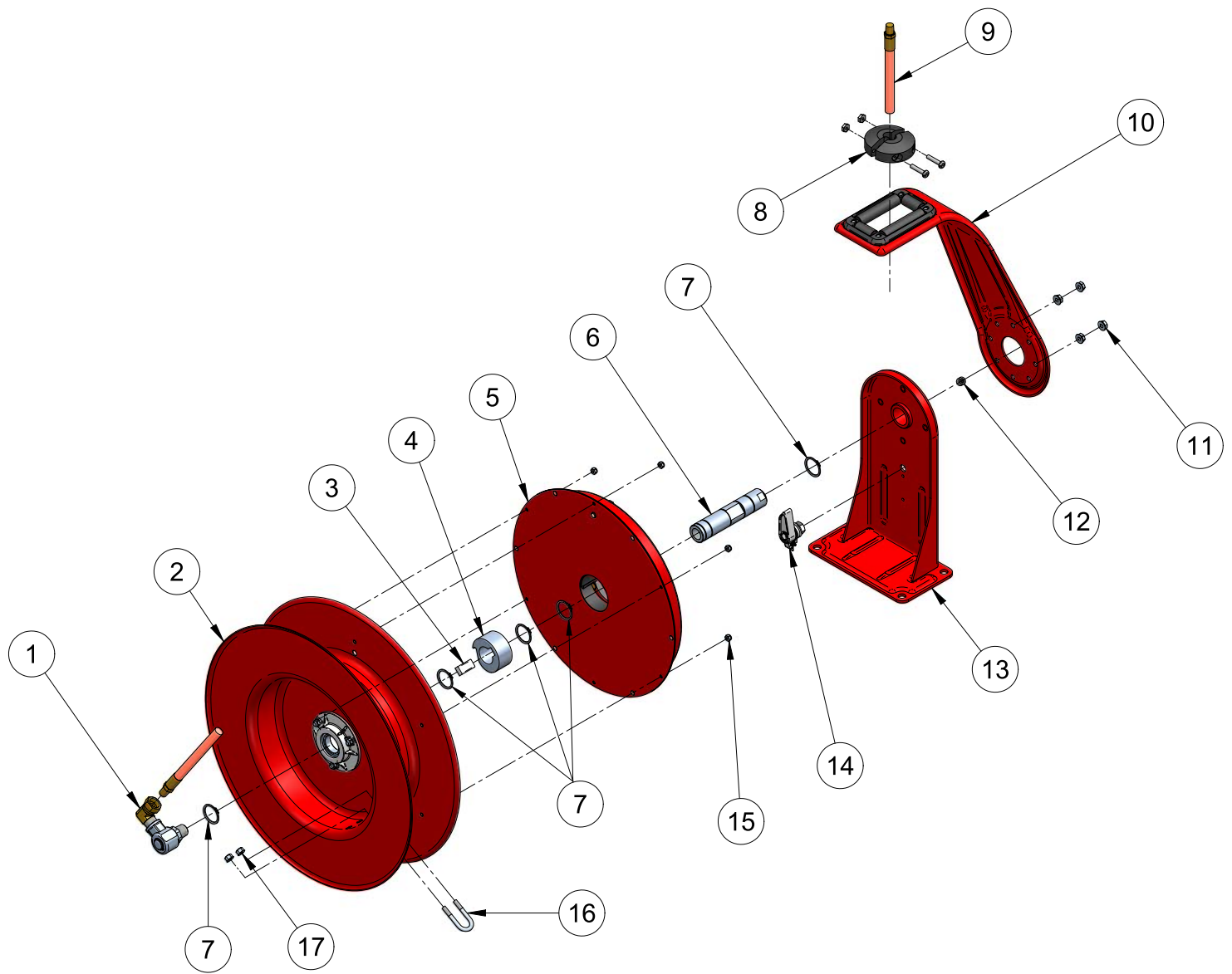


Figure A



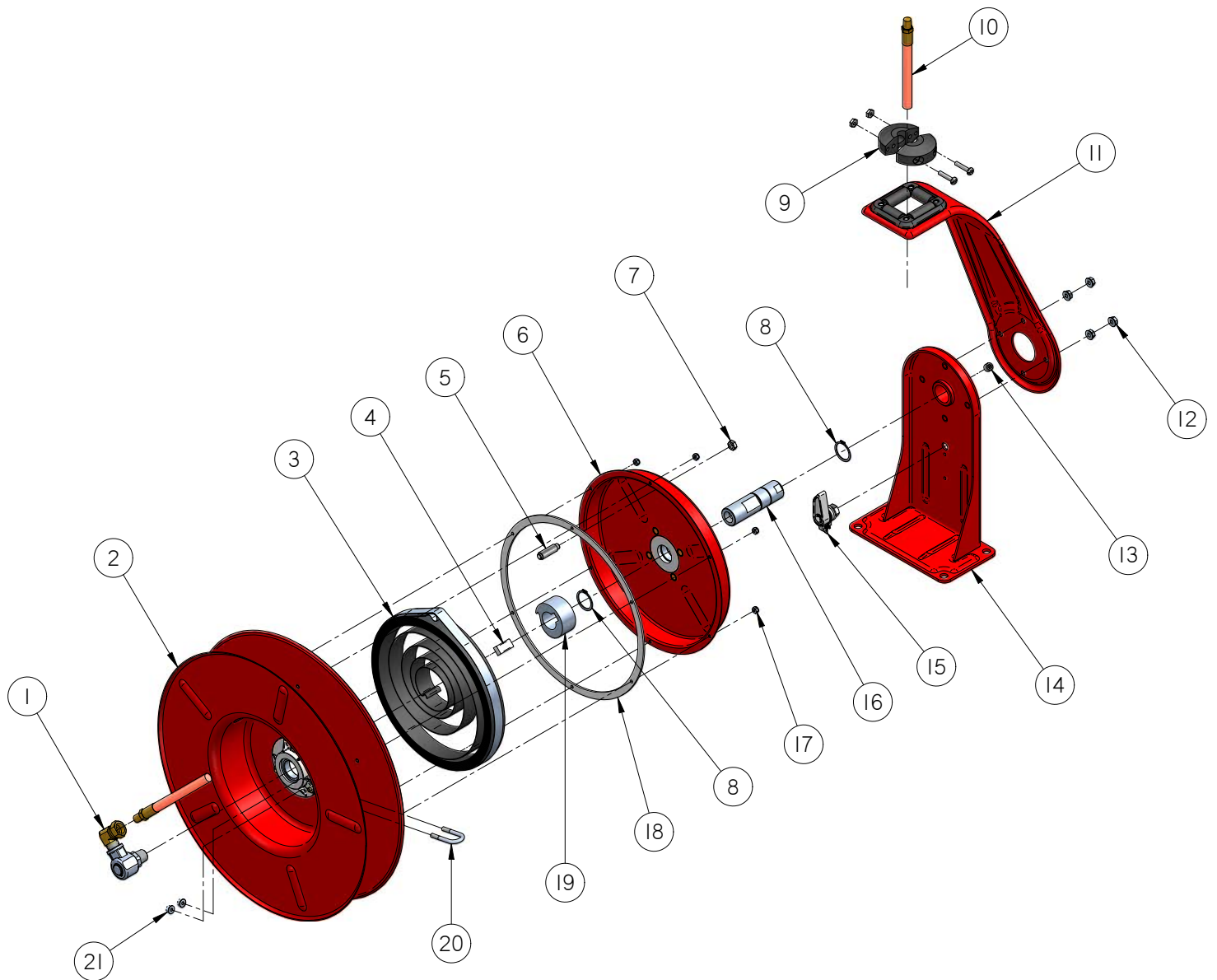


Refer to page 4 for part numbers.

## Series HD70000 Spring Driven Hose Reels

| Item #                        | Description                | # Req. | HD76005 OLP | HD76075 OLP | HD76100 OLP | HD78005 OLP | HD78075 OLP | HD76005 OMP | HD76075 OMP | HD78005 OMP |
|-------------------------------|----------------------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1                             | Swivel & Ell Assembly      | 1      | S600923-1   | S600923-1   | S600923-1   | S600923-1   | S600923-1   | S600300     | S600300     | S600300     |
| 2                             | Spool & Hub Assembly       | 1      | 602704      | 602704      | 602704      | 602704      | 602704      | 602704      | 602704      | 602704      |
| 3                             | Arbor Key                  | 1      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      |
| 4                             | Spring Arbor               | 1      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      |
| 5                             | Containerized Drive Spring | 1      | 602718-80   | 602718-80   | 602718-80   | 602720-70   | 602720-70   | 602720-100  | 602720-100  | 602721-80   |
| 6                             | Main Shaft                 | 1      | 262948      | 262948      | 262948      | 262948      | 262948      | 262948      | 262948      | 262948      |
| 7                             | Snap Ring                  | 5      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      |
| 8                             | Bumper Stop Assembly       | 1      | None        | 1-HR1004-3  | 1-HR1004-3  | None        | 2-HR1004-3  | None        | 1-HR1004-3  | None        |
| 9                             | Hose Assembly              | 1      | None        | 601017-75   | 601017-100  | None        | 601021-75   | None        | 23-601094   | None        |
| 10                            | Guide Arm & Roller Assy    | 1      | 602697      | 602697      | 602697      | 602697      | 602697      | 602697      | 602697      | 602697      |
| 11                            | Lock Nut                   | 4      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      |
| 12                            | Set Screw                  | 1      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      |
| 13                            | Base Assembly              | 1      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      |
| 14                            | Latch Pawl Assembly        | 1      | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     |
| 15                            | Nyloc Nut                  | 6      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      |
| 16                            | U-Bolt                     | 1      | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    |
| 17                            | 1/4-20 Nylon Locknut       | 2      | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    |
| Hose I.D. x Length            |                            |        | None        | 3/8" X 75'  | 3/8" X 100' | None        | 1/2" X 75'  | None        | 3/8" X 75'  | None        |
| Reel Inlet Connection         |                            |        | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    |
| Maximum Operating Pressure    |                            |        | 500 PSI     | 300 PSI     | 300 PSI     | 500 PSI     | 300 PSI     | 3000 PSI    | 2600 PSI    | 3250 PSI    |
| Maximum Operating Temperature |                            |        | 150 °F      | 150 °F      | 150 °F      | 150 °F      | 150 °F      | 210 °F      | 210 °F      | 210 °F      |
| Dimension Size Index          |                            |        | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           |

| Item #                        | Description                | # Req. | HD78065 OMP | HD74005 OHP | HD74075 OHP | HD74100 OHP | HD76005 OHP | HD76075 OHP | PWD76005 OHP | PWD76075 OHP |
|-------------------------------|----------------------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| 1                             | Swivel & Ell Assembly      | 1      | S600300     | S602110     | S602110     | S602110     | S602110     | S602110     | 602110-1     | 602110-1     |
| 2                             | Spool & Hub Assembly       | 1      | 602704      | 602704      | 602704      | 602704      | 602704      | 602704      | 602704       | 602704       |
| 3                             | Arbor Key                  | 1      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274       | 261274       |
| 4                             | Spring Arbor               | 1      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275       | 261275       |
| 5                             | Containerized Drive Spring | 1      | 602721-80   | 602733      | 602733      | 602733      | 602720-100  | 602720-100  | 602720-100   | 602720-100   |
| 6                             | Main Shaft                 | 1      | 262948      | 262948      | 262948      | 262948      | 262948      | 262948      | 262948       | 262948       |
| 7                             | Snap Ring                  | 5      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007       | 300007       |
| 8                             | Bumper Stop Assembly       | 1      | 2-HR1004-3  | None        | 1-HR1004-3  | 1-HR1004-3  | None        | 602452      | None         | 602452       |
| 9                             | Hose Assembly              | 1      | 9-601094    | None        | 11-260044   | 33-260044   | None        | 16-260044   | None         | 16-260044    |
| 10                            | Guide Arm & Roller Assy    | 1      | 602697      | 602697      | 602697      | 602697      | 602697      | 602697      | 602697       | 602697       |
| 11                            | Lock Nut                   | 4      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107       | 300107       |
| 12                            | Set Screw                  | 1      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84       | S35-84       |
| 13                            | Base Assembly              | 1      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686       | 602686       |
| 14                            | Latch Pawl Assembly        | 1      | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     | S602694      | S602694      |
| 15                            | Nyloc Nut                  | 6      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15       | S82-15       |
| 16                            | U-Bolt                     | 1      | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440     | 3-117440     |
| 17                            | 1/4-20 Nylon Locknut       | 2      | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1     | 261650-1     |
| Hose I.D. x Length            |                            |        | 1/2" X 65'  | None        | 1/4" X 75'  | 1/4" X 100' | None        | 3/8" X 75'  | None         | 3/8" X 75'   |
| Reel Inlet Connection         |                            |        | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT     | 1/2" NPT     |
| Maximum Operating Pressure    |                            |        | 3250 PSI    | 5000 PSI    | 5000 PSI    | 5000 PSI    | 5000 PSI    | 4800 PSI    | 4800 PSI     | 4800 PSI     |
| Maximum Operating Temperature |                            |        | 210 °F      | 210 °F      | 210 °F      | 210 °F      | 210 °F      | 210 °F      | 210 °F       | 210 °F       |
| Dimension Size Index          |                            |        | 2           | 2           | 2           | 2           | 2           | 2           | 2            | 2            |



Refer to page 6 for part numbers.

## Series HD70000 Spring Driven Hose Reels

| Item #                        | Description             | # Req. | HD76000 OLP | HD76050 OLP | HD76070 OLP | HD78000 OLP | HD78050 OLP | HD79000 OLP | HD79025 OLP |
|-------------------------------|-------------------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1                             | Swivel & Ell Assembly   | 1      | S600923-1   | S600923-1   | S600923-1   | S600923-1   | S600923-1   | 600242      | 600242      |
| 2                             | Spool & Hub Assembly    | 1      | 602726      | 602726      | 602726      | 602726      | 602726      | 602726      | 602726      |
| 3                             | Drive Spring Assembly   | 1      | S260028-1   | S260028-1   | S260028-1   | S260037     | S260037     | S600023     | S600023     |
| 4                             | Arbor Key               | 1      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      |
| 5                             | Spring Case Stud        | 1      | S260031     | S260031     | S260031     | S260031     | S260031     | S260031     | S260031     |
| 6                             | Spring Case Assembly    | 1      | 602727      | 602727      | 602727      | 602727      | 602727      | 602727      | 602727      |
| 7                             | Hex Jam Nut             | 1      | S76-106     | S76-106     | S76-106     | S76-106     | S76-106     | S76-106     | S76-106     |
| 8                             | Snap Ring               | 2      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      |
| 9                             | Bumper Stop Assembly    | 1      | None        | 1-HR1004-3  | 1-HR1004-3  | None        | 2-HR1004-3  | None        | 3-HR1004-3  |
| 10                            | Hose Assembly           | 1      | None        | S601017-50  | S601017-70  | None        | S601021-50  | None        | S601026-25  |
| 11                            | Guide Arm & Roller Assy | 1      | S600017     | S600017     | S600017     | S600017     | S600017     | S600017     | S600017     |
| 12                            | Lock Nut                | 4      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      |
| 13                            | Set Screw               | 1      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      |
| 14                            | Base Assembly           | 1      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      |
| 15                            | Latch Pawl Assembly     | 1      | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     |
| 16                            | Main Shaft              | 1      | 602231      | 602231      | 602231      | 602231      | 602231      | 602231-1    | 602231-1    |
| 17                            | Nyloc Nut               | 6      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      |
| 18                            | Spring Case Gasket      | 1      | S260069     | S260069     | S260069     | S260069     | S260069     | S260069     | S260069     |
| 19                            | Spring Arbor            | 1      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      |
| 20                            | U-Bolt                  | 1      | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    |
| 21                            | Lock Nut                | 2      | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    |
| Hose I.D. x Length            |                         |        | None        | 3/8" X 50'  | 3/8" X 70'  | None        | 1/2" X 50'  | None        | 3/4" X 25'  |
| Reel Inlet Connection         |                         |        | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 3/4" NPT    | 3/4" NPT    |
| Maximum Operating Pressure    |                         |        | 500 PSI     | 300 PSI     | 300 PSI     | 500 PSI     | 300 PSI     | 500 PSI     | 250 PSI     |
| Maximum Operating Temperature |                         |        | 150 °F      | 150 °F      | 150 °F      | 150 °F      | 150 °F      | 150 °F      | 150 °F      |
| Dimension Size Index          |                         |        | 1           | 1           | 1           | 1           | 1           | 1           | 1           |

| Item #                        | Description             | # Req. | HD76000 OMP | HD76050 OMP | HD78000 OMP | HD78050 OMP | HD74000 OHP | HD74050 OHP | HD76000 OHP | HD76050 OHP |
|-------------------------------|-------------------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1                             | Swivel & Ell Assembly   | 1      | S600300     | S600300     | S600300     | S600300     | S602110     | S602110     | S602110     | S602110     |
| 2                             | Spool & Hub Assembly    | 1      | 602726      | 602726      | 602726      | 602726      | 602726      | 602726      | 602726      | 602726      |
| 3                             | Drive Spring Assembly   | 1      | S260053     | S260053     | S260053     | S260053     | S260053     | S260053     | S260053     | S260053     |
| 4                             | Arbor Key               | 1      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      | 261274      |
| 5                             | Spring Case Stud        | 1      | S260031     | S260031     | S260031     | S260031     | S260031     | S260031     | S260031     | S260031     |
| 6                             | Spring Case Assembly    | 1      | 602727      | 602727      | 602727      | 602727      | 602727      | 602727      | 602727      | 602727      |
| 7                             | Hex Jam Nut             | 1      | S76-106     | S76-106     | S76-106     | S76-106     | S76-106     | S76-106     | S76-106     | S76-106     |
| 8                             | Snap Ring               | 2      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      | 300007      |
| 9                             | Bumper Stop Assembly    | 1      | None        | 1-HR1004-3  | None        | 2-HR1004-3  | None        | 1-HR1004-3  | None        | 602452      |
| 10                            | Hose Assembly           | 1      | None        | S5-260043   | None        | S8-260043   | None        | S9-260044   | None        | S5-260044   |
| 11                            | Guide Arm & Roller Assy | 1      | S600017     | S600017     | S600017     | S600017     | S600017     | S600017     | S600017     | S600017     |
| 12                            | Lock Nut                | 4      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      | 300107      |
| 13                            | Set Screw               | 1      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      | S35-84      |
| 14                            | Base Assembly           | 1      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      | 602686      |
| 15                            | Latch Pawl Assembly     | 1      | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     | S602694     |
| 16                            | Main Shaft              | 1      | 602231      | 602231      | 602231      | 602231      | 602231      | 602231      | 602231      | 602231      |
| 17                            | Nyloc Nut               | 6      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      | S82-15      |
| 18                            | Spring Case Gasket      | 1      | S260069     | S260069     | S260069     | S260069     | S260069     | S260069     | S260069     | S260069     |
| 19                            | Spring Arbor            | 1      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      | 261275      |
| 20                            | U-Bolt                  | 1      | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    | 3-117440    |
| 21                            | Lock Nut                | 2      | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    | 261650-1    |
| Hose I.D. x Length            |                         |        | None        | 3/8" X 50'  | None        | 1/2" X 50'  | None        | 1/4" X 50'  | None        | 3/8" X 50'  |
| Reel Inlet Connection         |                         |        | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    | 1/2" NPT    |
| Maximum Operating Pressure    |                         |        | 3000 PSI    | 2600 PSI    | 3250 PSI    | 3250 PSI    | 5000 PSI    | 4800 PSI    | 5000 PSI    | 4800 PSI    |
| Maximum Operating Temperature |                         |        | 210 °F      | 210 °F      | 210 °F      | 210 °F      | 210 °F      | 210 °F      | 210 °F      | 210 °F      |
| Dimension Size Index          |                         |        | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           |