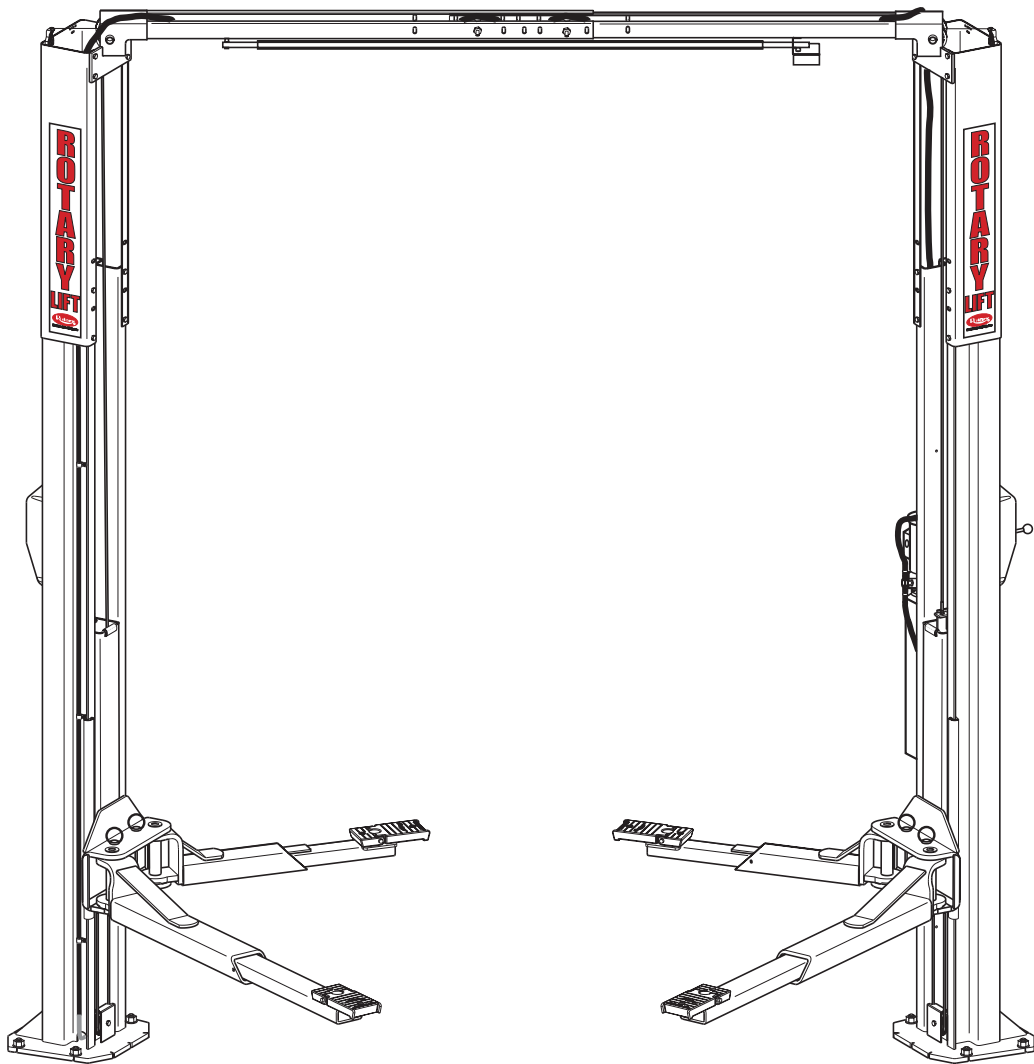




Cylinder and Seal Kit Replacement Guide



PB 10-4
Rev. B 5.4.2010

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| | |
| * NOTE: Pages 3-7 describe 2-Post cylinders but may be applied to other cylinder types shown in booklet. | |

Cylinder Trouble Shooting On "SP" Series Lifts

- 1) Customer complaint: Fluid leaking and/or accumulating around base of lift.
- 2) Possible causes:
 - A) Oil on floor due to causes other than leaks at lift.
 - B) Fitting at base of cylinder leaking.
 - C) Manual bleeder leaking.
 - D) Cylinder leaking from seal.
 - E) Leaks oil from breather.
 - F) Hose leaking or weeping.

How to Check Hydraulic System

- 1) Clean all oil points.
- 2) Raise lift all the way up and hold it under pressure for 10 seconds.
- 3) Relieve pressure at lowering valve.
- 4) Check all possible leak points.
- 5) If leaks are found, determine the extent of repair needed.

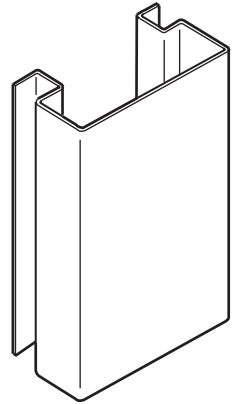
If The Cylinder Is leaking From Seal

*****Before removing cylinder make sure you have the correct seal kit.*****

Double "S" Formed Column Lifts.

Cylinder Removal Procedure

- 1) Loosen the equalizer cable on the opposite carriage.
- 2) Raise the lift to the top and rest the carriage on the top latch position.
- 3) Check to make sure the carriage is secure on latches.
- 4) Make sure the pressure has been relieved from the system.
- 5) Follow the proper LOCKOUT/TAGOUT procedures for disconnecting power to lift.
- 6) Remove the lower sheave cover at base of column.
- 7) With lowering valve depressed, manually pull cylinder down out of carriage.
- 8) Disconnect the swivel hose fitting at base of cylinder.
- 9) Cap hose ends and cylinder adapter to prevent fluid loss.
- 10) Carefully remove cylinder from column.



Cylinder Rebuilding

*****Kit has only enough parts for (1) cylinder.*****

- 1) Remove manual bleeder and extend plunger from casing.
- 2) Remove piston retaining ring or clip.
- 3) Remove plunger from casing.
- 4) Clean inside of casing, making sure all debris is removed with mineral spirits.
- 5) Inspect seal for damage.
- 6) Replace seal and all other components (wiper, wear ring, etc.).
- 7) Coat seal with oil or white grease.
- 8) Reinstall plunger, retaining ring, and manual bleeder being careful not to scratch or dent plunger surface.

Cylinder Replacement

- 1) Reinstall cylinder and reconnect hose fitting.
- 2) Reconnect power source.
- 3) Install lower sheave cover.
- 4) Raise cylinder in column through the carriage lifting plate and cylinder centering bar.
- 5) Lower both carriages.
- 6) Adjust equalizer cables.
- 7) Carefully raise carriages about two feet. Bleed air from both cylinders.
- 8) Fully lower lift.
- 9) Check and add fluid as necessary.
- 10) Raise lift to full rise and check for leaks.
- 11) Tag lift back in service.

SP84, SPOA84, SP94, Series Lifts

Cylinder Removal Procedure

- 1) Raise the lift about 2'-0". Open manual bleeder in top of both cylinders to bleed off any air pockets. Close bleeder when fluid appears. Lower lift.
- 2) Remove arm pins and swing arms.
- 3) Disconnect both cables at upper tie-off.
- 4) Manually lift carriage to its top locking position. Let carriage rest on latch. Place a suitable support under carriage.
- 5) Remove the upper cable sheave bracket. (Also column extensions on SPO models.)
- 6) Disconnect hydraulic line and unscrew adapter at the cylinder base.
- 7) Remove 1/4" x 4-1/2" HHCS at base of cylinder.
- 8) Manually lift carriage until upper rollers or slider blocks start to protrude above column.
- 9) Angle cylinder out of column through front opening and lower carriage back in top latch position.

Cylinder Rebuilding

- 1) Using a spanner wrench or other suitable tool, turn cylinder casing clockwise, until straight end of retainer ring is located in the mill slot on the cylinder casing.
- 2) Insert screwdriver under beveled edge of retainer ring.
- 3) Turn casing head counterclockwise until retainer ring is removed.
Note: If cylinder is laying horizontally, place oil pan under cylinder head area before casing head is removed.
- 4) Remove casing head.
- 5) Open manual bleeder vent at top of cylinder and remove entire plunger from cylinder casing and inspect for nicks, scratches, etc.
- 6) Install new seal kit.
- 7) Apply a generous coating of Dexron III ATF on new seal kit components.
- 8) Insert plunger in cylinder, being careful not to scratch finish.
- 9) Insert cylinder casing head and line up retainer ring slot with mill slot in cylinder casing.
- 10) Insert bent end of retainer ring into slot.
- 11) Turn casing head clockwise until retainer ring is completely inside casing.
- 12) Close the manual bleeder valve.

Cylinder Replacement

- 1) Install hex adapter on new cylinder.
- 2) Again, manually lift the carriage and insert cylinder in the column.
- 3) Lower carriage to top locking latch position.
- 4) Secure cylinder in column and replace 1/4" bolt.
- 5) Reinstall upper sheave bracket.
- 6) Reconnect hydraulic line.
- 7) Lift carriage off locking latch and position latch arm to disengage the latch.
- 8) Lower carriage to floor.
- 9) Reconnect cable to upper cable tie-off. BE SURE cables are roped through sheave rollers.
- 10) Raise lift about 2'-0" and open manual bleeder in top of cylinder. Close when fluid appears.
- 11) Remove filler breather cap from power unit and refill reservoir with Dexron III, ATF.
- 12) Raise lift to full travel and adjust tension on cables. Grasp cables between thumb and forefinger. With about 15lbs. tension, you should just pull the cables together.
- 13) Tighten cable jam nut on upper cable tie-off stud.
- 14) Lower lift and reassemble arms and pins.
- 15) Raise lift to full travel and check pipe joints for leaks.
- 16) The lift should now be ready for use.

Revolution Lifts RTP10

Cylinder Removal Procedure

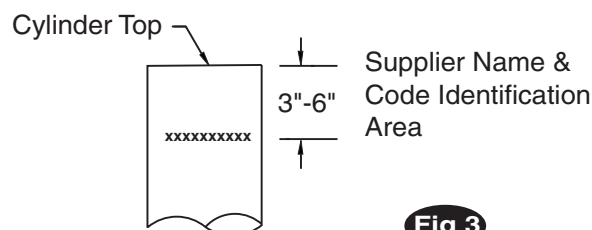
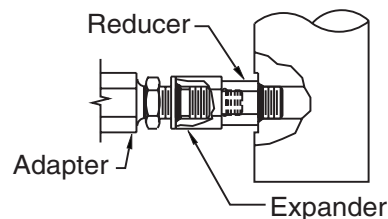
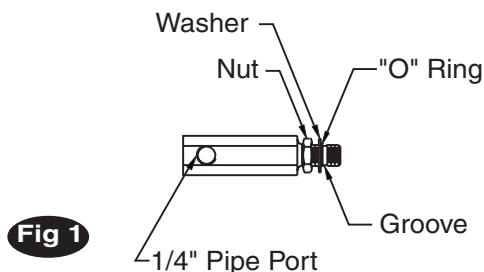
- 1) With lift in the fully lowered position raise lift to first locking position.
- 2) Lower lift to first locking position
- 3) Remove 1 1/8" cylinder jam nut and retaining nut from the bottom of the carriage.
- 4) Cut and remove plastic hose ties from cylinder.
- 5) Disconnect hydraulic hose from elbow at cylinder
- 6) Cap off cylinder elbow with 9/16 JIC cap and Hose with 9/16 JIC plug.
- 7) Remove nut and bolt from overhead side of cylinder * Note when this bolt is removed, nothing will be holding the cylinder*
- 8) Remove hydraulic cylinder from column.

Cylinder Reinstallation

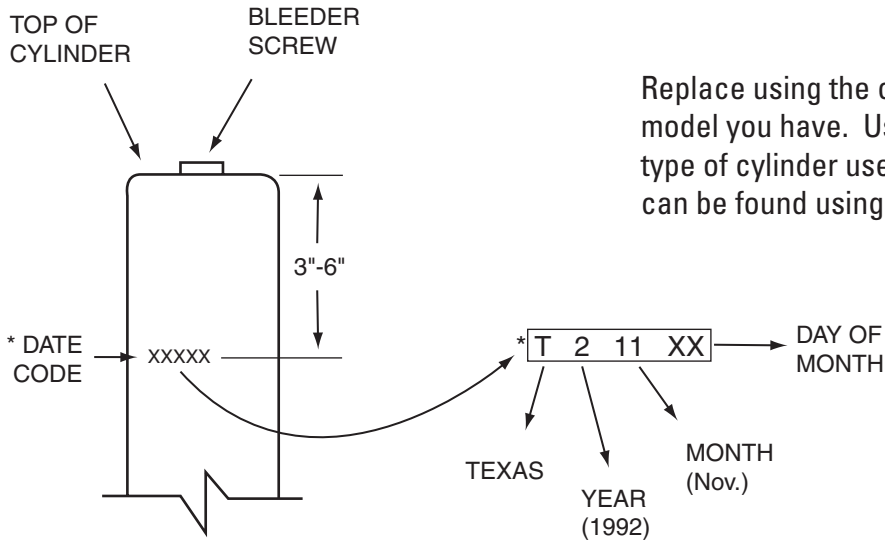
- 1) Inspect cylinder to insure C-clip is installed at rod end of cylinder
- 2) Place cylinder in column and reinstall overhead cylinder bolt and nut.
- 3) Manually pull chrome plunger rod down into the carriage placing the threaded end into hole at the base of the carriage.
- 4) Reinstall 1 1/8 cylinder retaining nut and jam nut on cylinder rod at underside of the carriage.
- 5) Raise lift off locks using lifts power unit.
- 6) Lower lift to floor level
- 7) Check hydraulic oil level at power unit reservoir and add fluid as needed.
- 8) Cycle lift several times to bleed air from lift cylinders
- 9) With lift in lowered position, check oil level and add fluid as needed.

Assembly Instructions For Kit #FJ7375 (To replace FJ783 Cylinder)

1. Lubricate "O" Rings on Reducer and expander fittings and install reducer into supplied cylinder FJ7211. (Fig. 2)
2. Install expander into reducer. (Fig. 2)
3. Clean supplied adapter FJ7353-2. Back nut away from groove in fitting. Push washer back to end of groove.
4. Push "O" ring back to washer. Lubricate "O" ring.
5. Screw fitting into expander until the washer contacts fitting. (Fig. 2)
6. Turn fitting counter clockwise less than one turn to lineup 1/4" pipe port (Fig 1). Hold fitting and tighten nut to 35-40 foot-pounds torque.
7. There is a mix of restricted and nonrestricted cylinders serviced by kit #FJ7375. Lift performance can be affected when nonrestricted and restricted cylinders are utilized on opposite sides of a lift. This kit contains adapters which have a restrictive feature built in to equalize cylinder rate of travel. Identification of cylinders are found as shown in figure 3. All FJ783 cylinders require restricted adapter FJ7757. All FJ7211 cylinders supplied by Texas Hydraulics with a date code prior to 168 Require a FJ7755 adapter. All FJ7211 cylinders supplied by Pacoma with a code prior to 3401529M96 require a FJ7755 adapter. Check the code on all cylinders and assemble appropriate adapter into the cylinder not being replaced to insure all cylinders are restricted.

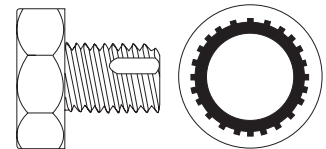


FJ592 Cylinder Bleeder Replacement Kit Installation Instructions



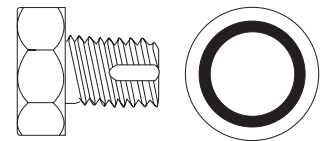
Bleeder Screws For Texas Hydraulics Cylinders

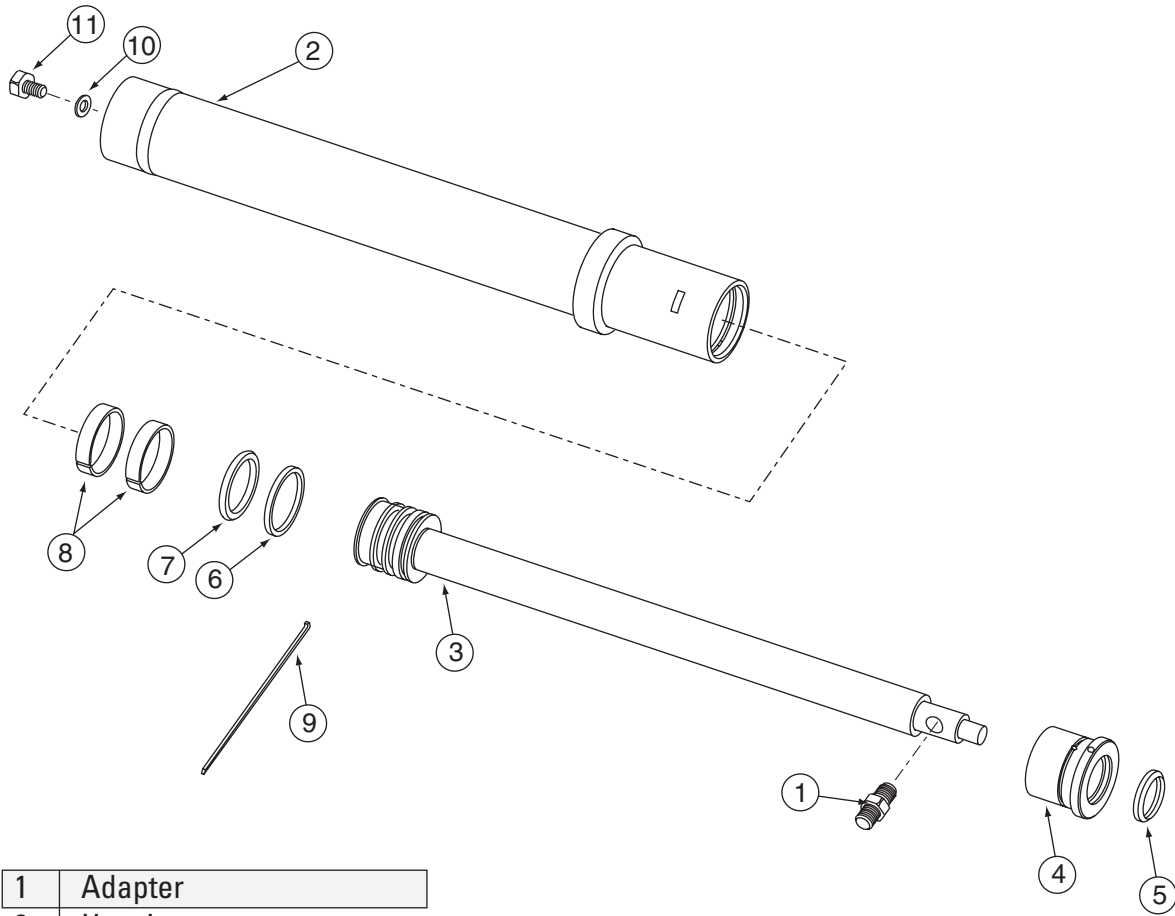
Part No#. 32516 - Date code T211XX & after (Nov. 92)
 Consists of: Part No# 32326 Screw & Part No# 14525 O-Ring Washer



Bleeder Screws For Pacoma Cylinders

Part No#. 3443881 MI - All cylinders used the same screw.





| | |
|----|---------------|
| 1 | Adapter |
| 2 | Housing |
| 3 | Piston Rod |
| 4 | Bushing Guide |
| 5 | Felt Wiper |
| 6 | Felt Ring |
| 7 | Seal |
| 8 | Guide Ring |
| 9 | Retainer Wire |
| 10 | Seal |
| 11 | Bleeder Plug |



World Leader in Lift Systems

2-Post Cylinder Guide

PB 10-4-1

Cylinder Kit Identification Table 2-Post Surface and Inground Lifts (SL Models)

| Lift Model | Original Cylinder | Replacement Cylinder | Seal kit |
|--|--------------------------|-----------------------------|--|
| SP70, SP74 | FJ76 | N/A | FJ76-12 |
| SP80 Thru -3 SP84 Thru -7 | FJ720 | N/A | FJ720-12 *FJ720-30 |
| SP55, SP80-4, SP80-5, SP84-8 Thru 11, SP84-16, SPO84, SPOA84, AR94, ARO94, SP94, SPO94, | FJ7211 FJ783 | FJ7375 | **FJ783-12TH **FJ783-12MF ***FJ783-12UK |
| SP88, SPO88,SPOA88, SP98, SPO98, SPOA98, DCOA7, SPO82, AR98, ARO98 | FJ7311 | FJ7311 | **FJ783-12TH **FJ783-12MF ***FJ783-12UK |
| WOA83, SP7, SP9, SP07, SP09 Thru -200, SPOA7 Thru -200, SPOA9 Thru -200, TLO7 Thru -200 | FJ7664 | FJ7664 | **FJ783-12TH **FJ783-12MF ***FJ783-12UK |
| SPA7LC, SPOA7LC | FJ7606 | FJ7606 | FJ7606-12TH |
| SPOA7LC-300 | N352 | N353 | N352-12MF |
| SPOA7LC-400, SPOA10-500, SPO10-500 | N353 | N353 | **N342-12 (Pacoma) **N342-13 (Panni) |
| SPOA7-300 Thru -400, SPOA9-300 Thru -700, SPO9-300 Thru -700, SPOA10-300 Thru -700, TLO7-300 Thru -500 SPO12-310 Thru -710 | N342 | N380 | **N342-12 (Pacoma) **N342-13 (Panni) |
| SPOA7-300 Thru -700, SPOA9-300 Thru -700, SPO9-300 Thru -700, SPOA10-300 Thru -700, TLO7-300 Thru -500, SPO12-310 Thru -710 Extended rise 71" rise | N382 N343 | N347 | **N342-12 (Pacoma) **N342-13 (Panni) |
| SPO10-400 Thru -500, SPOA10-400 Thru -500. | N346 | N346 | **N342-12 (Pacoma) **N342-13 (Panni) |
| SPO10-500 Thru -700, SPOA10-500 Thru -700. | N380 N380Y | N380E N380Y | **N342-12 (Pacoma) **N342-13 (Panni) **N380Y-9180 (United Hyd) |
| SPO12, SPO15, SPO18 | FJ7604 | FJ7604 | **FJ7604-12TH **FJ7604-12HP |
| SPO12-10 | N310 | ****N310KIT | **FJ783-12TH **FJ783-12MF |

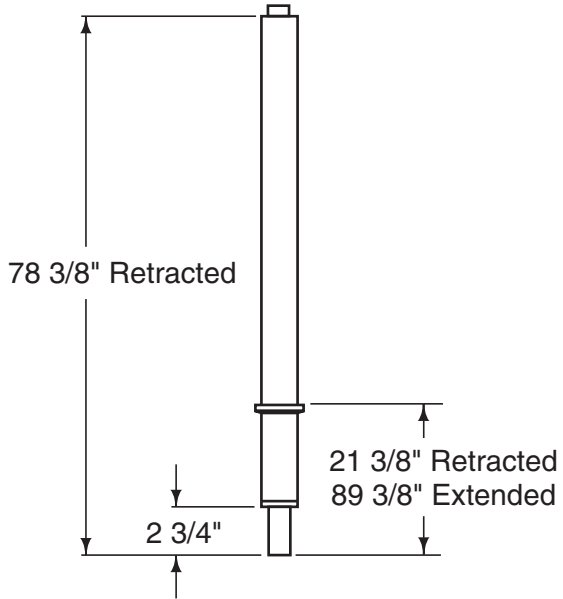
* FJ720-30 for both Best & Texas Hyd Cylinders

** Rotary Lift had different cylinder suppliers for these cylinders. To identify the correct seal kit, observe to markings in the casing aprox. 6" from the bleeder screw. The word Pacoma indicates MF seal kit. The letters T, TX, TXT or no marking indicates the TH seal kit or United Hydraulics

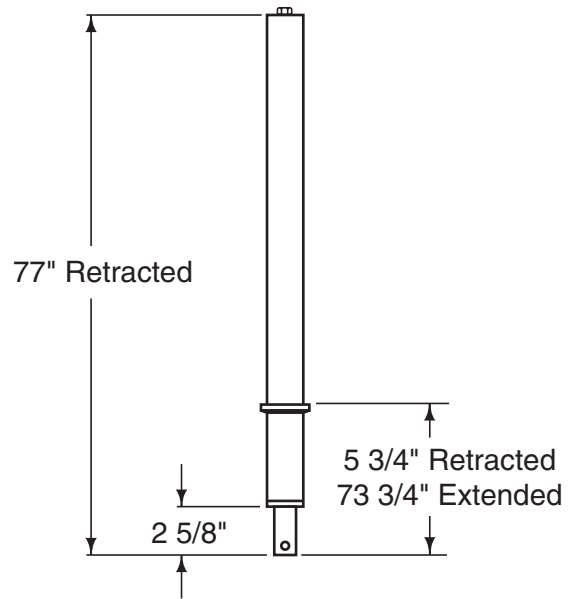
*** Kit contains both FJ783-12TH & FJ783-12MF seal kits

**** N310 is an FJ7664 with adapters and flow control

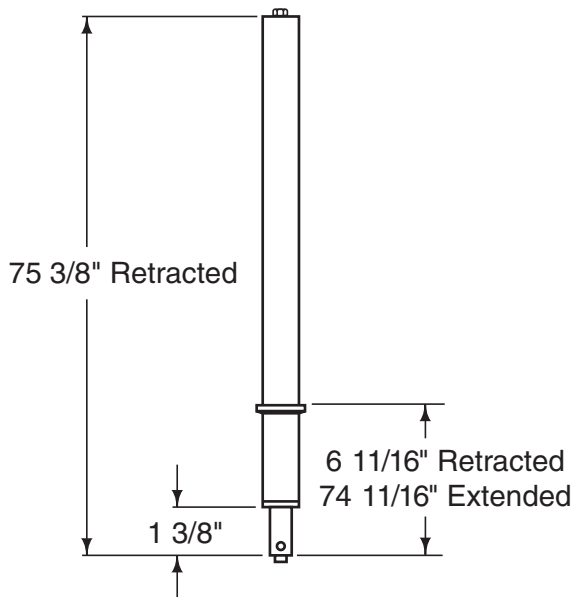
FJ720 Cylinder



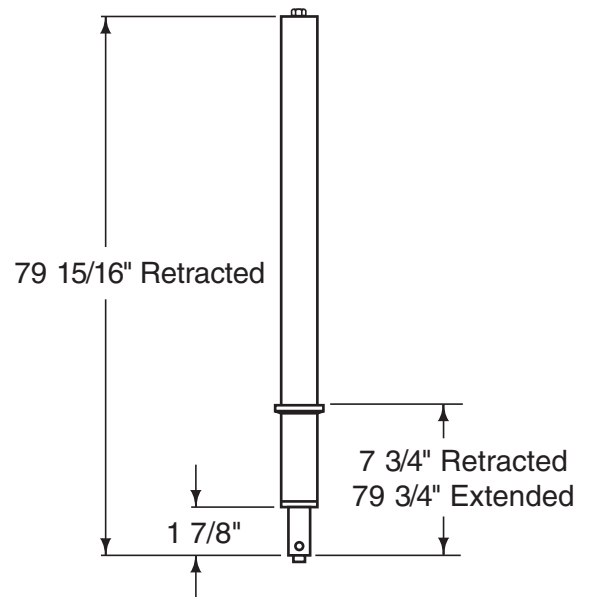
FJ7375 Kit/FJ7211 Cylinder



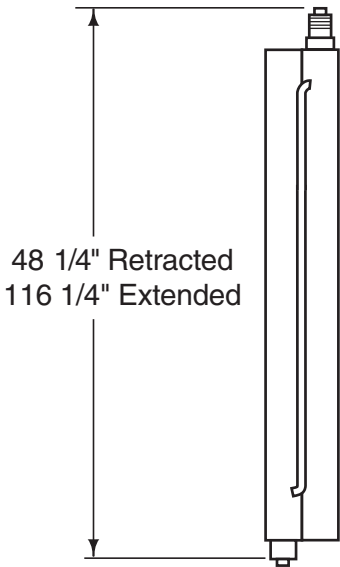
FJ7311 Cylinder



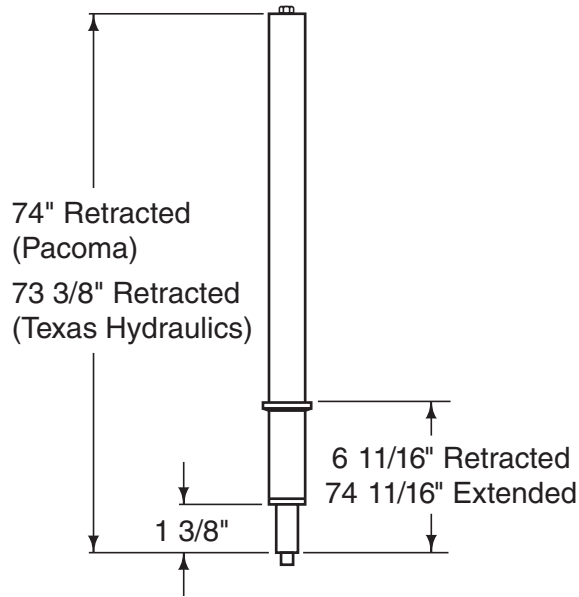
FJ7604 Cylinder



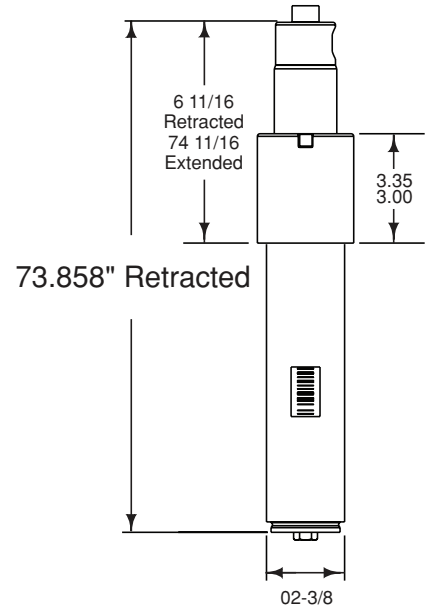
FJ7606 Cylinder



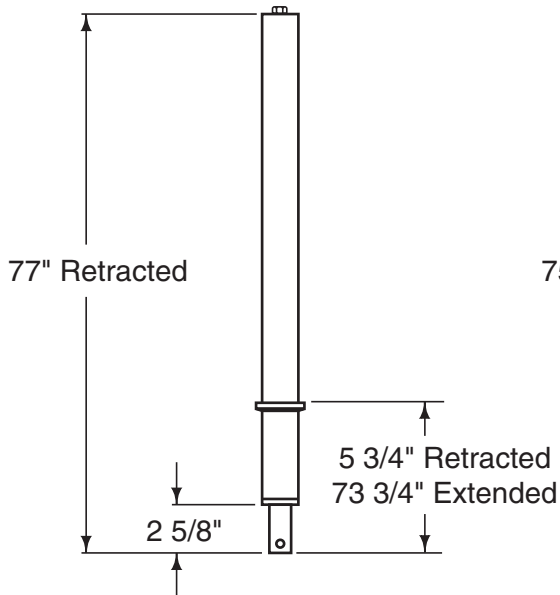
FJ7664/N310 Cylinder



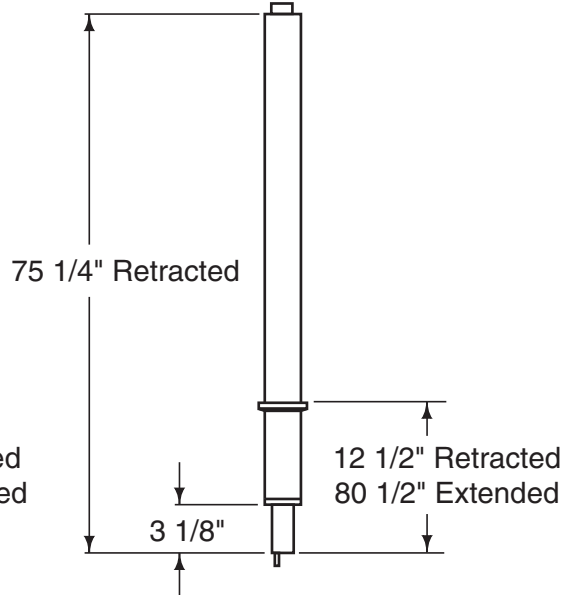
N380e Cylinder



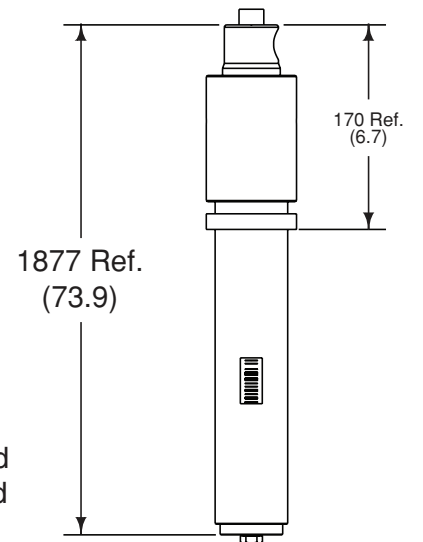
FJ783 Cylinder



FJ76 Cylinder



N380y Cylinder





World Leader in Lift Systems

4-Post Cylinder Guide

PB 10-4-2

Cylinder Kit Identification Table

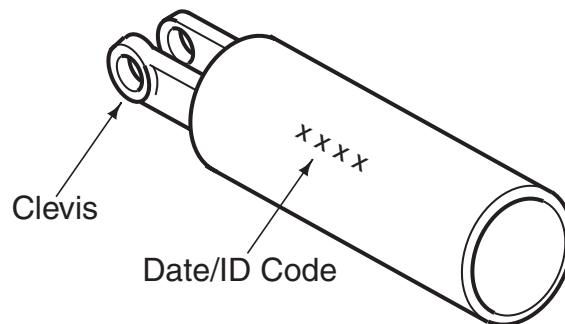
4-Post Lifts

| Lift Model | 992304 | Replacement Cylinder | Seal kit |
|--|--|--|---|
| SM7 | S130093 (94" Stroke) S130095 (77" Stroke) | S130093 S130095 | S130093-12 |
| SM90, AR90, CWA90, SM91, AR91 | FC5343 (Clevis) FC537 (Bracket) | NLA FC537KIT | *FC537-12T *FC537-12MF |
| SM101 | FC5342 | FC5797-1 | *FC542-12TH *FC542-12MF |
| SM120, AR120, CWA120, SM121, AR121, QL4P, QLHV | FC5342 (Clevis) FC542 (Bracket) | FC5797-1 FC542-KIT | *FC542-12TH *FC542-12MF |
| SM122, AR122, SMO123, ARO122, QL4P-100 QLHV-100, SM101-100 | FC5797 FC5342 | FC5797-1 FC5797-1 | FC5797-TH-UNI *FC542-12TH *FC542-12MF |
| SM123, AR123, SMO123, ARO123, SM12, AR12, QL4P-200, QL12 | S130002 | S130002 | FC5797-TH-UNI **S130002-12HY **S130002-12PC |
| SM14, AR14, | S130002 | S130002 | FC5797-TH-UNI **S130002-12HY **S130002-12PC |
| SMO14, ARO14 | S130156 | S130156 | **S130002-12HY **S130002-12PC |
| SM180, SM181, SM18 | FC5810-38 | FC5810-38 | FC5810-38-12TH |
| SM300, SM250, SM270, FLS25 | FC5225-15 | FC5225-15 | FC5225-70 |
| SM300, SM500, SM600 | FC5761 | FC5761 | FC5761-12TH |
| FLS12, FLS15 | FC5155 | FC5155 | FC5155-10 |
| 12000LRT (Mez) | 992302 | 992302 | 992302SKAA |
| 40000HDL, 50000HDL | 992304 | 992304 | 992304SKAA |
| 60000HDL | 992326 | 992326 | |
| Scissor / Parallelogram (Light Duty) | | | |
| ARP70 | FC86 | NLA | FC86-12TH |
| GLP35-100 | 40-0604 (P1 Cyl.) 40-0605 (P2 Cyl.) | 40-0604 (P1 Cyl.) 40-0605 (P2 Cyl.) | 04L7173 (P1) 04L7173 (P2) |
| SC9i | XS130008 | XS130008 | XS130138 |
| YA12 | Z140039Y | Z140039Y | Z140039Y-12 |
| Parking Lift | | | |
| VSS7-000 & -010 | PS130004 | PS130004 | *PS100008TH *PS100008MF |
| VSS7-001 & -011 | PS130004 | PS130004 | *PS100008TH *PS100008MF |

* Rotary Lift had different cylinder suppliers for these cylinders. To identify the correct seal kit, observe to markings in the casing. The word Pacoma indicates MF seal kit. The letters T, TX, TXT or no marking indicates the TH seal kit.

**Hyko Cylinder

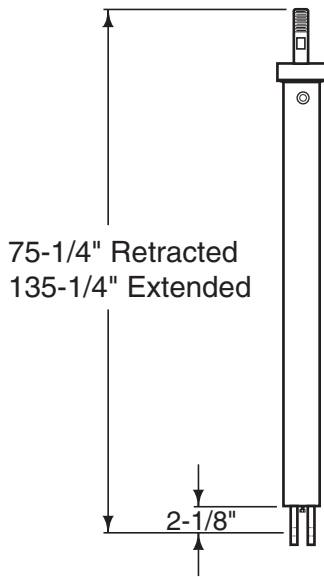
How To Determine Cylinder Manufacturer:



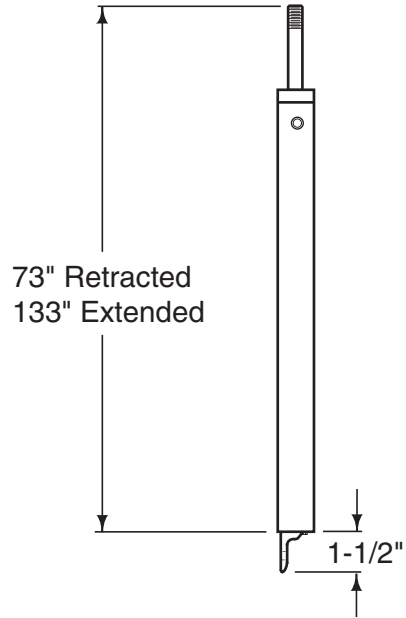
Notes:

- Look all the way around the cylinder tube on the clevis or pressure port end for markings.
- Texas Hydraulic cylinders will be identified by a "TX" followed by a four digit date code stamped on the cylinder. In some cases the Rotary part number will be stamped above the date code.
- Pacoma cylinders will have "Pacoma" stamped on them.

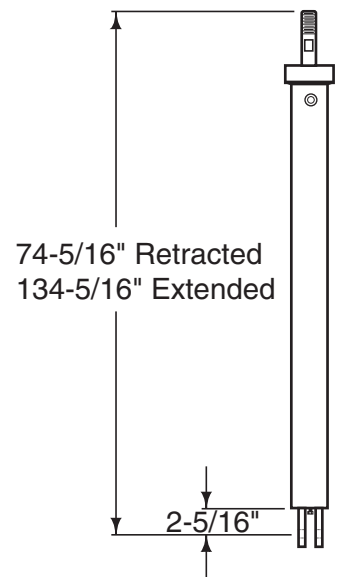
FC5343 Cylinder



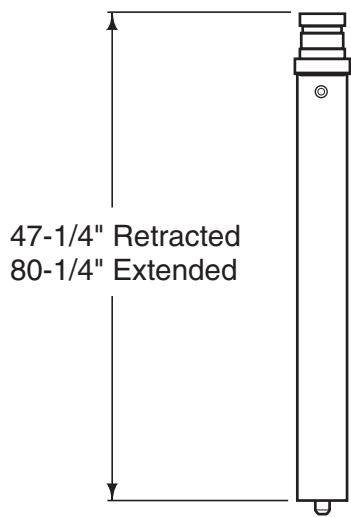
FC537 Cylinder



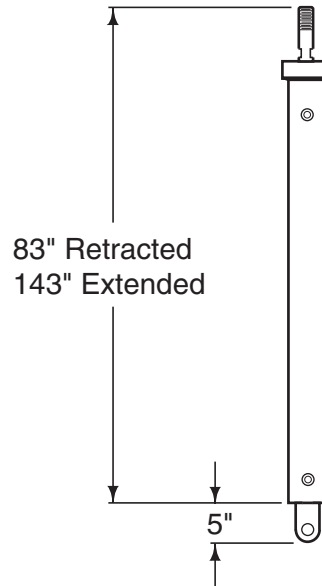
FC5797 Cylinder



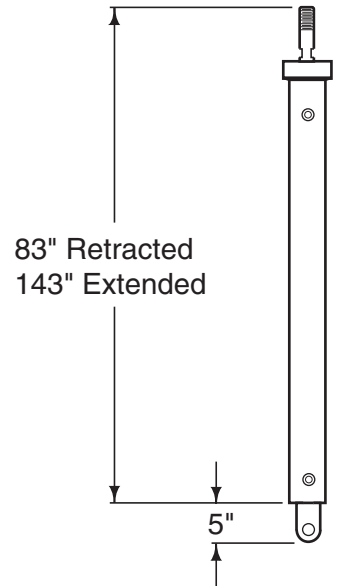
FC5155 Cylinder



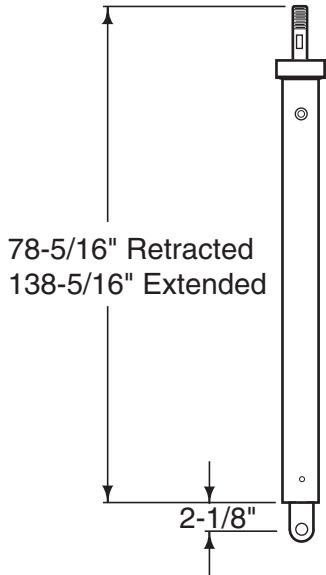
FC5761 Cylinder



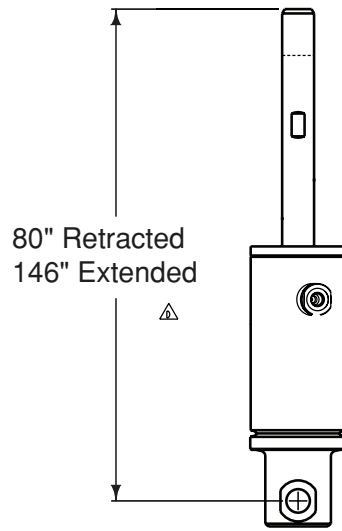
FC5225-15 Cylinder



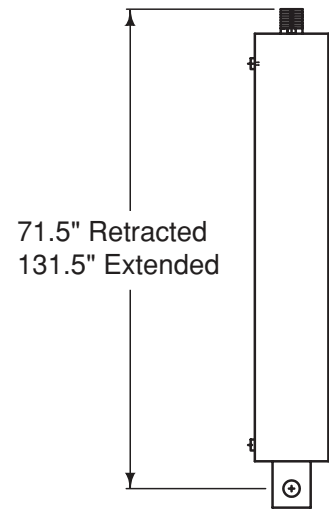
FC5810-38 Cylinder



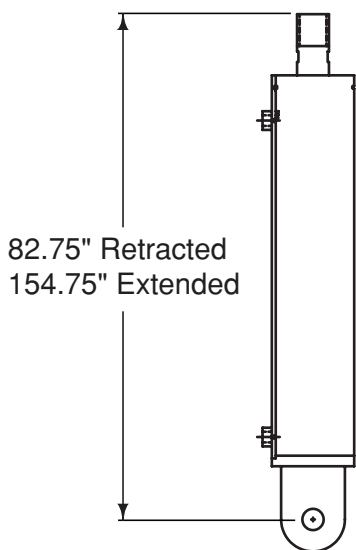
S130156 Cylinder



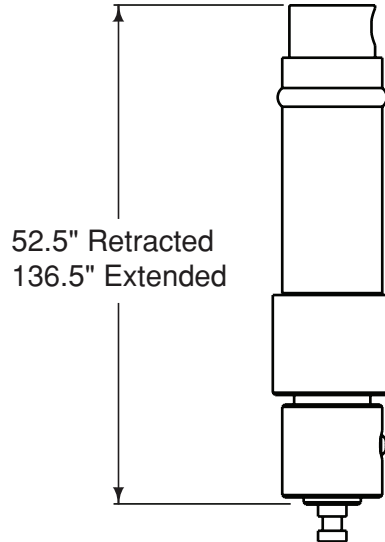
992326 Cylinder



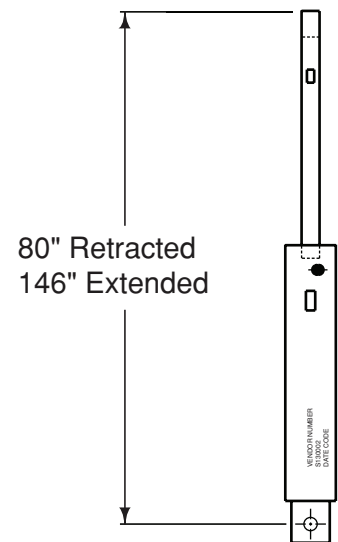
992302 Cylinder



PS130004 Cylinder



S130002 Cylinder





World Leader in Lift Systems

***Low/Mid Rise
Cylinder
Guide***

PB 10-4-3

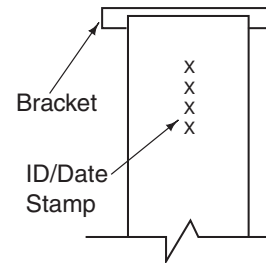
Cylinder Kit Identification Table

Low/Mid Rise

| Lift Model | Original Cylinder | Replacement Cylinder | Seal kit |
|---|--------------------------|-----------------------------|---|
| PAL4, PAL5E | FJ253-3 | NLA | NLA |
| PAL-5E | FJ294-3 | NLA | FJ294-3-12MF |
| PAL7, PFX, MPFX, PSL6, VLX6, VLXS6, VL6, VLS6, VLD6 | FJ2248 | FJ2248 | *FJ2248-12TH *FJ294-3-12MF |
| PFX-1, PAL6 | FJ2173 | NLA | *FJ2248-12TH *FJ294-3-12MF |
| MPAL8 | FJ2263 | FJ2263 | *FJ2248-12TH *FJ294-3-12MF |
| MR6, VM6, VMP6, VMP6A, VMR6 | FJ860 | FJ860 | FJ860-12TH |
| VLXS7, VLXS10 | 992305 | 992305 | **991513 (Texas) **992305SKAA (Arlington) **YG42-9180 |

* Rotary Lift had different cylinder suppliers for these cylinders. To identify the correct seal kit, observe to markings in the casing. The word Pacoma indicates MF seal kit. The letters T, TX, TXT or no marking indicates the TH seal kit.

**Used three different cylinder Mfg. Look for markings on the cylinder. If no markings use YG642-9180 seal kit.



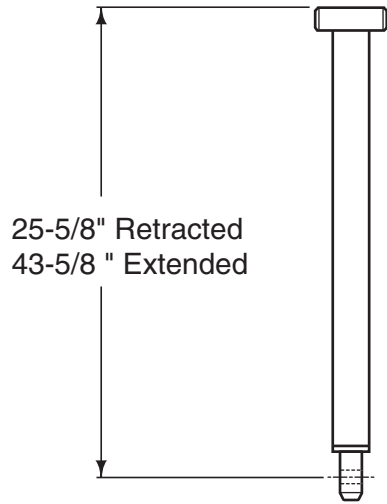
How To Determine Cylinder Manufacturer:

- Look all the way around the cylinder tube on the clevis or pressure port end for markings.
- Texas Hydraulic cylinders will be identified by a "TX" followed by a four digit date code stamped on the cylinder. In some cases the Rotary part number will be stamped above the date code.
- Pacoma cylinders will have "Pacoma" stamped on them.
- North Carolina cylinders are stamped "North Carolina".
- Duke cylinders have a snap ring at the rod end.

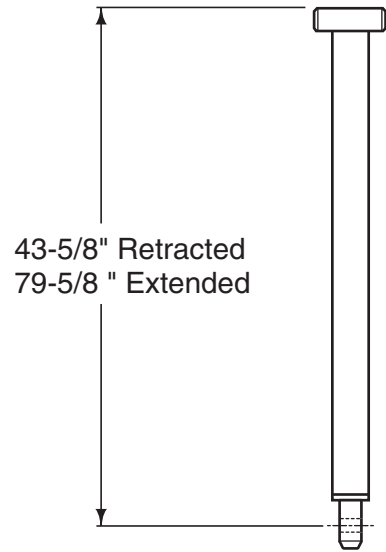
Seal Replacement:

When replacing seals on lift models PAL4 and PAL5 use only seal kit FJ2248-12. All later PAL, MPAL, MPFX, and PFX models can use either seal kit FJ2248-12 or FJ294-3-12.

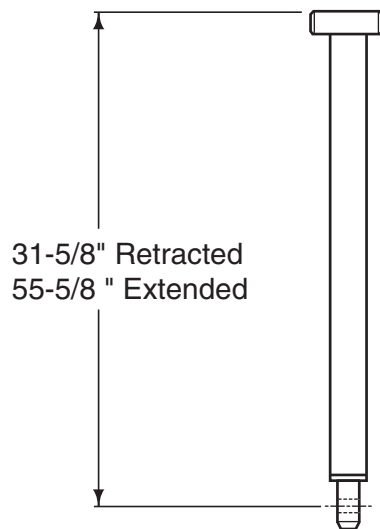
FJ2248 Cylinder



FJ860 Cylinder



FJ2263 Cylinder



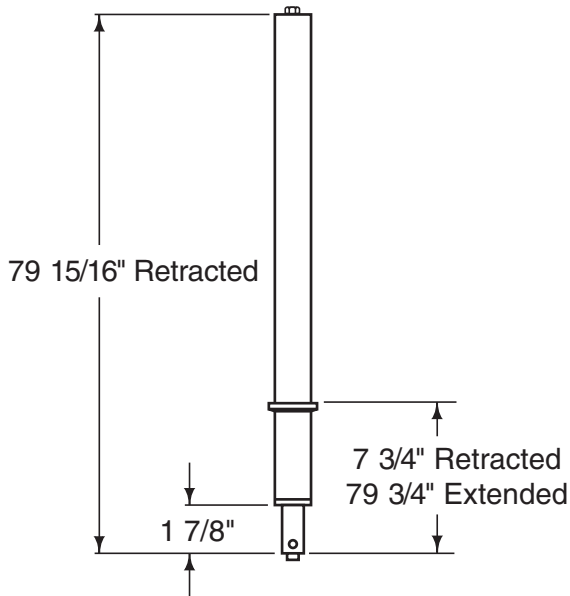


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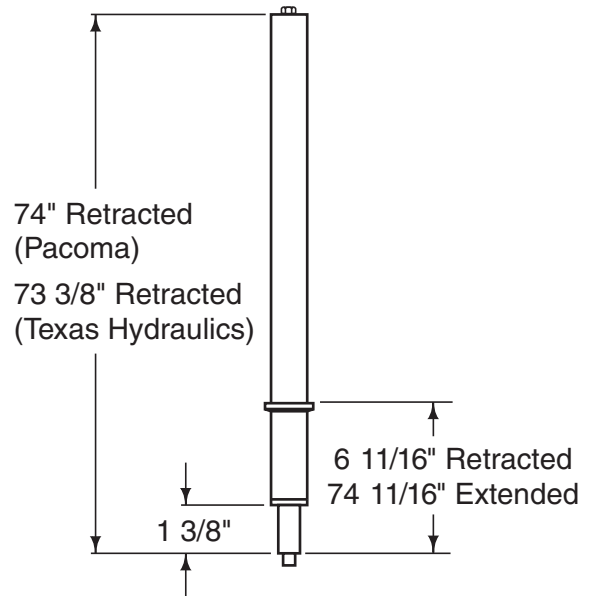
Smart Lift Cylinder Guide

| Lift Model | Original Cylinder | Replacement Cylinder | Seal kit |
|---|-------------------|----------------------|---|
| SL19 | FJ7604 | FJ7604 | **FJ7604-12TH **FJ7604-12HP |
| SL28, SL9, SL29 Thru -200 | FJ7664 | FJ7664 | **FJ783-12TH **FJ783-12MF |
| SL29-300 | N342 N380 | N380 N380 | **N342-12 (Pacoma) **N342-13 (Panni) |
| SL29-400 Thru -800 SL212-400 Thru 1000 | N367 | N367 | N342-12 |
| ** Need to ID cylinder for correct kit | | | |

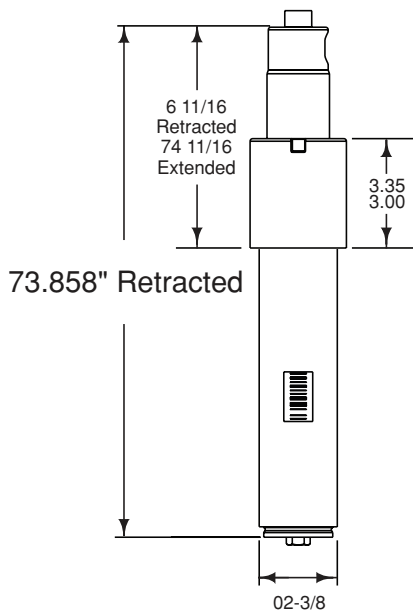
FJ7604 Cylinder



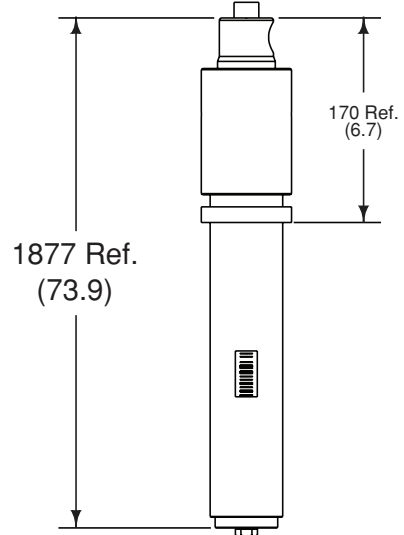
FJ7664/N310 Cylinder



N380e Cylinder



N380y Cylinder





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Revolution Cylinder Guide

| Lift Model | Original Cylinder | Replacement Cylinder | Seal kit |
|----------------------|--|-----------------------------|-----------------|
| Low Rise | | | |
| VMR6 | FJ860 | FJ860 | FJ860-12TH |
| RMR6, | YG03-9100 | YG03-9100 | YG03-9180 |
| MCY | MCY1-11 | MCY1-11 | N/A |
| MCY-S, RXLDT | YG09-9100 | YG09-9100 | YG09-9180 |
| RLR6A, RLR6F, RLR6P, | FJ2248 | FJ2248 | FJ2248-12TH |
| | | | |
| 2-Post | | | |
| RTP9 | YG07-9100G1 | YG07-9100G1 | YG07-9180 |
| RTP10 | 992317 | 992317 | YG32-9180 |
| | | | |
| 4-Post | | | |
| RFP7P, RFP7N | S130093 (94" Stroke) S130095 (77" Stroke) | S130093 S130095 | S130093-12 |
| RFP9 | YG36-9100G2 | YG36-9100G2 | YG36-9180 |
| RFP14 | YG18-9100G2 | YG18-9100G2 | YG18-9180 |



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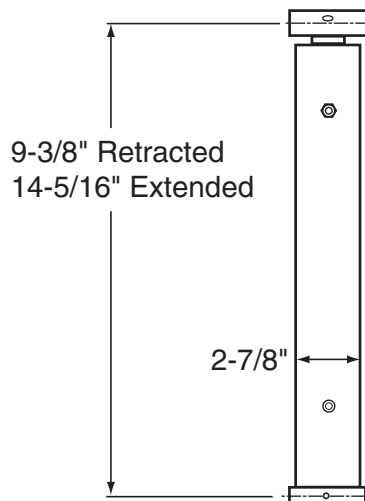
Rolling Jack Cylinder Guide

Cylinder Kit Identification Table

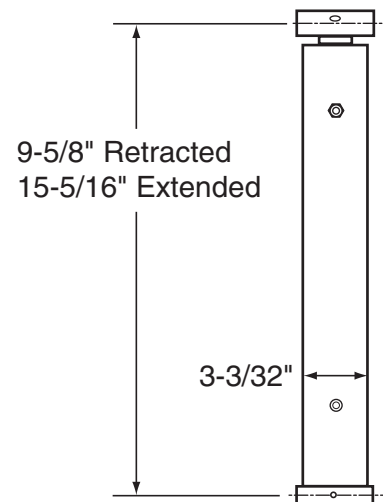
Rolling Jack

| Bridge Model | Capacity | Original Cylinder | Replacement Cylinder | Seal kit |
|---------------------|-----------------|--------------------------|-----------------------------|------------------------|
| FC5124 | 3,000 | FC570-2 | FC570-2 | FC570-2-12TH FC5409 |
| FC5269 | 3,500 | FC5185-20 | FC5185-20 | FC5410 |
| FC5279 | 3,500 | FC5185-20 | FC5185-20 | FC5410 |
| FC5655 | 3,500 | FC5642 | FC5642 | FC5642-12TH |
| FC5655-50 | 3,500 | FC5642 | FC5642 | FC5642-12TH |
| FC5277 | 4,500 | FC5185-20 | FC5185-20 | FC5410 |
| FC5656 | 4,500 | FC5642 | FC5642 | FC5642-12TH |
| FC5656-50 | 4,500 | FC5642 | FC5642 | FC5642-12TH |
| RJ4500 | 4,500 | FC5642 | FC5642 | FC5642-12TH |
| RJ4500Z | 4,500 | SB700027 | SB700027 | SB100032 |
| SJ4500 | 4,500 | N/A | N/A | SJ100001 |
| FC5278 | 6,000 | FC5185-20 | FC5185-20 | FC5410 |
| FC5657 | 6,000 | FC5642 | FC5642 | FC5642-12TH |
| FC5657-50 | 6,000 | FC5642 | FC5642 | FC5642-12TH |
| RJ6000 | 6,000 | FC5642 | FC5642 | FC5642-12TH |
| RJ6000Z | 6,000 | SB700027 | SB700027 | SB100032 |
| SJ6000 | 6,000 | N/A | N/A | SJ100002 |
| RJ7000 | 7,000 | FC5818-18 | FC5818-18 | FC5818-18-12TH |
| RJ7000Z | 7,000 | SB700027 | SB700027 | SB100032 |
| FC5818 | 9,000 | FC5818-18 | FC5818-18 | FC5818-18-12TH |
| RJ9000 | 9,000 | FC5818-18 | FC5818-18 | FC5818-18-12TH |
| FC5341 | 15,000 | FC5341-1 | NLA | 10649 |
| FC5710 | 15,000 | FC5711-1 | FC5711-1 | FC5711-1-12TH |
| RJ25 | 25,000 | AB300006 | AB300006 | AP01514 |
| RJ50 | 50,000 | AB300007 | AB300007 | AP01515 |

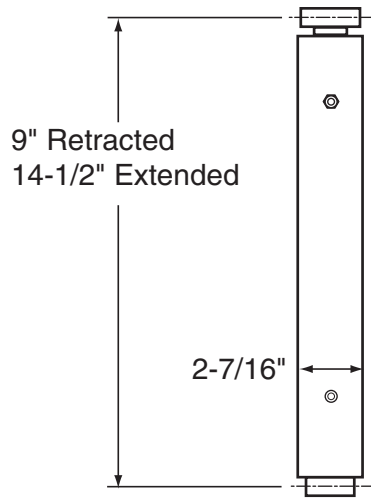
FC5818-18 Cylinder



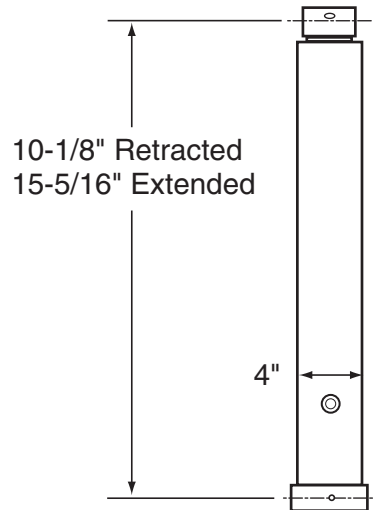
FC5642 Cylinder



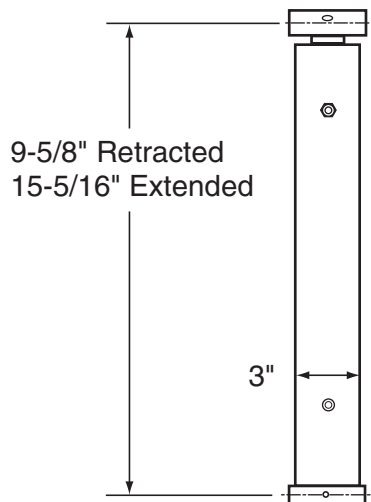
FC570-2 Cylinder



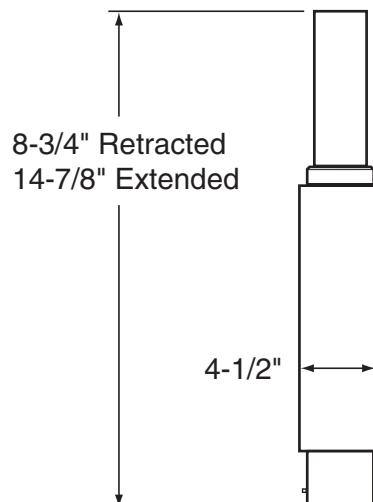
FC5711-1 Cylinder



FC5185-20 Cylinder



FC5341-1 Cylinder





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Accessories

| Lift Model | Original Cylinder | Replacement Cylinder | Seal kit |
|------------------------------------|--------------------------|-----------------------------|-----------------|
| Portable Productivity Jacks | | | |
| GUWSFF5, GUWSFF5-1 | | | 101151 |
| GUWSFF5-100 | | | 112206 |
| GUWSFF20 | | | 101152 |
| | | | |
| Floor Running Pit Lift | | | |
| GHUSSFFT20-14 | | | 3720999 |
| | | | |
| Suspended Pit Lift | | | |
| GHUSLP20 | | | 3720999 |
| | | | |
| Volkswagen Lift Table | | | |
| VAS6131A | S2685-ZY1 | S2685-ZY1 | N/A |



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In-Ground Cylinder Guide

PB 10-4-8

| Model | Plunder Diameter | Jack Serial # | Gasket Part # | | Packing Gland # | | Packing / Seal # | |
|---|------------------|-----------------------------------|---------------|---------------|-----------------|--------------|------------------|--------------|
| | | | Original | Replace-ment | Original | Replace-ment | Original | Replace-ment |
| 85, 86, 87, 88, 88B, 7, 7A | 10 1/2 | 8000 Thru 8810 H011 Thru H4276 | JK31 | NLA | NLA | NLA | JK218 | NLA |
| K8, K9, K10 | 9 1/2 | K0001 Thru K2736 | JH31 | NLA | NLA | NLA | JK218 | NLA |
| FH10G, RH10G, RH20G, 610G, 620G | 10 5/8 | G1139 Thru G1294 01 Thru 1138 | Non Re-quired | Non Re-quired | NLA | NLA | JK218 | NLA |
| 805 | 8 1/2 | B1 Thru B2690 | JG31 | NLA | NLA | NLA | JK219 | NLA |
| 905, 912, 915 | 9 1/2 | B1 Thru B2690 | JH31 | NLA | NLA | NLA | JK219 | NLA |
| 1005, 1012, 1015 | 10 5/8 | B1 Thru B2690 | JK31 | NLA | NLA | NLA | JK219 | NLA |
| 508 | 8 1/2 | C100 Thru C4241 M1 Thru M2468 | JG31 | NLA | NLA | NLA | JK220 | JK220KIT |
| 419, 509, 619, 916, 1209, 1509 | 9 1/2 | C100 Thru C4241 M1 Thru M2468 | JH31 | NLA | JH62 | NLA | JK220 | JK220KIT |
| 420, 510, 620, 1016, 1210, 1510 | 10 5/8 | C100 Thru C4241 M1 Thru M2468 | JK31 | NLA | JK62 | NLA | JK220 | JK220KIT |
| FA9, FH9, RA9, RA19, RH9, RH19, FU9, FU19, RU19, FC9 | 9 1/2 | Ending in T1 Thru T9526 | JH31 | NLA | JH62 | NLA | JK220 | JK220KIT |
| FA10, FA20, FH10, FH20, FC10, RA10, RA20, RH10, RH10, RH20, T110, T210, T1012 (Front jack only) | 10 5/8 | Ending in T1 Thru T9526 | JK31 | NLA | JK62 | NLA | JK220 | JK220KIT |
| 10FA, 10FH, 20RH, 20RA, T110, T210, T1012 (Front jack only) | 10 5/8 | Ending in V3 Thru V2880 | JK32 | NLA | JK610 | NLA | JK220 | JK220KIT |
| T112, T212, T1012 (Rear only) | 12 5/8 | Preceded by T or V | JL31 | NLA | NLA | NLA | JL214 | NLA |

| | | | | | | | | |
|--|--------|--|--------------|--------------|-------|-------|-------|----------|
| T112, T212, T212DS, T212LS, T1012, AT1012, AT1012DSE (Rear only) | 12 5/8 | Preceded by W or ending in W5, W6, W7 | Non Required | Non Required | J167 | J117 | JL215 | NLA |
| | 12 5/8 | Ending in W8, JL123, JL124 | Non Required | Non Required | JL69 | J117 | JL215 | NLA |
| | 12 5/8 | Ending in JL128 Thru JL133 | Non Required | Non Required | JL610 | J117 | JL217 | J117 |
| | 12 5/8 | Ending in JL134 and above (except JL153) | Non Required | Non Required | JL612 | JL612 | JL220 | JL220KIT |
| 10AF & HF, 20AR & HR, 31AR & HR, 35AR & HR, T110A & H, 210A & H, T210DS, T210LS, T1010, FP10A & H, FP11A & H, FP45A, & H, FP12A & H, FP46A & H, FP36, VW5A & H, VF5A & H, DY10A & H, DRT10A & H, WABU10A & H, PF10A & H, PFV10A & H, AT70H & E, AT703E, AT704E, AT10210E, AT10210DSE, Rear jack only of AC60H & E, 810ML, 810MLS, 811ML, 710MLS, Front jack only of AT1012E, AT1012DSE | 10 5/8 | Preceded by W or ending in W5, W6, W7 | Non Required | Non Required | JK69 | NLA | JK221 | NLA |

| | | | | | | | | |
|--|--------|---|--------------|--------------|--------------|--------------|-------|----------|
| | | Ending in W8, JK123, JK124 | Non Required | Non Required | JK69 | NLA | JK221 | NLA |
| | | Ending in JK135 Thru JK157 | Non Required | Non Required | JK69 | J134 | JK223 | J134 |
| | | Ending in JK158 Thru JK1112 | Non Required | Non Required | JK69 | J134 | JK225 | J134 |
| | | Ending in JK1113 Thru JK1269 | Non Required | Non Required | JK69 | JK622 | JK227 | JK227KIT |
| FP46A & H, 70C,P & Q, 10210C,P & Q, R70C,P & Q, R10210C,P & Q, 703C, P & Q, R703C,P & Q, RU70C,P & Q, RU10210C,P & Q, RU703C,P & Q, 70HC, 60HC, 52HC | 10 5/8 | Ending in JK1303, JK1400 and above | JK238 | JK238 | Non Required | Non Required | JK238 | JK238KIT |
| 28ML & MLS, SE8, 29ML & MLS, 811ML, 78SF & ML | 8 1/2 | Ending in JG118 Thru JG127 | Non Required | Non Required | JG67 | J136 | JK223 | J136 |
| FP8, VW4A & H, FP6, FP28A & H, FP7A & 5A, AP50H & E, AC60H & E Front jack only | 8 1/2 | Ending in JG128 Thru JG148 | Non Required | Non Required | JG68 | J139KIT | JG218 | J139KIT |
| 29ML, FP28H, DTO28H, P20H, DTRP28H, WABU28H, WRP90, | 8 1/2 | Ending in JG149 Thru JG187 & JG190 | Non Required | Non Required | JG620 | JG620 | JG220 | JG220KIT |
| DTO28H, WABU28H, PT20H, DTRP28H, RBU68H, AP50H & E, AC60H & E, 52HC, 52C, 52P, 710MLS (Front Jack) | 8 1/2 | Ending in JG188, JG189, JG191 and above | JG37 O-Ring | JG37 O-Ring | Non Required | Non Required | JG227 | JG227KIT |

| | | | | | | | | |
|---|-------------|---|-------------------|-------------------|-------------------|-------|------------------------------------|--|
| 94, 948, 96 | 8 1/2 | 90001 - 9999 1001-1999 X001-X999 A001-A773 | JG31 | NLA | NLA | NLA | JG216 | NLA |
| 27SL, 27ML, 78SF, 78ML | 7 1/2 | Ending in Y1 Thru Y5 | Non Re- quired | Non Re- quired | NLA | NLA | JG216 | NLA |
| FP27 | 7 1/2 | Ending in JF15 | Non Re- quired | Non Re- quired | JF64 | NLA | JF214 | NLA |
| FP28H, DT028H, PT20H, 710MLS (Front jack only) | 7 1/2 | Ending in JF19 Thru JF122 | JF34 O-Ring | JF34 O-Ring | JF611 | JF611 | JF218 | JF218 |
| R12, FM12, FMRT12 | 12 5/8 | JL1400 Thru JL1402 | NLA | NLA | NLA | NLA | JL230 | JL230KIT |
| MOD30 | Multi-Stage | JT11 | Non Re- quired | Non Re- quired | Non Re- quired | J156 | J156-1 Lower J156-2 Lower | J157 (Com- plete) J157-1 Up- per J157-2 Lower |
| MOD30 | Multi-Stage | JT14 | Non Re- quired | Non Re- quired | Non Re- quired | J154 | J154 | J154 |

J134 is a seal and gland assembly consisting of JK227 seal, JK622 gland, JX207 bleeder and new hard wear.
This kit can be used to upgrade the JK225 and JK223 seals to the JK227 seal. This is required for a replacement of these older seals.
J136 seal and gland assembly consists of JG220 seal, JG620 gland, JX207 bleeder and hardware
J139 seal and gland assembly consists of JG220 seal, JG620 gland, JG36 spacer ring, JX207 bleeder and hardware
J117 seal and gland assembly consists of JF220 seal, JF612 gland, JX207 bleeder and hardware
J150 seal and gland assembly consists of JF218 seal, JF611 gland, JF34 o-ring, JX207 bleeder and hardware
J156 seal and gland assembly for a JT11 jack, consisting of a J156-1 upper seal and gland assy, J156-2 lower seal and gland assy.
J148 seal and gland assembly for High Pressure 10 5/8 Or Wash Bay

Bearing and Gland Replacement Kits

JG118 thru JG187 and JG190 use the JG629 bearing and gland replacement kit. It is required to use a JG230 mandrel for installation.
The mandrel is reusable
JK1113 thru JK1299 and use the JK629 bearing and gland replacement kit. It is required to use a Jk244 mandrel for installation.
The mandrel is reusable

TOOLS

JK244 10 5/8" mandrel
JG230 8 1/2" mandrel
PR810134 12 1/2" mandrel
IR06200010BK MOD30 JT14 clamp ring tool kit jack
PR080191BK MOD30 JT11 Spanner wrench



World Leader in Lift Systems

HD Surface

| Lift Model | Original Cylinder | Replacement Cylinder | Seal kit |
|--------------------------|-------------------|----------------------|----------|
| Movable Column | | | |
| HP413 | HP13-48 | HP13-48 | HP13-124 |
| MACH4 | M130001 | M130001 | M130033 |
| | | | |
| Parallelogram | | | |
| Classic | | | |
| 34/27F (6" Cyl.Flush) | AP00741 | AP00741 | AP00704 |
| 45/35S (6" Cyl.Surface) | AP00642 | AP00642 | AP00704 |
| 50/25F (7" Cyl.Flush) | AP00742 | AP00742 | AP00696 |
| 50/25S (7" Cyl.Surface) | AP00643 | AP00643 | AP00696 |
| 50/26S (7" Cyl.Surface) | AP00643 | AP00643 | AP00696 |
| 50/32S (6" Cyl.Surface) | AP00642 | AP00642 | AP00704 |
| 50/48S (7" Cyl.Surface) | AP00950 | AP00950 | AP00696 |
| | | | |
| Gen 2 | | | |
| 1995- 2001(April) | | | |
| 5 1/2" Cyl. Surface | 610-307-00 | 591-01-1580 | AP01808 |
| 6" Cyl. Surface/Flush | AP01397 | AP01397 | AP00704 |
| 7" Cyl. Surface | AP01398 | AP01398 | AP00696 |
| 7" Cyl. Flush | 705-305-00 | 591-01-1630 | AP00696 |
| | | | |
| Gen 3 | | | |
| 2001(May)-2008 | | | |
| 5 1/2" Cyl. Surface | AP02668 | AP02668 | AP01808 |
| 6" Cyl. Surface | AP02626 | 2005-13-312-00 | AP02746 |
| 6" Cyl. Flush | AP02650 | 2005-14-312-00 | AP02746 |
| 7" Cyl. Surface in Res. | AP01398 | AP01398 | AP00696 |
| 7" Cyl. Surface | AP02598 | 2005-17-312-00 | AP00696 |
| 7" Cyl. Flush | AP02682 | 2005-18-312-00 | AP00696 |
| | | | |
| Gen 4 | | | |
| 2009-Current | | | |
| 5 1/2" Cyl. Surface | AP02668 | AP02668 | AP01808 |
| 6" Cyl. Surface | AP02626 | 2005-13-312-00 | AP02746 |
| 6" Cyl. Flush | AP02650 | 2005-14-312-00 | AP02746 |
| 7" Cyl. Surface | AP02598 | 2005-17-312-00 | AP00696 |
| 7" Cyl. Flush | AP02682 | 2005-18-312-00 | AP00696 |

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