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SERVICE BULLETIN

December, 2002

SPC ACTUATOR PRODUCT CHANGE NOTICE (P/N 837600)

Nexen has improved the Spring Actuator for all Single Post Caliper Brakes. A new two-port actuator replaces the three-port actuator. This change does not affect the form, fit and function of the brake. The mounting procedures are identical. Only the geometry and the manual release operations are different. The new actuator has a simplified manual disengagement procedure. (Please see the next page for a detailed description of manual release differences.)

SUMMARY OF DIFFERENCES IN SPC ACTUATORS

	Two-Port Acuator	Obsolete Three-Port Actuator
Overall Length	169 mm [6.67 in]	214 mm [8.41 in]
Diameter	163 mm [6.44 inches]	160 mm [6.31 inches]
Clamping Force	5% greater	refer to catalog data
Hold-Off Pressure	5.10 bar [74 psi]	4.96 bar [72 psi]
Power Spring	Non-coil clash	Telescoping
Ports	One spring release and one plugged port	One spring release and two plugged ports

BRAKE ASSEMBLY

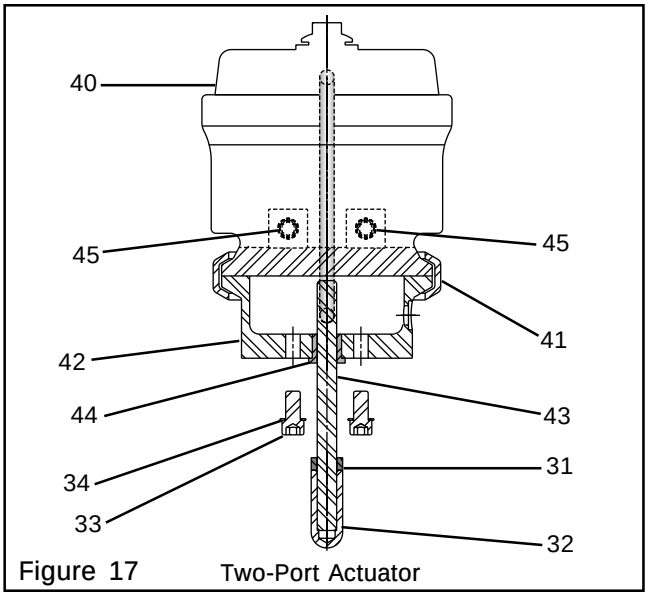


Figure 17 Two-Port Actuator

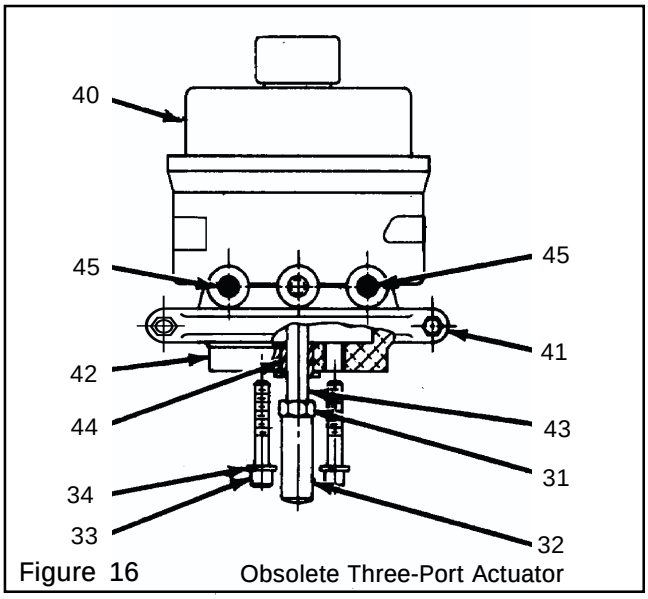


Figure 16 Obsolete Three-Port Actuator

ITEM	DESCRIPTION	QTY
31	Jam Nut	1
32	Spacer	1
33	Cap Screw	2
34	Lock Washer	2
35	Hose Assembly (Not Shown)	1
36	Fitting Connector (Not Shown)	1

ITEM	DESCRIPTION	QTY
37	Fitting Bushing (Not Shown)	1
40	Spring Actuator	1
41	Clamp	1
42	Bottom	1
43	Rod	1
44	Bearing	1
45	Fitting Plug	1*

FORM NO. L-21154-A-1202

DANGER

Read the SPC Caliper Brake maintenance manual carefully before installation and use. Some operations have changed. Follow Nexen's instructions and integrate this unit into your system with care. This unit should be installed, operated and maintained by qualified personnel ONLY. Improper installation can cause injury or death. Comply with all applicable codes.

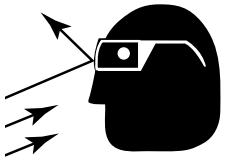
MANUAL RELEASE

Obsolete Three-Port Actuator Only

NOTE: The tap bolt beneath the actuator breather cap can be used to physically release the spring in the event of actuator failure or machine service without hold off air available. DO NOT USE THE TAP BOLT TO ADJUST THE FRICTION FACING GAP. If the actuator (spring engaged units only) is damaged and air pressure will not release the brake, use a 9/16 inch socket wrench to turn the tap bolt counterclockwise until the brake is released (approximately 40 turns).

DANGER

Actuator (spring engaged units only) is spring loaded under extreme pressure. Do not disassemble Actuator. If Actuator malfunctions, replace the Actuator or contact Nexen.



Disengagement

1. If a manual release for safety reasons is needed, first apply hold off air pressure to remove any tension on the Tap bolt for easier release.
2. Using a 9/16 inch socket wrench, turn the tap bolt counterclockwise until the brake is released (approximately 40 turns).
3. Hold off air pressure can be removed at this time and service performed.

Re-engagement

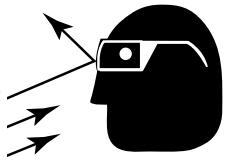
1. To reengage the actuator, apply hold off air pressure.
2. Turn the tap bolt clockwise until seated (approximately 40 turns).
3. Torque the tap bolt to 13.6-20.34 Nm [10-15 ft-lb].
4. Remove hold off air pressure.

Two-Port Actuator Only

NOTE: The Hex bolt on the top of the actuator canister can be used to physically release the spring in the event of actuator failure or machine service without hold off air available. DO NOT USE THE HEX BOLT TO ADJUST FRICTION FACING GAP. This will lower torque capabilities. If the actuator (spring-engaged units only) is damaged and air pressure will not release the brake, use a 3/4 inch socket wrench to turn the tap bolt counterclockwise until the brake is released. The spring is fully compressed when the bolt is backed out approximately 21.1 mm [0.83 inches].

DANGER

Actuator (spring engaged units only) is spring loaded under extreme pressure. Do not disassemble Actuator. If Actuator malfunctions, replace the Actuator or contact Nexen.



Disengagement

1. If a manual release for safety reasons is needed, first apply hold off air pressure to remove any tension on the Tap bolt for easier release.
2. Using a 3/4 inch socket, turn the tap bolt counterclockwise to fully cage (compress) the spring. The spring is fully compressed when the bolt is backed out of the unit 21 mm [0.83 inches]. (Refer to Figure 6b in maintenance manual).
3. Hold off air pressure can be removed at this time and service performed.

Re-engagement

1. To reengage the actuator, apply hold off air pressure.
2. Using a 3/4 inch socket, turn the tap bolt clockwise to fully uncage (decompress the spring. The spring is fully decompressed when the hex bolt head is flush against the actuator.
3. Remove hold off air pressure.

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