

INTERNAL VALVE ACCESSORIES



P650



P163A/P164A



P313



P340

Cable Controls

Fisher cable controls and accessories can be furnished to remotely open and close all internal valves except the 4" flanged size. This equipment can be used to comply with NFPA 58 (2001 Edition) and DOT requirements for MC331 cargo tanks.

Cable systems can also be used on stationary storage tanks at bulk plants and on in-line applications to increase safety during transfer operations. All fusible elements and links used in the Fisher cable control systems comply with NFPA 58 and MC331 requirements.

Type P650 or P651 Primary Cable Control - Capable of actuating all Fisher internal valves except the 4" C404-32, the P650 or P651 opens and closes the valve from a remote point, usually the rear of the bobtail or transport. Pulling the handle of the primary control opens the internal valve; pushing the handle closes the valve. There are three notches on the primary control that give a travel of 4, 5 or 6" depending upon the travel required by the valve's operating lever.

Included with each P650 primary control is a 20' cable, Type P134 fusible links (212°F), a return spring (1K4434) and mounting hardware. If just the primary cable control is needed, order Type P651, which is available without any of the other accessories.

Type P163A or P164A Auxiliary Remote Release - These units allow the internal valve to be closed from a location other than the primary control point (P650 or P651). Pulling the auxiliary release handle trips the release mechanism on the primary control to close the internal valve. The two assemblies are identical except for the length. Type P163A has an untrimmed length of 25' and Type P164A has an untrimmed length of 50'. Both cables can be trimmed to any length. Both releases can be installed through mounting brackets up to 3/8" thick.

Type P164C - an Auxiliary Remote Release without cable is also available.

Latch/Remote Release Mechanisms

With the exception of the 3" flanged sizes, all Fisher internal valves can be fitted with a manual latch/remote release mechanism. When the internal valve's operating lever is manually moved to the open position, the lever can be latched in the open position. The lever can be released from a remote location by pulling on the cable attached to a pull ring, thus closing the internal valve. A built-in fusible element in the latch/release melts if exposed to fire allowing the operating lever to return to the closed position.

Type P340 - Fits all 2" and 3" threaded internal valves (C402, C421, and C427). Type P340 is easily installed in the field by removing two of the three gland cap screws. Also available factory installed, Type C421M and C427M.

Type P341 - Fits 1 1/4" Type C407 internal valves. Also available factory installed, Type C407M10, pictured with valve on page 24.

Type P342 - Bi-directional latch/remote release for the 1 1/4" Type C407-10 allows operation from two directions.

Type P313 - Fits 4" Type C404-32 internal valves. Also available factory installed, Type C404M32. The Type P315 remote release should be used with this release.

Internal Valve Accessories

Internal Valve Size	Primary Cable Control	Auxiliary Remote Release	Cable Assembly	Latch/Release Mechanism
1 1/4, 2 & 3" (Threaded or Flanged)	P650 or P651 ¹	P163A or P164A	Included with P650	P341, P342 (C407-10) P320 (C400 Series)
4" Flanged	Use Allengheny or Wheaton Control	P315	P314	P313 ²

1. P651 is a primary control only, no accessories. 2. Use with P315 remote release mechanism.

4" Internal Valve Accessories

Type P314 - This cable assembly is used as an attachment from the C404-32 operating lever to the primary cable control. The assembly includes a 40' cable, a special bushing with a fusible element and clamp. The bushing fits in the valve-operating lever and has a built-in fusible element that will melt if exposed to fire, allowing the C404-32 to close. The cable connects to the bushing and the clamp permits the other end of the cable to be attached to the fusible link (not furnished) at the primary cable control.

Type P315 - On manually actuated 4" valves (C404M32), Type P315 remote handle release can be used to close the internal valve from a remote location. Cable linkage (30') and mounting hardware are included.

Air Cylinder Accessories

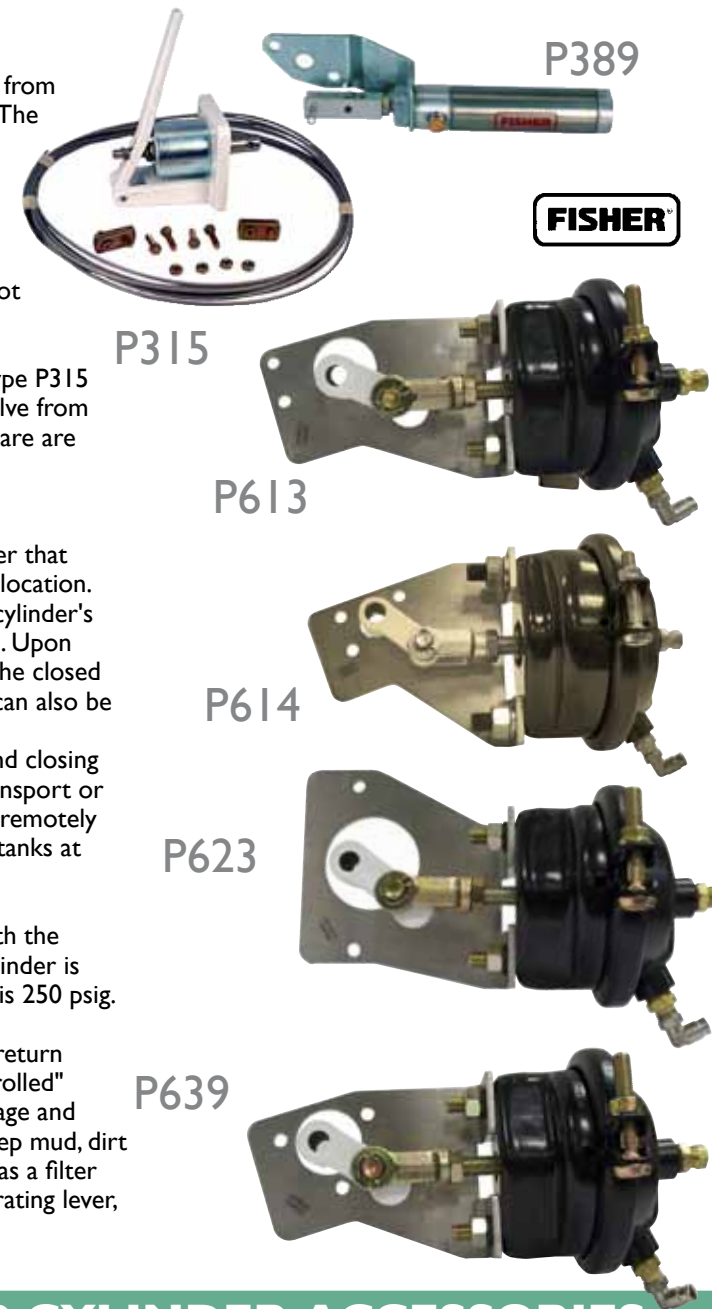
All Fisher internal valves can be ordered with an air cylinder that permits the valve to be opened and closed from a remote location. When air pressure is applied to the cylinder, it moves the cylinder's rod and internal valve operating lever to the open position. Upon loss of air pressure, the valve's operating lever returns to the closed position. Besides air pressure, nitrogen or carbon dioxide can also be used to pressure the cylinder.

Use of air cylinder type of actuator permits the opening and closing of the internal valve to be tied into the air brake of the transport or bobtail. Air cylinders can also provide a convenient way to remotely operate a number of internal valves on stationary storage tanks at bulk plants.

Type P389 (1 1/4" size) - This cylinder can only be used with the C407-10 valve. All necessary hardware for installing the cylinder is included. Minimum pressure is 60 psig; maximum pressure is 250 psig.

Type P326 (2" and 3" Sizes) - This cylinder features spring return design, eliminating the need for an air return. The unique "rolled" cylinder diaphragm has a special seal that prevents air leakage and minimizes friction. A bellows covers the cylinder rod to keep mud, dirt and foreign matter off the cylinder rod. The cylinder also has a filter to stop dust from entering. Each assembly includes an operating lever, mounting bracket and installation hardware. Operating pressure for the cylinder is from 20 to 125 psig. Temperature range is from -60° to 250° Fahrenheit.

Type P312 (4" Size) - Also available factory installed (C404A32), the cylinder attaches directly to the valve after removal of the cable-operating lever. Included in each assembly is an operating lever and mounting hardware. A minimum operating pressure of 60 psig is required; maximum pressure rating of the cylinder is 250 psig.



AIR CYLINDER ACCESSORIES

Fisher Internal Valve Model Number	Fisher	
	Actuator Kit	Air Cyl Kit
C402, C421, C427	P639	P326-6
C403-24	P623	P326-5
C404-24	P613	P326-7
C404-32	P614	P312
C407-10	P631	P389

INTERNAL VALVE REPAIR KITS

Kits include a Nitrile main disc, a Bleed Disc and TFE shaft packing. These kits are for valves used in propane or anhydrous ammonia service. Contact Bergquist inside sales for additional information on special trims for other applications, and for parts not included in the kits.

Kit Part No.	Fits Valve No.
RC40016T012	For 2" C401, C402, C421, C427
RC40024T012	For 3" C401, C402, C421, C427
RC40324T012	For C403-24
RC40424T012	For C404-24
RC40710T012	For C407-10