

## Threaded Internal Valves

Fisher® offers the widest variety of threaded internal valves in the industry. The valves operate the same even though the body style or size may vary. Internal valves – both threaded and flanged versions – act as primary shutoff valves, excess flow valves and back pressure valves for flow from the storage tank. Refer to Fisher’s Bulletin LP-200 for complete information on the technical operation of internal valves and manifolding requirements.

While their most frequent use is in the liquid and vapor openings of bobtail and transport trucks, the valves can also be used in stationary storage tanks, complying with NFPA No. 58 requirements for protection of transfer hose or piping at bulk plants. All Fisher internal valves are suitable for LP gas or NH<sub>3</sub> service.

### 1 1/4 Body size

**Type C407** - An excellent valve for vapor lines on bobtail trucks that meets compliance with MC-331 specifications. Other applications include use as a main valve on small capacity pumping systems, NH<sub>3</sub>, nurse tanks, and in-line installations.

### 2" & 3" Body size

**The C400 series** – 2 and 3 inch NPT valves feature TFE packing for maximum resistance against stub shaft leakage.

**Type C427** - The most economical unit in the series, it comes with straight through flow (one outlet). It can be used on bobtail, transport, stationary tank, and in-line installations.

**Type C421** - This is designed with two outlets, bottom and side. The side outlet permits installing horizontal piping immediately adjacent to the tank without the need for extra pipe fittings. Either connection can be used for truck filling or withdrawal. The C421 is used primarily on bobtails and transports.

**Type C402** - This construction has three side outlets and an integral strainer for pump protection. The three outlets allow convenient pump installation and also provide extra openings for tank evacuation. Another use for the C402 is in bulk plants for cylinder filling and truck loading from a single outlet.



C427



C407



C421



C402

Straight Body		Tee Body		Strainer Body		Connection Inlet x Outlet	Closing Flow GPM Propane		Vapor Capacity	
Item #	List	Item #	List	Item #	List		Half	Full	25 PSI Inlet	100PSI Outlet
C407-10-03	\$383.52	—	—	—	—	1-3/4" MPT x 1/4" FPT	30	—	5,600	9,300
C407-10-05	\$383.52	—	—	—	—	1-3/4" MPT x 1/4" FPT	50	35	7,800	13,200
C407-10-08	\$383.52	—	—	—	—	1-3/4" MPT x 1/4" FPT	80	65	11,200	19,200
C427-16-10	\$1014.11	C421-16-10	\$1274.31	C402-16-10	\$2788.74	2" MPT x 2" MPT	100	60	22,000	37,600
C427-16-15	\$1014.11	C421-16-15	\$1274.31	C402-16-15	\$2788.74	2" MPT x 2" MPT	150	90	32,000	54,500
C427-16-25	\$1014.11	C421-16-25	\$1274.31	C402-16-25	\$2788.74	2" MPT x 2" MPT	200	130	—	—
C427-24-15	\$1153.72	C421-24-158	\$1632.41	C402-24-15	\$3138.57	3" MPT x 3" MPT	150	100	29,200	49,700
C427-24-20	\$1153.72	C421-24-20	\$1632.41	C402-24-20	\$3138.57	3" MPT x 3" MPT	200	125	44,400	75,400
C427-24-25	\$1153.72	C421-24-25	\$1632.41	C402-24-25	\$3138.57	3" MPT x 3" MPT	250	165	52,600	89,400
C427-24-40	\$1153.72	C421-24-40	\$1632.41	C402-24-40	\$3138.57	3" MPT x 3" MPT	400	235	81,800	139,000
C427-24-50	\$1153.72	C421-24-50	\$1632.41	C402-24-50	\$3138.57	3" MPT x 3" MPT	500	325	—	—

## Fisher® Cable Control Assemblies



P650

**Type P650** – Includes primary control, a 20-foot cable, Type P134 fusible links, a return spring, and mounting hardware. Pulling the control handle opens the internal valve; pushing the handle closes the valve.

**Type P163A & P164A** – Auxiliary cable releases that allow the internal valve to be closed up to 25 feet (P163A) or up to 50 feet (P164A) from the primary control point.

Item #	List	Description
P650	\$311.75	Primary control and accessories.
P651	\$221.25	Primary control only.
P163A	\$212.23	Auxiliary cable releases up to 25'
P164A	\$264.11	Auxiliary cable releases up to 50'

## Fisher® Air Cylinders

**Type P326** – Featuring spring return design, the P326 series eliminates 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 material off the rod.



P326

**Type P389** – Used with the Type C407-10 only. Minimum pressure is 60 psig, maximum pressure is 250 psig.

Item #	List	Internal Valve No.
P326-6	\$478.13	C402, C421, or C427
P326-5	\$506.76	C403-24
P326-7	\$480.67	C404-24

## Flanged Internal Valves



Flanged valves provide a sturdy and compact means of direct pump or piping connection. Special stud bolts, weakened with a groove on the outside diameter, are furnished with the valves in order to help permit the pump or piping to shear off in the event of accident, leaving the valve intact. The valves can be activated manually, by cable control, or by an air cylinder. All of the valves have an internal screen for pump protection which can be removed if the valve is used for filling.



**Type C403-24** – Intended for special bobtail truck applications where the pump must be lowered to clear the truck frame or other obstacles. A shear section in the body permits the lower section of the valve to shear off in the event of accident, leaving the critical shutoff parts within the tank.

**Type C404-32** – 4" flanged units for transport trucks and large storage tanks. Stainless steel body and internal parts provide maximum resistance to rust and corrosion for longer service life. The valve's seat is easily replaced in the field.

**Type C404-24** – Single flange unit that is widely used on bobtails with direct connected pumps. Another application for the C404-24 is on in-line installations.

Single Flange	List	Double Flange	List	Flange Connection Size		Closing Flow (GPM) Propane	Vapor Capacity SCFH Propane	
				Inlet	Outlet		25 PSI Inlet	100 PSI Inlet
C404-24-150	\$2614.42	C403-24-150	\$2919.61	3" 300 lb. ANSI RF	3" 300 lb.	150	25,700	43,600
C404-24-200		C403-24-200		Modified ANSI RF	200	64,100	37,700	
C404-24-250		C403-24-250		(4 13/16" Dia. Bore)	ANSI RF	250	73,300	43,100
C404-24-400		C403-24-400		ANSI RF	400	103,000	60,600	

Cable	List	Air	List	Manual	List	Flange Connection Size		Closing Flow (GPM) Propane	Vapor Capacity SCFH Propane	
						Inlet	Outlet		25 PSI Inlet	100 PSI Inlet
						4" Size Available in Single Flange Only				
C40432-340	\$2754.55	C404A32-340	\$3529.97	C404M32-340	\$3084.60	4" 300 lb.	4" 300 lb.	340	61,600	104,800
C40432-400		C404A32-400		C404M32-400		Modified ANSI RF	400	63,900	108,600	
C40432-600		C404A32-600		C404M32-600		(4 13/16" Dia. Bore)	ANSI RF	600	83,200	141,500
C40432-800		C404A32-800		C404M32-800		" "	ANSI RF	800	259,600	356,200
C40432-1000		C404A32-1000		C404M32-1000		" "	ANSI RF	1000	--	--

### 4-Inch Valve Accessories

**Type P312** – Also available factory installed; the cylinder attaches directly to the valve after removal of the cable operating lever. A minimum operating pressure of 60 psig is required; maximum pressure rating of the cylinder is 250 psig.

**Type P314** – Cable assembly attaches to the C404-32 operating lever and can be connected to either a Wheaton or Allegheny type primary control. The assembly includes a 40-foot cable, a special bushing with a fusible element, and a clamp.

**Type P315** – On manually actuated 4-inch valves (C404M32), this remote release handle allows the valve to be closed from a remote location. Cable linkage and mounting hardware are included.

Item #	List	Description
P312	\$775.43	Assembly



P315