

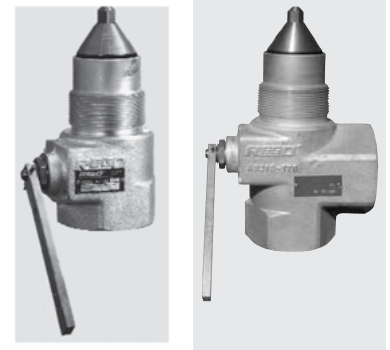
# INTERNAL AND PULL-AWAY VALVES

Rego

## Threaded Internal Valves For Bobtail Delivery Trucks, Transports and Stationary Storage Tanks

### Application

Designed primarily for use with LP-Gas and anhydrous ammonia for liquid withdrawal; vapor transfer or vapor equalization of bobtail delivery trucks, transports, stationary storage tanks, and in-line installations. The valve may be operated manually by cable or pneumatically.



**A3212A Series**  
**A3213A Series**

### Ordering Information

Item Number	Inlet Connection M. NPT	Outlet Connection F. NPT	Closing Flow (GPM) Half Coupling		Closing Flow (GPM) Full Coupling		Accessories	
			LP-Gas	NH <sub>3</sub>	LP-Gas	NH <sub>3</sub>	Pneumatic Actuator	Thermal Latch
A3212R105	2"	2"	105	95	65	59	A3213PA	A3213TL
A3212R175	2"	2"	175	158	100	90	A3213PA	A3213TL
A3212R250	2"	2"	250	225	130	117	A3213PA	A3213TL
A3213A150	3"	3"	150	135	125	113	A3213PA	A3213TL
A3213A200	3"	3"	200	180	160	144	A3213PA	A3213TL
A3213A300	3"	3"	300	270	250	225	A3213PA	A3213TL
A3213A400	3"	3"	400	360	325	293	A3213PA	A3213TL
A3213T300	3"	3"	300	270	250	225	A3213PA	A3213TL

## Pull-Away Valves for Transfer Operations

### Application

Designed especially to provide pull-away protection for LP-Gas and anhydrous ammonia transfer operations including transport and delivery truck loading and unloading, engine fuel container filling and miscellaneous cylinder filling operations. When properly fastened to the inlet end of the discharge hose, the valve is designed to stop gas escape from both upstream and downstream lines in the event of a pull-away. An excessive tension pull causes the valve to automatically separate, closing two internal back pressure checks. Only a few cubic centimeters of gas escape at the instant of separation.



**A2141 Series**

### Ordering Information

Item Number	Inlet/Outlet Connections F. NPT	LP-Gas Liquid Flow Capacity at Various Differential Pressures (GPM)*			
		5 PSIG	10 PSIG	25 PSIG	50 PSIG
A2141A6	3/4"	11	16	25	36
A2141A6L	3/4"	11	16	25	36
A2141A8	1"	21	30	47	67
A2141A8L	1"	21	30	47	67
A2141A10	1-1/4"	52	75	120	170
A2141A16	2"	250	350	550	750

\* To determine NH<sub>3</sub> liquid flow capacity, multiply by .90.



## 1-1/4" Threaded Internal Valve for Small Capacity Pumping Systems and Bobtail Vapor Equalization

### Application

Designed primarily for use with LP-Gas and anhydrous ammonia as a main valve on small capacity pumping systems, NH<sub>3</sub> nurse tanks and in-line installations. It may also be installed in the vapor equalizing opening on bobtail delivery trucks. Installation is quick and easy, and it fits in both full and half couplings, as well as, in-line applications. The valve may be actuated manually by hand or cable.

### A3209TL Thermal Latch Accessory

Designed especially for use with the A3209A050 Internal Valve. When the valve's operating lever is moved to open position, a spring loaded latch automatically holds the lever open. If exposed to fire or extreme heat, the built-in 212°F fusible element is designed to melt and return the operating lever to the closed position. Latch is easily installed while valve is "in-line". Accommodates convenient and versatile release cable installations.

### A3209PA Pneumatic Actuator

Designed especially for use with the A3209A050 Internal Valve. Provides a convenient means of opening and closing the valve from a remote location. Easily installed while valve is "in-line". Operates with pressures from 40 to 200 psig.



A3209R080

### Ordering Information

Item Number	Inlet Connection M. NPT	Outlet Connection F. NPT	Closing Flow** (GPM)		LP-Gas Vapor Capacity** (SCFH/Propane)		Accessories	
			LP-Gas	NH <sub>3</sub>	25 PSIG Inlet	100 PSIG Inlet	Thermal Latch	Pneumatic Actuator
A3209R050	1-1/4**	1-1/4"	50	45	13,300	22,900	A3209TL	A3209PA
A3209R080	1-1/4**	1-1/4"	80	72	15,700	26,700	A3209TL	A3209PA

\* Stem Assembly designed for higher filling rates.

\*\* Data for flow in half coupling.

NOTE: Multiply flow rate by .94 to determine liquid butane capacity.

## 1-1/4" Threaded Angle Internal Valve for Motor Fuel Dispensers and Small Capacity Pumping Systems

### Application

Designed primarily for use with LP-Gas and anhydrous ammonia as a main valve on pump systems with small capacity, such as motor fuel dispensers. It may also be installed in bottom liquid withdrawal openings in NH<sub>3</sub> nurse tanks or the vapor equalizing opening of bobtail delivery trucks. Installation is quick and easy, and must be installed in a modified half coupling or the equivalent. The valve may be actuated manually by cable or pneumatically.



A3210A065

### Ordering Information

Item Number	Inlet Connection M. NPT	Outlet Connection F. NPT	Closing Flow (GPM)		LP-Gas Vapor Capacity (SCFH/Propane)				Accessories
			LP-Gas	NH <sub>3</sub>	25 PSIG Inlet	50 PSIG Inlet	75 PSIG Inlet	100 PSIG Inlet	Pneumatic Actuator
A3210A065	1-1/4**	1-1/4"	65	58.5	17,000	22,250	26,500	30,000	A3210PA-R1

\* For use in half coupling only, 1-1/2" diameter minimum bore. If welded-in dip pipe is required, use of 1-1/2" schedule 40 pipe is recommended—flow will be reduced by approximately 10%.

# INTERNAL VALVES

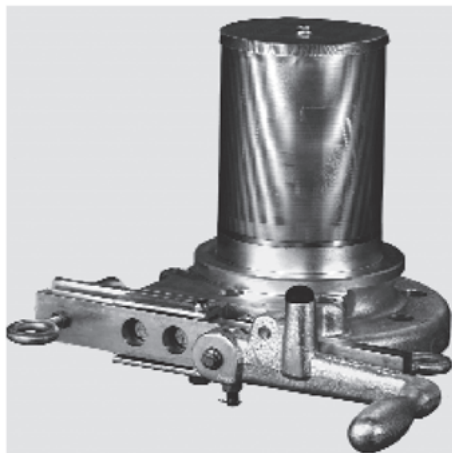


## 4" Flanged Internal Valve for Transports and Large Stationary Storage Tanks

### Application

Designed primarily for LP-Gas and anhydrous ammonia service on MC331 transport pressure vessels and large stationary storage tanks. Installation is quick and easy, and it fits in most existing tank flanges. The valve may be actuated manually or pneumatically.

Use of the A3219RT remote thermal release with this valve is suggested to provide a remote means of mechanical closure along with thermal protection, as required by DOT MC331.



A3219FA600L



A3219FPA

### Ordering Information

Item Number*	Inlet Connection	Outlet Connection	Closing Flow GPM		Accessories	
			LP-Gas	NH <sub>3</sub>	Pneumatic Actuator	Remote Thermal Release
A3219FA600L	4" 300# ANSI RF Modified Flange**	4" 300# ANSI RD Flange	600	544	A3219FPA	A3219RT (2)

\* Valve supplied with 16 nuts and 8 studs for mounting.

\*\* Modified bore = 4-5/8" diameter with 5-3/4" diameter raised face.

## Remote Thermal Release for DOT MC331 Pressure Vessel

### Application

Designed especially for use with internal valves installed in DOT MC331 pressure vessels. The A3219RT provides a remote means of mechanical closure along with thermal protection, as required by DOT MC331.

The A3219RT is connected by cable to the internal valve(s) on the vessel. In the event of extreme heat (over 212° F), the fuse link will melt, causing the spring to contract and pull the cable. When properly installed the cable will trip the internal valve release lever(s) allowing the connected handle(s) to move to the closed position.



A3219RT

### Ordering Information

Item Number	For Use With	Release Temperature	Spring Load		Minimum Number Required by MC331
			Fully Extended	After 4" Travel	
A3219RT	Internal Valves	212°F	=100 lbs.	=50 lbs.	2

# INTERNAL VALVES

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## 3" Flanged Internal Valve for Bobtail Delivery Trucks, Transports, and Large Stationary Storage Tanks



### Application

Designed primarily for LP-Gas and anhydrous ammonia filling and/or withdrawal on MC331 bobtail delivery trucks, transports and stationary storage tanks with flanged pumps or piping. Installation is quick and easy, and the valve may be operated manually by cable or pneumatically.

Lever available on right or left side to allow for installation without the use of an extra pulley.



**A3217FLPA A3217FR**

### Ordering Information

Item Number*		Operating Lever Position	Inlet Connection	Outlet Connection	Closing Flow GPM		Accessories
Single Flange Body	Double Flange Body				LP-Gas	NH <sub>3</sub>	Pneumatic Actuator
A3217FR160	A3217DFR160	Right Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	160	145	A3217FPA
A3217FL160	A3217DFL160	Left Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	160	145	A3217FLPA
A3217FR210	A3217DFR210	Right Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	210	190	A3217FPA
A3217FL210	A3217DFL210	Left Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	210	190	A3217FLPA
A3217FR260	A3217DFR260	Right Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	260	236	A3217FPA
A3217FL260	A3217DFL260	Left Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	260	236	A3217FLPA
A3217FR410	A3217DFR410	Right Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	410	372	A3217FPA
A3217FL410	A3217DFL410	Left Side	3" 300# ANSI RF Modified Flange**	3" 300# ANSI RF Flange	410	372	A3217FLPA

\* Valve supplied with 16 nuts and 8 studs for mounting.

\*\* Modified bore = 4-5/8" diameter with 5-3/4" diameter raised face.

## Flomatic® Internal Valves for Bobtail Delivery Trucks, Transports and Large Stationary Storage Tanks

### Application

Designed primarily for LP-Gas and anhydrous ammonia liquid withdrawal on MC331 bobtail delivery trucks, transports and large stationary storage containers with flanged connections.

The valve is fully automatic, opening and closing as the pump is turned on or off.

### Ordering Information

Item Number	Inlet Connection ANSI Flange	Outlet Connection ANSI Flange	Accessories (Included with Flomatic®)	
			Filter	3-Way Valve
A7883FK	3"-300#**	3"-300#	A7884-201	A7853A
A7884FK	4"-300#***	4"-300#	A7884-201	A7853A

\* Supplied with A7853A 3-way valve, A7884-201 filter, studs, nuts and gaskets.

\*\* With 4-13/16" diameter bore.

\*\*\* With 5-13/16" diameter bore.



**A7883FK and A7884FK**



**A7884-201**



**A7853A**