Excess Flow Valves

Excess Flow Valves for Liquid or Vapor Service

Application

Designed for top mounting in storage tank manhole covers for liquid or vapor applications. The tapped inlet allows for an optional 1" NPT dip pipe connection to withdraw liquid from the top of the tank.

The 1519C4 is designed for installation in long line or branch piping applications.

1519C Series

Ordering Information

Item Number	Inlet Connection NPT	Outlet Connection F. NPT	Approximate Closing Flows**		
			Liquid (GPM Propane)	Vapor SCFH (Propane)	
				25 PSIG Inlet	100 PSIG Inlet
1519C2	1-1/2" Male	1"	25	5,000	8,800
1519C4	2" Female	2"	170	28,590	48,600

** Based on horizontal installation of excess flow valve.
Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down.

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

Excess Flow Valves for Liquid or Vapor Line Service

Application

Designed for top installation, in any position, in liquid or vapor service lines. They are intended for long lines or branch piping where tank mounted excess flow valves cannot suffice.

1519A Series, 1519B Series and A1519 Series

Ordering Information

Item Number	Brass or Steel	Inlet Connection F. NPT	Outlet Connection F. NPT	Approximate Closing Flows*		
				Liquid (GPM Propane)	Vapor SCFH (Propane)	
					25 PSIG Inlet	100 PSIG Inlet
1519A2	Brass	1"	1"	25	5,000	8,800
A1519A2	Steel	1"	1"	25	5,000	8,800
1519A3	Brass	1-1/2"	1-1/2"	60	11,500	20,200
1519A4	Brass	2"	2"	100	19,000	34,500
A1519A4	Steel	2"	2"	100	19,000	34,500
1519B4	Brass	2"	2"	133	27,700	50,300
A1519B4	Steel	2"	2"	133	27,700	50,300
A1519A6	Steel	3"	3"	225	45,000	82,000

* Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down.

NOTE: Multiply flow rate by .94 to determine liquid butane flow and by .90 to determine liquid anhydrous ammonia flow.

Excess Flow Valves for Liquid or Vapor

Application

Designed for liquid or vapor use for filling, withdrawal and vapor equalizing in container or line applications. They are intended for long lines or branch piping where tank-mounted excess flow valves are inadequate.

Ordering Information

Item Number	Brass or Steel	Inlet Connection M. NPT	Outlet Connection F. NPT	Approximate Closing Flows*		
				Liquid (GPM Propane)	Vapor SCFH (Propane)	
					25 PSIG Inlet	100 PSIG Inlet
12472	Brass	3/4"	3/4"	4	1,050	1,700
3272E	Brass	3/4"	3/4"	10	2,100	3,700
3272F	Brass	3/4"	3/4"	15	2,800	5,000
3272G	Brass	3/4"	3/4"	20	3,700	6,900
A3272G	Steel	3/4"	3/4"	20	3,700	6,900
3282A	Brass	1-1/4"	1-1/4"	30	5,850	10,000
3282B	Brass	1-1/4"	1-1/4"	40	7,600	13,600
3282C	Brass	1-1/4"	1-1/4"	50	9,000	16,300
A3282C	Steel	1-1/4"	1-1/4"	50	9,000	16,300
7574	Brass	1-1/2"	1-1/2"	90	15,200	28,100
7574L	Brass	1-1/2"	1-1/2"	70	14,000	25,000
3292A	Brass	2"	2"	75	14,200	24,800
A3292A	Steel	2"	2"	75	14,200	24,800
3292B	Brass	2"	2"	100	18,100	32,700
A3292B	Steel	2"	2"	100	18,100	32,700
A3292C	Steel	2"	2"	122	22,100	37,600

* Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down. NOTE: Multiply flow rate by .94 to determine liquid butane flow and by .90 to determine liquid anhydrous ammonia flow.

Excess Flow Valves for Container Service

Application

Designed for mounting in threaded full or half couplings in container installations. They may be used for filling, withdrawal or vapor equalizing applications. The exceptionally low pressure drop makes them ideal for pump suction lines. If a riser pipe to the vapor space is used with these valves, the minimum inside diameter of the riser pipe must be at least two times the valve thread size in order not to restrict flow to the side inlet ports.

Ordering Information

Item Number	For Use With This type Coupling	Inlet Connection M. NPT	Outlet Connection NPT	Approximate Closing Flows*		
				Liquid (GPM Propane)	Vapor SCFH (Propane)	
					25 PSIG Inlet	100 PSIG Inlet
A8523	Half	3/4"	3/4" Male	15	5,170	8,800
A8525	Half	1-1/4"	1-1/4" Male	35	12,540	21,560
A7537L4	Half	2"	2" Male & 1-1/4" Female	75	13,000	25,600
A7537L4F	Full	2"	2" Male & 1-1/4" Female	75	13,000	25,600
A7537N4	Half	2"	2" Male & 1-1/4" Female	125	25,000	42,500
A7537N4F	Full	2"	2" Male & 1-1/4" Female	125	25,000	42,500
A7537P4	Half	2"	2" Male & 1-1/4" Female	150	30,500	52,000
A7537P4F	Full	2"	2" Male & 1-1/4" Female	150	30,500	52,000
A7539R6	Half	3"	3" Male & 2" Female	150	32,100	55,500
A7539R6F	Full	3"	3" Male & 2" Female	150	32,100	55,500
A7539T6	Half	3"	3" Male & 2" Female	200	39,400	68,300
A7539T6F	Full	3"	3" Male & 2" Female	200	39,400	68,300
A7539V6	Half	3"	3" Male & 2" Female	250	51,100	88,700
A7539V6F	Full	3"	3" Male & 2" Female	250	51,100	88,700

* Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down. NOTE: Multiply flow rate by .94 to determine liquid butane flow and by .90 to determine liquid anhydrous ammonia flow.

Excess Flow Valves for Vapor or Liquid

Application

Designed especially for filling, withdrawing or vapor equalizing in half and full coupling installations. Ideal for container service where welded-in dip pipes are not provided. For vapor use, mount in the bottom opening with a threaded dip pipe. For liquid use, mount in the top opening with a threaded dip pipe. These may also be installed in pipe lines provided the connection is made to the male inlet thread and not the female dip pipe connection.

A2137 Series and 2139 Series

Ordering Information

Item Number	Inlet Connection M. NPT	Outlet Connection F. NPT	Approximate Closing Flows***		
			Liquid (GPM Propane)	Vapor SCFH (Propane)	
				25 PSIG Inlet	100 PSIG Inlet
A2137	2"*	2" Male and 1-1/4" Female	50	10,000	17,000
A2137A	2"*	2" Male and 1-1/4" Female	70	14,000	25,000
2139	3"**	3" Male and 2" Female	125	26,500	46,000
2139A	3"**	3" Male and 2" Female	160	32,700	57,200

* 1-1/4" F. NPT Dip Pipe Connection
** 2" F. NPT Dip Pipe Connection
*** Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down.
NOTE: Multiply flow rate by .94 to determine liquid butane flow and by .90 to determine liquid anhydrous ammonia flow.

Excess Flow Valves for Flange Mounting in Container Service

Application

Designed for mounting in flanged tank connections with internal threads in the bottom of a container. They may be used in filling, withdrawal or vapor equalizing application. They provide high flow capacity with low pressure drop to minimize pump inlet line cavitation.

If a riser pipe to the vapor space is used with these excess flow valves, the minimum inside diameter of the riser pipe must be at least two times the valve thread size in order not to restrict flow to the side inlet ports.

Flange mounted excess flow valves are readily accessible for servicing and completely enclosed and protected in event of fire. Because there is no direct connection between external piping and the valve, stresses imposed on piping will not affect the excess flow valve.

A3500 Series and A4500 Series

Ordering Information

Item Number	Inlet Connection M. NPT	Approximate Closing Flows*		
		Liquid (GPM Propane)	Vapor SCFH (Propane)	
			25 PSIG Inlet	100 PSIG Inlet
A3500L4	2"	75	13,000	22,500
A3500N4	2"	125	25,000	42,500
A3500P4	2"	150	30,500	52,000
A3500R6	3"	150	32,100	55,500
A3500T6	3"	200	39,400	68,300
A3500V6	3"	250	51,100	88,700
A4500Y8	4"	500	89,000	154,000

* Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down.
NOTE: Multiply flow rate by .94 to determine liquid butane flow and by .90 to determine liquid anhydrous ammonia flow.

Excess Flow Valves for Liquid or Vapor Withdrawal

Application

These valves are designed for bottom mounting in consumer storage tanks for liquid service. They may also be top mounted for vapor service. These valves are designed especially for use with RegO® globe and angle valves.

2723C and A8013D Series

Ordering Information

Item Number	Inlet Connection M. NPT	Outlet Connection N. NPT	Approximate Closing Flows**		
			Liquid (GPM Propane)	Vapor SCFH (Propane)	
				25 PSIG Inlet	100 PSIG Inlet
A8013D	1-1/4"	3/4"	39	8,700	14,700
A8013DA	1-1/4"	1"	44	8,700	14,700
A8013DB	1-1/4"	1-1/4"	55	10,900	19,300
2723C	1-1/4"*	3/4"	20	3,900	6,900

* 3/4" F. NPT Dip Pipe Connection
** Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down.
NOTE: Multiply flow rate by .94 to determine liquid butane flow and by .90 to determine liquid anhydrous ammonia flow.

Chek-Lok® Excess Flow Valves

Application

Chek-Lok® Excess Flow Valves are designed to provide a convenient means of withdrawing liquid from stationary containers prior to moving the container. The Chek-Lok® permits one transfer shut-off valve with an adapter to be used interchangeably on a number of tanks.

The 7590U and 7591U Chek-Loks® are also designed for use on permanent installations provided the excess flow valve is sized properly for the system and piping. NOTE: In some cases, it may be necessary to use an in-line excess flow valve to protect the downstream piping.

This valve is not recommended for use as a liquid source for pumps.

7590U and 7591U Series

Ordering Information

Chek-Lok® Number	Inlet Connection	Outlet Connection	Approximate Closing Flow, Liquid GPM (Propane)*
7590U	3/4" M. NPT	1-5/8" UNF	20
7591U	1-1/4" M. NPT	1-5/8" UNF	35

* Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up, and slightly less when installed with outlet down.
Note: Multiply flow rate by .94 to determine liquid butane flow.

Union Style Adapters for 7590U and 7591U Valves

Application

The 7590U-10 adapter must be used to connect to the 7590U and 7591U Chek-Lok®. This insures a proper connection to open the check mechanism. A built in nylon gasket provides a gas tight seal.

7590U-10

Ordering Information

Adapter Number	Inlet Connection	Outlet Connection
7590U-10	1-5/8" UNF	3/4" F. NPT