

Excess Flow Valves for Liquid or Vapor Service

1519C Series

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.

Features

- Precision machined
- Generous flow channels provide low pressure drop.
- Cotter pin prevents loss of spring retainer due to vibration in service.
- Stainless steel spring provides consistent closing flow and long service life.

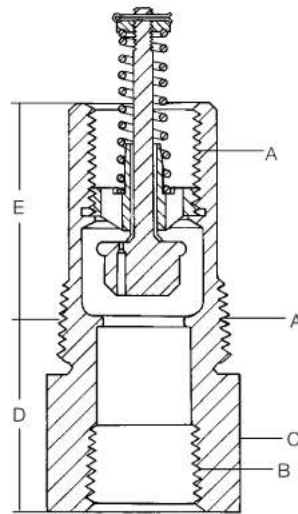
Materials

1519C2		
Body	Brass	
Valve Poppet w/Stem	Brass	
Spring	Stainless Steel	
Guide	Brass	

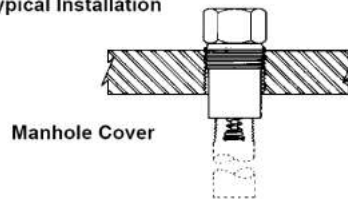
1519C4		
Body	Brass	
Valve Disc.....	Cadmium Plated Steel	
Stem	Stainless Steel	
Spring	Stainless Steel	
Guide.....	Ductile Iron	



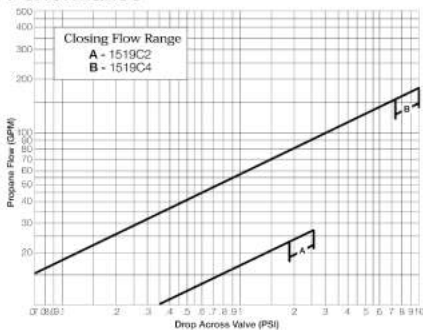
1519C2



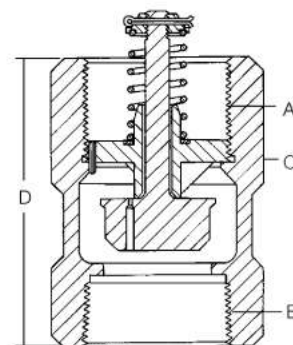
Typical Installation



Performance



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



1519C4



Typical Installation

Ordering Information

Part Number	A Inlet Connection NPT	B Outlet Connection F. NPT	C Wrench Hex Flats	D Effective Length (Approx.)	E Threaded End to Port	Filling Connection F. NPT	Approximate Closing Flows		
							Liquid (GPM) Propane)	Vapor SCFH (Propane)	
								25 PSIG Inlet	100 PSIG Inlet
1519C2	1½" Male*	1"	2¼"	2½"	2½"	1"	25	5,000	8,800
1519C4	2" Female	2"	3"	4½"	-	2"	170	28,590	48,600

* 1" Female 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.

Excess Flow Valves for Liquid or Vapor Line Service 1519A Series, 1519B Series and A1519 Series

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.

Features

- Precision machined.
- Generous flow channels provide low pressure drop.
- Cotter pin prevents loss of spring retainer due to vibration in service.
- Stainless steel spring provides consistent closing flow and long service life.

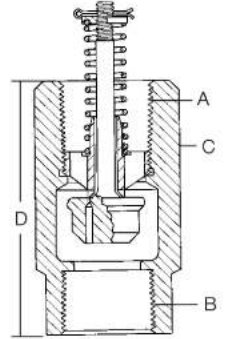
Materials

1519A Series and 1519B Series

Body Brass
 Valve Poppet w/Stem Brass
 Spring Stainless Steel
 Guide Brass

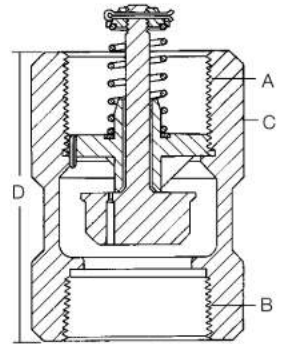


1519A2, 1519A3, 1519A4, 1519B4,
 A1519A2, A1519A4, A1519B4



A1519 Series

Body Cadmium Plated Steel
 Valve Disc Cadmium Plated Steel
 Stem Stainless Steel
 Spring Stainless Steel
 Guide Ductile Iron

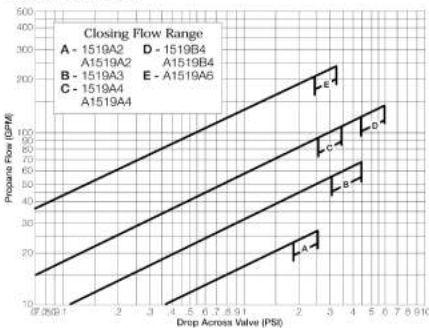


A1519A6



Typical Installation

Performance



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

Ordering Information

Part Number	Brass or Steel	A Inlet Connection NPT	B Outlet Connection F. NPT	C Wrench Hex Flats	D Effective Length (Approx)	Approximate Closing Flows*		
						Liquid (GPM Propane)	Vapor SCFH (Propane)	
							25 PSIG Inlet	100 PSIG Inlet
1519A2	Brass	1"	1"	1 3/4"	3 1/16"	25	5,000	8,800
A1519A2	Steel							
1519A3	Brass	1 1/2"	1 1/2"	2 1/4"	4"	60	11,500	20,200
A1519A4								
A1519A4	Steel	2"	2"	3"	4 9/16"	100	19,000	34,500
1519B4	Brass							
A1519B4	Steel	3"	3"	4"	6 1/2"	133	27,700	50,300
A1519A6								

* 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.

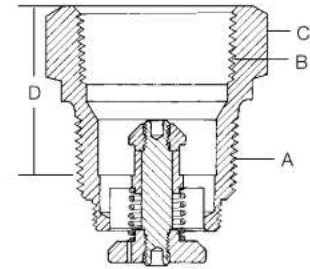
Excess Flow Valves for Liquid or Vapor 3272 Series, 3282 Series, 3292 Series, A3272 Series, A3282 Series, A3292 Series, 7574 and 12472

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.

Features

- Precision machined.
- Generous flow channels provide low pressure drop.
- Stainless steel spring provides consistent closing flow and long service life.



Materials

Series 3272, 3282, 3292, 7574, 12472

Body	Brass
Seat Disc	Brass
Stem	Brass
Spring	Stainless Steel
Guide (12472 ONLY)	Plastic

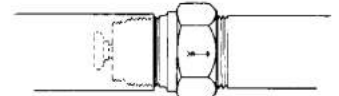
Series A3272, A3282, A3292

Body	Cadmium Plated Steel
Seat Disc	Cadmium Plated Steel
Stem	Cadmium Plated Steel
Spring	Stainless Steel

Typical Installation

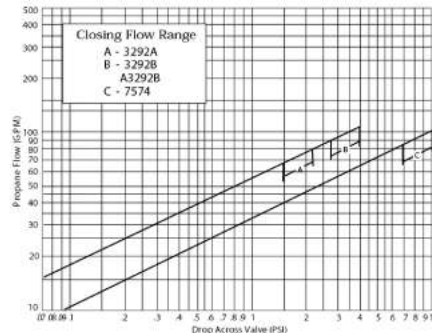
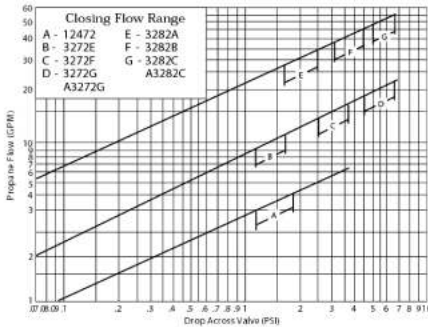


Container Service



Pipe Line Service

Performance



Ordering Information

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

Part Number	Brass or Steel	A Inlet Connection (M. NPT)	B Outlet Connection (F. NPT)	C Wrench Hex Flats	D Effective Length (Approx.)	Approximate Closing Flow*					
						Liquid (GPM Propane)	Vapor SCFH (Propane)				
							25 PSIG Inlet	100 PSIG Inlet			
12472	Brass	3/4"	3/4"	1 3/8"	1 3/8"	4	1,050	1,700			
3272E						10	2,100	3,700			
3272F						15	2,800	5,000			
3272G						20	3,700	6,900			
A3272G	Steel										
3282A	Brass	1 1/4"	1 1/4"	2"	1 15/16"	30	5,850	10,000			
3282B						40	7,600	13,600			
3282C						50	9,000	16,300			
A3282C	Steel										
7574	Brass	1 1/2"	1 1/2"	2 1/4"	1 3/4"	90	15,200	28,100			
7574L						70	14,000	25,000			
3292A						75	14,200	24,800			
A3292A	Steel										
3292B	Brass	2"	2"	2 7/8"	1 7/8"	100	18,100	32,700			
A3292B	Steel										
A3292C	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.

Excess Flow Valves for Container Service

A7537 Series, A7539 Series, A8523 and A8525

Application

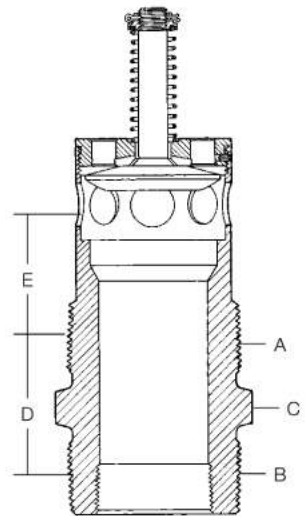
Designed for mounting in threaded full or half couplings in container installations. They may be used for filling, withdrawal or vapor equalizing applications. The exceptionally low pressure drop makes them ideal for pump suction lines. If a riser pipe to the vapor space is used with these valves, the 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.

Features

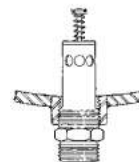
- Precision machined.
- Generous flow channels provide low pressure drop minimizing cavitation in pump suction lines.
- Cotter pin prevents loss of spring retainer due to vibration in service.
- Stainless steel spring provides consistent closing flow and long service life.
- Separate models for installation in either half or full couplings.

Materials

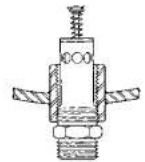
Body	Cadmium Plated Steel
Body (A7539 Series Only)	Ductile Iron
Seat Disc	Cadmium Plated Steel
Stem	Stainless Steel
Spring	Stainless Steel
Guide	Cadmium Plated Steel



Typical Installation

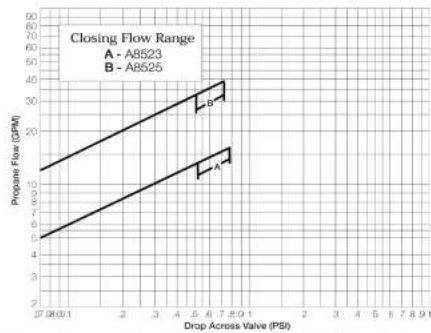
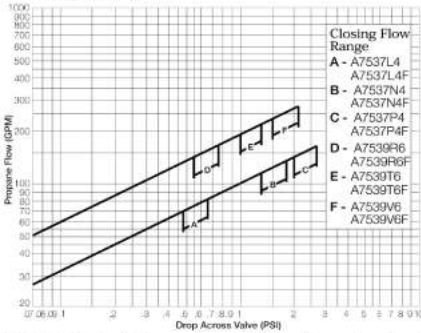


Half Coupling



Full Coupling

Performance



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

Ordering Information

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

* 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.

F12

Address: Unit 11, 11/F, Tower One, Ever Gain Plaza, 88 Container Port Road, Kwai Chung, NT, Hong Kong
 Website: www.dmc-gas.com Email: dmcsaleshk@dmc-gas.com.hk
 Tel: +852 2851 2121 Fax: +852 2851 2129

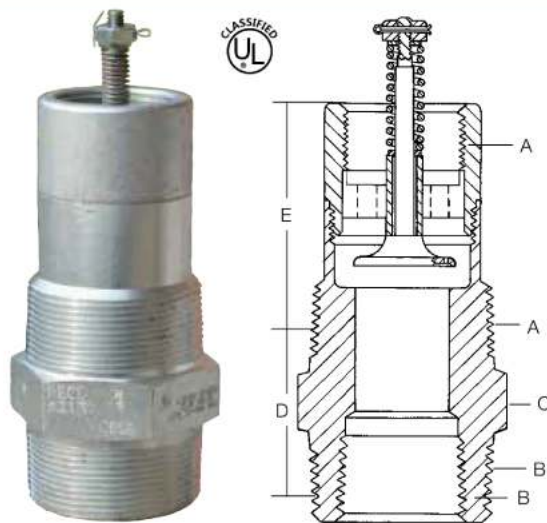
Excess Flow Valves for Vapor or Liquid A2137 Series and 2139 Series

Application

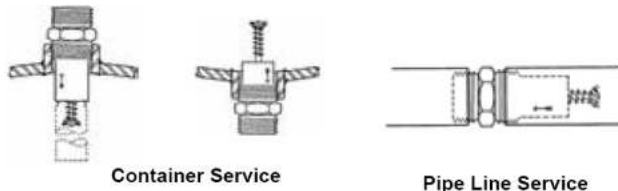
Designed especially for filling, withdrawing or vapor equalizing in half and full coupling installations. Ideal for container service where welded-in dip pipes are not provided. For vapor use, mount in the bottom opening with a threaded dip pipe. For liquid use, mount in the top opening with a threaded 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.

Features

- Precision machined.
- Cotter pin helps prevents loss of spring retainer due to vibration in service.
- Stainless steel spring provides consistent closing flow and long service life.
- Generous flow channels provide low pressure drop.



Typical Installations



Materials

A2137 Series

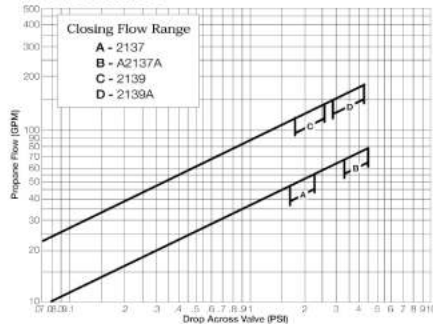
Body	Cadmium Plated Steel
Disc	Cadmium Plated Steel
Stem	Stainless Steel
Spring	Stainless Steel
Guide	Cadmium Plated Steel

2139 Series

Body	Brass
Disc	Brass
Stem	Stainless Steel
Spring	Stainless Steel
Guide	Brass



Performance



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

Ordering Information

Part Number	A Inlet Connection NPT	B Outlet Connection F. NPT	C Wrench Hex Flats	D Effective Length (Approx.)	Approximate Closing Flows***		
					Liquid (GPM Propane)	Vapor SCFH (Propane)	
						25 PSIG Inlet	100 PSIG Inlet
A2137	2"	2" Male and 1 1/4" Female	2 7/16"	1 1/16"	50	10,000	17,000
A2137A					70	14,000	25,000
2139	3"	3" Male and 2" Female	3 1/2"	1 1/16"	125	26,500	46,000
2139A					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.

Excess Flow Valves for Flange Mounting in Container Service A3500 Series and A4500 Series

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.

Features

- Precision machined.
- Generous flow channels provide low pressure drop minimizing cavitation in pump suction lines.
- Cotter pin prevents loss of spring retainer due to vibration in service.
- Stainless steel spring provides consistent closing flow and long service life.

Materials

Body Cadmium Plated Steel
 Seat Disc Cadmium Plated Steel
 Stem Stainless Steel
 Spring Stainless Steel
 Guide Cadmium Plated Steel

Flanged Installation In Container

NOTE: The opening in the tank flange should be machined with a ¼"-45° chamfer at the outer edge. The thread should be tapped one or two turns large as checked by a plug gauge. This and the undersize thread on the valve should permit the valve to be installed so that its outer face is at least flush with the outer edge of the flange.

The valve is screwed into this opening by fitting a ¼" flat metal piece into the slot and turning until hand tight. A lubricant may be used, but a luting compound is not necessary since this joint does not have to be gas tight.

If any difficulty is experienced in "making up" the valve to fit flush, as indicated, the thread in the tank flange can be tapped.

Design and construction of tank and flange must be in accordance with the appropriate section of the ASME Pressure Vessel Code.

Ordering Information

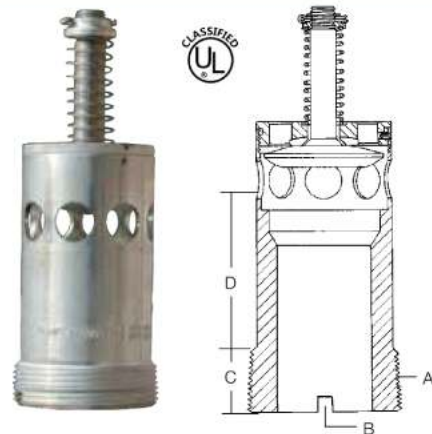
Part Number	A Inlet Connection NPT	B For Installation	C Effective Thread (Approx.)	D Threaded End To Port	Approximate Closing Flows*		
					Liquid (GPM Propane)	Vapor SCFH (Propane)	
						25 PSIG Inlet	100 PSIG Inlet
A3500L4	2"	Slotted Body	¾"	1½"	75	13,000	22,500
A3500N4					125	25,000	42,500
A3500P4					150	30,500	52,000
A3500R6	3"		1"	1½"	150	32,100	55,500
A3500T6					200	39,400	68,300
A3500V6					250	51,100	88,700
A4500Y8	4"		1½"	1½"	500	89,000	154,000

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

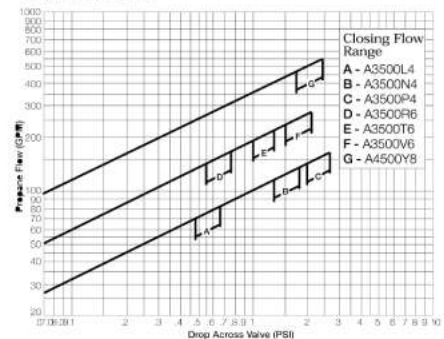
* Based on horizontal installation of excess flow valve. Flows are slightly more when valves are installed with outlet up; slightly less when installed with outlet down.

F14

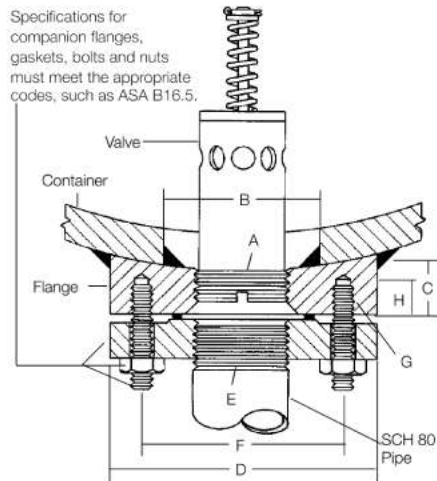
Address: Unit 11, 11/F, Tower One, Ever Gain Plaza, 88 Container Port Road, Kwai Chung, NT, Hong Kong
 Website: www.dmc-gas.com Email: dmcsaleshk@dmc-gas.com.hk
 Tel: +852 2851 2121 Fax: +852 2851 2129



Performance



Specifications for companion flanges, gaskets, bolts and nuts must meet the appropriate codes, such as ASA B16.5.



Key No.	Description	A3400L4, A3500L4, A3500N4, A3500P4	A3400L6, A3500R6, A3500T6, A3500V6	A4500Y8
		A	Valve Size (NPT)	2"
B	Tank Opening	3½"	4½"	5½"
C	Thickness (min.)	1"	1¼"	1½"
D	Outside Diameter	6½"	8¼"	10"
E	Pipe Thread (NPT)	2"	3"	4"
F	Bolt Circle Dia.	5"	6½"	7½"
	Number of Bolt Holes	8	8	8
G	Bolt Hole Thread	¾" - 11 NC - 2	¾" - 10 NC - 2	¾" - 10 NC - 2
H	Bolt Hole Thread (min. eff.)	¾"	1"	1½"

Excess Flow Valves for Liquid or Vapor Withdrawal

2723C and A8013D Series

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.

Features

- 2723C provides a 3/4" dip pipe inlet connection for top-mounted liquid or bottom-mounted vapor requirements.
- A8013D Series features a 2-position floating valve disc for faster, more efficient container filing.
- Precision machined.
- Stainless steel spring provides consistent closing flow and long service life.
- Generous flow channels provide low pressure drop.

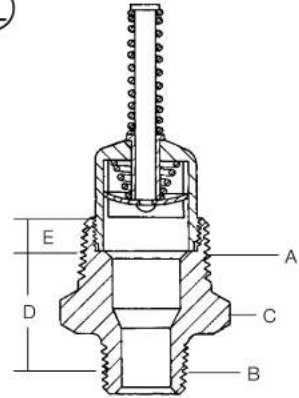
Materials

A8013D Series

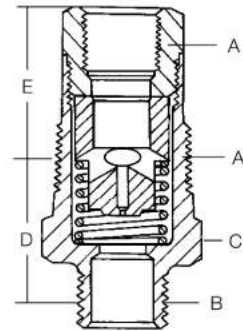
Body	Cadmium Plated Steel
Disc	Stainless Steel
Stem	Stainless Steel
Spring	Stainless Steel
Guide	Cadmium Plated Steel
Insert	Stainless Steel

2723C

Body	Brass
Valve Poppet	Brass
Retainer	Brass
Spring	Stainless Steel

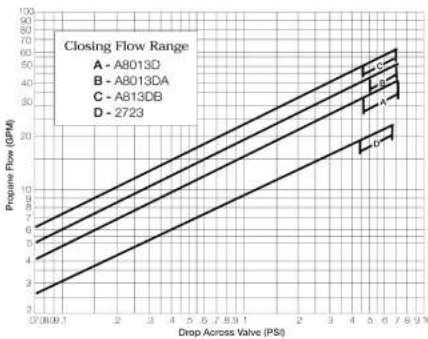


A8013D



2723C

Performance



Ordering Information

Part Number	A. Inlet Connection M. NPT	B. Outlet Connection NPT	C. Wrench Hex Flats	D. Effective Length (Approx.)	E. Threaded End To Port	Approximate Closing Flow**		
						Liquid (GPM Propane)	Vapor SCFH (Propane)	
							25 PSIG Inlet	100 PSIG Inlet
A8013D	1 1/4"	3/4"	1 1/8"	3/8"	-	39	8,700	14,700
A8013DA		1"		2 1/2"		44		
A8013DB		1 1/4"		1 1/8"		55		
2723C	1 1/4"	3/4"	1 1/16"	1 1/4"	3 3/16"	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.

Excess Flow Valve for Pressure Gauges 2884D

Application

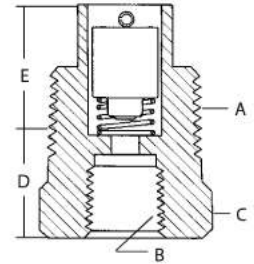
Designed for container use in pressure gauge installations to minimize excess gas discharge in the event the pressure gauge is sheared. A suitable shut-off valve should be installed between this valve and the pressure gauge to allow convenient gauge replacement.

Features

- Precision machined.
- Suitable for use with all 1/4" M.NPT pressure gauges.

Materials

Body Brass
 Valve Brass
 Spring Stainless Steel
 Pin Stainless Steel



2884D



Ordering Information

Part Number	A. Inlet Connection M. NPT	B. Outlet Connection F. NPT	C. Wrench Hex Flats	D. Effective Length (Approx.)	E. Threaded End To Port	Approximate Closing Flow*		
						Liquid (GPM Propane)	Vapor SCFH (Propane)	
						25 PSIG Inlet	100 PSIG Inlet	
2884D	3/4"	1/4"	1 1/8"	1 1/4"	1 1/8"	N/A	60	110

* 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 Valve for DOT Cylinders 3199W

Application

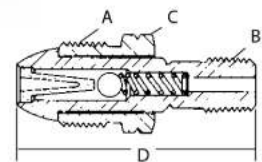
Designed for use on portable systems with vapor or liquid including torches, heaters, lead melting burners, tar and asphalt burners, wallpaper steamers and other applications involving portable DOT cylinders. The POL inlet attaches directly to the cylinder valve and the outlet mounts to the regulator.

Features

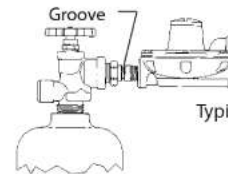
- Integral ball check design.
- Machined groove designed to break-off and allow excess flow valve ball to close.

Materials

Body Brass
 Nut Brass
 Bell Stainless Steel
 Spring Stainless Steel
 Retainer Spring Stainless Steel
 Retainer Brass



3199W



Typical Installation



NOTE:

No protection is afforded should break-off occur downstream of the groove. Also, restrictions introduced by the regulator may prevent closing of the valve due to limited flow capacity. The valve's purpose is to protect the cylinder valve outlet should the regulator be broken off of its connection (at the groove), in which case it will close. It must not be depended upon to protect against breaks downstream of the regulator.

Ordering Information

Part Number	A. Inlet Connection	B. Outlet Connection	C. Wrench Hex Flats	D. Effective Length (Approx.)	Approximate Closing Flow*		
					Liquid (GPM Propane)	Vapor SCFH (Propane)	
					25 PSIG Inlet	100 PSIG Inlet	
3199W	Male POL	1/4"	7/8"	1 1/8"	.95	265	500

* 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.