

High Capacity NH3 Liquid Withdrawal Valve A8012D

Application

The A8012D is designed especially for use as a high capacity liquid withdrawal valve on Anhydrous Ammonia nurse tanks or risers.

This valve incorporates an integral excess flow valve; when the valve is in operation the handwheel must be completely open and back-seated to allow the excess flow valve to function properly as explained in the excess flow section of our L-500 and L-102 catalogs.

Features

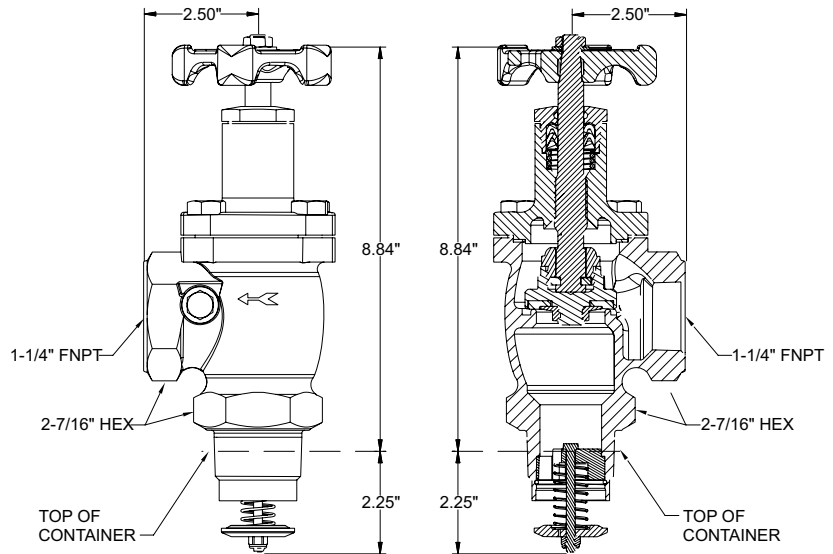
- Excess flow valve designed for high flow and low pressure drop.
- Excess flow seat fully contained in the container coupling for maximum protection in the event of external damage to the valve.
- Resilient disc assembly with swivel seat is fully contained for bubble-tight shut-off and long service life.
- "V"-ring spring loaded stem seal design requires no field adjustment.
- 1/4" F-NPT port that accommodates a vent valve or hydrostatic relief valve.
- UL Listed for Anhydrous Ammonia.

Materials

Body	Ductile Iron
Bonnet	Ductile Iron
Stem	Stainless Steel
Seat Disc	Nitrile
"V"-Rings	Teflon
Excess Flow Valve	Stainless Steel
Springs	Stainless Steel



A8012D



Ordering Information

Part Number	Inlet Connection	Outlet Connection	Approximate Closing Flow GPM	Accessories for NH3 Use	
				Hydrostatic Relief Valve	Vent Valve
A8012D	1 1/2" M-NPT	1 1/4" F-NPT	72 GPM NH3	SS8001J	TSS3169
A8012C			45 GPM NH3		

Multipurpose Valves for Liquid Withdrawal of NH3 Containers

A8017D & A8020D

Application

Designed especially for use as a high capacity liquid withdrawal valve on anhydrous ammonia containers.

These valves incorporate an integral excess flow valve. When product is required, the valve must be completely open and backseated to allow the excess flow valve to function properly as explained in the excess flow valve section of this catalog.

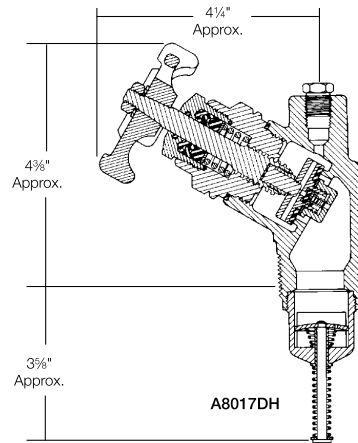
The A8017DH is equipped with a soft seated automatic differential back pressure check valve in the seat disc assembly. This allows any pressure build up in the liquid transfer line in excess of 10-15 psig above the container pressure to flow back into the container. The transfer hose is protected against excessive liquid or vapor pressure entrapment, which adds materially to the useful life of flexible hose. In addition to increasing hose service life, the equalizing valve adds substantially to the operating safety of liquid transfer systems.

Features

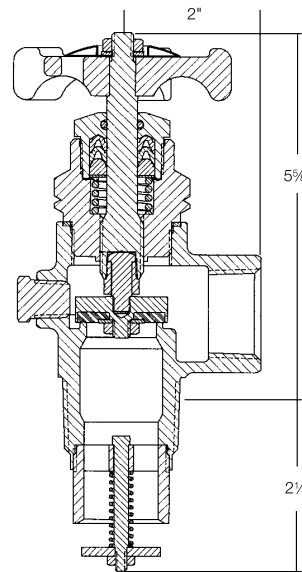
- Positive-acting excess flow valve opens for maximum flow at minimum pressure drop when filling — regardless of the type of coupling in which the valve is installed.
- Excess flow seat is fully contained in the tank coupling for maximum protection in the event of external damage to the valve.
- Resilient seat disc assembly is fully contained on three sides for bubble-tight shut-off and long service life.
- "V"-ring spring loaded stem seal design requires no repacking or field adjustment.
- A8017DH has two plugged 1/4" NPT ports, one on the top and the other on the side, accommodate either a vent valve or hydrostatic relief valve.
- A8020D has a plugged 1/4" NPT port that accommodates vent valve, hydrostatic relief valve, or pressure gauge.
- A8017DH incorporates an automatic back check valve built into the shut-off valve, eliminating the need for a separate hydrostatic relief valve.

Materials

Body	Ductile Iron
Bonnet	Steel
Stem	Stainless Steel
Seat Disc	Resilient Synthetic Rubber
"V"-Rings	Teflon
Excess Flow Valve.....	Stainless Steel - Steel Body
Springs	Stainless Steel



A8017DP



A8020D



Ordering Information

Part Number	Inlet Connection (M. NPT)	Outlet Connection (F. NPT)	Approximate Excess Flow Liquid Closing Flow** (GPM/NH3)	Accessories	
				Hydrostatic Relief Valve	Vent Valve
A8017DH*	1 1/4"	1"	44.1	Not Required	TSS3169
A8017DP			49.5	SS8001J	
A8017DLP		3/4"	41.1		
A8020D	1 1/4"	1"	70.2	SS8001J	TSS3169

* Built-in back pressure check valve incorporated into shut-off valve.