

Trailer/Tank Mounted Air Relief Valves

Dry Bulk Products

Vacuum Relief Valves

Application:	Designed specifically for use on trailer tanks containing dry bulk products. If a system blockage were to occur the valves are designed to open to atmosphere to help prevent the tank from imploding.
Standards:	These valves come with a set vacuum tolerance of +/-0.5 HG, available in 3 body sizes: <ul style="list-style-type: none"> • 1½" male NPT outlet (tank connection) x 1½" female NPT inlet (atmosphere) • 2" male NPT outlet (atmosphere) x 2" female NPT inlet (tank connection) • 3" female NPT outlet (tank connection) x 3" female NPT inlet (atmosphere)
Materials:	Bayloy body and bronze poppet
Features & Benefits:	<ul style="list-style-type: none"> • Available with a variety of vacuum settings, see chart below for model specific available pressure settings. Customer should request set pressure at time of order. • Relieving capacity (SCFM) varies deponent upon model and pressure setting. See graph on page 7, or for specific relief rates please refer to our website or contact Dixon®. • Installed bolt seal deters tampering • Bayloy body helps prevent thread galling



1120



2120



3120

Valve Series	Valve Outlet (Tank Connection)	Valve Inlet (Atmosphere)	Available Factory Set Vacuum Range (HG) ¹	Set Pressure Tolerance (PSI)	Relieving Capacity (SCFM) ²
1120/xx	1½" male NPT outlet (tank connection)	1½" male NPT inlet (atmosphere)	6 to 24	+/- 0.5 HG	175 to 420
2120/xx	2" male NPT outlet (tank connection)	2" male NPT inlet (atmosphere)	5 to 24	+/- 0.5 HG	280 to 600
3120/xx	3" female NPT outlet (tank connection)	3" female NPT inlet (atmosphere)	11 to 25	+/- 0.5 HG	700 to 1350
3120ADJ/XX	3" adjustable vacuum valve		14 to 22	0	700-1350

¹ Request the required pressure setting when ordering (xx refers to choice of pressure setting)

² Relieving capacity (SCFM) varies with set pressure, for specific rates please refer to our website or contact Dixon®

Air Relief Valve Settings

Pressure Relief Valves Minimum and Maximum Settings

Valve Series	Factory Setting	
	Min. Setting (PSI)	Max. Setting (PSI)
2180	2	25
A2180ADJ ³	9 ³	30 ³
2182	3	24
A2182	6	27
3180	4	30
A3180ADJ ³	9 ³	30 ³

Vacuum Relief Valves Minimum and Maximum Settings

Valve Series	Factory Setting	
	Minimum Setting	Maximum Setting
1120	5" Hg	25" Hg
2120	5" Hg	24" Hg
3120	11" Hg	25" Hg

³ Customer adjustable by a further +/- **3 PSI**. Settings below **9 PSI** are obtainable by turning the valve adjustment screw.

• Example for an **8 PSI** setting the valve adjustment would be +4/-2, for **7 PSI** +5/-1 and for **6 PSI** +6/-0.

• Settings above **30 PSI** are obtainable by turning the valve adjustment screw. Example for a **31 PSI** setting the valve adjustment would be +2/-4, for **32 PSI** +1/-5 and for **33 PSI** +0/-6.