

Application

Pressure vessels are used in dense phase pneumatic conveying applications and suitable for premixed materials, materials with high bulk density and products that are highly abrasive, friable, or tend to segregate. They are designed for high capacity conveying rates and long distances in purged (clear line) and non-purged (full-line) systems.

Design

The Coperion K-Tron dense phase pressure vessels are of robust design. They are available in either carbon steel (painted) or stainless steel construction. The inlet and vent valves are the only moving parts on the entire assembly. Each vessel is constructed to ASME or PED/CE standards, depending on location of the project.

Pressure vessel comes completely assembled, factory tested and includes:

- Flanged inlet and vent adapter
- Inlet and vent valves with pneumatic actuator and proof switches IP66
- Compressed air inlet fitting
- Pressure relief valve
- Pressure transmitter
- Material high level probe IP66
- Material low level probe IP66 for non-purge models only
- Integral aeration in the 60° vessel cone
- Access/inspection port
- Three support legs
- Couplings and assembly hardware



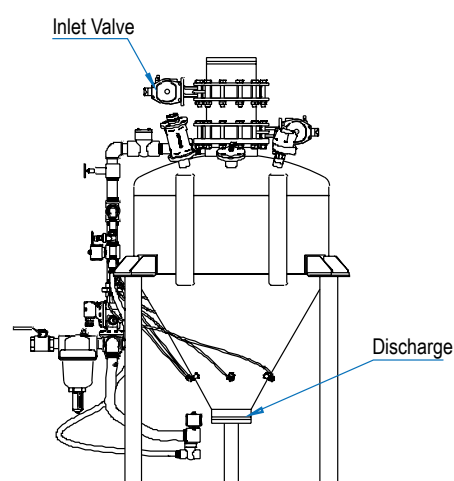
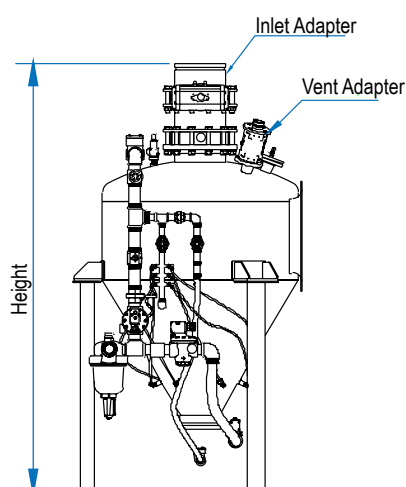
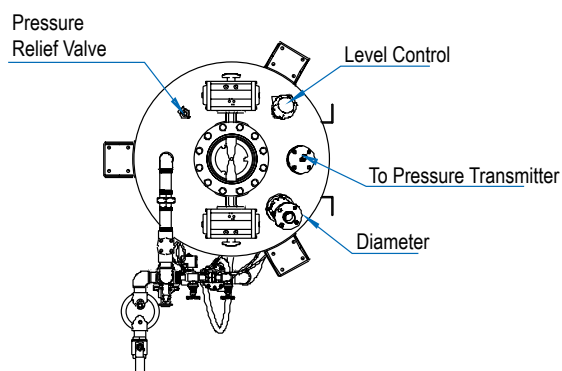
Technical Data

Standard Features

- Available in painted RAL 7035 gray carbon steel or DIN 1.4301 (AISI 304) stainless steel construction
- Carbon steel units are designed for 6.9 bar(g) [100 psi(g)] at 104°C [220°F]
- Stainless steel units are designed for 6.9 bar(g) [100 psi(g)] at 104°C [220°F]

Options

- Hygienic design
- DIN 1.4404, 1.4435 (AISI 316L) stainless steel construction
- Quick disconnect cabling for all instrumentation
- NEMA 7/9 or ATEX versions available upon request
- Aeration pads
- Various inlet valve types and sizes
- Various vent valve types and sizes
- Load cells
- Outlet valve
- High temperature



Holding Capacity dm ³ [ft ³]	Height mm [in]	Diameter mm [in]	Nominal Inlet mm [in] Pipe	Nominal Vent Size mm [in] Pipe	Nominal Discharge mm [in] Pipe	Weight kg [lb]
28 [1]	1422 [56]	457 [18]	152 [6]	51 [2]	76 [3]	132 [291]
71 [2.5]	1651 [65]	457 [18]	152 [6]	51 [2]	152 [6]	152 [334]
142 [5]	1803 [71]	610 [24]	152 [6]	51 [2]	152 [6]	180 [396]
283 [10]	2134 [84]	762 [30]	203 [8]	51 [2]	152 [6]	264 [581]
425 [15]	2489 [94]	914 [36]	254 [10]	51 [2]	203 [8]	440 [971]
708 [25]	2362 [93]	1067 [42]	254 [10]	51 [2]	203 [8]	572 [1262]
1416 [50]	3251 [128]	1219 [48]	254 [10]	51 [2]	203 [8]	905 [1995]
2124 [75]	3454 [136]	1524 [60]	254 [10]	51 [2]	203 [8]	1155 [2547]
2832 [100]	3632 [143]	1829 [72]	254 [10]	51 [2]	203 [8]	1812 [3995]

Note: all pipes are schedule 40 wall thickness