

CD Pump

Pneumatic Conveying

The pneumatic conveying process, enclosed and dustfree, ensures material transfer complies with stringent COSHH and other international regulations for industry and is less harmful to the environment than traditional mechanical methods.

The Unique Clyde Dome Valve

Central to the operating efficiency of all Clyde Materials Handling systems, or as a stand alone cut-off valve, the Clyde Dome Valve incorporates a unique and highly reliable inflatable sealing arrangement.

DensPhase Technology

The DensPhase system capitalises on all the assets of pneumatic conveying: simplicity, reliability and flexibility. Ensuring minimal breakage of friable products, the extensive range of DensPhase machines shares standard components, individually tailored to handle specific requirements of a wide range of materials.

DensPhase CD Pump

The DensPhase system is a simple, effective and highly reliable method of conveying material from a single collection point to either single or multiple reception hoppers. Developed in the 1970's, DensPhase' are capable of operating at temperatures up to 480°C with throughput rates of up to 100 t/hr and distances up to 200 metres. The inherent simplicity of the Clyde Dome Valve ensures system reliability and low maintenance operation. The CD Pump is designed to minimise material degradation by using increased pipeline sizes enabling CD Pump Convey lower transfer velocities with the reduction of product damage and pipeline wear and is particularly suitable for conveying fine, cohesive, fluidisable and delicate products.

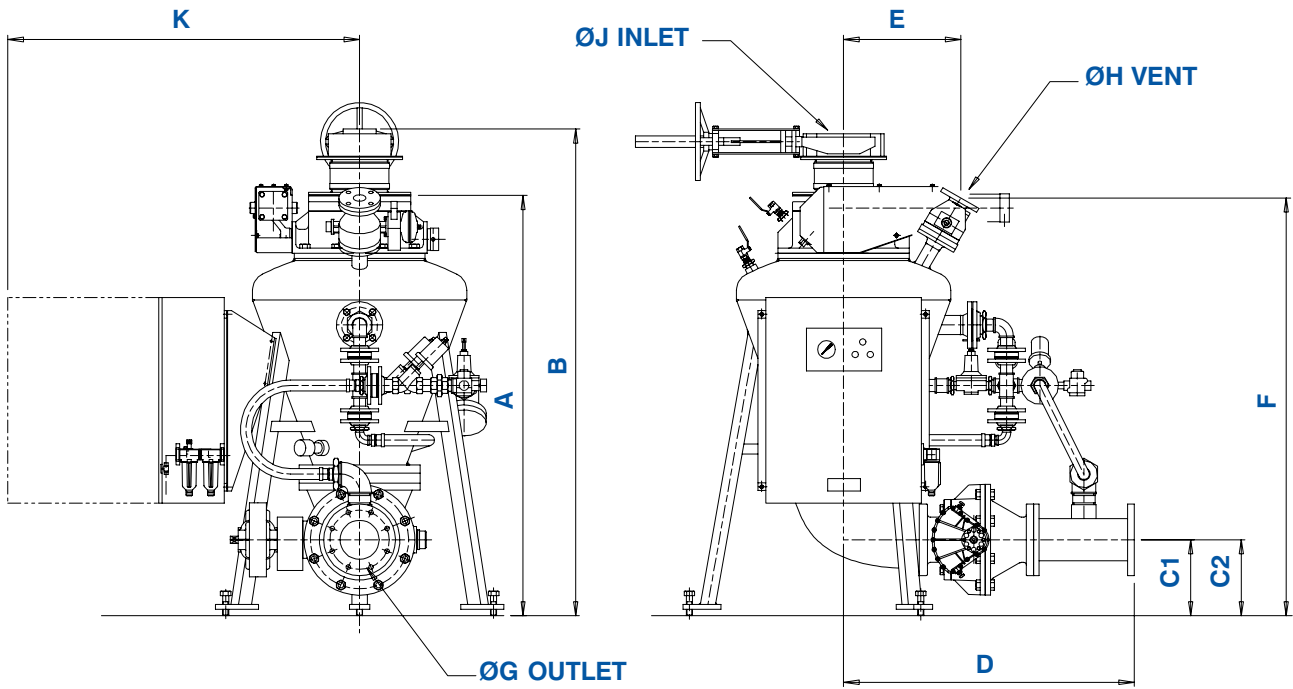


Standard Fabrication

DensPhase CD Pump vessel assemblies supplied complete with inlet & outlet Dome Valves, electropneumatic controls and air supply piping, strainer, pressure regulation and control equipment pre-piped and pre-wired ready for connection to isolated air and electric supplies.

- Vessels are manufactured to BS5500 Category 3 for a working pressure of 7 barg standard. Other specifications and pressures available.
- Vessels are free standing, special foundations are not required.
- Optional isolating valve and adapter are shown for reference only.
- Final working dimensions to be confirmed by certified drawings.





Note:

- 1 OBCR : Outlet Bend Cleaning Ring
- 2 ABS : Air Blend Spool

| Dimensions - (mm) | | | | | | | | | | | |
|-------------------|-----------|-----------|-----------|-----|------|-----|------|------------|--------|----------|------|
| Model | A w/ OBCR | B no OBCR | C1 w/ ABS | C2 | D | E | F | ØG | ØH | ØJ | K |
| 2/4/2 | 919 | 1139 | 158 | 191 | 587 | 338 | 993 | 50PN10 | ¾" BSP | 100PN10 | 950 |
| 2/8/2 | 971 | 1216 | 158 | 191 | 587 | 354 | 1002 | 50 PN10 | ¾" BSP | 200 PN10 | 1041 |
| 3/4/3 | 1043 | 1263 | 175 | 218 | 747 | 312 | 1131 | 80PN10 | ¾" BSP | 100 PN10 | 1060 |
| 3/8/3 | 1083 | 1328 | 175 | 218 | 747 | 451 | 1211 | 80PN10 | 50PN10 | 200 PN10 | 1065 |
| 4/4/4 | 1338 | 1558 | 190 | 233 | 917 | 483 | 1318 | 100 PN1050 | PN10 | 100 PN10 | 1080 |
| 4/8/4 | 1374 | 1619 | 190 | 233 | 917 | 483 | 1310 | 100 PN1050 | PN10 | 200 PN10 | 1166 |
| 4/12/4 | 1409 | 1679 | 190 | 233 | 917 | 503 | 1446 | 100PN1050 | PN10 | 300 PN10 | 1125 |
| 8/8/5 | 1597 | 1842 | 202 | 245 | 1159 | 455 | 1571 | 125PN1050 | PN10 | 200PN10 | 1140 |
| 8/12/5 | 1682 | 1952 | 202 | 245 | 1159 | 560 | 1723 | 125 PN1050 | PN10 | 300PN10 | 1190 |
| 12/8/6 | 1828 | 2073 | 218 | 261 | 1159 | 457 | 1804 | 150 PN1050 | PN10 | 200PN10 | 1235 |
| 12/12/6 | 1902 | 2172 | 218 | 261 | 1159 | 595 | 1753 | 150 PN1050 | PN10 | 300PN10 | 1195 |
| 16/12/7 | 2049 | 2319 | 233 | 284 | 1208 | 560 | 1974 | 175 PN1050 | PN10 | 300PN10 | 1290 |
| 20/12/8 | 2179 | 2449 | 247 | 298 | 1308 | 669 | 2084 | 200 PN1080 | PN10 | 300PN10 | 1390 |
| 30/12/10 | | | | | | | | | | | |
| 50/12/12 | | | | | | | | | | | |

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