

CD Dense Phase Pump for pneumatic conveying systems



Typical applications for CD Dense Phase Pump include:

- Gypsum industry for the transfer of pre-calcined materials, plaster and finished product
- Cement industry for the transfer of fly ash and cement
- Non-ferrous industries for the transfer of dried concentrate

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 original Dome Valve®

Central to the operating efficiency of all Schenck Process pneumatic conveying systems, or as a stand alone valve is the original Dome Valve® which incorporates a unique and highly reliable inflatable sealing arrangement. The original Dome Valve® was developed by Clyde Materials Handling* in 1974 for use with pneumatic conveying systems and as a stand alone product.

Dense Phase Conveying 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.

CD Pump

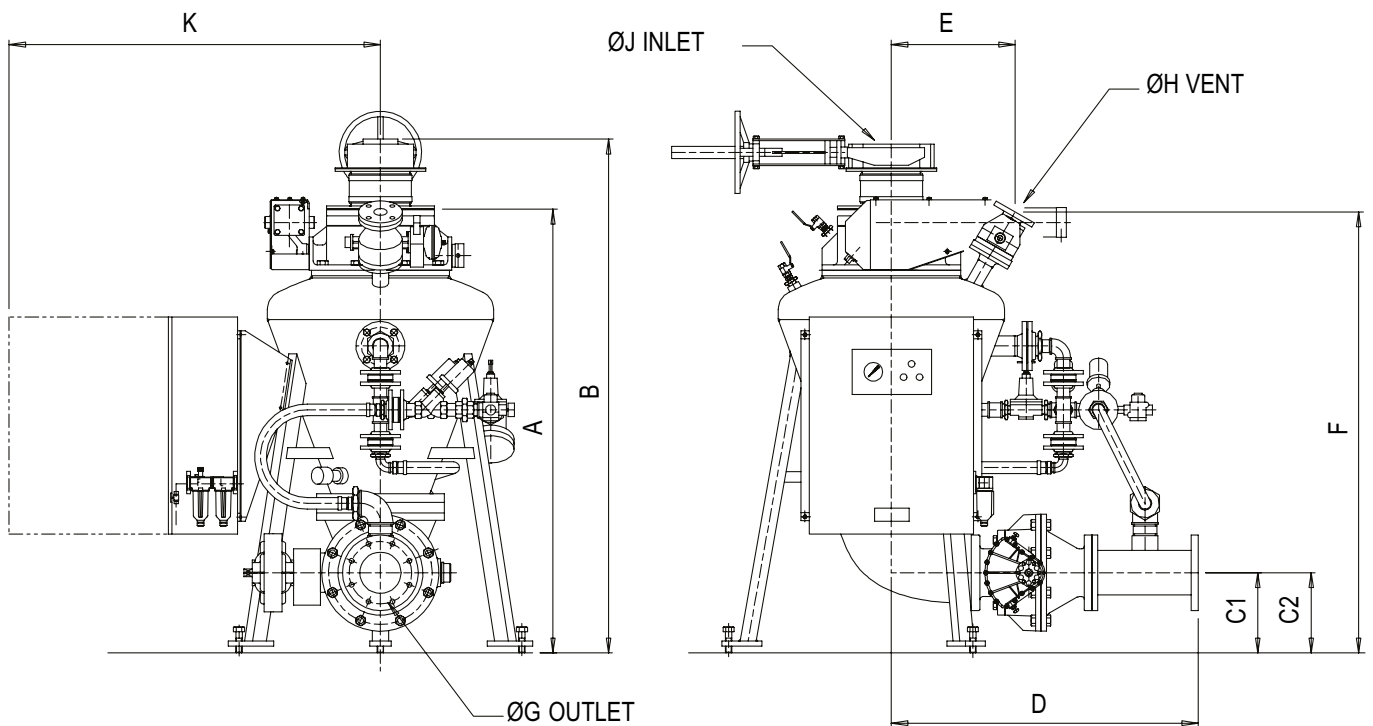
The DensPhase system is a simple, effective and highly reliable method of conveying material from a single collection point to either single or multiple reception hoppers. Developed in the 1970's, DensPhase' are capable of operating at temperatures up to 480°C with throughput rates of up to 100 t/hr and distances up to 200 metres.

The inherent simplicity of the Schenck Process Dome Valve® ensures system reliability and low maintenance operation. The CD Pump is designed to minimise material degradation by using increased pipeline sizes enabling 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

Product Range

CD Pumps

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	50PN10	¾" BSP	200PN10	1041
3/4/3	1043	1263	175	218	747	312	1131	80PN10	¾" BSP	100PN10	1060
3/8/3	1083	1328	175	218	747	451	1211	80PN10	50PN10	200PN10	1065
4/4/4	1338	1558	190	233	917	483	1318	100PN10	50PN10	100PN10	1080
4/8/4	1374	1619	190	233	917	483	1310	100PN10	50PN10	200PN10	1166
4/12/4	1409	1679	190	233	917	503	1446	100PN10	50PN10	300PN10	1125
8/8/5	1597	1842	202	245	1159	455	1571	125PN10	50PN10	200PN10	1140
8/12/5	1682	1952	202	245	1159	560	1723	125PN10	50PN10	300PN10	1190
12/8/6	1828	2073	218	261	1159	457	1804	150PN10	50PN10	200PN10	1235
12/12/6	1902	2172	218	261	1159	595	1753	150PN10	50PN10	300PN10	1195
16/12/7	2049	2319	233	284	1208	560	1974	175PN10	50PN10	300PN10	1290
20/12/8	2179	2449	247	298	1308	669	2084	200PN10	80PN10	300PN10	1390
30/12/10											
50/12/12											

Custom applications available on request

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