

# PD Pump

## DensPhase 2

### **Pneumatic Conveying**

The pneumatic conveying process, enclosed and dust-free, 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.

### **Clyde PD 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.

The DensPhase PD Pump is a batch transfer vessel, similar in concept to the standard DensPhase Pump, with additional capabilities.

Developed for maximum economy, the system utilises small bore pipelines operating at low conveying pressures, with reduced air flow and power consumption.

Highly efficient conveying allows rates of up to 75 t/hr over conveying distances of 500 metres or more, making this system particularly suitable for transfer of dry, fluidisable materials.

### **Standard Fabrication**

DensPhase vessel assemblies supplied complete with Dome Valve, electro-pneumatic 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 can be manufactured to most international pressure vessel codes and for a working pressure of 7 barg standard. Specific details are available on request.
- 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.

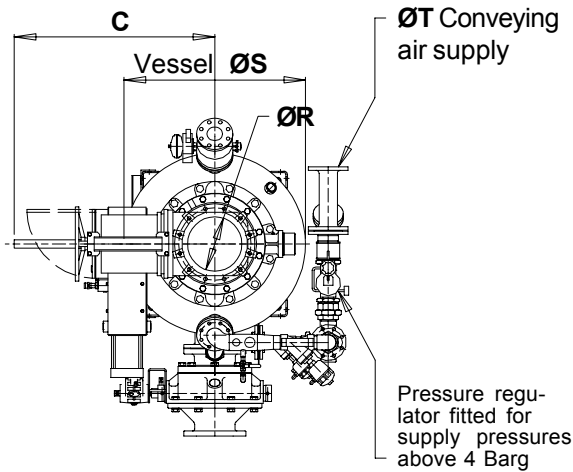
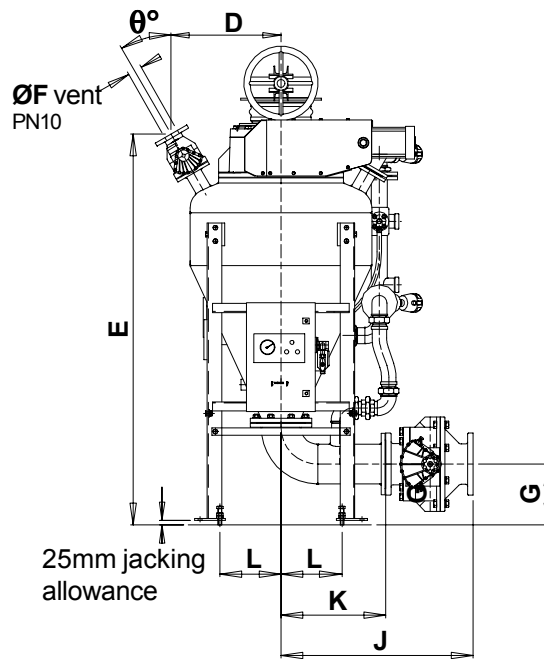
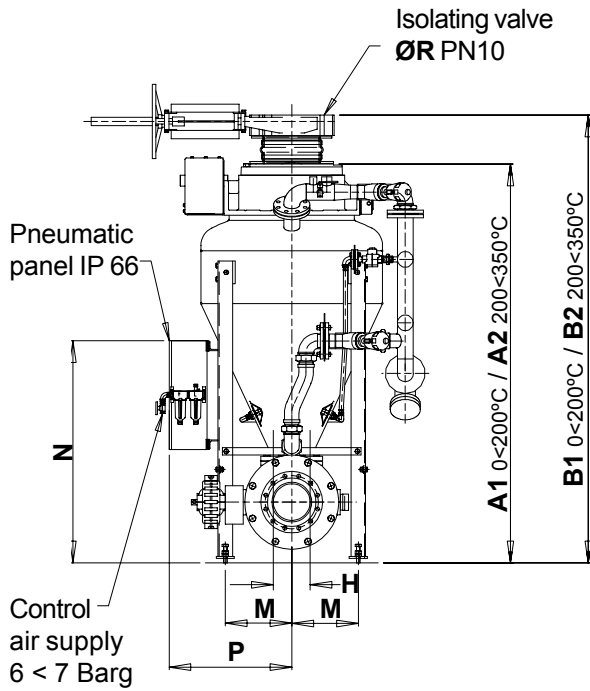
### **DensPhase Technology**

The Clyde 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.



# Convey



**Note:**

- 1 Design pressure - 7 bar: Maximum conveying pressure - 4.5 bar.
- 2 Dimensions apply to PH0 - 100°C maximum and PHV - 200°C maximum.
- 3 Water cooling connections for Dome Valves above 200°C not shown.
- 4 Model 3/4 has a pinch type vent valve.

Dimensions - (mm, unless otherwise stated)

Model	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	θ°	KG
3/4/2	1131	1151	1354	1374	520	200	1137	¾"	190	50	440	250	171	196	716	500	100	532	Rp1"	0	230
8/8/3	1629	1649	1874	1894	828	505	1644	50	295	80	555	400	319	349	1050	659	200	854	Rp2"	30	490
12/8/4	1856	1876	2101	2121	828	505	1871	50	295	100	706	400	284	308	1100	628	200	854	Rp2½"	30	550
20/12/5	2201	2213	2471	2483	1108	607	2157	80	335	125	853	478	338	358	1225	677	300	1003	100 PN10	30	1150
30/12/6	2587	2599	2857	2869	1108	607	2534	80	341	150	853	400	337	367	1200	677	300	1003	100 PN10	30	1431
50/12/8	3001	3013	3271	3283	1108	620	2592	80	417	200	988	503	405	420	1300	765	300	1163	100 PN10	30	1800
70/12/10	3052	3064	3322	3334	1108	662	3002	80	385	250	1117	554	514	529	1300	874	300	1466	100 PN10	30	2070
100/12/12	3695	3707	3695	3977	1108	662	3645	80	417	300	1335	655	514	529	1300	874y	300	1466	100 PN10	30	2250

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The Dome Valve is sold under the trade name of Spheri Valve in the United States of America.