

Manually Design Pneumatic Control Cabinet

The pneumatic actuation system consists, in its most basic version, on a control cabinet with all the actuation elements included inside. With this design, there are 4 - 10 manual shut-off valves controlling separate air lines. When needed, the valve of the desired line can be closed by opening the cabinet door (or breaking the glass).

KURTEK Pneumatic Control Cabinet is used for Quick Closing Valve's pneumatic remote control. Quick Closing Valves is provided with a pneumatic cylinder. The Pneumatic Control Cabinet system operates the cylinder. The installation can be tailored to the user's needs, although the following rules must be taken into account: The Pneumatic Control Cabinet (pressure vessel and control panel) must be installed outside the engine room. The installation must be provided with a manually operated emergency pump.

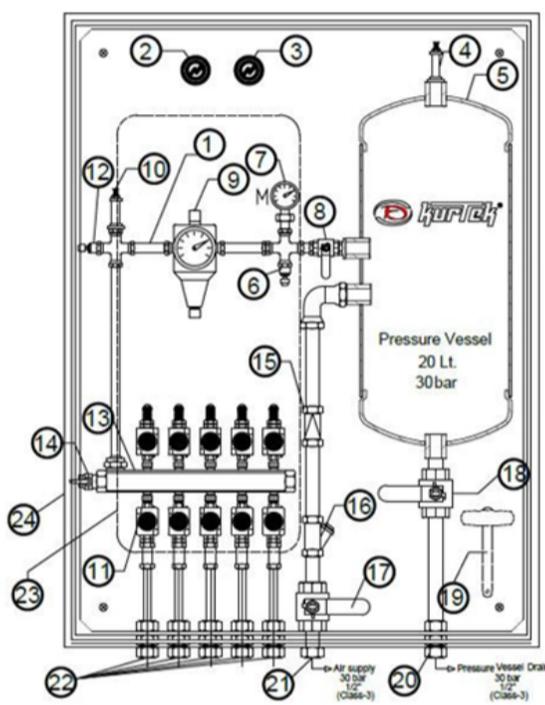
APPLICATIONS

- * With one Pneumatic Control Cabinet up to 24 Quick Closing Valves can be operated.
(Total distance between the Quick Closing Valves and Pneumatic Control Cabinet is important.)
- * The Pneumatic Control Cabinet can have 4 - 10 outlets.
- * Control Pressure : 8 bar
- * At one charging of the Pressure Vessel, all valves can be closed two times.
- * Pneumatic Control Cabinet can be easily mounted with vibration insulators.
- * The Pneumatic Control Cabinet & Pressure Vessel has certification from **BV / DNV-GL** Classification Society and can be certified from the required other IACS Societies



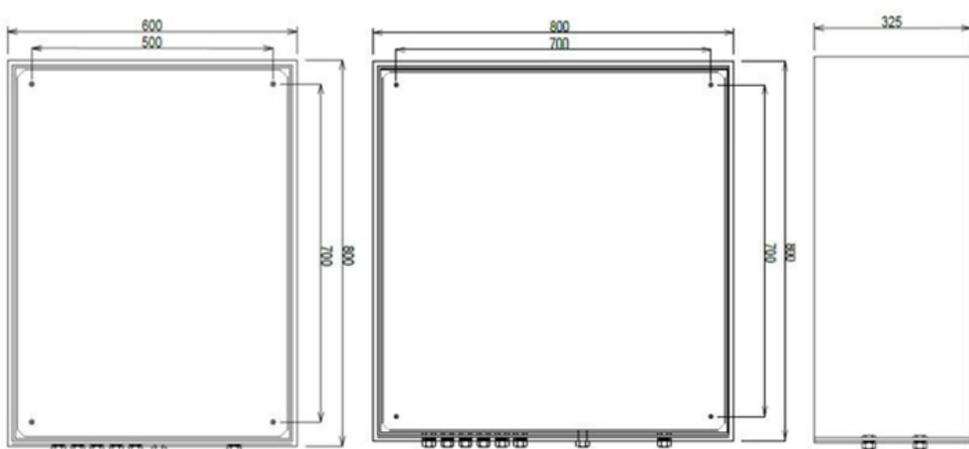
Figure: KTK-PCC-M0

- * The connection between the pneumatic cylinder of quick closing valve and the impulse unit must be made of seamless drawn steel tubing with a minimum inner diameter of 4mm.
- *The number of connections and bulkhead fittings must be restricted to a minimum.
- *There should not be any sharp bends in the transmission lines. The assembly must be installed in such a way that mechanical damage is not possible.
- *Each actuator switch must have a label to indicate which quick closing valve it will close.



NO	PART NAME	MATERIAL	STANDART
1	1/2" Installation Pipe	AISI 316	ASTM A312
2	Low Pressure Indicator	PE	Manufacturer Std.
3	Low Pressure Indicator	PE	Manufacturer Std.
4	1/2" PN64 Safety Valve (32 Bar)	MS-58	EN ISO 4126-1
5	Pressure Vessel (15lt, 20lt, 30lt, 40lt.)	P265GH	EN 10028-2
6	5/16" (8-42 Bar) Pressure Switch (Set. 28 bar)	PE	EN 60947-4/-5
7	1/4" Manometer (0-60 bar)	AISI 304	EN 837-1
8	1/2" PN63 Ball Valve (Press. Vessel Outlet)	AISI 304	DIN 3202/4-M3
9	1/2" PN50 Pressure Reducing Valve (30-7 bar)	CC499K	PED 97/23/EC
10	1/2" PN64 Safety Valve (7.7 bar)	MS-58	EN ISO 4126-1
11	1/4" PN16 Pilot Valve	ALUMINUM	Conn.STD.DIN 2999
12	1/4" 1-6 Bar Pressure Switch (Set. 6 bar)	PE	EN 60947-4/-5
13	Collector	ALUMINUM	EN 12164/5
14	1/4" PN10 Ball Valve (Drain Valve)	MS-58	Conn.STD DIN 2999
15	1/2" PN63 Check Valve	AISI 304	Conn.STD DIN 2999
16	1/2" PN63 Y Type Strainer	AISI 304	Conn.STD DIN 2999
17	1/2" PN63 Ball Valve (Air Supply)	AISI 304	DIN 3202/4-M3
18	1/2" PN63 Ball Valve (Tank Drain Valve)	AISI 304	DIN 3202/4-M3
19	Hammer for Breakable Window	Plastic With Steel	Manufacturer Std.
20	Tube-1 (Pressure Vessel Drain Tube) 12x1,5mm	St 37-4	DIN 2391C
21	Tube-2 (Air Supply Pipe) 12x1,5mm	St 37-4	DIN 2391C
22	Tube-3 (To Q/C Valves Pipe) 8x1,5mm	St 37-4	DIN 2391C
23	Breakable Window 4mm	Tempered Flat Glass	EN 14179
24	Cabinet	St 37-2	EN 10130-2006

CABINET DIMENSIONS



Cabinet with 15lt & 20lt. tank

Cabinet with 30lt. & 40 lt. tank