

PCM40/PCM41

COMPACT MODULE

DESCRIPTION:

Pennant compact module is a complete unit in itself. It is a forged steel module comprising upstream & downstream isolation valves, a universal connection for fitting a steam trap, Vent Valve on the upstream side of the steam trap and a steam trap test valve on the downstream side. A Bypass passage (**optional**) is provided in the body of compact module. The Strainer comes along with the steam Trap.

The isolation valves are piston type with stainless steel internals and special graphite seals that are designed for long life and give a bubble tight shut-off. All working parts are replaceable which means you never have to replace the compact module- just replace few working parts as and when needed.

AVAILABLE MODELS:

- PCM40:** Inlet & Outlet Isolation Valves, Test & Vent Valves (Piston type).
- PCM40B:** Inlet & Outlet Isolation Valves, Bypass Valve, Test & Vent Valves (Piston type).
- PCM41:** Inlet & Outlet Isolation Valves, Test & Vent Valves (Blow down Valve).
- PCM41B:** Inlet & Outlet Isolation Valves, Bypass Valve, Test & Vent Valves (Blow down Valve).

For all models Inlet & Outlet isolation valves & bypass valves are of piston type.

SIZES: NPS 1/2", 3/4", 1"

CONNECTIONS:

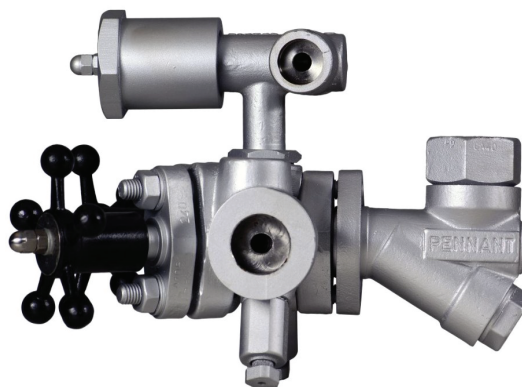
1/2", 3/4": - Socket Weld/ Screwed

1" : - Socket Weld

*End connections weld on flanges available on request.

LIMITING CONDITIONS:

MODEL	PCM41B+PT17RU	PCM41B+PT18YU	PCM41B+PT33U
Material	ASTM A105	ASTM A105	ASTM A105
Max. Pressure Rating	458 psi	609 psi	319 psi
Max. Temperature Rating	797°F	797°F	428°F
End Connection	Universal Connector		
Hydro Test Pressure	688 psi	900 psi	478 psi
Flow Direction	Left to Right/ Right to Left		



Note: When offered with steam trap, limiting conditions of the assembly will be as per the Weakest part. Kindly refer the steam trap catalogue for its Pressure/ Temperature limits.

INSTALLATION:

There are two combinations of compact modules

- Flow from Left to Right &
- Flow from Right to Left

The Module should be installed in the direction of flow indicated on the body.

Ensure that there is enough space to access the handwheel for its proper operation.

IMPORTANT:

In case any leakage is observed from piston valves, bonnet nuts should be tightened with the valve in fully closed position. Tightening the bonnet nuts should be done till valve shuts. Avoid excessive tightening, as this may reduce the life of sealing rings.

This can be repeated as and when required until the rings are worn out and no further adjustment or tightening is possible. At this stage the seal rings need to be replaced.

AVAILABLE SPARES:

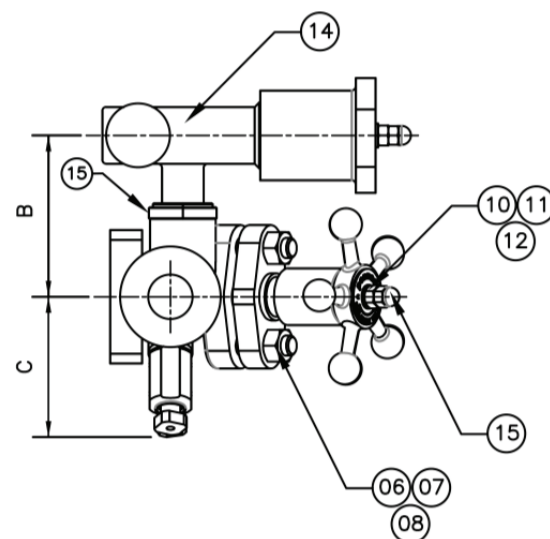
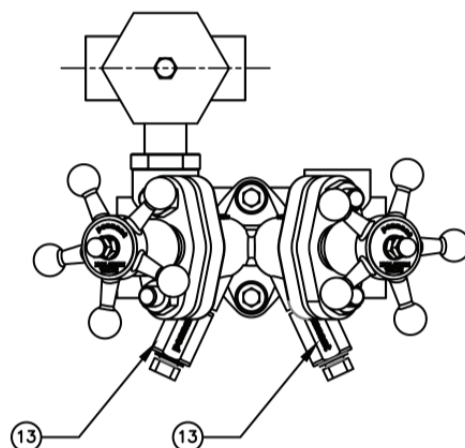
Sealing ring pair, Lantern bush, Piston, Handwheel.

DIMENSIONS:

MODEL	A	B	C	D	E	Weight (lbs)
PCM41B	5.31	3.15	2.56	4.61	5.28	13.22

MATERIAL:

NO	PART	MATERIAL	QTY
1	BODY	ASTM A105	1
2	BONNET	ASTM A105	2
3	SEALING RING	GRAPHITE WITH AISI 304 REINFORCED	6
4	LANTERN BUSH	AISI 304	3
5	PISTON	AISI 304	3
6	STUDS	ASTM A193 Gr. B7	4
7	BELLEVILLE WASHERS	50CrV4	8
8	NUTS	ASTM A194 Gr. 2H	4
9	HANDWHEEL	ASTM 216 Gr. WCB	2
10	PLAIN WASHERS	MILD STEEL	5
11	LABEL	AISI 304	2
12	NUTS	ASTM A194 Gr. 2H	3
13	TEST/VENT VALVE	ASTM A351 Gr. CF8	2
14	BYPASS VALVE	ASTM A351 Gr. CF8	1
15	LOCKNUT	AISI 304	1



HOW TO ORDER:

PCM41B With PT18Y NIBR 1" SW LEFT TO RIGHT.

ORDERING INFORMATION:

- 1) Inlet Pressure in psi(g)
- 2) Back Pressure in psi(g)
- 3) Operating Temperature in °F
- 4) Size & End Connection
- 5) Steam Trap – Thermodynamic PT18Y, PT17RU /
Thermostatic PT33U etc.
- 6) Flow Direction – Left to Right / Right to Left

