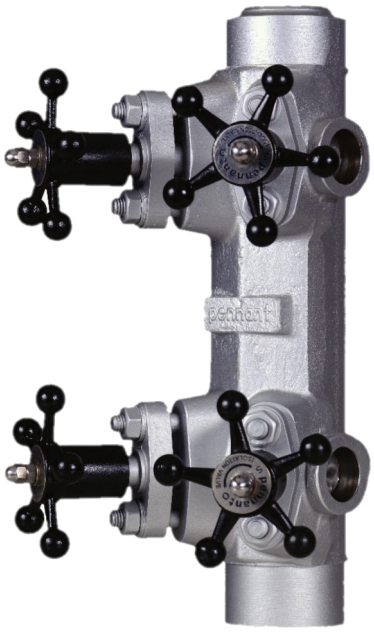
PMF40/PMF50

MANIFOLDS

DESCRIPTION:

Pennant Manifolds are a complete unit in itself. It is a centralized steam distribution /condensate collection system made from forged carbon steel, with all stainless steel internals. These manifolds facilitate effective condensate collection/ steam distribution (mainly for tracing applications), with flexible configuration & neat easy to maintain construction.

The valves in manifold are leak proof soft seated piston valves 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 manifold - just replace few working parts as and when needed.



View of PSDM40 - 4 WAY

AVAILABLE MODELS:

Pennant Manifolds are available in 4-way, 8-way & 12-way construction. Tracer end connections can be ½" or ¾" SW.

PSDM40: Steam Distribution Manifold with Tracer connections at 4.92".

PSDM50: Steam Distribution Manifold with Tracer connections at 6.29".

PCCM40: Condensate Collection Manifold with Tracer connections at 4.92".

PCCM50: Condensate Collection Manifold with Tracer connections at 6.29".

SIZES: The steam main/condensate collection Inlet & outlet connection is 1 ½".

TRACER END CONNECTIONS:

½", ¾": - Socket Weld

LIMITING CONDITIONS:

Body Design Rating	As per ASME B16.34 Class 600
PMA: Max. Allowable Pressure	1479.38 psi @RT
TMA: Max. Allowable Temperature	797°F @834 psi

INSTALLATION:

Pennant manifolds can be installed vertically, horizontally without affecting their operation. Vertical Installation is recommended as it saves the space & helps in effective condensate removal from the manifold. The manifolds are provided with M12 threaded connections at the back for easy installation by attaching it to the support structure. Refer Mounting kit installation view. Ensure that there is enough space to access the hand wheel for proper operation.

All Dimensions in inches. weights in lbs.

FOR STEAM DISTRIBUTION:

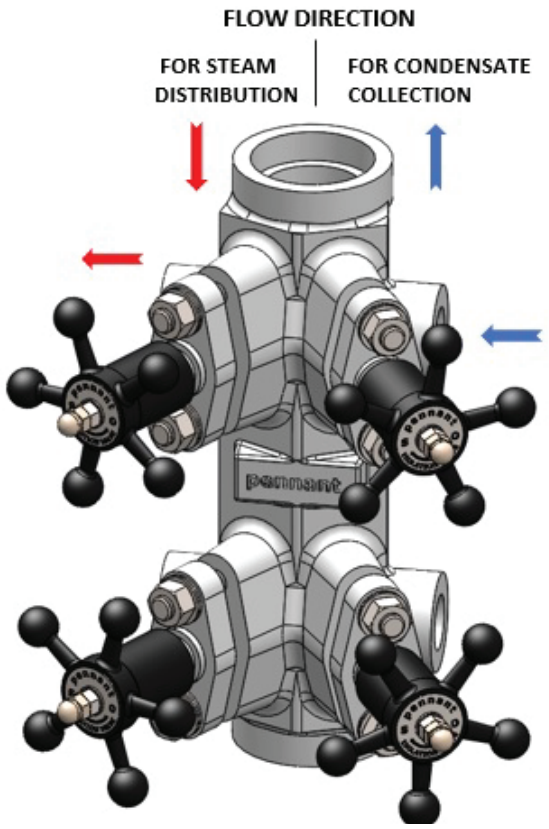
It is recommended to install manifold with steam inlet connection at the top. A compact module with Steam trap should be fitted at the bottom of the manifold to discharge the condensate collected in the manifold.

FOR CONDENSATE COLLECTION:

It is recommended to install manifold with condensate outlet connection at the top. The Bottom connection of the manifold should be fitted with an isolation valve for draining purpose.

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.



STEAM MANIFOLDS BENEFITS:

- Steam Manifolds facilitate better, compact, easy to approach, & easy to maintain piping for steam tracing and similar applications where multiple steam connections are required at same location.
- Proper sizing ensures full steam flow to each connection.
- The manifolds are fitted with a steam trap to remove condensate, giving dry steam to the process.

COST SAVING:

- Reduced Piping & Components.
- Reduced installation costs.
- Lower long-term maintenance & operating costs.

CONDENSATE MANIFOLDS BENEFITS:

- Properly configured manifolds minimise back pressure on steam traps.
- Better plant maintenance by reduced piping & components.
- Easy to approach multiple steam traps & isolation valves

COST SAVING:

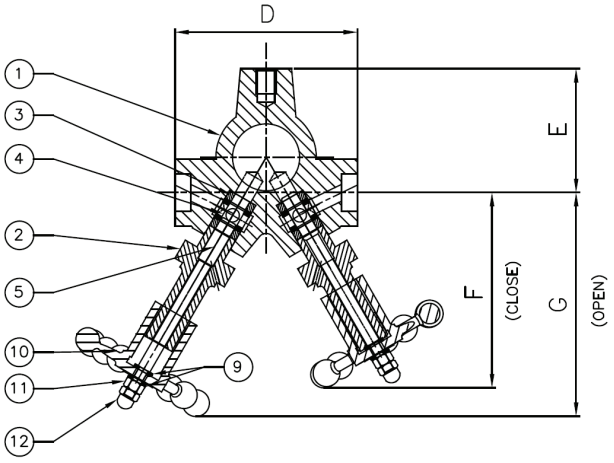
- Reduced Piping & Components.
- Reduced installation costs.
- Lower long-term maintenance & operating costs.

All Dimensions in inches. weights in lbs.

DIMENSIONS: All dimensions are in inches.

MODEL	A	B	C	D	E	F	G	Weight (lbs)
PSDM40-4	9.84	4.92	2.46	4.29	2.91	4.60	5.27	18.5
PSDM40-8	500	4.92	2.46	4.29	2.91	4.60	5.27	37.03
PSDM40-12	750	4.92	2.46	4.29	2.91	4.60	5.27	55.11
PSDM50-4	320	6.29	3.15	4.29	2.91	4.60	5.27	20.94
PSDM50-8	640	6.29	3.15	4.29	2.91	4.60	5.27	41.6
PSDM50-12	960	6.29	3.15	4.29	2.91	4.60	5.27	62.7

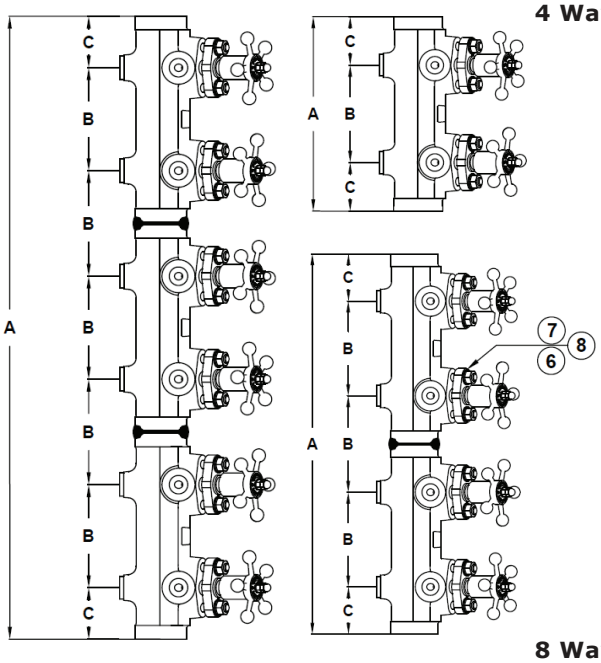
12 Way



MATERIAL:

NO	PART NAME	MATERIAL	QTY
1	BODY	ASTM A105	1
2	BONNET	ASTM A105	4
3	SEALING RING	GRAPHITE WITH AISI 304 REINFORCED	8
4	LANTERN BUSH	AISI 304	4
5	PISTON	AISI 304	4
6	STUDS	ASTM A193 Gr. B7	8
7	BELLEVILLE WASHERS	50CrV4	16
8	NUTS	ASTM A194 Gr. 2H	8
9	PLAIN WASHERS	MILD STEEL	8
10	HANDWHEEL	ASTM 216 Gr. WCB	4
11	NUTS	ASTM A194 Gr. 2H	8
12	DOME NUT	AISI 304	4

4 Way



8 Way

AVAILABLE SPARES:

Sealing ring pair, Lantern bush, Piston, Hand wheel.

HOW TO ORDER: 1) PSDM40-4 NIBR ½" SW.

ORDERING INFORMATION:

1) Inlet Pressure in psi(g)
2) Back Pressure in psi(g)
3) Operating Temperature in °F
4) Size & End Connection

OPTIONAL EXTRAS:

Insulation Jacket for Body.

All Dimensions in inches. weights in lbs.

November 2022