

PD21

LIQUID DRAIN TRAPS (CAST IRON)



DESCRIPTION:

Liquid drain trap with all stainless steel internals. Best suited for removal of oil or liquids from the compressed air systems.

FEATURES:

The inverted bucket arrangement operates on the density difference between compressed air and water, giving a cyclic operation for discharge of the accumulated moisture / liquids from compressed air / gas systems. The valve and valve seat are hardened by a special induction hardening process to withstand continuous, prolonged operation. Perfect shut-off, no air loss.

SIZES: DN15, 20, 25, 40

CONNECTIONS: Screwed (NPT/BSPT/BSP)

LIMITING CONDITIONS:

PMA: Max. allowable pressure	17.5 bar(g)			
TMA: Max. allowable temperature	220 °C			
Maximum operating back pressure at the outlet should not exceed 90% of the inlet pressure				
Minimum diff. pressure for satisfactory operation	0.1 bar			
Cold hydro test pressure	27 bar(g)			

INSTALLATION:

The trap must be fitted vertically, with the inlet from the bottom and the outlet at the top. Correct vertical fitment is essential for easy movement of the bucket. Care must be taken to ensure that the trap level is below the level of the equipment to be drained. The bypass arrangement should be above the level of the trap. Fitment of a strainer before the trap inlet is recommended to prevent entry of dirt / foreign particles into the trap. Full-port isolation valves should be fitted before and after the trap, to be used when the trap has to be opened for maintenance.

IMPORTANT:

Ensure that the trap is primed by opening the inlet valve only a crack, at commissioning, allowing water to fill the trap before the steam enters. The inlet valve should be opened fully only after the trap is filled with water.

The trap should be installed as close as possible to the equipment to be drained. For new pipelines, ensure that the lines are properly flushed, prior to fitting the trap.

MAINTENANCE:

This product has to be removed from the line for maintenance. It is recommended that the trap be opened periodically and the internals inspected for wear, damage, and dirt. All worn or damaged parts should be replaced with new spares. A new internal kit comprising of the valve pin, valve seat, bracket and lever should be replaced as a set. The bucket vent hole should be cleaned.

CAUTION:

DO NOT USE FOR HAZARDOUS/POISONOUS MEDIA



MATERIAL:

NO.	PART	MATERIAL	QTY.
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	BUCKET ASSLY.	AISI 304 with CS reinforcing ring	01
4.	VALVE SEAT (Hardened)	AISI 410/420	01
5.	VALVE PIN (Hardened)	A131 410/420	01
6.	BRACKET	AISI 304	01
7.	LEVER	AISI 304	01
8.	PLUG	CARBON STEEL	01
9.	GASKET	Non CAF	01
10.	BOLT	HIGH TENSILE	*
11.	NUT	HIGH TENSILE	*
12.	PIPE	CARBON STEEL	01

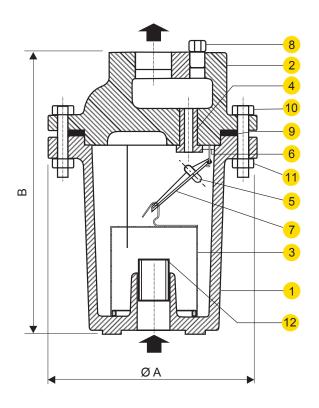
Note: All internal screws are AISI 304 *Sizes DN15,20 - 6 Nos., DN25,40 - 8 Nos.

DIMENSIONS: Nominal in mm

MODEL	SIZE	ØA	В	Wt.
PD21-15	DN15	115	155	3.70 kg
PD21-20	DN20	115	170	4.20 kg
PD21-25	DN25	186	282	16 kg
PD21-40	DN40	213	300	19 kg

AVAILABLE SPARES:

Spare Kit: Valve Pin, Valve Seat, Bracket & Lever Assly., (Op. diff. press. should be specified.)
Bucket Assly., Gasket.



HOW TO ORDER:

PD21-20 DN20 BSP ΔP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar(g)
- 2) Back Pressure in bar(g)
- 3) Operating Temperature in °C
- 4) Liquid load to be drained in kg/hr (with properties of liquid, especially the density of liquid at operating temperature).
- 5) Size & Model
- 6) End Connections