

Level Actuated, Pneumatically Operated

- Economical drain for light to medium duty service
- Discharges 0.04 pt, 20 cc per operation (0.3 gal/h, 1.2 L/h)
- Maximum working pressures to 175 psig, 12.3 kgf/cm²

Hankison® Snap-Trap condensate drains automatically discharge water, oil, and oil/water emulsions from separators, receiver tanks, dryers, filters, and drip legs.

Installing Hankison automatic condensate drains reduces operating costs by saving:

- Man hours spent manually draining compressed air lines and equipment
- Compressed air wasted when valves are left open to bleed off condensate
- Downtime when unattended air lines fill with liquid and flood the air system

Features

Reliable Operation

- Tested to over a million cycles...field proven in tens of thousands of applications
- Only two moving parts
- Operating mechanism protected from contaminants by a baffle
- Durable, self bailing, solid surface float... won't lose buoyancy like porous floats
- Magnetic snap action...causes rapid opening and closing of pilot valve
- Resilient pilot valve seat...uses peeling action for smooth operation
- Air powered piston for positive opening and closing of discharge port
- Discharge port protected against clogging by a built in stainless steel screen
- Bleed hole precision drilled in industrial ruby to resist wear and protected by a screen to prevent plugging
- Every drain inspected and performance tested

Economical...

no wasted compressed air

- Level actuated...operates on demand... discharges only when necessary
- Discharge port closes before any compressed air is lost
- Soft seated discharge port assures tight closures
- Air pressure in housing creates a positive seal... prevents air loss between operations
- Magnet prevents external vibrations from causing unnecessary discharges



SNAP-TRAP®

AUTOMATIC

CONDENSATE

DRAINS

Operation

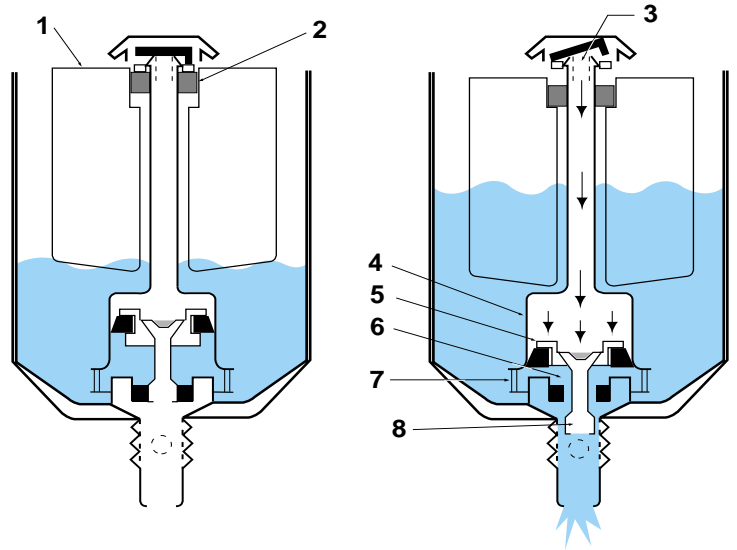
Positive discharge of condensate without loss of air
 LEVEL ACTUATED, PILOT CONTROLLED ...

As condensate collects in the drain housing, a float (1) is held firmly in place by a magnet (2).

This eliminates level seeking and allows the collection of additional condensate before the buoyant force of the float overcomes the holding force of the magnet and the pilot valve (3) snaps open.

POWER OPERATED...When the pilot valve opens, compressed air enters air cylinder (4), forcefully moving piston (5), which opens discharge port (6). Condensate is then forced through a stainless steel screen (7) and out the discharge port.

After the condensate has been discharged, the float drops and pilot valve (3) closes. Compressed air in piston cylinder (4) bleeds off through bleed hole (8). Air pressure in the housing then moves piston (5) the opposite way, closing the discharge port and holding it securely shut until the next operation. All models can be manually drained and depressurized.

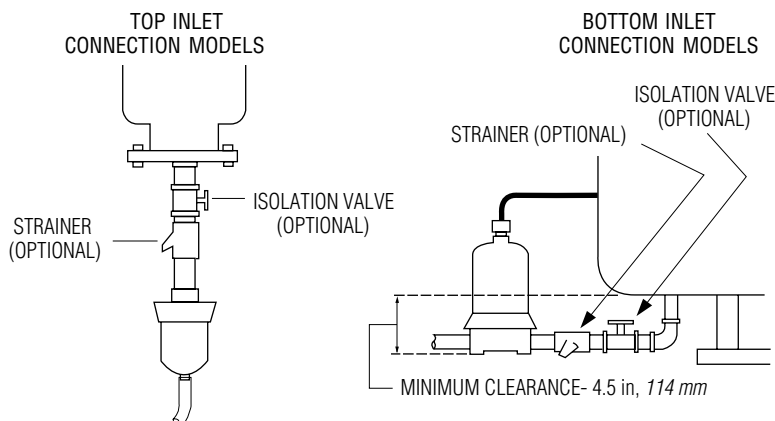
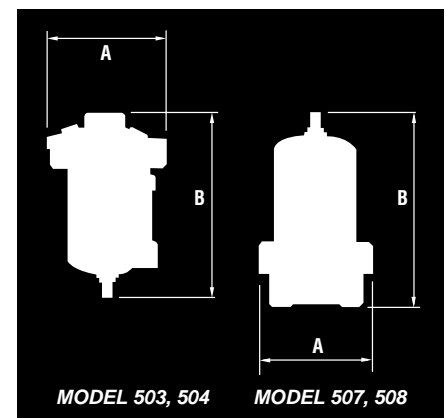


Model Selection

Model	Minimum/Maximum Operating Pressure		Minimum/Maximum Operating Pressure		Materials of Construction		Discharge Per Operation	Nominal Capacity (One cycle per minute)
	psig	kgf/cm ²	°F	°C	Bowl	Internals		
503 Top Connection	20 / 150	1.4 / 10.6	35 / 120	2 / 49	Polycarbonate housing c/w bowl guard	Polycarbonate mechanical parts Buna N seals	0.04 pints 20 cc	0.3 gals/h 1.2 L/h
507 Bottom Connection	20 / 150	1.4 / 10.6	35 / 120	2 / 49				
504 Top Connection	20 / 175	1.4 / 12.3	35 / 120	2 / 49	Epoxy coated zinc housing c/w sight glass	Delrin mechanical parts; Viton seals Impervious to synthetic lubricants		
508 Bottom Connection	20 / 175	1.4 / 12.3	35 / 120	2 / 49				

Dimensions and Connections

Model	A		B		Inlet Connection NPT/BSP	Drain Connection
	in	mm	in	mm		
503 504	3.75	95	6.38	162	1/2"	5/16" Tube 5/16" Tube
507 508	3.75	95	7	178	3/8"	3/8" NPT/BSP 3/8" NPT/BSP



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