

Externally piloted, isolated core type for severe duty

Solid diaphragm - working parts completely isolated from contaminants

HANKISON automatic condensate drains reliably discharge water, and oil/water mixtures from separators, receiver tanks, dryers, filters, and drip legs.

Pilot operated solenoid valves can be designed with large discharge ports allowing condensate, sludge, and debris to be easily discharged without clogging. Standard pilot operated valves are constructed with an internal pilot orifice in the diaphragm. In severe applications, particularly where small metal filings are present (e.g. rust particles from a receiver tank), these filings could, because of the magnetic attraction inside the solenoid core, migrate into the core causing the moving parts to stick or jam.

For maximum reliability, Hankison 533 Series drains are constructed with a solid diaphragm, completely isolating the working parts of the solenoid valve from the condensate discharge. With clean pilot air supplied directly to the top of the diaphragm, the valves working parts cannot be fouled.

Features

Highly accurate solid state timer

- Allows accurate setting of both valve open and valve closed time periods
- Adjustable "drain open time" ... allows close matching of valve open time to condensate load...minimizes air loss during discharge
- Adjustable "time between drain openings" ... allows maximum use of available condensate storage area

Rugged solenoid valves ensure reliable performance

- 300 psig, 21 kgf/cm² maximum working pressure
- Utilizes large 1/2 inch, 13 mm orifice...allows discharge of heavy liquid loads...resists clogging
- Pressure is introduced above valve closure for leakproof shutoff
- Softseat valve closure eliminates valve noise
- Moveable plugnut/caged core construction minimizes impact of core on plugnut for maximum service life
- Parts subject to wear are easily replaced without removing valve from line... replacement parts available worldwide
- Heavy duty class F coil runs cooler than coils housed in metal enclosures



533 SERIES

AUTOMATIC

ELECTRIC

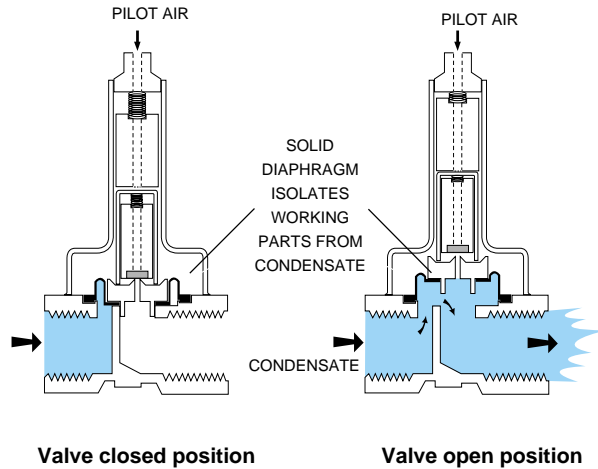
TIMED DRAINS

Easy to use

- External adjustment knobs for easy setting of valve open and closed times
- Manual override switch verifies valve operation
- Status lights for:
 - Power on - indicates that timer is energized
 - Valve energized - indicates that valve circuit is energized

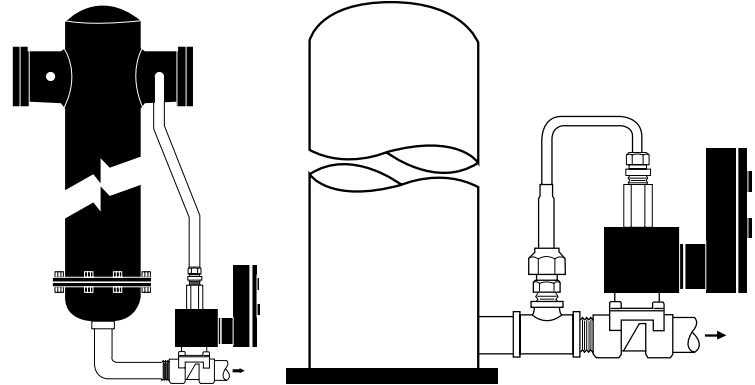
Modular design for ease of installation and operation

- Six foot, 1.8 m, three wire, grounded power cord included (adapter for 1/2 inch conduit available)
- Cord set, timer and valve plug together... may be reassembled in a variety of positions for ease of installation
- Rugged, non-corrosive NEMA 4/4x construction



Valve closed position

Valve open position



533-04-300

533-04-300F

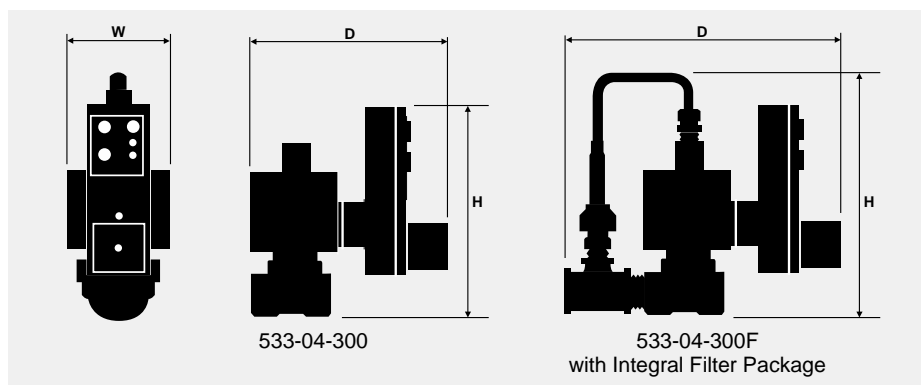
Typical Installations

Specifications

| Model | Min/Max Working Pressure | | Maximum Operating Temperature | Electrical Specs | Valve Type | Orifice Size | | Conn. NPT/BSP | Dimensions | | | | | | | |
|-------------|--------------------------|---------------------|-------------------------------|----------------------------|-------------------------------------|--------------|----|---------------|------------|-----|-------|----|-------|-----|--------|-----|
| | psig | kgf/cm ² | | | | in | mm | | Height | | Width | | Depth | | Weight | |
| | | | | | | | | | in | mm | in | mm | in | mm | lb | kg |
| 533-04-300 | 5/300 | 0.35/21 | 120°F/49°C | 115-60/100-50 | Externally Pilot Operated Diaphragm | 0.5 | 13 | 1/2" | 5.31 | 135 | 2 | 51 | 5 | 127 | 2 | 0.9 |
| 533-04-300F | 5/300 | 0.35/21 | 120°F/49°C | 230-60/200-50 NEMA 4/4x | | 0.5 | 13 | 1/2" | 6.25 | 159 | 2 | 51 | 7 | 178 | 3 | 1.4 |

Liquid discharge per operation, gallons/liters

| Discharge Time Seconds | Line Pressure When Discharging to Atmosphere | | | | | |
|------------------------|--|----------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|
| | 50 psig / 3.5 kgf/cm ² | 100 psig / 7 kgf/cm ² | 150 psig / 10.6 kgf/cm ² | 200 psig / 14 kgf/cm ² | 250 psig / 17.6 kgf/cm ² | 300 psig / 21 kgf/cm ² |
| 1 | 0.2 / 0.8 | 0.3 / 1.2 | 0.4 / 1.5 | 0.45 / 1.7 | 0.5 / 1.9 | 0.6 / 2.1 |
| 5 | 1.1 / 4.2 | 1.5 / 5.6 | 1.9 / 7.3 | 2.2 / 8.5 | 2.5 / 9.5 | 2.7 / 10.4 |
| 10 | 2.2 / 8.5 | 3.2 / 12.0 | 3.9 / 14.7 | 4.5 / 16.9 | 5.0 / 19.0 | 5.5 / 20.7 |
| 15 | 3.4 / 12.7 | 4.8 / 18.0 | 5.8 / 22.0 | 6.7 / 25.4 | 7.5 / 28.4 | 8.2 / 31.2 |



533-04-300

533-04-300F
with Integral Filter Package



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