

## **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**

- 21 kgf/cm<sup>2</sup> maximum working pressure
- Utilizes large 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**

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## **AUTOMATIC**

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## **ELECTRIC**

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## **TIMED DRAINS**

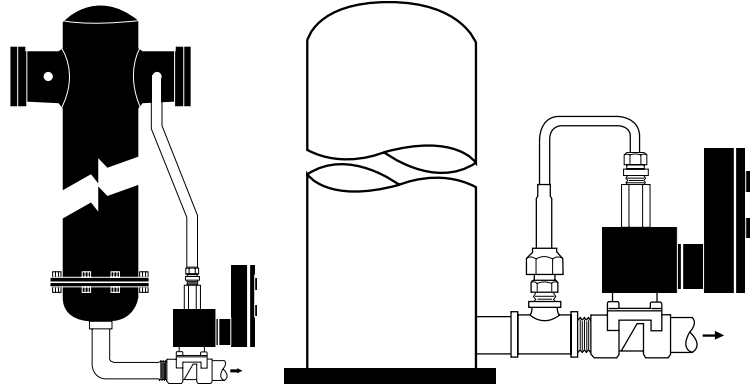
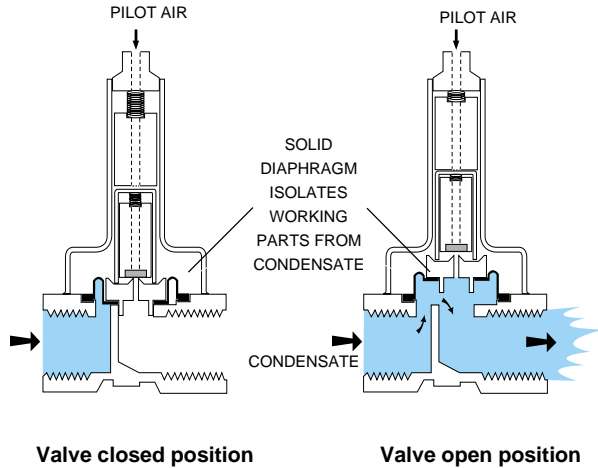
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## Easy to use

- 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

- 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



533-04-300

Typical Installations

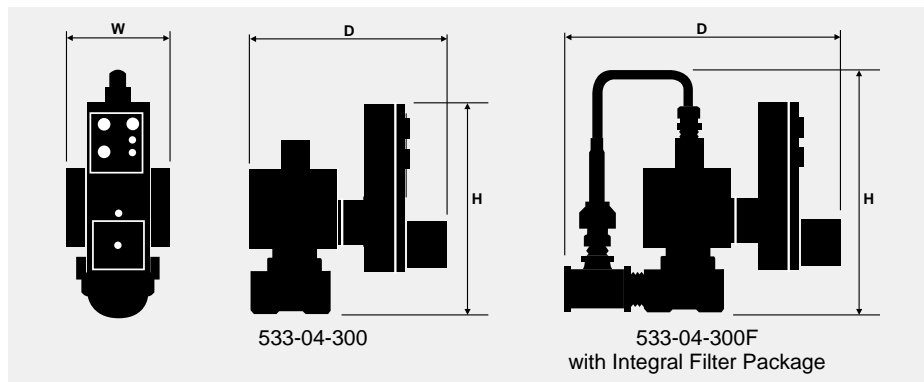
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## Specifications

Model	Min/Max Working Pressure kgf/cm <sup>2</sup>	Maximum Operating Temperature	Electrical Specs	Valve Type	Orifice Size mm	Conn. NPT/BSP	Dimensions			Weight kg
							Height mm	Width mm	Depth mm	
533-04-300	0.35/21	49°C	115-60/100-50	Externally Piloted Operated Diaphragm	13	1/2"	135	51	127	0.9
533-04-300F	0.35/21	49°C	230-60/200-50 NEMA 4/4x		13	1/2"	159	51	178	1.4

Liquid discharge per operation, liters

Discharge Time Seconds	Line Pressure When Discharging to Atmosphere					
	3.5 kgf/cm <sup>2</sup>	7 kgf/cm <sup>2</sup>	10.6 kgf/cm <sup>2</sup>	14 kgf/cm <sup>2</sup>	17.6 kgf/cm <sup>2</sup>	21 kgf/cm <sup>2</sup>
1	0.8	1.2	1.5	1.7	1.9	2.1
5	4.2	5.6	7.3	8.5	9.5	10.4
10	8.5	12.0	14.7	16.9	19.0	20.7
15	12.7	18.0	22.0	25.4	28.4	31.2



**HANKISON**  
INTERNATIONAL

Division Of Hansen Inc.  
Canonsburg, PA 15317-1700 U.S.A.  
Tel 724-745-1555 Fax 724-745-6040  
E-mail inquiry@hankisonintl.com  
Internet www.hankisonintl.com