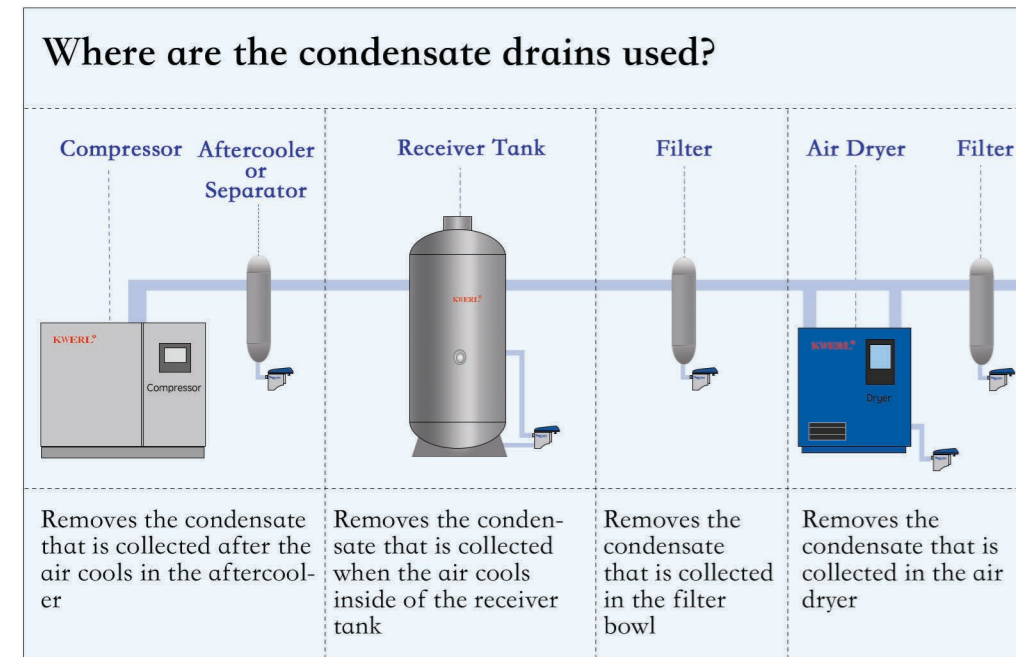


# Zero Loss Condensate Drain By BECKDG



## What is a zero air loss condensate drain?

BECKDG zero air loss condensate drains are designed for economical removal of unwanted water, oil emulsions, and other liquids. These drains will only open when liquid is present and will not allow any compressed air to escape from the system.



## Why are they needed?

Condensate is always present in a compressed air system.

If condensate is not removed from a compressed air system, it will adversely affect product quality and production efficiency and will eventually lead to costly downtime.



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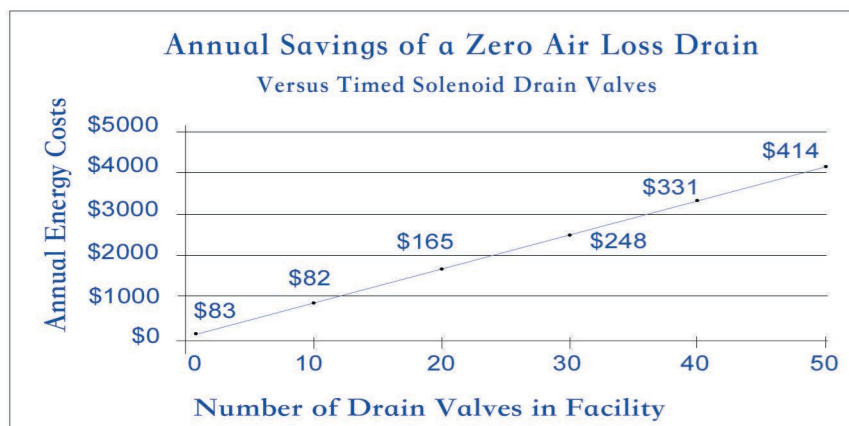
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 Shenzhen, Guangdong, China

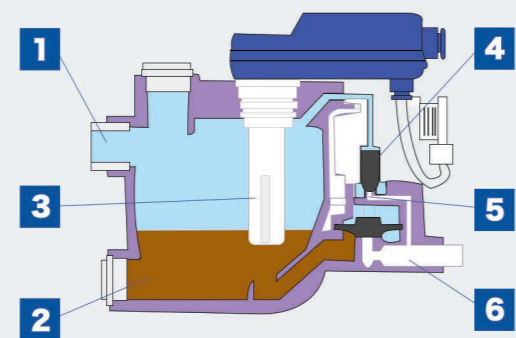
# Zero Air Loss Condensate Drain by BECKDG

## The cost of compressed air when using a timed drain valve



The annual cost of compressed air was calculated using data from the U.S. Department of Energy and several compressed air consultants. The average annual energy cost to maintain a compressed air system is \$0.23 per 1000 ft<sup>3</sup>. If a timed solenoid drain valve opens 3-4 times per hour, the cost of the wasted air will be \$80 per valve, per year.

## Dewatering Schematic Diagram



- (1) Condensate water is entering into drain.
- (2) The condensate water is gradually increased in the reservoir, based on the different output of compressed air.
- (3) Once rise to maximum setting level, the liquid level sensor send signal quickly.
- (4) To open the diaphragm valve.
- (5) Water gradually eliminated. While discharged to minimum level, sensor will send signal and diaphragm valve closed.
- (6) To achieve real zero loss draining effect.

Kwerl Technology Limited(H.K.)

Shenzhen Kwerl Technoloy Co., Ltd



### Zero Loss Condensate Drain



|                          | BK-1500     | BK-350      | BK-90     | BK-80     |
|--------------------------|-------------|-------------|-----------|-----------|
| Pressure ( bar )         | 0.8-16      | 0.8-16      | 0.8-16    | 0.8-16    |
| Inlet ( In )             | 3X3/4(DN20) | 2X1/2(DN15) | 1/2(DN15) | 1/2(DN15) |
| Outlet ( In )            | 1/2(DN15)   | 1/2(DN15)   | 3/8(DN10) | 3/8(DN10) |
| Voltage AC ( V )         | 220V        | 220V        | 220V      | 220V      |
| Weight ( Kg )            | 2.85        | 2.1         | 0.98      | 0.83      |
| Compressor Flow (m³/Min) | 85          | 30          | 8         | 7         |
| Dryer Flow (m³/Min)      | 165         | 50          | 16        | 14        |
| Filter Flow (m³/Min)     | 700         | 180         | 60        | 55        |
| Height / Width (cm)      | 182 X 254   | 164 X 214   | 160 X 170 | 143 X 160 |

### Mechanical Condensate Drain



|                          | BK-315Y   | BK-315P   | BK-315B   | BK-315D   | BK-315BP  |
|--------------------------|-----------|-----------|-----------|-----------|-----------|
| Pressure ( bar )         | 0.8-16    | 0.8-16    | 0.8-16    | 30-40     | 0.8-16    |
| Inlet ( In )             | 1X2(DN15) | 1X2(DN15) | 1X2(DN15) | 1X2(DN15) | 1X2(DN15) |
| Outlet ( In )            | 1/2(DN15) | 1/2(DN15) | 1/2(DN15) | 1/2(DN15) | 1/2(DN15) |
| Voltage AC ( V )         | ---       | ---       | ---       | ---       | ---       |
| Weight ( Kg )            | 1.23      | 1.06      | 1.12      | 1.08      | 1.12      |
| Compressor Flow (m³/Min) | 6         | 5         | 6         | 5         | 6         |
| Dryer Flow (m³/Min)      | 13        | 10        | 12        | 10        | 12        |
| Filter Flow (m³/Min)     | 36        | 33        | 35        | 33        | 35        |
| Height / Width (cm)      | 158 X 169 | 153 X 169 | 156 X 169 | 153 X 169 | 156 X 169 |

### More Choice



### Electronic Drain



|                          | BK-2500            | BK-55     | BK-1300           | BWD-110     |
|--------------------------|--------------------|-----------|-------------------|-------------|
| Pressure ( bar )         | 0.8-16             | 0.8-16    | 0.8-16            | 0.8-16      |
| Inlet ( In )             | 2X3/4(DN20)<br>1X1 | 1X2(DN15) | 3X4(DN20)         | 1X2(DN15)   |
| Outlet ( In )            | 1/2(DN15)          | 1/4(DN8)  | 1/2(DN15)         | 3/8(DN10)   |
| Voltage AC ( V )         | 220V               | 220V      | ---               | ---         |
| Weight ( Kg )            | 5.9                | 0.75      | 3.9               | 0.98        |
| Compressor Flow (m³/Min) | 950                | 3.5       | 20                | 20          |
| Dryer Flow (m³/Min)      | 1800               | 6         | 45                | 40          |
| Filter Flow (m³/Min)     | 2600               | 30        | 130               | 90          |
| Height / Width (cm)      | 280 X 286          | 115 X 170 | 180.4 X 218 X 187 | 10.5 X 18.5 |

|                          | BK-LS50   | BK-DP      | BK-DP6    | BK-AD402  | BL-42D    |
|--------------------------|-----------|------------|-----------|-----------|-----------|
| Pressure ( bar )         | 0.8-16    | 0.8-16     | 0.8-16    | 0.8-10    | 0.8-10    |
| Inlet ( In )             | 1X2(DN15) | 1X2(DN15)  | 3X4(DN20) | 1X2(DN15) | 1X2(DN15) |
| Outlet ( In )            | 1/8(DN6)  | 1/2(DN15)  | 3/4(DN20) | 3/8(DN10) | 1/8(DN6)  |
| Voltage AC ( V )         | 220V      | 220V       | 220V      | ---       | ---       |
| Weight ( Kg )            | 0.73      | 0.56       | 0.7       | 0.56      | 0.22      |
| Compressor Flow (m³/Min) | 3         | ---        | ---       | ---       | ---       |
| Dryer Flow (m³/Min)      | 6         | ---        | ---       | ---       | ---       |
| Filter Flow (m³/Min)     | 30        | ---        | ---       | ---       | ---       |
| Height / Width (cm)      | 153 X 169 | 8.8 X 10.5 | 6.5 X 12  | 18.2 X 8  | 12 X 7    |

### On-site Pictures

