

INDEX

Need to know

Zero air loss
drains

SMART GUARD PRO
SMART GUARD PRO BIO
SGP Accessories

Timer controlled drains

OPTIMUM
EZ-1
COMBO
TEC-11
TEC-44
TEC-55
High Pressure
Accessories

Electronic timers
Timer cycle options

Need to know

The condensate management side of the compressed air industry is in continuous development, and many changes have taken place over the last 10 years. JORC has excelled as the world's leading supplier of new compressed air condensate management products.

We are all aware of the problems caused by insufficient draining of compressed air condensate, it leads to blockages and rusting.

An average compressed air system has 5+ drainage points. Installing one reliable drain is certainly a step in the right direction and does solve “20%” of the total problem. However, what happens to the other 80% when those drains block, stick or get forgotten?

It is not sufficient to remove most of the condensed water and coalesced oil. At JORC we believe that it is important to remove all of it.

If you distribute compressors, after-coolers, dryers, filters and FRL's then your customers deserve total draining reliability – and you deserve the extra profit.

Condensate Management Facts

- Blocked and sticking *float drains* are not acceptable and manual drains get forgotten.
- Expensive cooling, drying and filtration of compressed air is senseless if unreliable drains are installed.
- 99.9999%, 0.01mg and other such filtration achievement statements **are worthless as soon as the drain fails**, because the coalesced oil and water is retrained. Solid particles are captured by the filter but the much more damaging oil re-enters the air stream.

Solutions

Only JORC offers the widest range of condensate management products, giving our customers a drain solution for all applications.

Only the very best components suitable for condensate treatment are selected by JORC. Those components are applied in our production by highly advanced and automated production technologies.

Our production technologies allow us to produce a 100% production consistency offering our customers the secure benefit of total reliability.

In addition, JORC is committed to a continuous investment program for research and development, offering up-to-date solutions that you can count on.

No compromise to quality



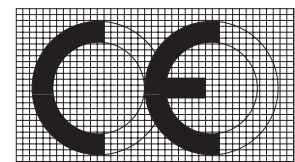
*Zero Air Loss
Private labelling possible*

The **SMART GUARD PRO** is a zero air loss electronic level sensing condensate drain. By installing the SMART GUARD PRO you prevent the loss of valuable compressed air during the discharge of the condensate. State-of-the-art software is incorporated to measure the presence of condensate, 50 times per second.

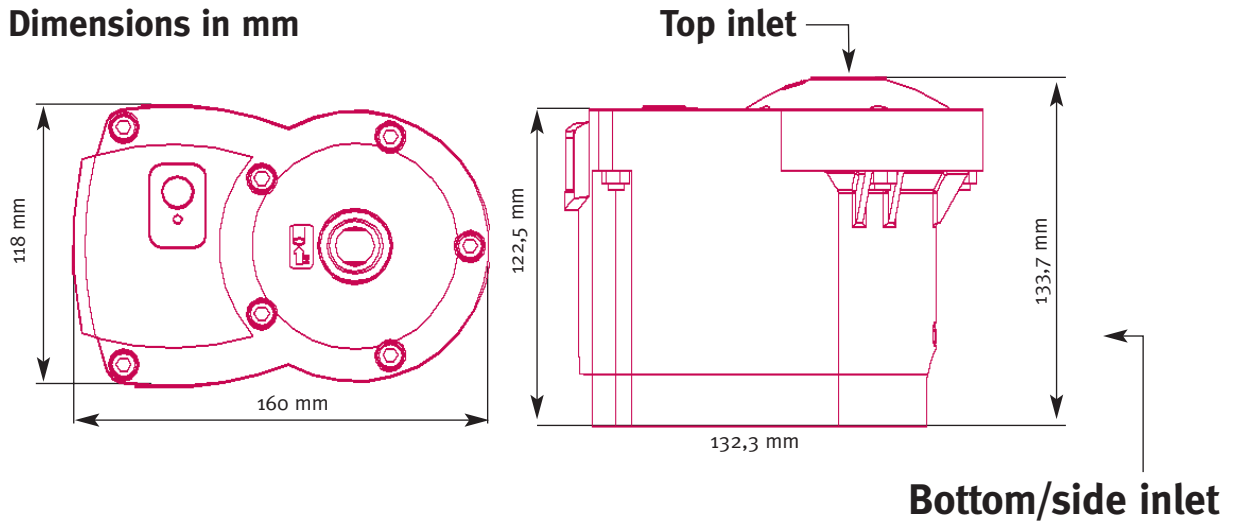
Top and bottom condensate inlets allow the SMART GUARD PRO to be widely applied. One model for all applications up to 85m³/min (3000 cfm) compressor capacity. The SMART GUARD PRO is easy to install, the unit is supplied complete with cable – simply hook up and drain.

Features

- Zero air loss during condensate discharge
- One model for all applications up to 85 m³/min (compressor capacity)
- Bottom inlet option for applications with low-to-the-floor draining points
- Alarm feature as standard (LED), contact free alarm options also available
- Micro-switch TEST button – for routine inspection and depressurisation
- Condensate sensors are not in contact with the condensate
- Supplied with 2 meter power cable
- Rugged glass fibre reinforced poly-amid housing
- Direct acting valves – not membrane type, there for no minimum pressure required
- FPM (Viton) valve seals



Dimensions in mm



Specifications

Max. compressor capacity	85 m ³ /min (3000 cfm)
Maximum drainage capacity	300 litres condensate per hour (79 US Gallons/hour)
Min./Max. pressure	0 to 16 bar (230 psi maximum)
Min./Max. temperature	2°C to 50°C (35° F to 122° F)
Voltage supply	230 VAC or 115 VAC
Electrical protection rating	IP65/NEMA 4
LED ON	Yes
Condensate inlet connections top and bottom	1/2" BSP or NPT
Condensate discharge outlet connection	1/2" BSP or NPT
Type of valve applied	Direct operated
Valve seals	FPM (Viton)
Valve internal parts	Stainless Steel
Head material	Die cast brushed aluminium
Body material	Poly-Amid, fibreglass reinforced Fire resistant

The sensors in the SMART GUARD PRO do not come into contact with the condensate!

Supplied with 2 meters (6 ft.) power cable

- Options:
- Potential free alarm contact
 - A1 = Normally open contacts, closed when in alarm fase
 - A2 = Normally closed contacts, open when in alarm fase
 - Floor/wall mounting bracket including all fixings
 - Service KIT

Designed to perfection



No bacteria build up
Anti-air lock feature

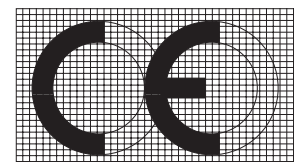
The **SMART GUARD PRO BIO** drain discharges condensate without the loss of compressed air. In addition, the **SMART GUARD PRO BIO** will empty the content of the condensate reservoir to blow out any potential bacteria build up. Additionally, any build up of airlocks within the drain are also blown out, preventing retrospective service work due to an incorrect installation.

Top and bottom condensate inlets allow the **SMART GUARD PRO BIO** to be widely applied on all compressed air system components.

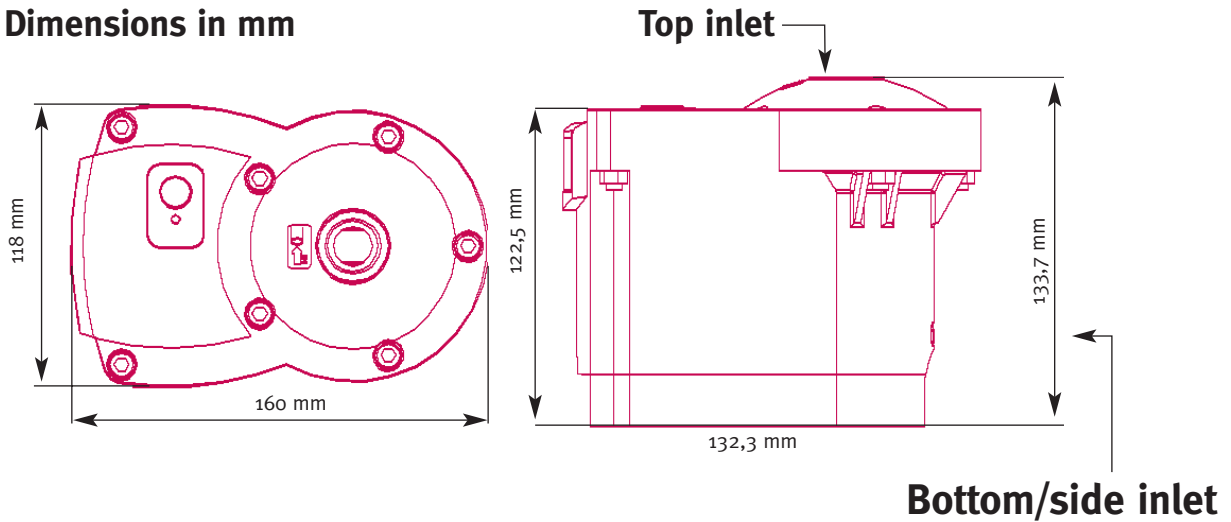
One model for all applications up to 85m³/min (3000 cfm) compressor capacity.

Features

- Anti-bacteria build-up feature
- Anti-air-lock function
- One model for all applications up to 85 m³/min (compressor capacity)
- Bottom inlet option for applications with low-to-the-floor draining points
- Alarm feature as standard (LED), contact free alarm options also available
- Micro-switch TEST button – for routine inspection and depressurisation
- Condensate sensors are not in contact with the condensate
- Supplied with 2 meter power cable
- Rugged glass fibre reinforced poly-amid housing
- Direct acting valves – not membrane type, there for no minimum pressure required
- FPM (Viton) valve seals



Dimensions in mm



Specifications

Max. compressor capacity 85 m³/min (3000 cfm)
 Maximum drainage capacity 300 litres condensate per hour (79 US Gallons/hour)

Min./Max. pressure 0 to 16 bar (230 psi maximum)
 Min./Max. temperature 2°C to 50°C (35° F to 122° F)

Voltage supply 230 VAC or 115 VAC
 Electrical protection rating IP65/NEMA 4
 LED ON Yes

Condensate inlet connections top and bottom 1/2" BSP or NPT
 Condensate discharge outlet connection 1/2" BSP or NPT

Type of valve applied Direct operated
 Valve seals FPM (Viton)
 Valve internal parts Stainless Steel
 Head material Die cast brushed aluminium
 Body material Poly-Amid, fibreglass reinforced
 Fire resistant

Note: During the blow out phase one second of compressed air is lost.

The sensors in the SMART GUARD PRO BIO do not come into contact with the condensate!

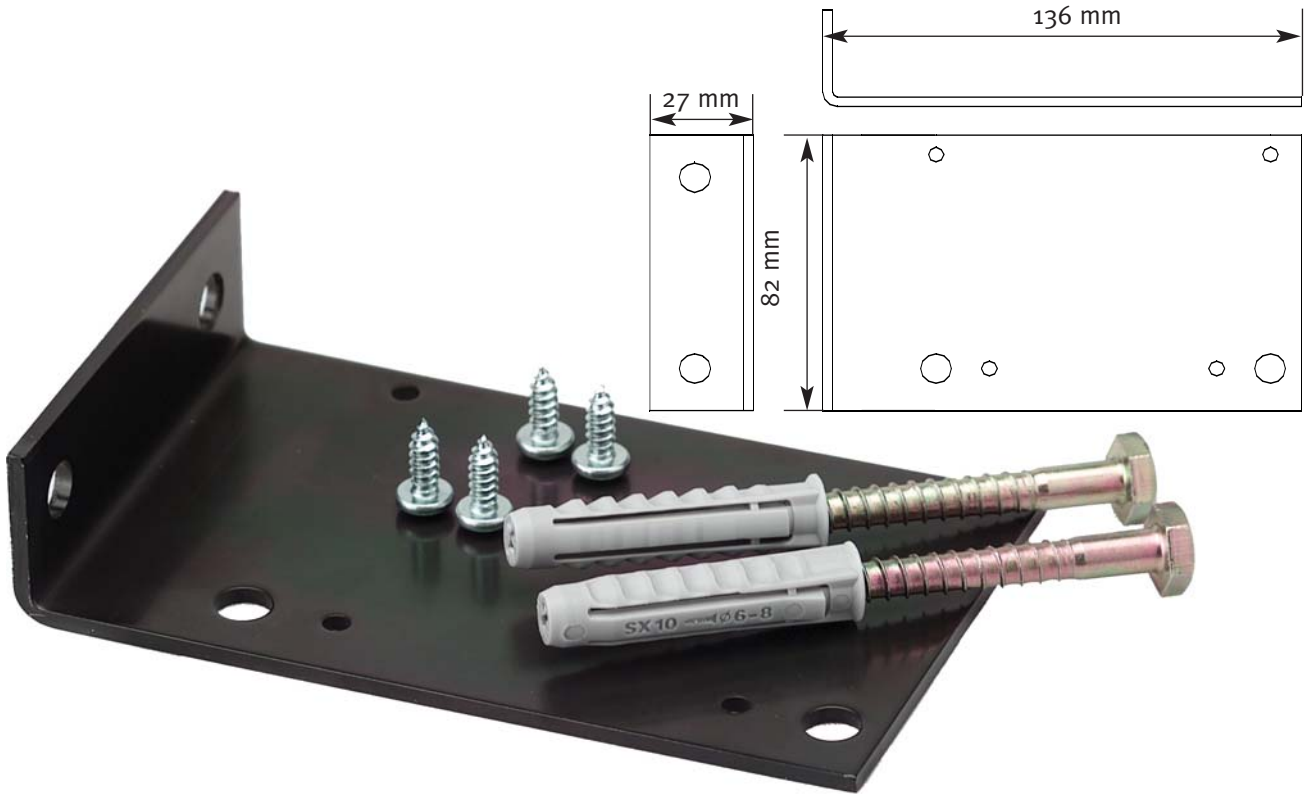
Supplied with 2 meters (6 ft.) power cable

Options: Potential free alarm contact
 A1 = Normally open contacts, closed when in alarm fase
 A2 = Normally closed contacts, open when in alarm fase

Floor/wall mounting bracket including all fixings
 Service KIT

Anti-air lock

Wall & floor mounting bracket



Specially designed mounting brackets allow the SMART GUARD PRO to be fixed to the wall or alternatively to the floor.

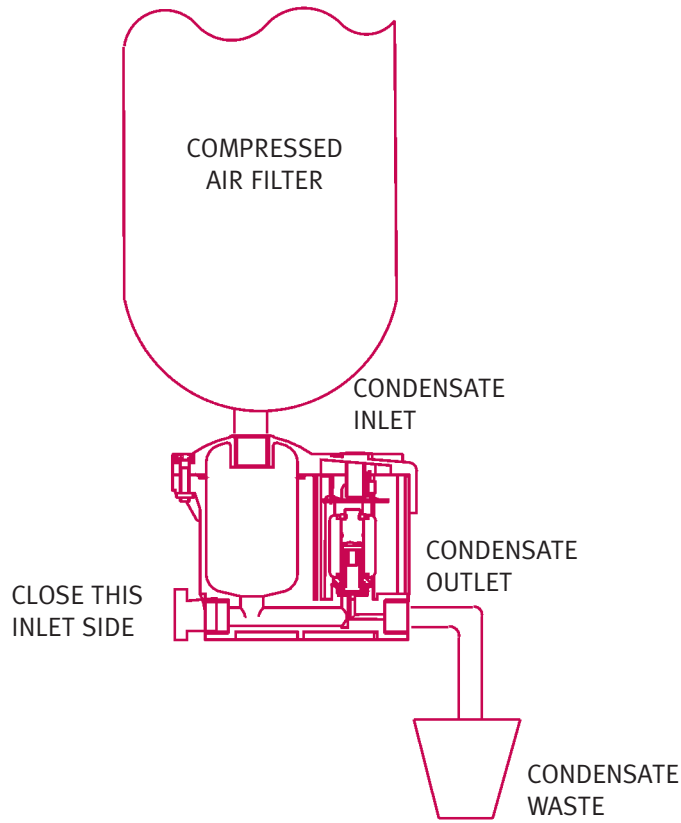
All brackets and fixings are supplied in a sealed package.

Service kits

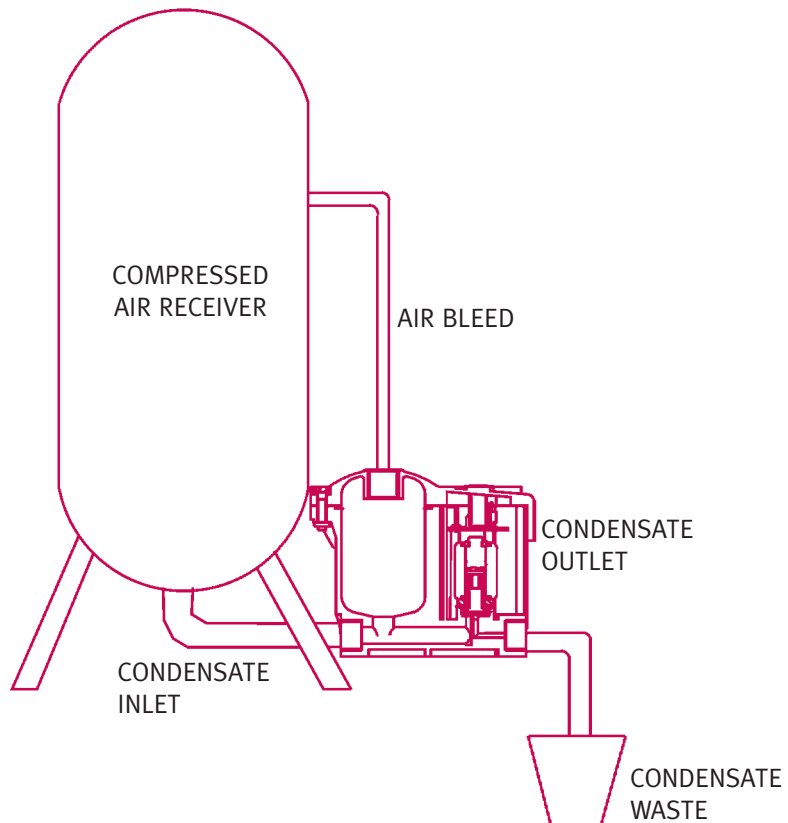
Service kits can be applied to give the SMART GUARD PRO an extended length of life. All wear, tear and cleaning components are supplied in a sealed package.



INSTALLATION DIAGRAM FOR TOP INLET ONLY



INSTALLATION DIAGRAM FOR BOTTOM INLET ONLY





Premium line



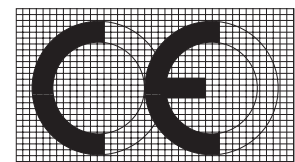
Private labeling possible

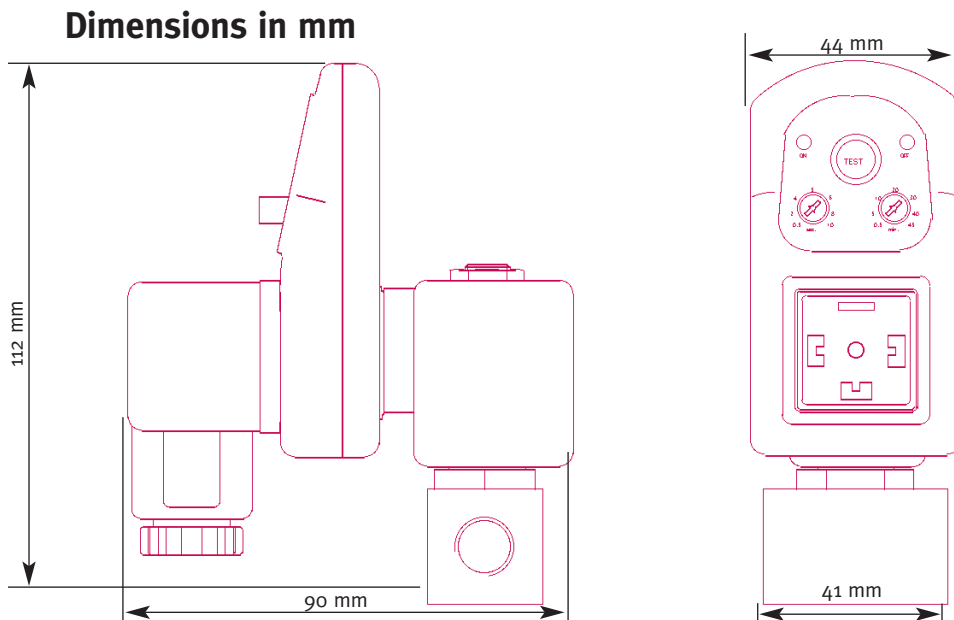
The OPTIMUM is our premium timer controlled condensate drain and is offered with the widest range of technical options combined with the highest rate of reliability.

The OPTIMUM is suitable for all compressed air system components (compressors, after coolers, dryers, filters, pressure vessels and drip legs), regardless of their size or capacity – simply adjust the interval and discharge times to suit the particular compressed air system.

Features

- Direct acting valve with a large orifice (4.5 mm) to prevent blockages
- Valve connection options 1/8", 1/4", 3/8" and 1/2" BSP or NPT
- FPM (Viton) valve seals
- Any voltage possible, ranging between 12 – 380VAC/DC 50/60 Hz.
- Pressure range 0 – 16 bar
- Surface Mounted Technology printed circuit board in timer
- Simple installation procedure
- Private labeling possible, consult factory.
- Also available with power cable





Timer specification

Interval time	0.5-45 minutes, adjustable
Discharge time	0.5-10 seconds, adjustable
Manual TEST switch	Yes, micro switch
Supply voltage options	12 to 380 VAC/DC, +/- 10%, 50/60 Hz
Current consumption	7mA maximum
Operating temperature	-40° C to +60° C (-40° F to 140° F)
Environmental protection	IP 65, NEMA 4 when installed
Housing material	ABS plastic FR grade UL94Vo
Connection	DIN 43650A ISO 440/6952
Indicators	1 LED (yellow) indicating ON 1 LED (yellow) indicating OFF Bright lights for clearer indication of operating status.

Valve specification

Type	2/2 way direct acting
In/out ports	1/8", 1/4", 3/8" or 1/2" BSP or NPT female
Min./Max. working pressure	0-16 bar g. (230 psi maximum), for higher pressure refer to the OPTIMUM-HP
Min./Max. temperature	2° C-55° C ambient (35° F-131° F)
Valve seal	FPM (Viton)
Media temperature	Max. 90° C (194° F)
Valve body	Forged brass, orifice 4.5 mm. Stainless steel versions available – consult factory.
Insulation	Higher grade H coils. Industry standard is grade F. Grade H offers superior resistance to higher temperature and longer life.
Environmental protection	IP 65 (NEMA 4)
Voltage options	12V-380VAC/DC 50/60 Hz. See coil for correct voltage
Voltage tolerance	+/- 10%
Mounting in any position	Yes

All options available



Economy line

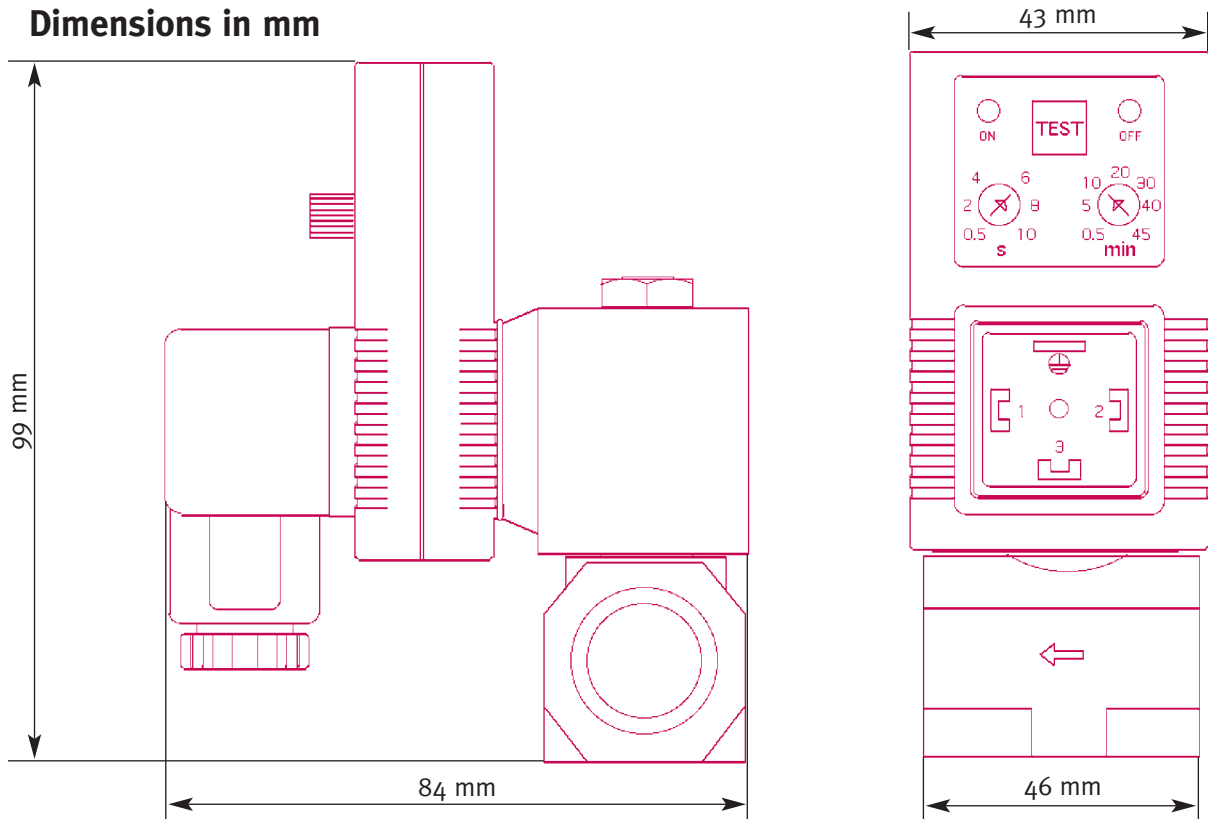


The EZ-1 is the economy timer controlled condensate drain, though still incorporating the highest possible reliability factors.

Whereas the OPTIMUM offers all options as to voltages, pressure and valve body materials; the EZ-1 is only supplied in 230VAC and 115VAC, up to 16 bar and only in a brass forged valve body.

Features

- Simple installation procedure
- Direct acting valve with a large valve orifice (4.0 mm) to prevent blockages
- FPM (Viton) valve seals
- Voltage options 115VAC or 230VAC
- Valve connection options 1/4", 3/8" and 1/2" BSP or NPT
- Standard pressure 0 – 16 bar
- Surface Mounted Technology printed circuit board in timer
- Private labeling possible, consult factory
- Also available with power cable and ball valve strainer



Timer color options



Timer specification

Interval time	0.5-45 minutes, adjustable
Discharge time	0.5-10 seconds, adjustable
Manual TEST switch	Yes, micro switch
Supply voltage options	Up to 230 VAC/DC, +/- 10%, 50/60 Hz
Current consumption	7mA maximum
Operating temperature	-40° C to +60° C (-40° F to 140° F)
Environmental protection	IP 65, NEMA 4 when installed
Housing material	ABS plastic FR grade UL94Vo
Connection	DIN 43650A ISO 440/6952
Indicators	1 LED (yellow) indicating ON 1 LED (yellow) indicating OFF

Valve specification

Type	2/2 way direct acting
In/out ports	1/4", 3/8" or 1/2" BSP or NPT female
Min./Max. working pressure	0-16 bar g. (0 – 230 psi)
Min./Max. temperature	2° C-55° C ambient (35° F-131° F)
Valve seal	FPM (Viton)
Media temperature	Max. 90° C (194° F)
Valve body	Forged brass, orifice 4.0 mm
Insulation	Industry standard grade F.
Environmental protection	IP 65 (NEMA 4)
Voltage options	115VAC or 230VAC 50/60 Hz. See coil for correct voltage
Voltage tolerance	+/- 10%
Mounting in any position	Yes

Economy line

Private labeling possible
Including integrated strainer

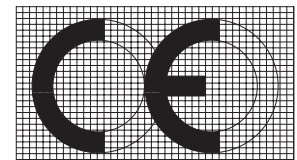


The COMBO is a timer controlled condensate drain with an integrated ball valve and strainer. The COMBO saves installation time and protects the valve against large particulates in the condensate.

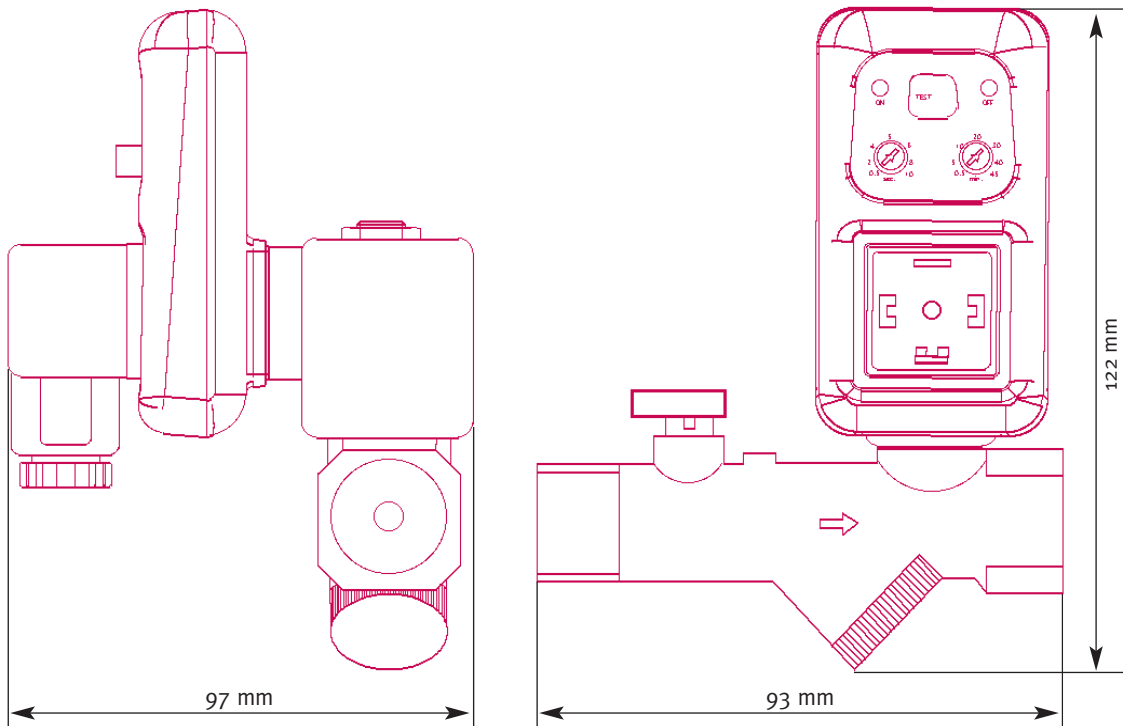
The unit can be shut off from the compressed air system enabling easy and safe maintenance work to be carried out.

Features

- Simple installation procedure with integrated ball valve strainer
- Cost savings due to installation time and installation parts
- Direct acting valve with a large orifice 4.0 mm
- FPM (Viton) valve seals
- Supply voltage range 12 to 380 VAC/DC 50/60 Hz.
- Valve connection options 1/2" BSP or NPT
- Standard pressure 0 – 21 bar
- Surface Mounted Technology printed circuit board in timer
- Private labeling possible, consult factory.
- Also available with power cable



Dimensions in mm



Timer color options



Timer specification

Interval time	0.5-45 minutes, adjustable
Discharge time	0.5-10 seconds, adjustable
Manual TEST switch	Yes, micro switch
Supply voltage options	12 to 380 VAC/DC, +/- 10%, 50/60 Hz
Current consumption	7mA maximum
Operating temperature	-40° C to +60° C (-40° F to 140° F)
Environmental protection	IP 65, NEMA 4 when installed
Housing material	ABS plastic FR grade UL94Vo
Connection	DIN 43650A ISO 440/6952
Indicators	1 LED (yellow) indicating ON 1 LED (yellow) indicating OFF Bright lights for clearer indication of operating status.

Valve specification

Type	2/2 way direct acting
In/out ports	1/2" BSP or NPT female
Min./Max. working pressure	0-21 bar g. (0 – 305 psi)
Min./Max. temperature	2° C-55° C ambient (35° F-131° F)
Valve seal	FPM (Viton)
Media temperature	Max. 90° C (194° F)
Valve body	Forged brass, 4 mm orifice
Insulation	Higher grade H coils. Industry standard is grade F. Grade H offers superior resistance to higher temperature and longer life.
Environmental protection	IP 65 (NEMA 4)
Voltage options	12V-380VAC/DC 50/60 Hz. See coil for correct voltage
Voltage tolerance	+/- 10%
Mounting in any position	Yes

Ball valve strainer integrated

Private labeling possible
Filter bowl applications



The TEC-11 is a timer controlled condensate drain especially designed for in-line filter bowl applications regardless of their capacity, size or manufacturer. Whereas with the OPTIMUM, EZ-1 and COMBO you can adjust both ON & OFF time cycles, the TEC-11 has a fixed ON time and an adjustable OFF time cycle.

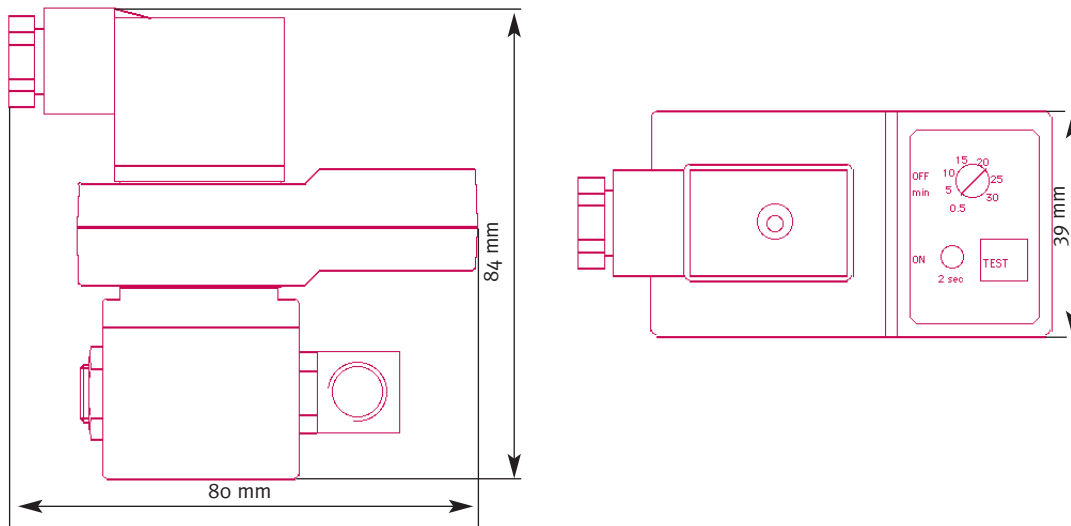
Timer colour options



Features

- Simple installation procedure, in-line connection to filter bowls
- Valve orifice 2.0 mm
- FPM (Viton) valve seals
- Any voltage possible, ranging between 12 – 380VAC/DC 50/60 Hz
- Valve connection options 1/8" and 1/4" BSP or NPT
- Pressure range 0 – 21 bar
- Surface Mounted Technology printed circuit board in timer
- Private labeling possible, consult factory.
- Also available with power cable and filter bowl adapters

Dimensions in mm



Timer specification

Interval time	1-120 minutes, adjustable
Discharge time	2 seconds, fixed
Manual TEST switch	Yes, micro switch
Supply voltage options	12 to 380 VAC/DC, +/- 10%, 50/60 Hz
Current consumption	4mA maximum
Operating temperature	-40° C to +60° C (-40° F to 140° F)
Environmental protection	IP 65, NEMA 4 when installed
Housing material	ABS plastic FR grade UL94Vo
Connection	DIN 43650A ISO 440/6952
Indicators	1 LED (yellow) indicating ON 1 LED (yellow) indicating OFF Bright lights for clearer indication of operating status.

Valve specification

Type	2/2 way direct acting
In/out ports	1/8" or 1/4" BSP or NPT female
Min./Max. working pressure	0-21 bar g. (0 – 305 psi)
Min./Max. temperature	2° C-55° C ambient (35° F-131° F)
Valve seal	FPM (Viton)
Media temperature	Max. 90° C (194° F)
Valve body	Forged brass, orifice 2.0 mm
Insulation	Higher grade H coils. Industry standard is grade F. Grade H offers superior resistance to higher temperature and longer life.
Environmental protection	IP 65 (NEMA 4)
Voltage options	12V-380VAC/DC 50/60 Hz. See coil for correct voltage
Voltage tolerance	+/- 10%
Mounting in any position	Yes

Filter bowl applications



Remote switching capability

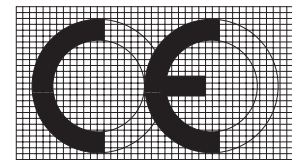
Suitable for very contaminated applications

The TEC-44 is a microprocessor operated motorised ball valve designed to remove condensate from deliquescent dryers, tanks, vessels and refrigerated dryers. The TEC 44 is designed to remove high viscosity effluents at pressure ratings up to 40 bar.

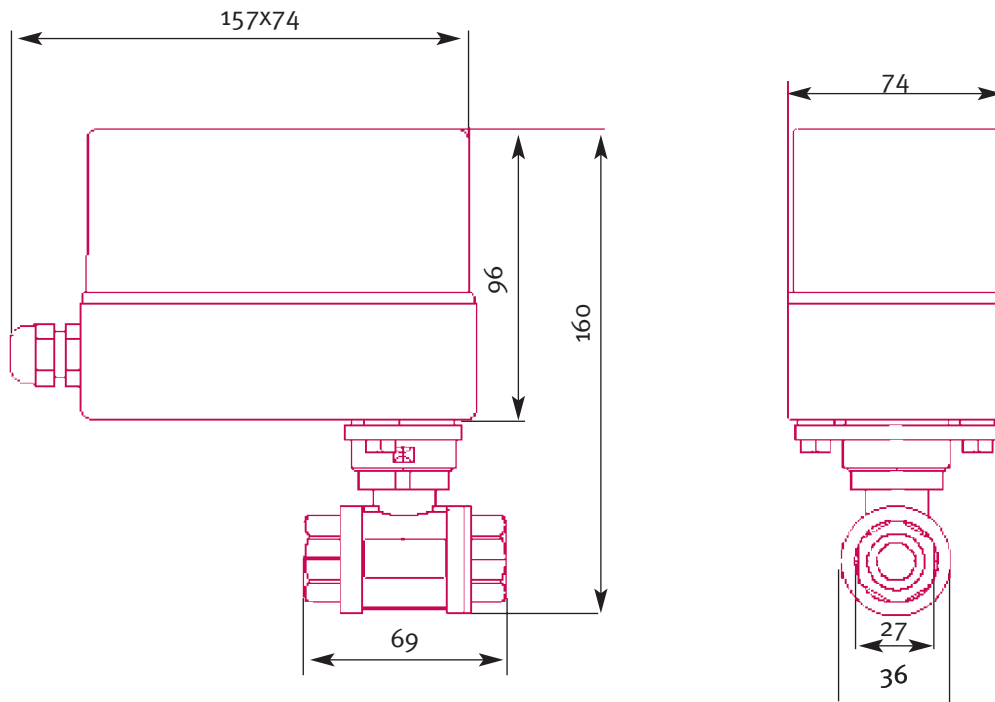
This condensate drain can not be blocked and is applied where all else fails.

Features

- Pressure range 0 to 40 Bar and FPM seals, for higher pressures consult factory.
- 1/2" connection size in BSP or NPT, orifice 12 mm
- Ball rotation 180 degrees in 7.5 seconds
- LED indicating valve ON
- Microprocessor controlled
- Stainless steel ball, valve is nickel plated brass
- Anti-blockage feature protecting the gearing mechanism
- Voltage options 230VAC and 115VAC 50/60Hz
- LCD displaying the program cycle number
- 10 cycle options (easy program) for control of open and closed cycles
- External push button controls (disassembly not necessary)
- Small compact design
- Fully automatic – no maintenance



Dimensions in mm



Technical specifications TEC-44

Interval (OFF) time	4 minutes to 24 hours, programmable
Discharge (ON) time	7.5 seconds to 15 minutes, programmable
Manual TEST switch	Yes
Supply voltage	230VAC or 115 VAC 50/60Hz
Operating temperature	0°C to +60°C (32° F to 140° F)
Valve	Nickel plated brass with stainless steel ball
Connection options	1/2", 3/4" & 1" BSP or NPT
Maximum pressure	0 to 40 bar (580 psi maximum), for higher pressures consult factory
Indicators	LED to indicate valve open, LCD indicating program number
Back-up	Battery back-up pack protecting against power failure
Anti-blockage system	Yes
Seals	FPM(Viton) & Teflon

Interval time cycles (OFF, valve closed)

- 0 = 4 minutes
- 1 = 8 minutes
- 2 = 15 minutes
- 3 = 30 minutes
- 4 = 1 hour
- 5 = 2 hours
- 6 = 4 hours
- 7 = 8 hours
- 8 = 16 hours
- 9 = 24 hours

Discharge time cycles (ON, valve open)

- A = 7.5 seconds rotation (non stop)
- B = 10 seconds rotation (valve stays open 3 sec)
- C = 15 seconds rotation (valve stays open 8 sec)
- D = 20 seconds rotation (valve stays open 13 sec)
- E = 25 seconds rotation (valve stays open 18 sec)
- F = 30 seconds rotation (valve stays open 23 sec)
- H = 45 seconds rotation (valve stays open 38 sec)
- L = 1 minute rotation (valve stays open 53 sec)
- P = 5 minutes rotation (valve stays open 4 min/53 sec)
- O = 15 minutes rotation (valve stays open 14 min/53 sec)

- = external switching only (SPDT / voltage free)

Unblockable



Multi-point control

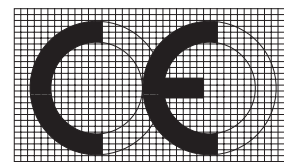
The TEC-55 is a multi-point timer controlled condensate drain, designed to control up to four valves (draining points).

A typical compressor installation has a compressor, aftercooler, dryer, filter(s) and a receiver (airtank).

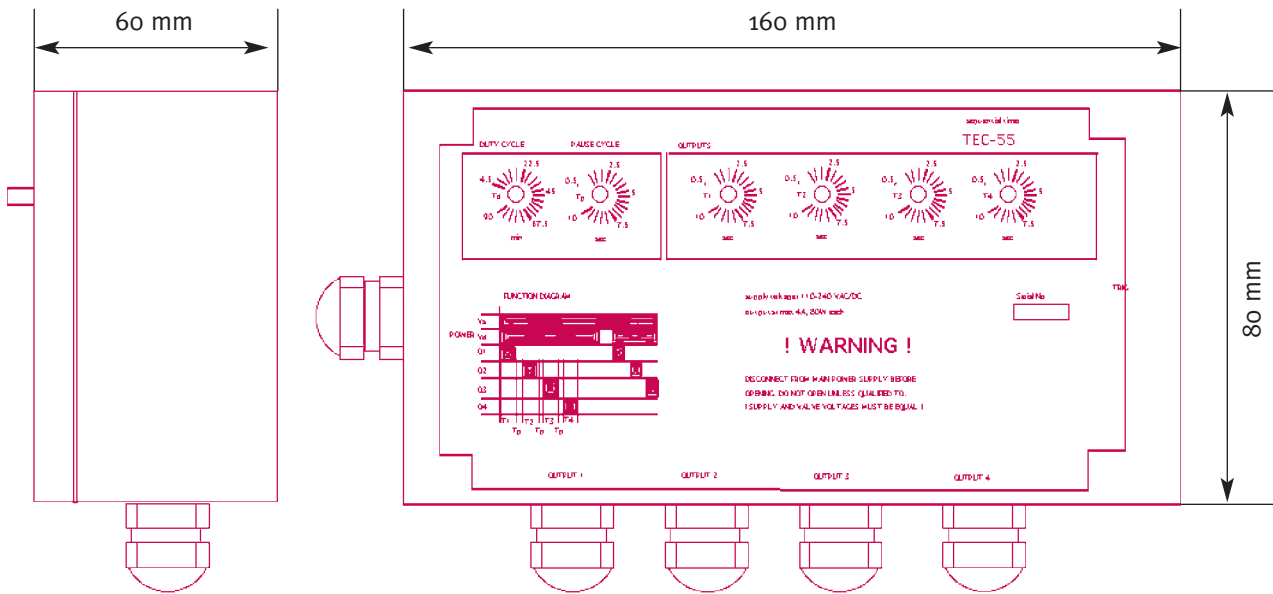
All draining points can now be centrally controlled by the TEC-55.

Features

- Centralised control of all drainage points
- Fully wired up ready for fast efficient installation
- Fully automatic – no maintenance
- IP65 enclosure
- Voltage 115 or 230VAC 50/60Hz
- Full selection of valves available
- Fully programmable cycle times
- LED indicators
- ABS housing
- Solid-state electronics for long life and durability
- Load capacity 2 Amp., 40 Watt per drain.



Dimensions in mm



Technical specifications TEC-55

Number of outlets	4
Supply voltage	115 or 230 VAC 50/60Hz
Load capacity	2A, 40W per drain
Valve open time cycle	0.5-10 seconds adjustable per outlet
Interval time	0.5-10 seconds adjustable
Total time cycle	4.5-90 minutes adjustable
Ambient temperature	0°-65°C (32° F-149° F)
Indicators	6 LED's (only 1 LED activated at any time)
Output connections	Cables with DIN43650A connector
Mains connections	Cables with assembled mains plug
Housing	ABS, fire resistant
Protection	IP 65, NEMA4 when installed



The TEC-55 is supplied complete with the controller, 4 solenoid valves, 2 meter (5' off) cables and DIN connectors.

Centralised control



Brass or stainless steel version

UP TO 350 BAR

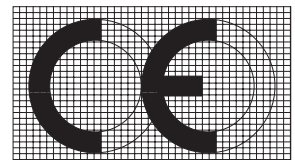
The OPTIMUM-**HP** is the high pressure option of the OPTIMUM timer controlled condensate drain.

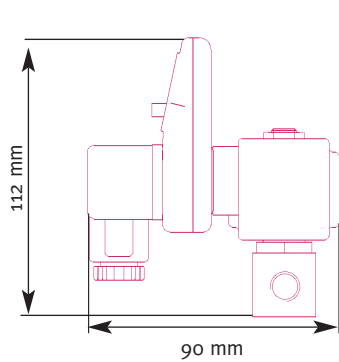
The OPTIMUM **HP** is offered with the widest range of technical options for compressed air systems up to 350 bar.

The valve body is typically produced in brass up to 80 bar. All pressures above 80 bar are typically produced in stainless steel.

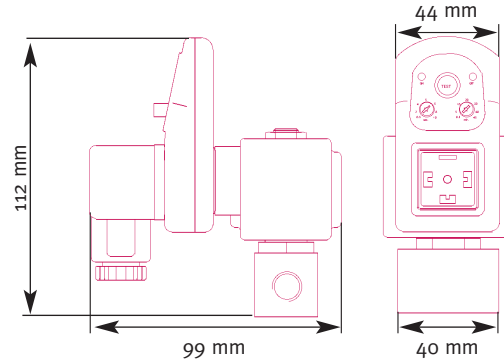
Features

- Pressure applications 16 – 350 bar
- Simple installation procedure
- Valve orifice size according to pressure rating requirements
- FPM (viton) valve seals
- Any voltage possible
- Valve connection options 1/8" or 1/4" BSP or NPT
- Surface Mounted Technology printed circuit board in timer
- Private labeling possible, consult factory.
- Also available with power cable





**Dimensions
up to 40 bar**



**Dimensions
up to 350 bar**

**Timer
color
options**



Timer specification

Interval time	0.5-45 minutes, adjustable
Discharge time	0.5-10 seconds, adjustable
Manual TEST switch	Yes, micro switch
Supply voltage options	12 to 380 VAC/DC, +/- 10%, 50/60 Hz
Current consumption	7mA maximum
Operating temperature	-40° C to +60° C (-40° F to 140° F)
Environmental protection	IP 65, NEMA 4 when installed
Housing material	ABS plastic FR grade UL94Vo
Connection	DIN 43650A ISO 440/6952
Indicators	1 LED (yellow) indicating ON 1 LED (yellow) indicating OFF Bright lights for clearer indication of operating status.

Valve specification

Type	2/2 way direct acting
In/out ports	1/4" BSP or NPT female
Min./Max. working pressure	0-350 bar g.
Min./Max. temperature	2° C-55° C ambient (35° F-131° F)
Valve seal	Viton (FPM)
Media temperature	Max. 90° C (194° F)
Valve body	Forged brass or st/st depending on pressure rating requirements
Orifice	Depending on pressure rating requirements
Insulation	Higher grade H coils. Industry standard is grade F. Grade H offers superior resistance to higher temperature and longer life.
Environmental protection	IP 65 (NEMA 4)
Voltage options	12V-380VAC/DC 50/60 Hz. See coil for correct voltage
Voltage tolerance	+/- 10%
Mounting in any position	Yes

World's highest pressure rated electronic drain

Ball valve strainers



Ball valve strainers allow for local shut off of the compressed air line, during which routing maintenance can be carried out.

The ball valve strainers also act as a filter, preventing clogging of the valve, due to the inbuilt mesh strainer.

Service kits

Service kits can be applied to give timer controlled drain valves an extended length of life. All wear and tear components are supplied in a sealed package.



Wall mounting brackets

Specially designed mounting brackets allow the OPTIMUM to be fixed to the wall.

All brackets and fixings are supplied in a sealed package.



Solenoid coils

Changing the voltage of the condensate drain is achieved by simply changing the coil.

By applying a stronger coil, the pressure rating increases.

For further details, consult factory.

*H grade insulation
ABS encapsulation*



Power connectors

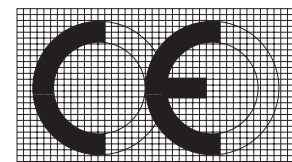
Power (DIN) connectors are available as a loose item with or without an assembled power cable.

Alternatively, the connector can be supplied with power cable and wall plug. By adding this combination to the condensate drain, no electrician is required to install the condensate drain.

For further details, consult factory.



*Optionally
with cable*





Reliable & a long life durability

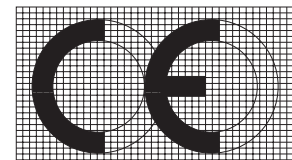
Choose your colour

Our timers have the best reliability and long life durability in the world. Our production methods ensure improved performance and consistency in manufacturing. All timers are tested 24 hours before they are released for years of service in the compressed air industry.

Adjustable cycle potentiometers offering ON and OFF cycle options, bright LED's demonstrate in which cycle the timer is operating.

Features

- Long life durability
- Milli-seconds, seconds, minutes and hour cycles possible
- Multi-voltage timers ranging from 12 – 380 VAC/DC 50/60 Hz, consult factory.
- SMT (Surface Mounted Technology) printed circuit board technology
- Micro-switch TEST button
- Full power connection contacts
- Adjustable ON & OFF potentiometers
- ABS housing, FR grade (fire resistant)
- Mountable to any Din form A or B solenoid valve, depending on the timer model
- Mountable in any position
- Private labeling possible





TIMER OPTIMUM

Timer Optimum

Interval (OFF) time
Discharge (ON) time
Manual TEST switch
Supply voltage
Current consumption
Operating temperature
Environmental protection
Housing material
Connection
Indicator
Design standard

Specifications

0.5 to 45 minutes
0.5 or 10 seconds
Yes, micro switch
24 to 240 VAC/DC 50/60Hz
4 mA maximum
-40°C to +60°C
IP65 when installed
ABS plastic FR grade
DIN 43650A
LED to indicate power ON or OFF
VDE 01 10C



TIMER EZ-1

Timer EZ-1

Interval (OFF) time
Discharge (ON) time
Manual TEST switch
Supply voltage
Current consumption
Operating temperature
Environmental protection
Housing material
Connection
Indicator
Design standard

Specifications

0.5 to 45 minutes
0.5 or 10 seconds
Yes, micro switch
24 to 240 VAC/DC 50/60Hz
4 mA maximum
-40°C to +60°C
IP65 when installed
ABS plastic FR grade
DIN 43650A
LED to indicate power ON or OFF
VDE 01 10C



TIMER COMBO

Timer Combo

Interval (OFF) time
Discharge (ON) time
Manual TEST switch
Supply voltage
Current consumption
Operating temperature
Environmental protection
Housing material
Connection
Indicator
Design standard

Specifications

0.5 to 45 minutes
0.5 or 10 seconds
Yes, micro switch
24 to 240 VAC/DC 50/60Hz
4 mA maximum
-40°C to +60°C
IP65 when installed
ABS plastic FR grade
DIN 43650A
LED to indicate power ON or OFF
VDE 01 10C



TIMER TEC-22

Timer TEC-22

Interval (OFF) time
Discharge (ON) time
Manual TEST switch
Supply voltage
Current consumption
Operating temperature
Environmental protection
Housing material
Connection
Indicator
Design standard

Specifications

0.5 to 45 minutes
0.5 or 10 seconds
Yes, micro switch
24 to 240 VAC/DC 50/60Hz
4 mA maximum
-40°C to +60°C
IP65 when installed
ABS plastic FR grade
DIN 43650A
LED to indicate power ON or OFF
VDE 01 10C



TIMER TEC-11

Timer TEC-11

Interval time
Discharge time
Manual TEST switch
Supply voltage
Current consumption
Operating temperature
Environmental protection
Housing material
Connection
Indicator
Design standard

Specifications

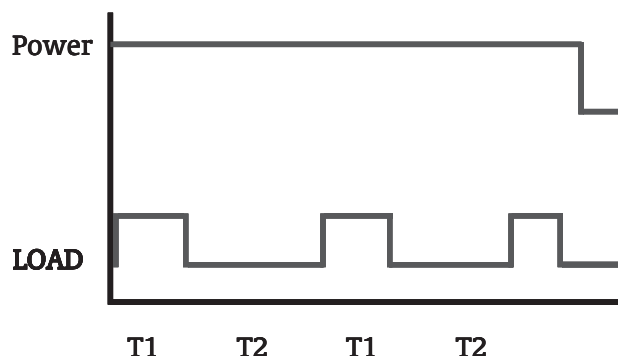
1 to 120 minutes
2 seconds fixed
Yes, micro switch
24 to 240 VAC/DC 50/60Hz
4 mA maximum
-40°C to +60°C
IP65 when installed
ABS plastic FR grade
DIN 43650B
LED to indicate power ON
VDE 01 10C

Electronic Timer – Special cycle options

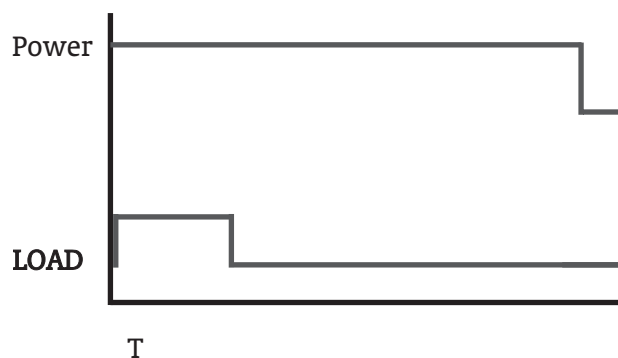
Cycle: Description

Diagram

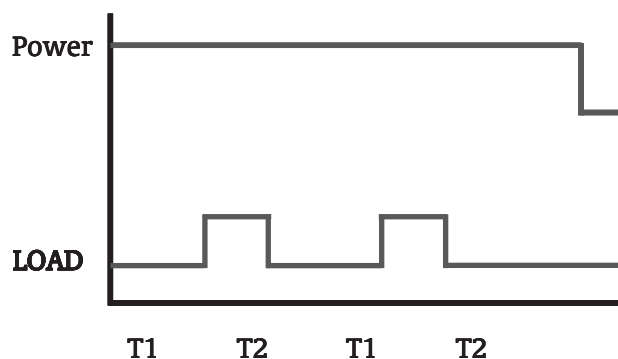
A Upon application of power the Timer resets, enters the ON-state for a period T_1 , then switches OFF for a period T_2 . This cycle repeats until the power is removed.



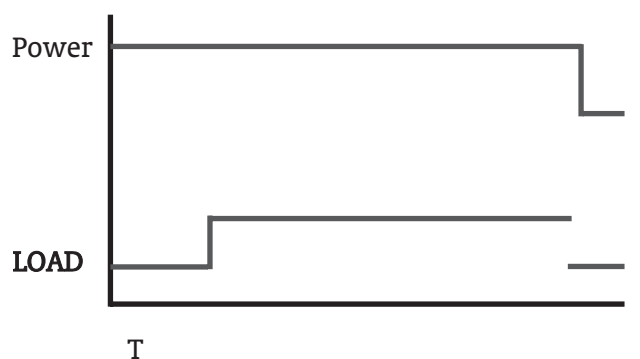
B Upon application of power the Timer resets, enters the ON-state for a period T , then switches OFF indefinitely.



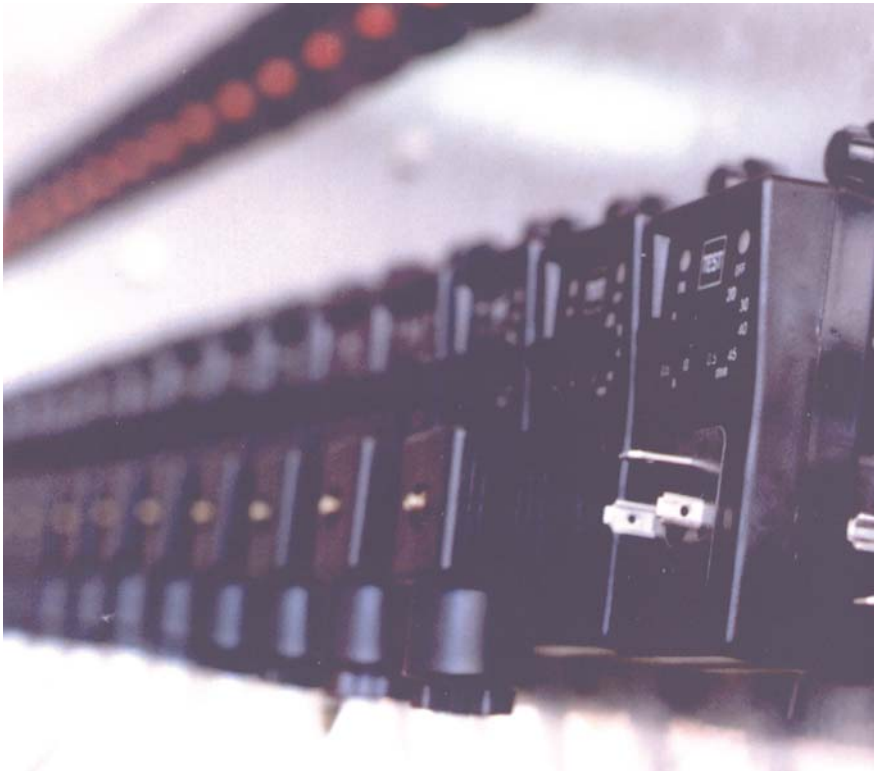
C Upon application of power the Timer resets, enters the OFF-state for a period T_1 , then switches ON for a period T_2 . This cycle repeats until the power is removed.



D Upon application of power the Timer resets, enters the OFF-state for a period T , and then switches ON indefinitely.

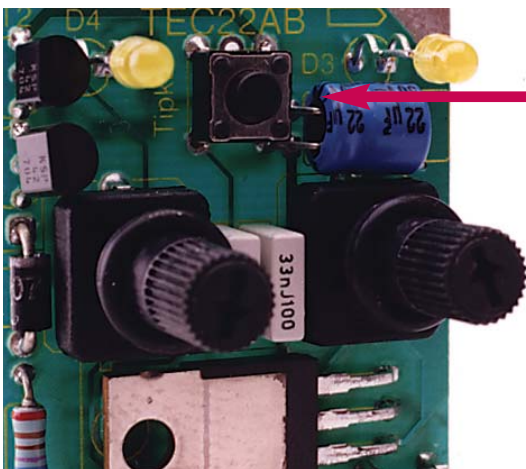


Testing and Checking



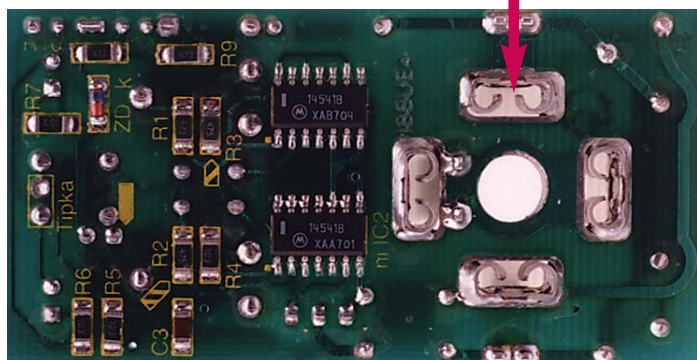
All timers are tested for 24 hours before they are released for years of service.

Row after Row of 'hooked up' timers are tested at 24 VDC and 230 VAC.

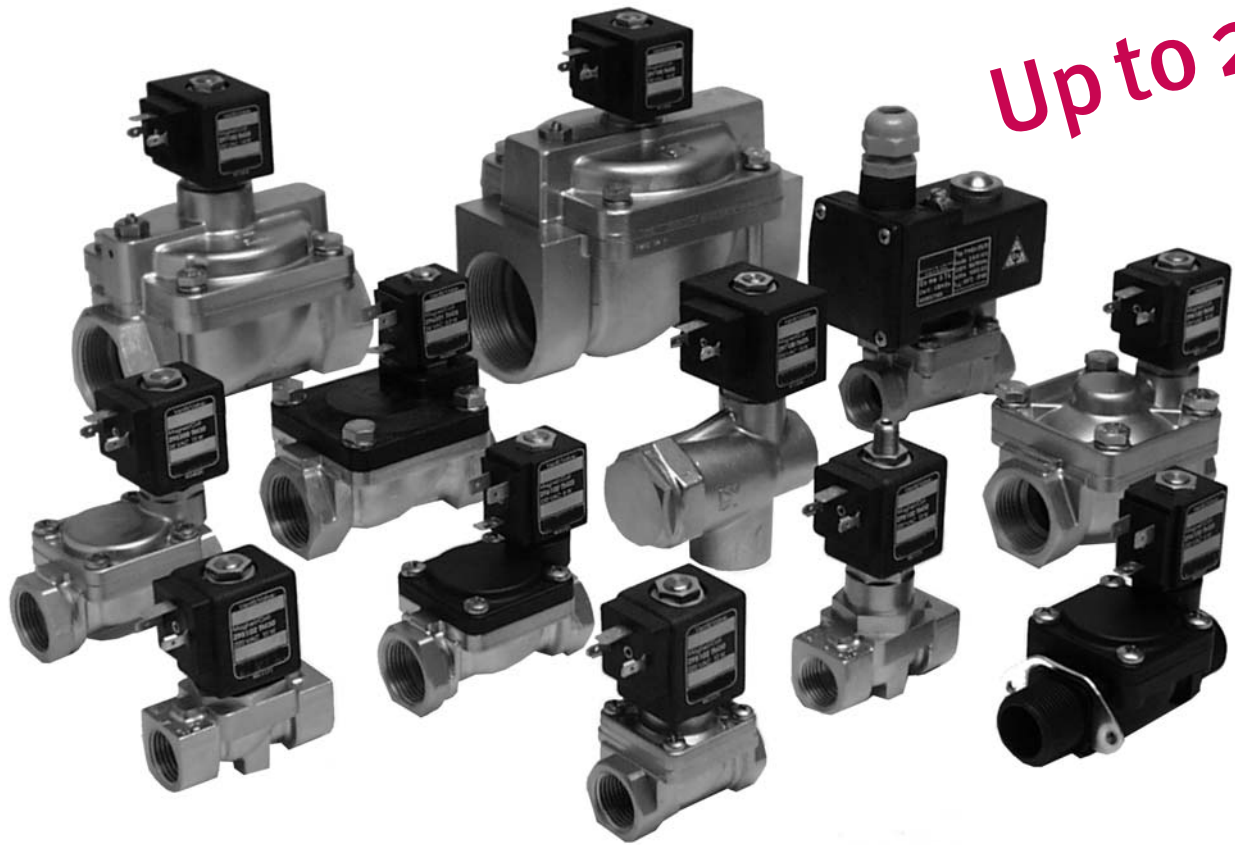


Micro-switch TEST button

Full Power contact connection



Show them our technology



Up to 2"

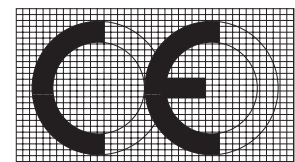
A wide range of solenoid valves are offered in 2/2 way and 3/2 way configurations. Options include direct acting and diaphragm type operations in a Normally Open or Normally Closed version.

Explosion proof coils are available and are encapsulated in special epoxide resin.

Features

- All seals available for any application
- H grade coil insulation
- ABS coil encapsulation, FR grade (fire resistant)
- Brass or stainless steel valve housings available

Industry
Shipbuilding
Hospitals
Breweries
Gas welding
Steam



1 Application data

Fluid controlled _____

Optional additives or impurities in fluid _____

Maximum fluid temperature _____ Viscosity _____

Minimum fluid temperature _____

Operating pressure (bar) _____ Maximum _____ Minimum _____ normal _____

Flow capacity _____ [l/min; m³h; kg/h; etc]

Ambient temperature _____ Maximum _____ Minimum _____

2 Valve design

Ports _____ (G/BSP, NPT, etc.) Orifice size _____

Valve body material _____ Seal material _____

- Mode of operation 2/2 NC (closed when de-energized)
 2/2 NO (open when de-energized)
 3/2 NC (closed when de-energized)
 3/2 NO (open when de-energized)
 Other _____

Supply voltage _____ Frequency _____ (50/60 Hz)

Coil energized: permanently intermittently Time ON — Time OFF —

Environment description (dry, moist, dusty, open air etc.) _____

**The valve questionnaire can be useful in selecting the right valve for your application.
 Please fill in the questionnaire with all known data and return it to us.
 We will advise the suitable valve for the particular application.**

Quality – delivered faster

