LDA

Solutions for Life

Environment & Safety

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Difference between OPL and OPAP

The OPL stopper is an inflatable pipe shut-off device for temporary use, for example during maintenance, inspection, or pressure testing. It is easy to install and can be inflated manually. The OPAP stopper, on the other hand, is designed for permanent installation and is used as an emergency shut-off valve to prevent contamination, for example in the event of fire or chemical leakage. It can be activated manually, automatically, or remotely.

OPL

OPAP

Which one to choose?
Choose OPL if you need a flexible, robust stopper for maintenance, pressure testing, or repairs, where up to 3 bar of pressure needs to be suppressed and you are installing temporary stoppers.

Choose OPAP if you want an emergency device that is permanently installed to protect against contamination, with rapid activation in the event of incidents.

LDA Solutions for Life — Inflatable pipe plug

The OPL

Advantages
- Wide range of shut-off diameter
- Robust
- Quick commissioning
- Bypass option
- Resistant to chemicals

Applications

- Water leak testing & leak testing
- Pipe cleaning
- Temporary sealing
- Pipe maintenance

Dimension						
OPL	Useful mini Ø (mm)	Useful Ø max (mm)	Deflated Ø (mm)	Length (mm)	Safety Coëfficiënt	Weight
OPL 30/60	30	60	25	150	Min 3	0.2
45/80	45	80	43	150	Min 3	0.3
50/100	50	100	35	130	Min 3	0.3
65/125	65	125	63	253	Min 3	0.4
75/150	75	150	70	195	Min 3	0.5
75/150	75	150	70	355	Min 3	0.8
100/200	100	200	86	360	Min 3	1.3
100/200	100	200	90	260	Min 3	0.8
100/150	100	150	80	130	Min 3	0.6
125/200	125	200	110	152	Min 3	0.7
150/250	150	250	145	265	Min 3	2
150/300	150	300	145	475	Min 3	2.6
200/400	200	400	190	565	Min 3	5.5
200/500	200	500	170	730	Min 3	5.5
300/600	300	600	288	720	Min 3	11.9
400/800	400	800	370	1030	Min 3	22
500/1000	500	1000	472	1140	Min 3	32.5
500/1400	500	1400	472	2200	Min 3	55
600/1200	600	1200	566	1400	Min 3	49
600/1500	600	1500	566	2200	Min 3	65
800/1600	800	1600	770	200	Min 3	90
800/2000	800	2000	760	2800	Min 3	125

LDA Solutions for Life — Inflatable pipe plug

OPAP was developed in the interest of environmental protection to prevent accidental pollution. Thanks to their patented system, they are permanently installed in the upper part of pipes and can be easily deployed, both manually and remotely, for example via telephones or fire alarm systems.

Advantages

- Permanent installation without disrupting flow
- Immediate sealing
- Complete safety
- Chemically resistant to most chemical waste products
- Quick installation

Applications

- Stops toxic or liquid leaks in the sewer system
- Blocks firefighting water used by the fire department
- Important for environmental protection

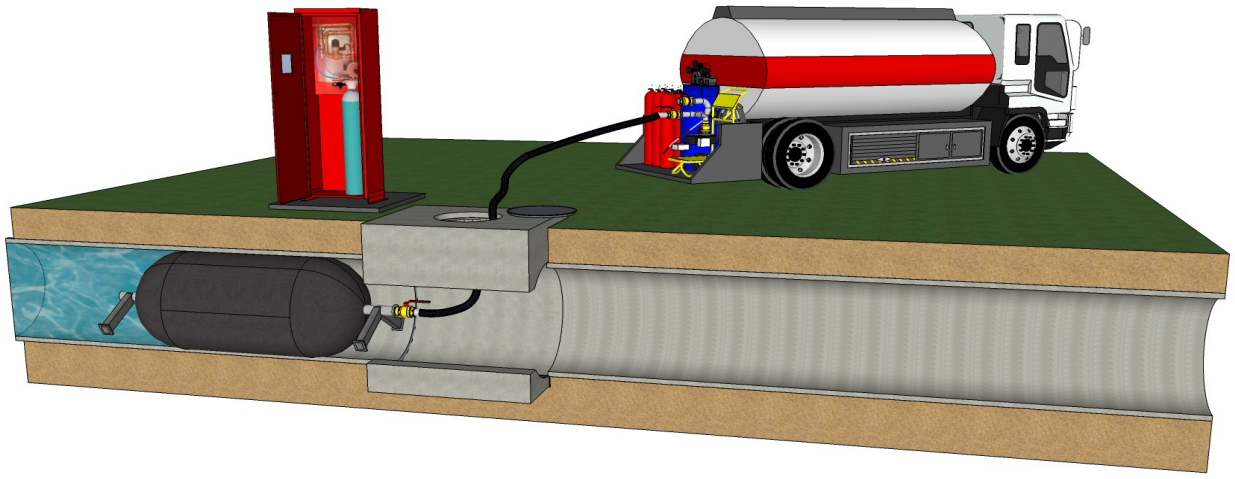
OPAP	Ø mm	Width - empty mm	Length - empty mm	Pressure(bar)	Connection
OPAP 150	150	230	550	12	¼"
OPAP 200	200	300	550	12	¼"
OPAP 250	250	380	600	12	¼"
OPAP 300	300	450	700	12	¼"
PAP 400	400	600	800	12	¼"
OPAP 500	500	750	1000	12	¼"
OPAP 600	600	900	1200	1	¼"
OPAP 700	700	1050	1400	0.8	¾"
OPAP 800	800	1200	1600	0.6	¾"
OPAP 1000	1000	1550	2050	0.4	¾"

Remote control cabinet:

Manual or semi-automatic control panel is custom-made according to requirements. Powered by compressed air or nitrogen cylinders.

The OFR

The PRONAL OFR anti-pollution stopper is particularly suitable for environmental protection and can provide a quick and flawless seal over diameters from 1000 mm to 2115 mm. OFR inflatable anti-pollution stoppers are designed to remain permanently in the pipe in question so that they can be deployed immediately in the event of accidental pollution. The OFR is placed in the central axis of the pipe using the support supplied and is designed for large-diameter pipes. The stopper is connected via a hose to a control box located close to the manhole. The stopper can be operated manually from the box or by means of an electric remote control. The stopper can also be operated by a pH probe or fire alarm.



In the event of contamination, the plug inflates and acts as a valve to block contaminants ,which can then be pumped away or diverted to a collection tank. This eliminates any risk of contamination. A polyethylene bag protects the plug when it is not inflated. The inflation pressure is determined by the diameter of the pipe in question.
Designed to preserve and protect the environment, the main advantages of the PRONAL OFR anti-pollution stopper are:
- its very fast action
- its permanent installation
- high resistance to wear and certain pollutants
- possibility of manufacture according to specific contours
- no major civil engineering works
- collection and removal of pollutants

High-pressure series OHP & OPV

OHP & OPV stoppers can be used to seal all types of pipes (concrete, steel, HDPE, stainless steel, etc.). This range of plugs can be used to perform leak tightness checks and operational maintenance, both onshore and offshore. These solutions can also be used for jacking jackets or pipes. They can also be used for performing welding tests, repairs, or replacing valves in pipes.

Advantages:

- Complete tightness
- Quick installation in the pipe
- Quick inflation and insertion
- Resistant to wear and chemical products
- Production on demand
- The plug fits different pipe diameters

Sealing:

- On pressure pipes
- Pipes for inspection, testing, and maintenance
- Pipes on offshore and gas installations

Accessories:

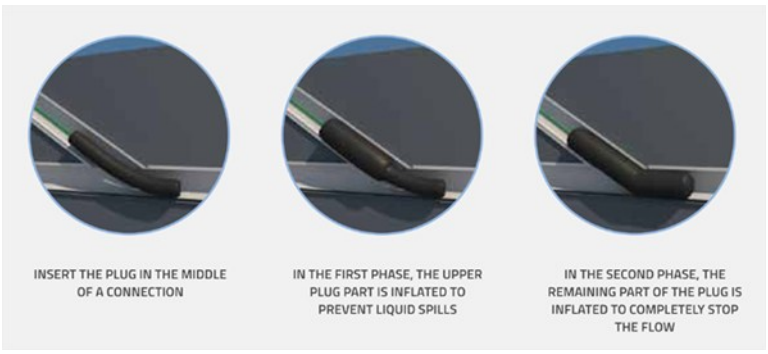
- Flange (from OPV 140)
- Blow pipe
- Wire
- Bypass pipe for pipe test

Small PLUGY Z and PLUGSY S

Savatech plugs with smaller diameters like the PLUGY Z and PLUGSY S can be used in all types of pipelines. Because these plugs are not reinforced with cord, they have excellent stretch and sealing properties in pipe diameters from 20 mm to 305 mm. Plugs are equipped with a car tire inflation valve and can be inflated with a standard tire pump. An eye bolt with a chain and a specially designed handle simplify the use of the plug.

LONG PLUGS - PLUGY DC

The design of the Savatech multi-size long plugs PLUGY DC ensures efficient sealing of both the connection and the main pipe at the same time. Savatech PLUGY DC is equipped with a 100 cm long supply hose.



GAS PLUGS - PLUGY G AND PLUGSY GM

Savatech multi-size plugs PLUGY G and PLUSGY GM are used for sealing and testing pipelines and gas pipes with a limited inlet area. Their innovative design and flexibility simplify handling and insertion.

Specific stoppers

PLUGY HP

PLUGY HP plugs are specially reinforced plugs that are suitable for sealing pipes with extremely high back pressures.

PLUGSY VP

Multi-size plugs with a larger passage PLUGSY VP cover the range from 100 mm to 1800 mm. A replaceable rubber sleeve is reinforced with aramid cord and ensures safe and easy use. Plugs are available in three different designs, depending on the conditions and requirements for the bypass.

PLUGSY VJ

PLUGSY VJ voor het testen van de dichtheid van mangaten zijn kort en licht, voorzien van drie oogbouten voor het eenvoudig verticaal insteken van een plug.

Water tank firefighting

Effective water resource management is crucial today, and PRONAL flexible tanks offer a practical solution for temporary or long-term water storage. These tanks can be used for various applications, including firefighting water reserves, rainwater harvesting, and irrigation. They are made from elastomer or plastomer materials and are reliable, cost-effective, environmentally friendly, and durable. Reservoir capacities range from 1m³ to 1000m³, with options for custom construction.

Open storage tank OPENTANK

Open flexible tanks, known as the “onion type,” are ideal for emergencies because they can be filled quickly and are easy to clean. They can store firefighting water, serve as settling basins, or act as buffer storage for chemical wastewater. They range from 1m³ to 20m³, are lightweight, and easy to transport. Custom sizes are available.

SMARTSHORE - Trench shoring

Ensuring operator safety during trench or excavation work is crucial due to the risk of collapse. According to Article R4534-24 of French labor law, trenches deeper than 1.30 m must be shored or braced. PRONAL's SMARTSHORE® system offers a modern solution, replacing cumbersome conventional shoring. It features a double-walled, rubber-coated design that is resistant to impact, abrasion, and tearing. The inflatable shields can be installed both horizontally and vertically for maximum safety. In the event of a landslide, the struts hold the earth in place for several minutes, allowing you to get away safely. The system weighs only 13 kg, can be set up in 20 minutes without lifting equipment, and is easy to transport.

MAGNETIC SHUT-OFF for SEWERS

A simple, lightweight, and reusable product to prevent harmful liquids from entering drains and sewers.

This magnetic film clings to all steel or iron surfaces. Highly effective when applied to smooth surfaces. The higher the hydrostatic pressure of the leaked liquids, the better the adhesion and sealing. The magnetic seal is flexible and resistant to oil-related products, diluted acids, and alkalis. Efficiency is reduced if the drain to be sealed is not at the same height as the road surface.

Advantages: reusable light, easy maintenance, and low price.

Features: Isotropic magnetic film with permanent magnetism. Max. pressure 52 g/cm2. Operating temperature -20 to 80°C

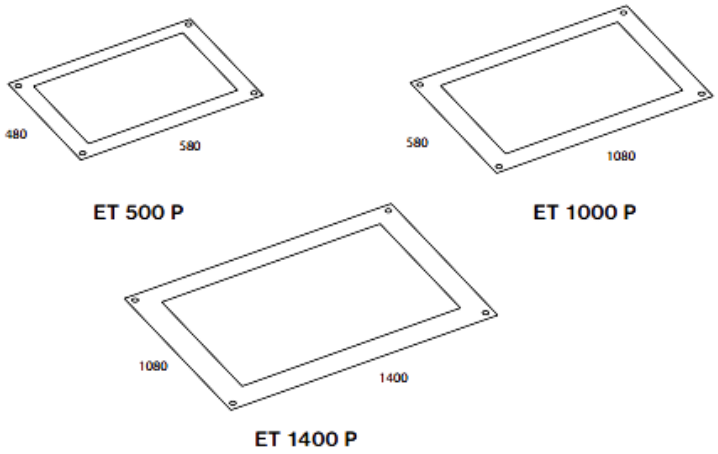
Specifications

TYPE	Dimensions (mm)	Packaged (mm)	Weight (kg)	Bracket
RUB 000067 Magnetic sewer	510 x 510 x 0,9	630 x 630 x 10	0,8	
RUB 000068	600 x 600 x 0,9	630 x 630 x 10	1,1	
RUB 000069 Mat + Bracket	600 x 600 x 0,9	630 x 630 x 10	2,5	615 x 615 x 0,6
RUB 000070	1000 x 1000 x 0,9	900 x 900 x 1010	3,3	

LDA Foldable drip tray

Foldable drip tray with replaceable absorbent lining Here is the answer to problems such as small leaks of water, petroleum products, and hazardous liquids: a perfectly simple yet ingenious product. This foldable drip tray with replaceable absorbent lining can be used, for example, for handling oil-stained parts, in chemical laboratories, on dripping pipes, or leaking hydraulic transmissions from defective machines or vehicles.

The drip tray is made of PVC that is resistant to the effects of petroleum products and is also equipped with a mesh to filter out solid waste particles, plus a replaceable absorbent lining. The specification of the required absorbent lining depends on the type of liquid to be contained: universal, water-repellent, chemical-resistant, etc. The eyelets in the corners are used to hang the tray on cables or secure it in windy weather.



Type	ET 500P	ET 1000P	ET 1400P
Dimensions (mm)	580 x 480	1080 x 580	1400 x 1080
Storage capacity (l)	1	3	7
Weight (kg)	0,5	1,5	2,8
Universal lining (mm)	500x400	1000x500	1400x1000
Water-repellent lining (mm)	500x400	1000x500	1400x1000
Chemically resistant lining (mm)	500x400	1000x500	1400x1000

LDA Pulse valve

Solutions for Life

VALVES MAC®

The MAC series of pulse valves is designed as a direct replacement for existing pulse technology. The MAC solution uses a long-life, bonded-spool design instead of the traditional diaphragm style. MAC also uses a balanced control valve that isolates the electromagnet from air contamination. Available with integrated solenoid pilot and vent pilot configurations.

Direct connection

The MAC pulse valve is available with various adapter options. These adapter options allow the MAC valve to directly replace diaphragm technology with our bonded coil technology without disrupting the piping. The MAC vent configuration works with existing remotely mounted solenoids.

Compatible with harsh environments

A cast aluminum housing, nitrile seals, and an environmentally protected solenoid valve are standard. Viton seals are also available for environments with extreme temperatures and chemical resistance.

Maintenance

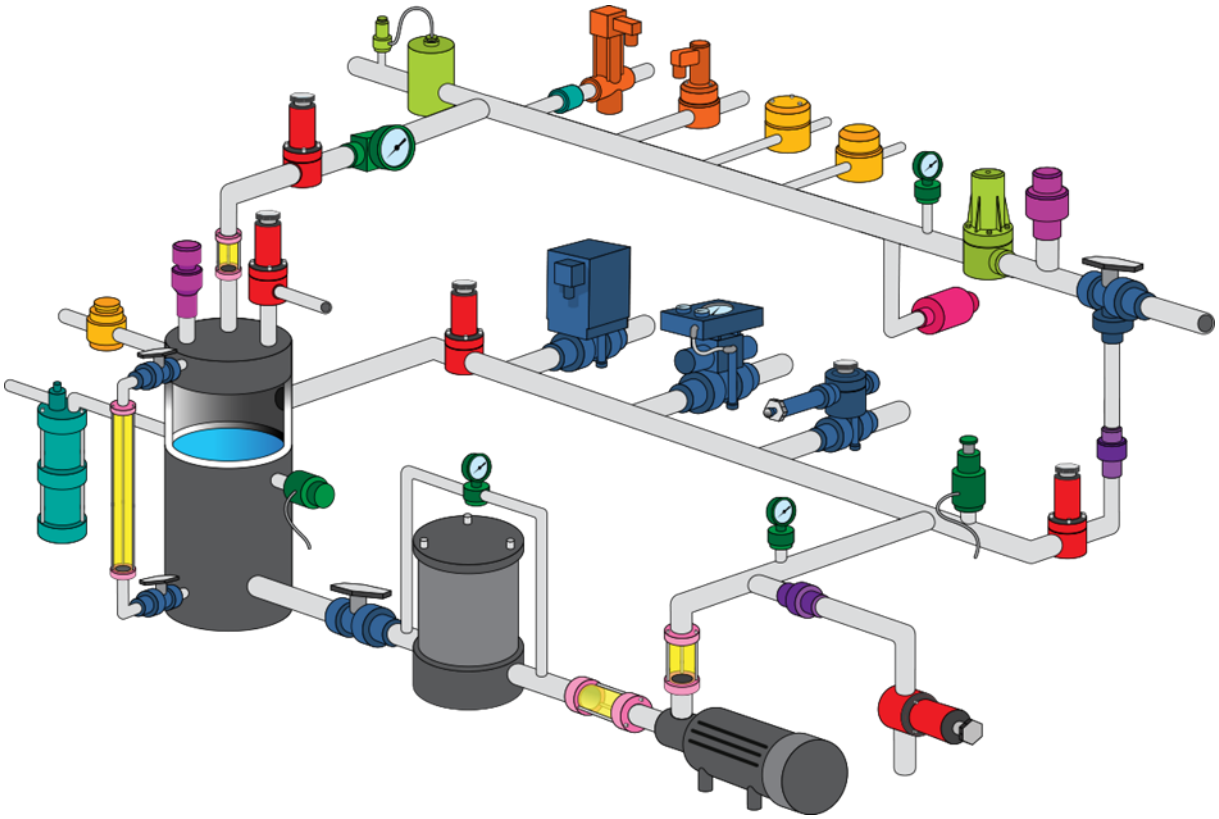
Lower cost of ownership due to reduced downtime thanks to high reliability. Maintenance is simplified with available flush kits when needed.

LDA Sewage

Solutions for Life

HIGH-QUALITY THERMOPLASTIC VALVES + REGULATORS FOR CHEMICALS, WATER/WASTEWATER, AND ULTRA-PURIFIED FLUIDS

Water/sewage treatment systems rely on Plast-O-Matic products for pump protection and system efficiency, chemical injection, precise pressure and flow control, air release, degassing and vacuum venting, pulsation damping, and anti-siphon protection. Plast-O-Matic valves are designed for ultimate performance in purity, corrosion resistance, reliability, and longevity... four critical factors in any water/wastewater treatment system.



Housing material: PVC, CPVC, PVDF, PP, PTFE, PPO, FKM, EPDM, BUNA-N, AFLAS®, FFKM, EPOCAP, UV-stabilized Body material

Product range

Ball valves, manual, solenoid & servo
Check valves
Overpressure protection devices
Pressure regulators
Relief and back pressure valves
Bypass and anti-return valves
Shut-off and bypass valves
Solenoid valves
Venting valves and vacuum

Product range Sewage

Electric and pneumatic ball valves
Solenoid valves for chemical
Pressure control/bypass valves
Degassing valves
Vent valves
Check valves

Innovations

Characterized balls for precise flow control, electric or pneumatic

Degassing and air release valves for optimal process conditions

Teflon bellows solenoid valves suitable for one million cycles

Thermatron Industrial Insulation

Key benefits

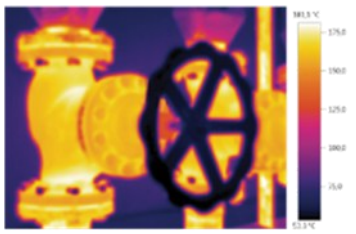
Energy:
- Improve process control and efficiency
- Save energy: Energy Management 50001

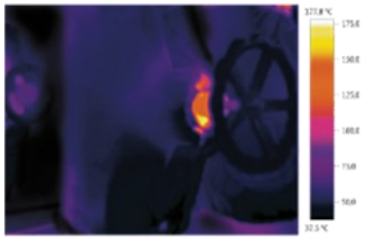
Environment:
- Reduce CO2 emissions
- Promote environmental protection:
- ISO 14001 : 2004

Safety:
- Occupational health and safety: OHSAS 18001
- Reduction of exposure to industrial heat: Directive /654/EEC 30/11/1989

Key strengths

- Easy to install and remove
- Offers high energy efficiency
- Custom-made = 100% perfect fit
- Moisture resistant





Thermatron insulation is flexible to install and remove thanks to Velcro, which reduces maintenance costs and time. It uses innovative technology that is suitable for various applications and temperature ranges. Investing in Thermatron usually pays for itself within 12 months by reducing energy consumption, lowering CO2 emissions, and improving corrosion resistance, thereby extending the life of equipment. It also improves the working environment by lowering temperatures in maintenance areas, which benefits both personnel and equipment. The materials and coatings used are industry-specific, ensuring effective insulation tailored to different environments. Thermatron insulation is reusable and, in some cases, washable thanks to its technical coatings.

LDA Solutions for Life — Thermatron Industrial Insulation

THERMATRON INDUSTRIAL INSULATION

In addition to standard products, Thermatron also offers customized insulation equipment that allows customers to choose materials, colors, and customized identification cards that can include product references, contact information, and production dates.

Technical characteristics:

- E-Glass fiber cloth.
- Low thermal conductivity due to E-Glass insulation blankets, DIN53811, filament diameter 7-13 microns.
- Para-Amid sewing thread with stainless steel reinforcement (38% Twaron, 62% Steel: 1.4404).
- Fire-retardant Velcro fastener for high temperatures.
- Glass fabric E-Glass cords for easy assembly and installation adjustments.
- Technical coating for a wide range of temperatures and working environments.
- Sound-absorbing materials and completely asbestos-free. Complies with REACH regulations DIN4102.

Applications	
Heat insulation Cold insulation Sound insulation	
Temperature range	
Basic range: Medium range: Superior range: Extra high range:	-50°C to 150°C -50°C to 250°C -50°C to 300°C -50°C to 550°C
Types of insulation jackets	
- 2- and 3-way valves - T-pipes - Short and long bends - Flanges and mats - Y strainers - Check valves - Condensate flushes - Centrifugal pumps - Expansion joints	- Flow meters - Pipes - Collectors - Tanks - Steam and oil boilers - Hand and man holes - Heat exchangers - Turbo and exhaust systems - Tailor-made manufacturing

Free Fall Fire Valve

Technical specifications:
- Material: Cast iron, painted red.
- Maximum pressure: 14 bar (200 psi)
- Standard cable: 9 m
- Fuse: 71°C standard
- Maintenance required: Test and lubricate three times a year
- Turn valve 90° (¼ turn)
- Lubricant 4", 5", 6" valves: Type 44 under 4" valves: Type 90
- Flange BS4504, PN16
- Screwed Spec BSP parallel
- Available weights 2.25, 4.5, 6.8 kg (5, 10, 15 lb)

Fusible links

Available in: 71°C - 92°C - 104°C - 127°C - 143°C - 180°C

Fire Valve Parts

Replacement kits containing our most popular parts.

Manually operated quick release

mechanisms The manually operated quick release mechanism is designed for use with our free-fall fire valves. The steel cable of the valve is looped around the pulley and is released when the button is pressed, allowing the valve arm to fall.

The standard in mechanical detectors

The DETECT-A-FIRE® detector is at the heart of many fire protection systems... and has been for over 65 years as the first Rate-Compensated detector on the market.

From gas stations to paint spray booths, from exhaust hoods to large power generation systems, from engine compartments to schools, factories, and offices, the D-A-F® detector stands guard and monitors the release of extinguishing agents such as clean agents, CO, water, or dry chemicals.

The D-A-F® detector is the first device with Rate Compensation that can reliably respond to both slow and fast fires by sounding an alarm at a predetermined danger point. These detectors are used to monitor extinguishing agents such as cleaning agents and CO2 and can also serve as an alarm for overheating or fire. They are widely applicable, from gas stations to offshore oil and gas platforms and chemical plants. Fenwal offers support in selecting the right D-A-F® detector or upgrading existing installations to meet specific needs.

Features:
- Hermetically sealed
- Tamper-proof
- Preset temperatures
- Shock and vibration resistant

Technical specifications:
- Horizontal mounting: Six fixed settings from 140 to 325°F
- Vertical mounting: 12 fixed settings from 140 to 725°F
- Single-pole single-throw (SPST)
- Opens or closes when temperature rises

Listing & Approvals:
- UL / cUL / FM approved/ Atex
- Special versions
- Teflon protective sleeve for aggressive environments

Energy-saving module

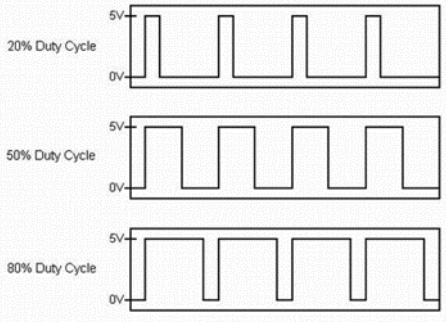
Pulse width modulation (PWM) is a technique that uses a series of digital pulses to control an analog circuit. The length and frequency of these pulses determine the total power supplied to the circuit. PWM signals are typically used to control solenoid valves and have many other applications, from controlling motors or pumps to adjusting the brightness of an LED.

ESH2DC-B75

ESH2DC-C75

Specifications

- For valves from 1W to 40W
- Signal input: 20V - 25V DC
- Signal output: 24V DC
- Up to 80% lower power consumption
- Up to 50% lower coil temperature
- Increased reliability: 40% longer valve service life



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Solutions for Life

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