

Environment & Security



Solutions for Life



Opblaasbare buisafsluiters

De OPL afsluiters worden gebruikt voor het tijdelijk afdichten van leidingen met diameters van 30 tot 2000 mm.

Deze plugs worden ingezet tijdens de bouwfase of onderhoud van leiding netwerken om de hydraulische druk testen, isolatie van leidingen of tijdelijke vullingen uit te voeren.

Voordelen

Robuust

Snelle ingebuikstelling

· Brede keuze aan afsluitdiameter

· Uitstekende tegendruk weerstand



Toepassingen

- Water lektesten & dichtheidstesten
- Leidingen reinigen
- Tijdelijk of permanent afdichten
- Onderhoud op leidingen

· Bypass optie · Bestendig tegen chemicaliën **Dimensions** Usefull mini Ø Usfull Ø max Deflated Ø OPL Length (mm) Safety coëf Weight (mm) (mm) (mm) OPL 30/60 30 60 25 150 Min 3 0.2 45/80 150 Min 3 0.3 45 80 43 50/100 50 100 130 0.3 35 Min 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 2 475 150/300 150 300 145 Min 3 2.6 200/400 200 400 190 565 Min 3 5.5 200 200/500 500 170 730 Min 3 5.5 300/600 600 300 288 720 Min 3 11.9 400/800 400 800 370 1030 Min 3 22 500/1000 1000 472 1140 Min 3 500 32.5 500/1400 500 1400 472 2200 Min 3 55 600/1200 1200 566 1400 Min 3 49 600 600/1500 600 1500 566 2200 Min 3 65 800/1600 1600 800 770 200 Min 3 90 760 800/2000 800 2000 2800 Min 3 125





Responsible &

ECO friendly solutions

Pollu-plug Anti-Pollution Stopper 50PAP) was developed in the interest of environmental protection to contain any accidental pollution. Permanently installed in the upper part of pipes thanks to their patented system, they are easily deployable manually or by remote control, such as any phones or fire alarm systems.

Benefits

- Permanent installation without flow disturbances
- Immediate sealing
- Complete security
- Chemical compatibility to most chemical waste
- Rapid installation

Applications

- Stops toxic or liquid spills in the sewage system
- Blocks water used by firefighters
- Important for environmental security

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OPAP	Ømm	Width-Empty mm	Length-Empty mm	Pressure (bar)	Connection
OPAP 150	150	230	550	12	1⁄4"
OPAP 200	200	300	550	12	1/"
OPAP 250	250	380	600	12	1/"
OPAP 300	300	450	700	12	1/"
PAP 400	400	600	800	12	1/"
OPAP 500	500	750	1000	12	1/"
OPAP 600	600	900	1200	1	1/"
OPAP 700	700	1050	1400	0.8	³ /4"
OPAP 800	800	1200	1600	0.6	³ /4"
OPAP 1000	1000	1550	2050	0.4	3/" /4





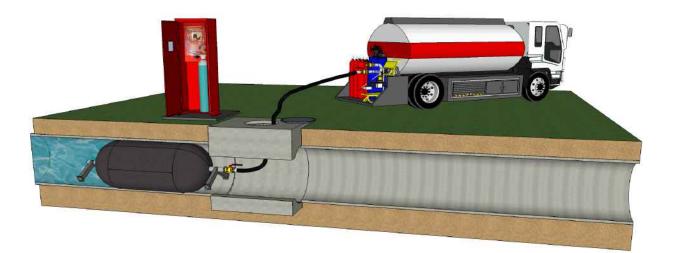
Remote cabinet: Manual or semi-automatic control panel are made following needs. Fed by compressed air or nitrogen bottles



Particularly suitable for environmental protection, the PRONAL OFR anti-pollution stopper can deliver a high-speed and impeccable seal over diameters ranging from 1000 mm to 2115mm.

OFR inflatable anti-pollution stoppers are designed to remain permanently in the line concerned, in order to ensure immediate stoppage in case of accidental pollution. Positioned in the central axis of the line using the support provided, the OFR is designed for lines of large diameter.

The stopper is connected by a hose to a control cabinet, which is arranged close to the manhole. The stopper can be actuated manually from the cabinet, or by means of a remote electrical control. The stopper can also be actuated by a pH probe or fire alarm.



In case of pollution, the stopper inflates and acts as a valve for the retention of pollutants, which can then be pumped away or diverted to a retention tank. Any risk of pollution is eliminated accordingly. A polythene bag protects the stopper when not inflated. The inflation pressure will be determined according to the diameter of the line concerned.

Designed for the conservation and protection of the environment, the main advantages of the PRONAL OFR anti-pollution stopper are:

- its very fast action,
- its permanent installation,
- its high resistance to wear and to certain pollutants,
- · the option for manufacture to specific outlines
- no major civil engineering works.
- · collecting the polluant and evacuation



High pressure stopper series "OHP & OPV"

OHP & OPV" stoppers can be used for the closure of lines of all types (concrete, steel, HDPE, stainless steel, etc.). This range of stoppers allows the execution of leak-tightness controls, and the conduct of operational maintenance, both onshore & offshore. These solutions can also be used for the flotation of jackets or pipes. They can also be applied for the execution of weld tests, repairs, or the replacement of valves in pipes.

OHP inflatable stoppers offer numerous advantages, including a wide range of diameters, perfect leak-tightness, ease of insertion in the line concerned, rapid inflation and deployment, high resistance to wear, a minimum safety factor of 3, resistance to a counterpressure of up to 25 bar, depending upon the application in question, or more, subject to a preliminary design analysis. Stoppers are manufactured from an elastomer-coated fabric, vacuum-vulcanized in an autoclave.





Sanitary Pipe Plugs

Small Sanitary Dimentions – PLUGY Z AND PLUGSY S

Savatech plugs of smaller diameters PLUGY Z and PLUGSY S can be used in all types of pipelines. Since these plugs are not reinforced with cord, they exhibit excellent stretching and sealing characteristics in pipe diameters from 20 mm up to 305 mm. Plugs are equipped with a car tyre inflation valve and can be inflated with a standard tyre pump. An eyebolt with a chain and a specially designed handle simplify manipulation of the plug.





LONG PLUGS – PLUGY DC

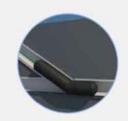
The construction of Savatech multi-size long plugs PLUGY DC ensures efficient sealing of both connection and the main pipe at the same time. Savatech PLUGY DC is equipped with a 100 cm long supply hose.





INSERT THE PLUG IN THE MIDDLE OF A CONNECTION

IN THE FIRST PHASE, THE UPPER PLUG PART IS INFLATED TO PREVENT LIQUID SPILLS



IN THE SECOND PHASE, THE REMAINING PART OF THE PLUG IS INFLATED TO COMPLETELY STOP THE FLOW

GAS PLUGS - PLUGY G AND PLUGSY GM

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





Accessory: connection hoses



ECO friendly solutions

Specific application plugs

HIGH-PRESSURE PLUGS - PLUGY HP 6 BAR, 12 BAR AND 30 BAR

Savatech PLUGY HP plugs are specially reinforced plugs suitable for sealing of pipes with extremely high back pressures



LARGER FLOW PLUGS - PLUGSY VP

Savatech multi-size plugs with a larger bypass PLUGSY VP cover the ranges from 100 mm up to 1800 mm. A replaceable rubber sleeve is reinforced with aramid cord and ensures safe and simple handling. Plugs are available in three different designs, depending on the conditions and bypass requirements.



MANHOLE PLUGS - PLUGSY VJ

Savatech PLUGSY VJ for manhole tightness testing are short and light, equipped with three eyebolts for a simple vertical insertion of a plug.





Safety products

Extinguishing water tank

Today, the **effective management and conservation of water resources** is a major economic and environmental issue. PRONAL flexible tanks represent an ideal solution for the straightforward provision of a temporary or long-term water storage facility.

Applications for the PRONAL enclosed flexible tank include on-site water storage, the provision of an **extinguishing water reserve**, the **recovery of rainwater**, industrial or agricultural cleaning, the provision of a reserve for drilling water, the supply of ponds or swimming pools, the cleaning of vehicles, **irrigation and sprinkling** of green spaces, etc..

The **flexible reservoir** is manufactured from an elastomer or plastomer material, depending upon the application concerned. It provides a reliable, cost-effective, eco-friendly and durable solution. **Reservoirs are available in capacities ranging from 1m3 to 1000m3**, with an option for tailor-made construction.



Open-topped storage tank OPENTANK

Flexible tanks of the "onion" type can be effectively deployed in emergency situations. In comparison with closed flexible tanks, open-topped onion tanks offer the advantages of rapid filling from the top and full interior cleaning. Applications for the PRONAL open-topped flexible tank include the storage of fire extinguishing water, use as a decantation basin, or as a buffer storage facility for chemical effluents prior to treatment. Lightweight and flexible, these tanks are easily transported from one site to another.

Open-topped **flexible tanks** range in capacity from 1m3 to 20m3, with an option for tailor-made manufacture.



SMARTSHORE - Shoring of trenches

During the conduct of trenching or excavation works on site, it is essential to ensure the safety of operators. As works of this type involve risks of collapse and burial, Article R4534-24 of the French Code of Labour requires that vertical-walled trenches of depth exceeding 1.30m should be shored or braced.

SMARTSHORE[®], a shoring system developed by PRONAL, reinforces the walls of trenches and ensures the complete safety of operations. This new technology replaces the use of conventional shoring, which is cumbersome to handle and install, particularly for trenches of limited depth.

TheSMARTSHORE® system involves a twin-walled rubber-coated construction, finished by hot vulcanization, and the inflatable shields are resistant to impacts, abrasion and tearing.

The design of inflatable shields and their accessories allows the system to be installed horizontally or vertically, while guaranteeing the maximum level of safety. In case of landslip, the only use of struts

(obligatory) will allow the system to retain earth for several minutes thereby allowing the operator to climb out of the trench in complete safety. For safety reasons, cushions cannot be linked to each other.

Thanks to the low weight of inflatable shields (13kg), the SMARTSHORE® system can be installed in 20 minutes, and requires no lifting gear. Given the low weight and limited footprint of the inflatable shields, this shoring system can be easily transported from one site to another in a light vehicle.





MAGNETISCHE AFSLUITER voor RIOLEN

Een eenvoudig, licht en herbruikbaar product om te voorkomen dat schadelijke vloeistoffen in afvoeren en riolen lopen.

Deze magnetische film klampt zich vast aan alle stalen of ijzeren oppervlakken. Zeer efficiënt wanneer aangebracht op egale oppervlakken. Hoe hoger de hydrostatische druk van de gelekte vloeistoffen hoe beter de gehechtheid en afsluiting. De magnetiche afsluiter is flexibel, bestand tegen olie-gerelateerde producten, verdunde zuren en logen. Efficiëntie verminderd indien de af te sluiten afvoer zich niet op dezelfde hoogte als het wegdek bevindt.

Voordelen: herbruikbaar licht, makkelijk onderhoud en lage prijs.

Kenmerken: Isotrope magnetische film met permanente agnetischeigenschappen. Max. druk 52 g/cm². Werkings temperatuur -20 tot 80°C

Het is aangeraden de magnetische afsluiter bij kamer temperatuur te bewaren met de muurgemonteerdehouder. Deze laat een snelle plaatsing toe bij noodgevallen

Alvorens plaatsing het af te sluiten oppervlak ontdoen van vuil en stof. De aanbevolen overlapping van de afsluiter over de rand van de afvoer bedraagt 5-10 cm. Aanhechting verbetert naamate de waterdruk stijgt.

Specificaties

ТҮРЕ	Afmetingen (mm)	Verpakt (mm)	Gewicht (kg)	Houder
RUB 000067 Magnetische rioo	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 + houder	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	









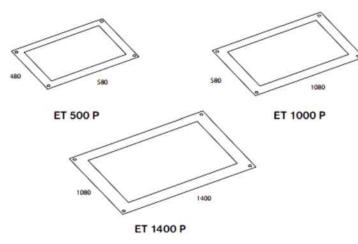
Foldable Drip Tray with exchangable absorbent lining

Folding drip collection tray with exchangeable absorbent lining Here is the answer to problems such as minor leaks of water, petroleum products and hazardous fluids, a perfectly simple but ingenious product.

This folding drip tray with its exchangeable absorbent lining can be used, for example, for handling parts soiled by oil, in chemical laboratories, on dripping pipes or leaking hydraulic transmissions on broken down machines or vehicles.

The drip tray is made out of PVC which is proof against the effects of petroleum products and is also equipped with a mesh to filter out solid waste particles, plus an exchangeable absorbent lining.

The specification of the absorbent lining required will depend on the type of fluid to be contained in it: all-purpose, water repellent, chemical proof, etc.





Туре	ЕТ 500Р	ET 1000P	ET 1400P
Dimensions (mm)	580 x 480	1080 x 580	1400 x 1080
Absorption capacity (I)	1	3	7
Weight (kg)	0,5	1,5	2,8
Accesories			
All-purpose lining (mm)	500x400	1000x500	1400x1000
Water repellent lining (mm)	500x400	1000x500	1400x1000
Chemical proof lining (mm)	500x400	1000x500	1400x1000

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Pulse Valves



The MAC Pulse Valve series is designed to be a direct drop-in replacement for existing pulse technology. The MAC solution utilizes a long life, bonded-spool design, instead of the traditional diaphragm style. MAC also uses a balanced pilot valve that isolates the solenoid from airline contamination. Available with integral solenoid pilot as well as bleed pilot configurations.

Direct Drop-In

The MAC Pulse Valve is available with various adapter options. These adapter options allow the MAC valve to directly replace the diaphragm technology with our bonded spool technology without disturbing plumbing. The MAC bleed configuration works with existing remotely located solenoids.

Harsh Environment Compatible

An aluminium die-cast body, nitrile seals and an environmentally protected solenoid are standard features. Viton seals are also available for extreme temperature environments and chemical resistance.

Maintenance

Lower cost of ownership through reduction in downtime due to high reliability. When necessary, maintenance is simplified with available spool kits.

MAC Design Advantages

- · High Flow / Long Life / Low Leak / Balanced Spool Design
- Drop-in Mounting without disturbing existing piping
- · Fast /repeatable responsible times for quick and accurate purges
- · Optimized for reliable performance in harsh environmental conditions
- Bonded spool technologies, self-cleaning bore = avoiding diaphragm leakage to reduce compressor energy cost.

Industry specific features

Wide range of seals (Nitrile, Viton and proprietary compounds Environmentally sealed for wash down environments Remote bleed and integral solenoid pilot available

Ask LDA for customer profit reinforcement (CPR) calculation in order to prove your cost reductions!



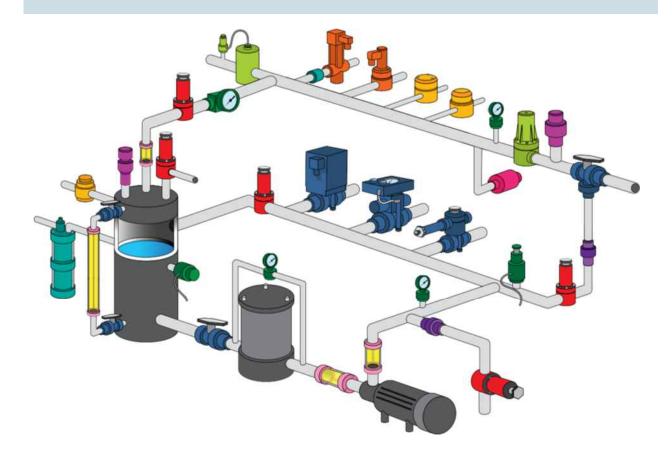


Wastewater

QUALITY ENGINEERED THERMOPLASTIC VALVES + CONTROLS FOR CHEMICAL, WATER/WASTEWATER, & ULTRA-PURE LIQUIDS

Water/Wastewater Treatment systems rely on Plast-O-Matic products for pump protection and system efficiency, chemical injection, exacting pressure and flow control, air release, degassing and vacuum venting, pulsation dampening, and antisiphon protection.

Plast-O-Matic Valves are designed for the ultimate performance in purity, corrosion resistance, reliability and longevity...four critical factors in any water/wastewater treatment system.



Body Material: PVC, CPVC, PVDF, PP, PTFE, PPO, FKM, EPDM, BUNA-N, AFLAS®, FFKM, EPOCAP, UV Stabilized Body Materials

Product Range

Ball Valves, manual, solenoid& servo Check valves Gauge guards Pressure Regulators Relief & Backpressure Valves Bypass & Anti-Siphin Valves Shut-off & Diverter Valves Sight Glass & Level indicators Solenoid Valves Venting Valves & Vacuum Breakers Miscellaneous Process Control & Pumps

Product Portfolio Wastewater

Electric and pneumatic ball valves Solenoid valves for chemical injection Pressure control/by-pass valves Degassing and Air release valves Check valves

Innovations

Characterized balls for precise flow control either electrically or pneumatically

De-gassing and air release valves for optimum process conditions

Teflon bellows solenoid valves rated for one million cycle capability



Thermatron Industrial Insulation

ECO friendly solutions

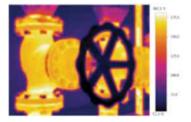




Key strength

- Easy to install and remove,
- Provides high energy efficiency.
- Custom build = 100% correct fit
 - Moisture resistant

Key benefits





Energy:

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

Environment:

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

<u>Safety:</u>

- Safety and health at work: OHSAS 18001
- Reduction of industrial heat exposures: Directive /654/EEC 30/11/1989

Features:

Dynamic and flexible:

Because of the use of hook and loop fasteners and Velcro, Thermatron insulation is flexible and easy to install and remove. This requires less time to manipulate the insulation, leading to less maintenance costs. Thermatron uses an innovative technology in the field of industrial insulation, making it easy to insulate all kinds of applications. The various types of insulation blankets use the latest in insulation technology, and are suitable for the different temperature ranges.

Save costs while investing in a higher safety!

An investment in Thermatron insulation is typically paid back within 12 months, as a result of the lower energy consumption. Thermatron insulation also reduces the exhaust of CO2, and creates an extra safety against corrosion, as such prolonging the lifespan of your installation. Thermatron insulation also helps improving the work environment for your staff by lowering the temperature in maintenance rooms of heating installations and in confined spaces. This is not only better for your staff, but also for other equipment that is placed close to your heating equipment.

Materials and the manufacturing process

The materials and coatings used for Thermatron insulation are selected according to the different needs of the industries and applications in which they will be used. As such, Thermatron can guarantee a very effective isolation, adapted to the different work environments. Because of the Velcro and rope fasteners, Thermatron insulation is easily reusable. As required in some industries,







Thermatron Industrial Insula-





Personalized and customized products

Next to standard products, Thermatron can make specific insulation equipment at the request of the customer. Possible adaptations are a choice between various materials and colors, and personalized identification cards. The identification cards can contain product references, customer contact information, production dates, and many other options such as material references.

Technical features:

E-Glass fiber glass fabric.

Low thermal conductivity because of the E-Glass insulation blankets, DIN53811, filament diameter 7-13 microns.

Para-Amid sewing threads with stainless steel load (38% Twaron, 62% Steel: 1.4404).

High temperature, fire retardant Velcro.

Glass fabric E-Glass strings for easy assembly and installation adjustments.

Technical coating for carious temperature ranges and working environments.

Sound absorbing materials and completely asbestos free. According to REACH regulations DIN4102.

Applications		
Heat insulation Cold insulation Sound insulation Temperature ranges		
Basic range: Medium range: Superior range: Extra high range: Types of insu	-50°C to 150°C -50°C to 250°C -50°C to 300°C -50°C to 550°C	
 2 and 3-way valves T-pipes Short and long elbows Flanges and matting Strainers Y Check valves Condensat purges 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 	









The Landon Kingsway range of free-fall fire valves provide a compact, leak-proof positive action mechanism that can be installed in either horizontal or vertical pipe runs on oil or any non-aggressive media.

The free-fall linkage allows the weight to start to fall before it is required to move the valve lever. This makes sure that the weight achieves sufficient momentum.

Screw Type Fire Valve Sets

Technical Specification

- · Material Cast Iron, painted red.
- Maximum Pressure 14 Bar (200psi)
- Standard Cable 9m
- Fusible Link 71°C as standard
- Maintenance Reqd. test & lubricate 3 times/year
- Valve Rotation 90° (1/4 turn)
- Lubricant 4",5",6" valves: Type 44 under 4" valves: Type 90
- Flange Spec BS4504, PN16
- Screwed Spec BSP parallel
- Weights Available 2.25, 4.5, 6.8kg (5, 10, 15lb)



Free Fall Fire Valve Accessories

Fusible Links

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

Fire Valve Parts

Replacement Kit containing our most popular components.

Manual Quick Release Mechanisms

The Manual Quick Release Mechanism is designed for use with our free-fall fire valves. The steel cable from the valve is looped around the pulley and is released if the button is pressed allowing the valve arm to fall.









Detect-A-Fire - Heat & Fire detectors



The World Standard in Mechanical Heat Detectors

DETECT-A-FIRE ® detector is 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 range hoods to large power generation systems, from engine compartments to schools, factories and offices, the D-A-F® detector is on guard, controlling the release of extinguishants such as clean agents, CO2, water or dry chemicals.

They also can be used as an ALARM device to sense overheat or fire and alert personnel. Rate compensation provides a unique advantage of activation at a pre-determined danger point, whether it is a slow fire or a fast fire.

The **D-A-F**® detector is the first such device with Rate Compensation, meaning it can reliably react to a slow fire or a fast fire – alarming at a precisely pre-determined danger point. Thousands of these detectors are in use controlling the release of extinguishants such as clean agents, CO2 water or dry chemicals. In some systems, the **D-A-F**® detector is used as an ALARM device to sense overheat or fire and alert personnel. You'll find Fenwal **D-A-F**® detectors at work in a wide range of services from your local Gas Station to Offshore Oil & Gas Platforms, from Off-Road Heavy Equipment to Chemical Plants, from Engine Compartments to Commercial, Industrial and Public Facilities, from Range Hoods to Paint Spray Booths, from Engine Compartments to Marine Services. Our engineers can assist you with the knowhow to select the best **D-A-F**® detector for your needs, or to upgrade existing installations.





Listing & Approvals UL / cUL / FM approved/ Atex

Special executions

Teflon protection sleeve for aggressive environments

Features

- Hermetically Sealed
- Tamper Proof
- Pre-set Temperatures
- Shock and Vibration Resistant

Technical specification

- · Horizontal Six Fixed Settings from 140 to 325°F
- Vertical Mount 12 Fixed Settings from 140 to 725°F
- Single Pole Single Throw (SPST)
 - Open or Close on Temperature Rise





Energy saving module for valves

Pulse width modulation (PWM) is a technique in which a series of digital pulses is used to control an analog circuit. The length and frequency of these pulses determines the total power delivered to the circuit. PWM signals are most commonly used to control solenoid valves and have many other applications ranging from controlling motors or pumps to adjusting the brightness of an LED.



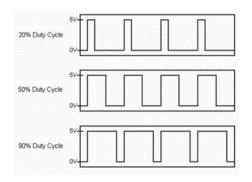
ESH2DC-B75



ESH2DC-C75

Specifications

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





We look forward to your application.

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