



Valves & Actuators

VALVEWERKZ
(Formerly Known As ValveWorks)

EBRO ARMATUREN

BELL SEAL
VALVES
private limited

Masoneilan
a Baker Hughes business

HKC
Valve Automation

APV[®]
SPXFLOW[®]

ZOOK

RITAG[®]
Armaturenwerk

HY

Consolidated
a Baker Hughes business

MIZUP

CSE[®]

Z-Tide Valve

VENN

S&W

SKY[®]

DANIEL

Instruments & Pumps

eltherm[®]

rotork[®]
YTC

ifm

WOODWARD

Leistritz
PUMP TECHNOLOGY

Masoneilan
a Baker Hughes business

IMI Norgren

Parker

schneider

Valve Repair & Reconditioning | Pump & Heat Exchanger Servicing



LESER
Authorized Repair Center
Leistritz
Authorized Service Workshop

APV[®]
SPXFLOW[®]

Masoneilan
a Baker Hughes business

WOODWARD

EBRO ARMATUREN

Valve
Automation

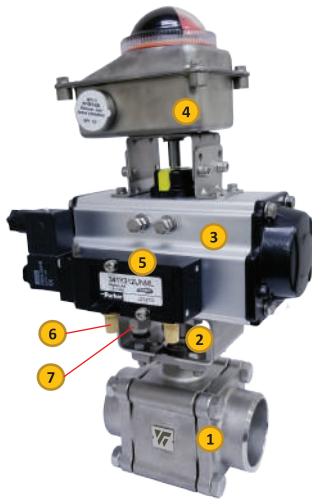
Plate Heat
Exchanger

Electrical
Heat Tracing

Valve
Servicing

Pump
Servicing

Ball Valves



VALVEWERKZ High Performance Ball Valve with ON/OFF control and feedback

- 1 VALVEWERKZ High Performance Ball Valve**
Model: 80.300, reduced bore, CS/SS316 body, SS316 ball, 25% Carbon filled PTFE seat, butt-weld ends
- 2 Mounting Bracket and Adapter**
Material: Stainless Steel
- 3 HKC Double-Acting or Single-Acting Actuator**
Model: HP-D/S, 2.5 to 8 barg air supply, 90°+/-5°
- 4 HKC Limit Switch Box**
Model: APL-210N (H2O), aluminium casing, IP67, M20 cable entry
- 5 Norgen Solenoid Valve**
Model: VCB22, Namur-type, 5/2-way or 3/2-way, G 1/4", 24 Vdc
- 6 Silencer**
Material: Brass, G 1/4"
- 7 Air Fitting (Push-In)**
Material: Brass, 6mm/8mm-OD, G 1/4"



Brand: **VALVEWERKZ**
Model: **10.100**
Design: 1PC, RB

Body: SS316
Ball: SS316
Seat: **PTFE**

Conn.: BSP
Rating: 800WOG



Brand: **VALVEWERKZ**
Model: **20.100**
Design: 2PC, FB

Body: SS316
Ball: SS316
Seat: **TFM1600**

Conn.: BSP
Rating: 1000WOG



Brand: **VALVEWERKZ**
Model: **50.100/200/300**
Design: 3PC, FB

Body: SS316
Ball: SS316
Seat: **TFM1600**,
25% Carbon filled PTFE,
50% SS filled PTFE
Conn.: BSP/SW/BW
Rating: PN50/64



Brand: **VALVEWERKZ**
Model: **90.100/200/300**
Design: 3PC, FB,
ISO Direct-Mounting
Body: SS316
Ball: SS316
Seat: **TFM1600**,
25% Carbon filled PTFE,
50% SS filled PTFE
Conn.: BSP/SW/BW
Rating: PN50/64



Brand: **VALVEWERKZ**
Model: **80.100/200/300**
Design: 3PC, RB / FB / V-Port
ISO Mounting
Body: WCB/SS316
Ball: SS316
Seat: **25% Carbon filled PTFE**,
50% SS filled PTFE,
PEEK
Conn.: BSP/SW/BW
Rating: PN16/50/64/100



Brand: **VALVEWERKZ**
Model: **203 (AU/AD/AJ), 90S**
Design: 2PC, FB,
ISO Direct-Mounting
Body: WCB/SS304/SS316
Ball: SS316
Seat: **TFM1600**,
25% Carbon filled PTFE,
50% SS filled PTFE
Conn.: Flanged End
Rating: ANSI 150 / PN16 / JIS-10K



Brand: **VALVEWERKZ**
Model: **38M**
Design: 3-Way, RB
ISO Direct-Mounting
Body: SS316
Ball: SS316
Seat: **TFM1600**

Conn.: BSP
Rating: 1000WOG

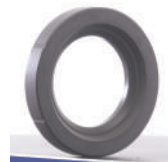


Brand: **VALVEWERKZ**
Model: **30M**
Design: 3-Way, FB
ISO Mounting
Body: CS/SS316
Ball: SS316
Seat: **TFM1600**,
25% Carbon filled PTFE,
50% SS filled PTFE
Conn.: Flanged End
Rating: ANSI 150 / PN16 / JIS-10K

Valve Seat Material Selection Guide



Material: **TFM 1600**
Colour: Pale White
Temp: -29 to 200 °C



Material: **50% SS filled PTFE**
Colour: Dark Grey
Temp: -10 to 280 °C



Material: **25% Carbon filled PTFE**
Colour: Black
Temp: -10 to 250 °C



Material: **PEEK**
Colour: Beige
Temp: -10 to 300 °C

High Purity Ball Valves (Pipe End / Tube End)



Brand: **MIZUP (TAIWAN)**
Model: **704LV**
Design: 3PC, ISO Mounting
- FB (Pipe End)
- RB (Tube End)

Body: SS316
Ball: SS316
Seat: **TFM1600**
Conn.: Pipe End / Tube End
Rating: PN50/64



Brand: **MIZUP (TAIWAN)**
Model: **904LV**
Design: 3PC, ISO-Direct Mounting
- FB (Pipe End)
- RB (Tube End)

Body: SS316
Ball: SS316
Seat: **TFM1600**
Conn.: Pipe End / Tube End
Rating: PN50/64, PN16



Brand: **MIZUP (TAIWAN)**
Model: **95K**
Design: 3PC, ISO-Direct Mounting
High Pressure, RB

Body: SS316
Ball: SS316
Seat: **TFM1600**
Conn.: Compression Fitting /
Tube End
Rating: 2000WOG



Brand: **MIZUP (TAIWAN)**
Model: **MP271 / MP2714**
Design: 2PC, Instrumentation

Body: SS316
Ball: SS316
Seat: **TFM1600**
Conn.: Compression Fitting /
Tube End
Rating: 1000PSI (69 Bar)



Brand: **MIZUP (TAIWAN)**
Model: **MP281 / MP282 / MP283**
Design: Mini Check Valve
Cracking Pressure 1/3 psi

Body: SS316 (Bar)
Ball: SS316 (Poppet)
Seat: **Viton**
Conn.: Compression Fitting /
BSP (Male / Female)
Rating: 2000PSI (138 Bar)

Instrumentation Valves

Butterfly Valves



Brand : **EBRO**
Model : Z011-A
Body : **CI / DI / CS / SS316**
Disc : **SS316**
Seat : **EPDM / NBR / HNBR / Viton**
Conn. : Wafer Type
Rating : PN16, ANSI 150, JIS-10K



Brand : **EBRO**
Model : Z014-A
Body : **DI / CS**
Disc : **SS316**
Seat : **EPDM / NBR / Viton**
Conn. : Lug Type
Rating : PN16, ANSI 150, JIS-10K



Brand : **EBRO**
Model : T211-A
Body : **DI / SS316**
Disc : Duplex-SS / with PTFE-coated **PTFE**
(w/ Silicon Elastomer Insert)
Conn. : Wafer Type
Rating : PN16, ANSI 150, JIS-10K



Brand : **EBRO / S&W / VALVEWERKZ**
Model : HP111 / High Performance
Body : **CS / SS316**
Disc : **SS316**
Seat : **RPTFE / Inconel / SS316**
Conn. : Wafer Type / Lug Type
Rating : PN16/25/40, ANSI 150/300, JIS-10K/20K



Design for Abrasive Media
Brand : **EBRO**
Model : Z011-GMX
Body : **Aluminium Alloy**
Disc : **SS316 / with GMX-coated GMX**
Conn. : Wafer Type
Rating : PN16, ANSI 150, JIS10K

Check Valves



Brand : **RITAG**
Model : SR20.40-ST / SR30.40
Design : Disco Check
Body : **FS / F316L**
Disc : **SS304 / F316L**
Seat : **Metal**
Conn. : Wafer Type
Rating : PN16/40



Brand : **RITAG**
Model : SR40.40 / SR50.40
Design : Disco Check
Body : **FS / F316L**
Disc : **SS304 / F316L**
Seat : **Metal**
Conn. : Wafer Type
Rating : ANSI 150/300



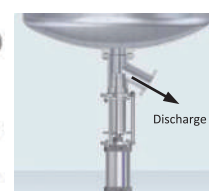
Brand : **VALVEWERKZ**
Model : -
Design : Dual Plate
Body : **CI / DI / SS304**
Disc : **SS304**
Seat : **EPDM**
Conn. : Wafer Type
Rating : PN16, ANSI 150



Brand : **VALVEWERKZ**
Model : -
Design : Swing Check
Body : **CS / SS304 / SS316**
Disc : **SS304 / SS316**
Seat : **Metal / Viton**
Conn. : Wafer Type
Rating : PN16, ANSI 150



Brand : **RITAG / BOS**
Model : **Cone-type (BA/BAS), Piston-type (BV/BVS)**
Design : Handwheel / Pneumatic Actuated
Body : **AISI 316Ti / SS316 / Duplex-SS**
Disc : **AISI 316Ti+Stellited / SS316+Stellited / Duplex-SS**
Seat : **AISI 316Ti+Stellited / SS316+Stellited / PTFE**
Conn. : **Flanged End, BW**
Rating : PN16/40, ANSI 150/300



Bellow Sealed Globe Valves



Brand : **VALVEWERKZ / BOS**
Design : Straight-Type / Y-Pattern
Guided-Plug, Free Rotating Plug
Body : **CI / CS / 316 / 316L / 317LMN / 904L**
Bellows : **AISI-321 / AISI-316Ti / Hastelloy C-276**
Seat : **WCB / SS / Hardfaced / Stellited 21**
Conn. : **Flanged End / BW**
Rating : PN16/40/160, ANSI 150/300/600/800



Brand : **VALVEWERKZ / VENN (JAPAN)**
Design : Closed Bonnet / Open Bonnet / Gastight Cap
Body : **CI / CS / SS316**
Disc : **SS316**
Seat : **SS316**
Conn. : **Flanged End / BSPT (JIS RC Screw)**
Rating : PN16 / PN40 / ANSI 150 / JIS-10FF



Brand : **Z-TIDE / VALVEWERKZ / VENN (JAPAN)**
Design : Pressure Reducing / Pressure Sustaining
Self-Acting Temperature Regulating
Body : **CI / CS / SS316**
Disc : **SS316**
Seat : **SS316**
Conn. : **Flanged End / BSPT (JIS RC Screw)**
Rating : PN16 / PN40 / ANSI 150 / JIS-10FF



Steam Traps



Brand : **VALVEWERKZ / VENN (JAPAN)**
Model : ST60 / ST61 / ST62 / ST63 / ST64, AD-18 / AK-5
Design : Ball Float / TD / Bimetallic /
Thermostatic (Capsule) / Inverted Bucket
Body : **CI / CS / SS316**
Disc : **SS316**
Seat : **SS316**
Conn. : **Flanged End / BSPT (JIS Rc-Screw)**
Rating : PN16 / PN40 / ANSI 150 / JIS-10FF

Strainers



Brand : **VALVEWERKZ / TL**
Model : ST, TL-38/39
Design : Y-Type, Bucket-Type
(Simplex/Duplex)
Body : **CI / CS / SS304, SS316**
Conn. : **Flanged End / BSPT**
Rating : PN16 / ANSI 150 / JIS-10K

Sight Glass



Brand : **VALVEWERKZ / TL**
Model : SG, TL-40/41
Design : Tempered Glass /
Borosilicate Glass
Body : **CS / SS304 / SS316**
Conn. : **Flanged End / BSPT**
Rating : PN16 / ANSI 150 / JIS-10K

Rupture Disks



Brand : **ZOOK**
 Type : **Metal / Graphite** Rupture Disk
 Design : **Reverse-Acting**
 Model : **RA-Series / FS-INVERTED**
 Material : SS316 / Inconel 600 / Hastelloy C-276 / **Graphite**



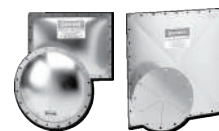
ZOOK
 Disk Holder
 Pre-Torque Holder
RAH-Series / FAH-Series
 SS316 / Hastelloy C-276



ZOOK
 Burst Sensors
 Integral (BI / ZENSOR),
 Re-usable (BA),
 One Time Use (RDI),
Magnetic Sensor (Z-Alert)



ZOOK
 Tell-Tale Indicator
 Pressure Gauge with
Excess Flow Valve
 Stainless Steel



ZOOK
 Explosion Vent Panel
 Flat / Domed
 CVF / CVP / CVIIF / CVIIP
 CS / Stainless Steel

Tank Protection System



Brand : **HY (KOREA)**
 Type : Pressure Vacuum Relief Valve (Breather Valve)
 Model : **WB12A/B**,
 WB15A/B (Pipe Away)
 Body : Aluminium / CS / SS304 / SS316
 Conn. : Flanged End
 Rating : PN10/16, ANSI 150, JIS-10K



HY (KOREA)
 Flame Arrester
WF21
 WF23 (Bi-Directional)
 Aluminium / CS / SS304 / SS316
 Flanged End
 PN10/16, ANSI 150, JIS-10K



HY (KOREA)
 N2 Blanketing
WNRS
 WNBS / WNBSL (Pilot)
 Aluminium / CS / **SS304** / SS316
 Flanged End
 PN10/16, ANSI 150, JIS-10K



HY (KOREA)
 Gauge Hatch
 (Full open 75° to 80°)
WG41
 WG40 (Emergency Vent)
 Aluminium / CS / SS304 / SS316
 Flanged End
 PN10/16, ANSI 150, JIS-10K



HY (KOREA)
 Emergency Vent Cover
WE30A/B
 WE35A
 Aluminium / CS / SS304 / SS316
 Flanged End
 PN10/16, ANSI 150, JIS-10K

Sanitary Valves, Fittings & Pipes (3A / ASME BPE / High Purity)



Brand : **CSE (Taiwan)**
 Type : Sanitary Butterfly Valve
 Design : 3A
 Operator : Handle (Pull/Gripper),
 Actuated
 Body : SS304 / SS316L
 Seat : EPDM / Silicon
 Conn. : Clamp End / Weld End



CSE (TAIWAN)
 Sanitary Divert Valve
 3A
 Handle /
 Actuated
 SS304 / SS316L
 EPDM / Silicon
 Clamp End / Weld End



CSE (TAIWAN)
 Sanitary Ball Valve
 3A
 Handle /
 Actuated
 SS304 / SS316L
 PTFE
 Clamp End / Weld End



CSE (TAIWAN)
 Dairy Tubes / Fittings
 3A / SMS
 -
 SS304 / SS316L
 -
 -



Brand : **VAPS**
 Model : **KAT-1000** / KAT-2000
 Design : Magnetic Operated
 Body : Aluminium
 Capacity : **250 liter/hr**, 660 liter/hr
 Inlet : 1/2" BSPT
 Outlet : **1/8"**, 1/2"
 Rating : PN10

PFA-Lined Valves, Pipes and Fittings



Brand : **SKY (KOREA)**
 Design : PFA-Lined
Ball Valve
 Body : CS / SS304 Lined
 Ball : SS304 Lined
 Seat : **PTFE**
 Conn. : Flanged End
 Rating : ANSI 150, PN16, JIS-10K



SKY (KOREA)
 PFA-Lined
Diaphragm Valve
 CS / SS304 Lined
 EPDM (Diaphragm)
PTFE
 Flanged End
 ANSI 150, PN16, JIS-10K



SKY (KOREA)
 PFA-Lined
Ball Check Valve
 CS / SS304 Lined
 PTFE
PTFE
 Flanged End
 ANSI 150, PN16, JIS-10K



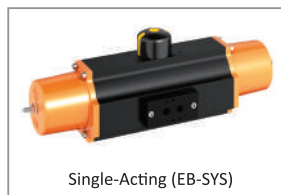
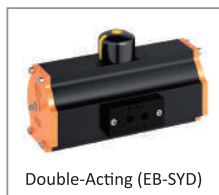
SKY (KOREA)
 PFA-Lined
Safety Relief Valve
 SS304 Lined
 PTFE (Plug)
PTFE
 Flanged End
 ANSI 150, PN16, JIS-10K



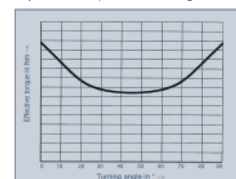
Brand : **SCHNEIDER**
 Model : Gauge Valve, U / O / L / I-Syphon
 Design : DIN 16270 (A) / DIN 16282 (B/D)
 Body : Forged Steel / Stainless Steel
 Packing : **PTFE** / Graphite
 Inlet x Outlet : G1/2"-Male x G1/2"-Female (Gauge Valve)
 G1/2"-Female x M20 Butt-welds (Syphon)
 Rating : PN400 (Gauge Valve) / PN160 (Syphon)

Actuators - Pneumatic & Electric

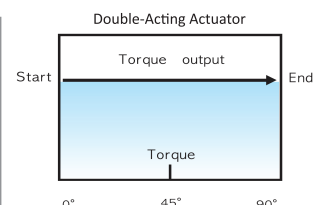
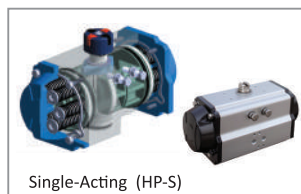
Brand : **EBRO ARMATUREN**
 Design : **Scotch-Yoke**
 Body : Aluminium
 Temperature : -20°C to +80°C
 Control Press : 2.5 to 8 barg
 Limit of Travel : 90 deg, -8/+3 deg



Torque Curve (Double-Acting Actuator)



Brand : **HKC**
 Design : **Rack & Pinion**
 Body : Aluminium
 Temperature : -20°C to +80°C
 Control Press : 2.5 to 8 barg
 Limit of Travel : 90 deg, +/- 5 deg



Brand : **HKC**
 Design : Electric Actuator
 Body : Aluminium Die-Casting
 Temperature : -20°C to +70°C
 Duty Cycle (ON/OFF) : S2, 30 Min
 Travel Angle : 90 deg, +/- 10 deg

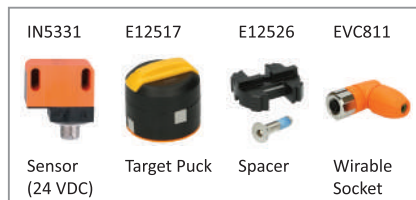


Limit Switch Boxes

Brand : **HKC**
 Model : APL-210N / **APL-910N**
 Body : Aluminium / **SS304**
 Temperature : -20°C to +80°C
 Cable Entries : 2 x 1/2" NPT
 Switches : 2 x SPDT (max. 4 SPDT)



Brand : **IFM**
 Model : IN5331 / NN5013
 Design : **Actuator Sensor**
 Body : BPT (Thermoplastic)
 Temperature : -252°C to +80°C
 Output : PNP/NPN, 2x NO



Solenoid Valves

Brand : **NORGREN**
 Model : VCB22C517A
 Body : Aluminium
 Temperature : -5°C to +70°C
 Port Size : G 1/4"
 Operating Pressure : 1.5 to 8 barg
 Supply Voltage : 24 VDC / 220 VAC



* Available in **Intrinsically Safe (Exia)**.

Air Filter Regulators (Airset)

Brand : **PARKER**
 Model : P31EA22EGMBNGP
 Body : Polycarbonate
 Filter Element : 5 Micron
 Port Size : G 1/4"
 Adjustable Pressure : 0 to 8 barg
 Drain Type : Manual Drain



* Available in **Auto Drain**.

Positioners (PP / EP)



Brand : **ROTORK (YTC)**
 Model : YT-1000R/L (Standard)
 Body : YT-3300R/L (Smart)
 Signal : 4-20mA Input / Output
 Body : Aluminium
 Conn. : G 1/4"



Model: **6034796**
(5/2-way)

4672800
(3/2-way)

Model: **PESL-1/4** (G 1/4")



Connection: **G 1/4"**



Speed Controllers

Silencers

Masoneilan 35002 Series Camflex™ II - Rotary Control Valve

Specification

Model	: 35-35212
Body	: Cast Steel / SS316
Body Rating	: Class 600#
Shaft	: Stainless Steel
Plug	: Solid Stellite (1"-2"), SS316L Hardfaced Stellite (3"-12")
Seat	: SS316 (replaceable)
Packing	: PTFE with Carbon Fiber
Flow Direction	: Flow-to-Close / Flow-to-Open
Handwheel	: Yes
Connection	: Flangeless, ANSI 150/300/600 or PN16/40 (universal)
Size	: 1"-12"
c/w	Spring Return Diaphragm Actuator, Fail-Close (FC) / Fail-Open (FO)
c/w	Masoneilan Smart E/P Positioner (SVI-1000), Self-Calibration , 4-20mA control with HART-Protocol, Weatherproof IP66 and NEMA 4X
c/w	Internal Copper Tubing, Airset with Gauge (Parker P31)

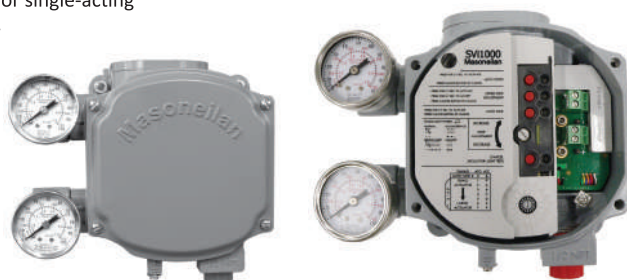


Masoneilan SVI-1000 Smart Positioner

SVI1000 is a user friendly 4-20mA digital valve positioner with HART® Protocol for single-acting pneumatic control valves with proven magnetic position measuring technology.

Features

- User friendly "One-button-one-function" local interface
- **Non-contact** magnetic-type travel sensor
- **Industrial Aluminium Housing**
- Universal design for linear and rotary valve applications
- Universal label with FM, FMC, ATEX, IEC, CE approvals
- HART communication-compliant
- Built-in isolated solid-state switches



Masoneilan 78 Series Air Filter Regulator

Specifications

Body	: Aluminium Die-Casting
Filter Element	: Sintered Porous Polyethylene (5μ)
Ambient Temperature Range	: -40° to +83°C (-40° to +182°F)
Air Consumption	: 0.004 scfm (100 sccm)
Inlet Pressure Rating	: 15 bar (210psi, 1.5 MPa), max.
Pressure Set Range	: Model: 78-4 , 5-40 psi (0.35-2.8 bar, 35-280 kPa), Model: 78-40 , 5-100 psi (0.35-7 bar, 35-700 kPa)
Connection	: 1/4" NPT



Consolidated™ Type 2700 Safety Valve

The Consolidated 2700 Series Safety Valve is designed to meet the needs of the Combined Cycle Gas Turbine (CCGT) segment.

Specifications

Inlet Sizes	: 1.5" (38 mm) through 6" (152 mm) in either flanged or weld neck design
Inlet Ratings	: ASME Class 600, 900 and 1500
Outlet Sizes	: 3" (76 mm) through 8" (203 mm) flanged
Outlet Ratings	: ASME Class 150 and 300
Orifice Sizes	: Seven sizes: 1 through Q
Temp Range	: -20°F (-28.9°C) to 1050°F (565.6°C)
Materials	: Alloy and carbon steel cast body with stainless steel trim (standard) special alloys are available for specific applications
Blowdown	: 4 percent
Back Pressure Limit	: 25 percent of set pressure

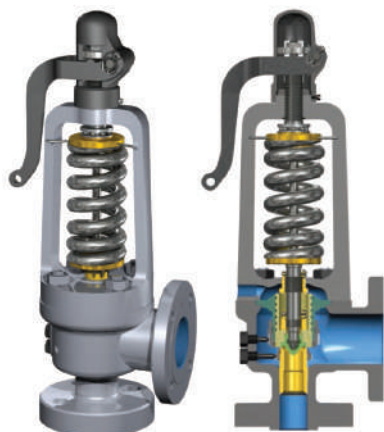


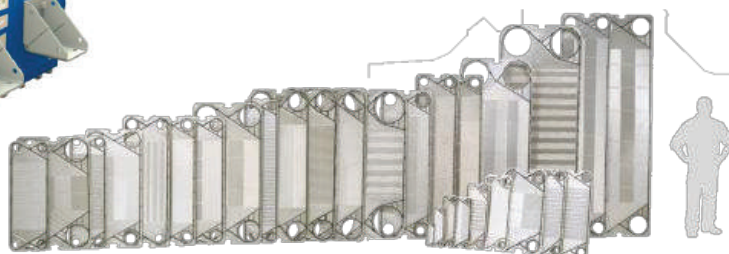
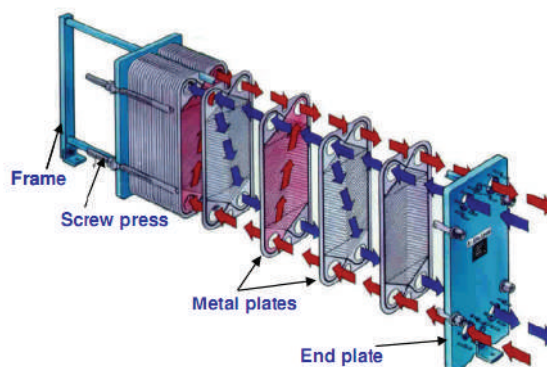
Plate Heat Exchanger (PHE)

Types

- **Gasketed Plate Heat Exchangers (Paraflow)**
The standard type for a wide range of sanitary and industrial liquid-to-liquid duties, including new designs like the FastFrame which eliminates tie bars for quicker servicing.
- **Semi-Welded (ParaWeld)**
Plates are welded in pairs, ideal for handling aggressive or corrosive fluids, while allowing for gasketed inspection channels.
- **Fully Welded (Hybrid)**
Designed for harsh conditions with high temperatures and pressures where gaskets may be a limitation. They offer a compact design and allow for mechanical cleaning on the tube side.

Applications

- **Chemical Processing**
Heating, cooling, and condensing of various fluids in chemical plants.
- **Power Generation**
Auxiliary cooling, heat recovery, and central cooling systems in power plants.
- **General Industrial Processes**
HVAC, marine applications, and more.
- **Oil & Gas**
Crude oil cooling, gas processing, and heat recovery.
- **Dairy, Food & Beverage**
Pasteurization, processing of dairy products (milk, yogurt), juices, and brewing applications.
- **Pharmaceuticals & Personal Care**
Applications requiring high hygiene standards and precise temperature control.



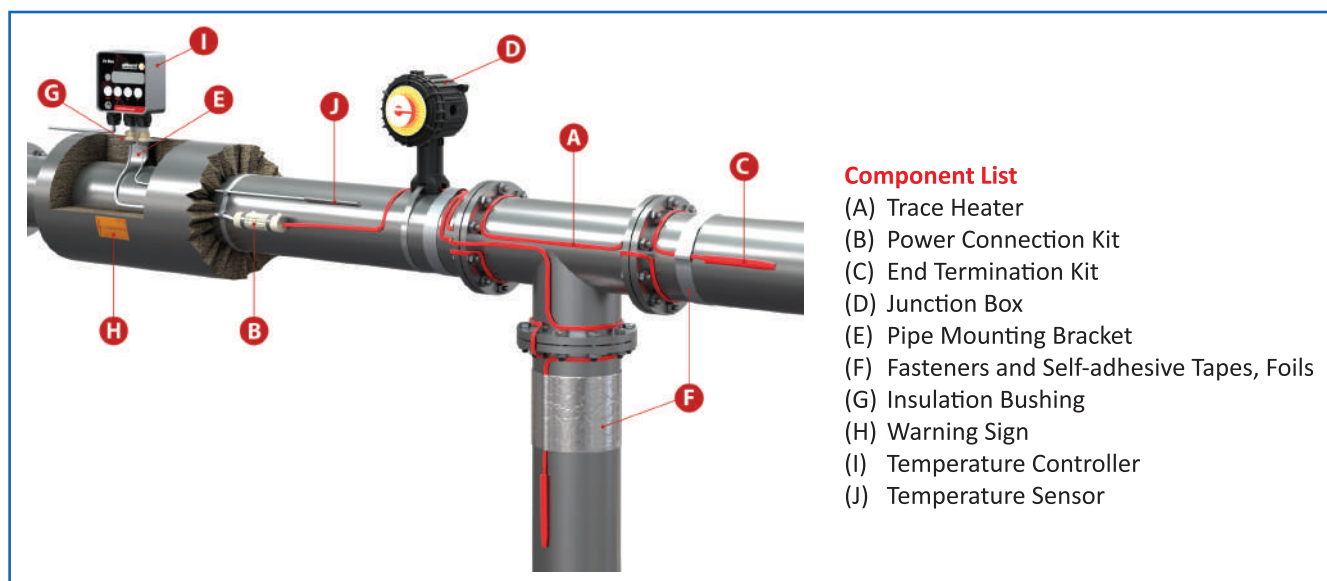
Electrical Heat Tracing

What is electrical Heat Tracing (eHT)?

- Wherever freeze protection or temperature maintenance is needed, **electrical heat tracing** can be used. It is operated with electricity and the heat is generated by the conversion. There is a wide range of applications of trace heating, most common in industrial and public areas.

Design of eHT

The requirements differ depending on the application and are always based on **customized specifications**. Thus, the focus is not on the individual product, but much more on the **individual design of an entire system**. That means: each electric heat tracing system is a **tailor-made solution according to your application**. The overview drawing illustrates which components can be used, for pipe heating (e.g. with ELSR).



Applications

- Pipelines
- Tanks and vessels
- Silos
- Tank containers
- Pumps
- Valves
- Open areas

Benefits

- Energy saving
- Safe operation
- Reduced maintenance effort
- Prevention of down-times
- Intelligent, proportional adaptation to ambient temperatures
- Efficiency and energy saving (up to 75%)
- Temperature stability & high control accuracy up to +/- 1°C
- Approved for use in hazardous (Ex) areas

Contact Us

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Our Industrial Presence

