

# **GENERAL**

# **BROCHURE**

2023 & 2024









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# GRINDING & LAPPING MACHINES FOR VALVES



**VALVA SERIES** For Flat Seats Globe Valve



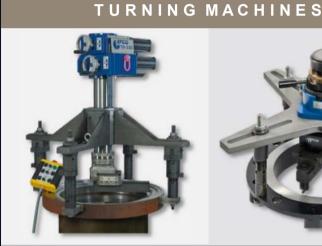
**VSK SERIES** For Conical Seats Globe Valve



SL SERIES For Gate Valves



**TSV SERIES** Safety or Relief Valves Repair Machine



**TD SERIES Portable Lathes Machine** 



**TDF SERIES Portable Flange Facers Machine** 



**ROTAGO Ball Valve Lapping Machine** 

### SAFETY VALVE & SHUT-OFF VALVE TEST BENCHES



PS-T10.03 **Portable Test Bench** 



PS-15M / PS-75M Portable Test Bench With Upper Gantry





# Certification & Documentation System

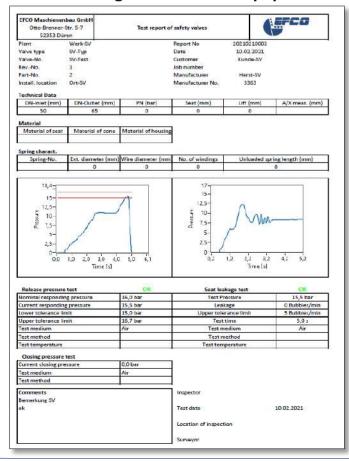


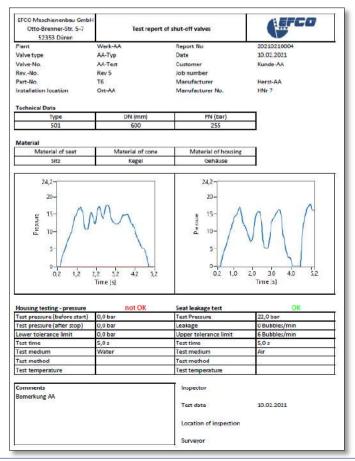
EFCO Valve Test Documentation System is designed according to the latest design software. It is Pre-installed and configured when delivered. The equipment comes with a heavy-duty carrying case, which allows it to be mobile and used anywhere on the site, linking to the EFCO Valve Test Benches.

This equipment are used to store data, and certificate info when performing;-

- 1) Pop Test and Seat Leakage Test for Safety Relief Valve.
- 2) Body Leakage Test and Seat Leakage Test for Shut-Off Valve or Control Valves

It is user-friendly, and test results can be saved on the laptop or printed out with the printer that comes together with the equipment.



















FLANGED DIAPHRAGM SEALS with Flush / Extended Diaphragm



FLANGED DIAPHRAGM SEALS
with Direct Diaphragm
Cleaning System



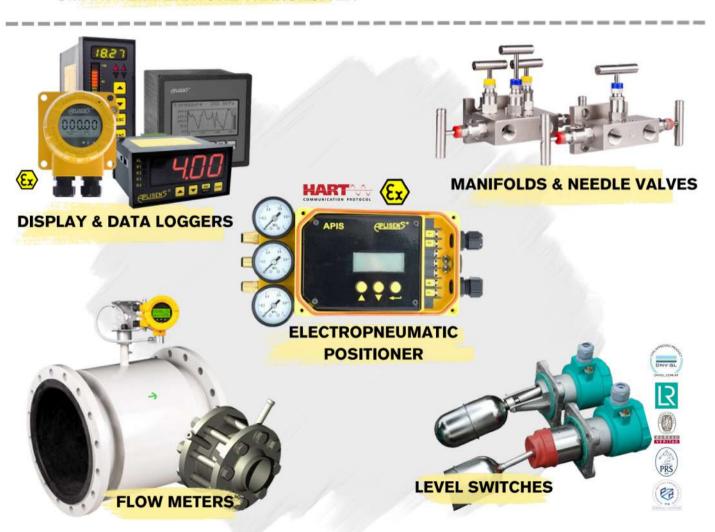




HEAD MOUNTED
SMART TEMPERATURE TRANSMITTER



SMART TEMPERATURE TRANSMITTER













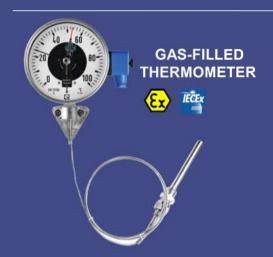


DIAPHRAGM
PRESSURE GAUGES

Ex ESSURE GAUGES

CAPSULE PRESSURE GAUGES

DIFFERENTIAL
PRESSURE GAUGE
with contact switch











- For corrosive, aggressive and viscous process media
- For clogging media
- For sanitary & hygienic applications
- For high temperature and pressure
- For special mounting positions



# MANODAMP® Mechanical axle damping

#### WHY MANODAMP®

- No problems with leaking of filling fluids
- Price advantage
- Simple maintenance
- Long-term usage in rough environment



**FLOWMETER** 



**FLOWMETER** 



PORTABLE CLAMP-ON ULTRASONIC FLOWMETER



PERMANENT CLAMP-ON ULTRASONIC FLOWMETER

**FLOWMETER** 



CORIOLIS MASS FLOWMETER



ANALYTICAL METER SENSOR & CONTROLLER

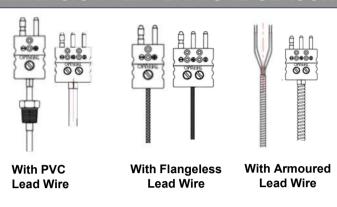
# THERMO ELECTRIC

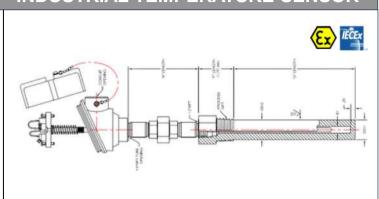


# RTD & THERMOCOUPLE

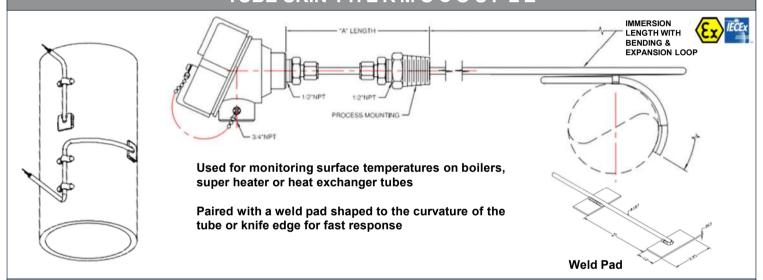
#### **IMMERSION TEMPERATURE SENSOR**

#### INDUSTRIAL TEMPERATURE SENSOR





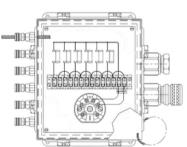
# TUBE SKIN THERMOCOUPLE



### **MULTIPOINT TEMPERATURE SENSOR**

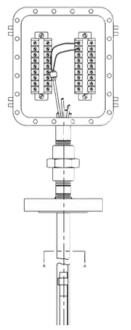
### **WAFER SENSORS**

# MULTIPOINT TEMPERATURE SENSOR



Used to monitor temperatures at various points with all thermocouples

Consist of a junction box suitable for terminating the thermocouples and joining them to cables running back





The Instrumented Wafer (Thermocouples, Bonded Wafer or RTDs) finds application in

knowing and controlling the temperature at The surface of a wafer is critical.





### Variable area flow meters



Classical, reliable & cost-effective. Used in all areas of industry.

Metal measuring tubes are perfect at high temperatures and pressures, a natural fit for the chemical industry.



### Flap-type flow meters



Reliable measurement units even for large volume flow

Used in water preparation systems, power plants, as controls In cobbling process and in systems for building and swimming pools



## **Bypass Flow meters**

available



### Piston-type flow meters



Used for the positionally independent measurement of water, oils or other liquids

Can be used in horizontal or vertical pipelines



# **Differential pressure** flow meters

- Wide range of connection variants
- calibrated for liquids or gases customer specifications
- Horizontal or vertical installation
- Variants: steel, stainless steel, brass
- Wear-free, no moving parts
- Optional differential pressure indicators/transmitters in differential variants





















Coriolis mass Flowmeter Series FMO

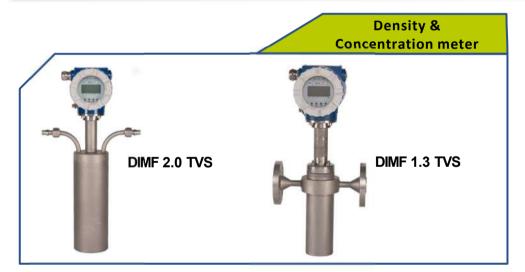
Coriolis Mass Flowmeter FMD

# Dosing & Filling System



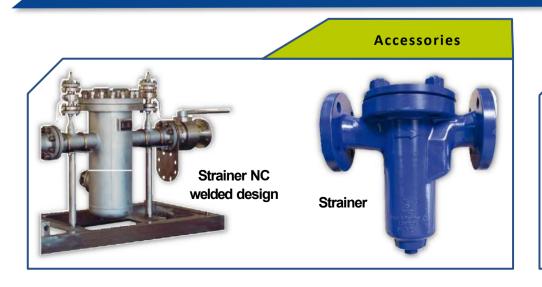
Small Magnetic Inductive Flowmeter

With Shortest Filling Time Above 0.1sec Accuracy ±0.5%



### Electromagnetic Flowmeter





### Centrifugal Gas Separator



Centrifugal Gas Separator Series ZGA





# **TDSS**

# TURBINE FLOWMETER

#### **SPECIFICATIONS**

- Liquid application
- Pulse NPN/ PNP, 4~20mA, 0~10 vdc
- PVC/ PP/ PVDF/ SS304/ SS316
- Enclosure: IP67/IP68



### **FTMF**

# THERMAL MASS FLOWMETER

#### **SPECIFICATIONS**

- Gas application
- 4~20mA, Pulse, ModBus,
- IP67/ Exd enclosure
- Turndown Ratio 100:1





# FATS / CTMD

# INSERTION TYPE THERMAL MASS FLOWMETER

#### **SPECIFICATIONS**

- Gas applications
- 4~20mA, 0~10vdc, Pulse
- Flow/Temperature & Pressure Measurement
- Enclosure: IP65/IP67/ATEX Zone
- 2 Turndown Ratio 100:1



# **WGAA**

# WET GAS AVERAGE PITOT TUBE FLOWMETER

#### **SPECIFICATIONS**

- Wet Gas application
- 4~20mA, Pulse HART, MODBUS RTU
- Bi-directional measurement
- 40 bar / 600°C
- Available for 2" ~100" line sizes



# **BOPT**

# AVERAGE PITOT TUBE FLOWMETER

#### **SPECIFICATIONS**

- Liquid/Gas/Steam application
- 4~20mA, Pulse HART, MODBUS RTU
- CS/ SS304/ SS316/ SS316L/ Titanium
- 320 bar/ 1200°C max.
- Pressure and Temperature Compensation





### FLOWMETER FOR SPRINKLERS SYSTEM







# LOW TO MEDIUM FLOWS







### MEDIUM TO HIGH FLOWS











fuel oil meters



VZD2, DN 4-8





**VZO/VZF, DN 15-50** 



F - Series

flow indicators & batching controls



DOMINO® flow meters & dosing units for chemical liquid





# **CONTINUOUS MEASUREMENT LEVEL TRANSMITTER**







# **PROCESS LEVEL SWITCH**











**Admittance** 

**Microwave** 





# MAGNETIC LEVEL GAUGE

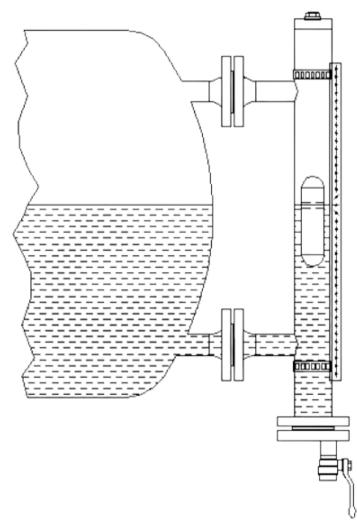












**ACCESSORIES** 

# LEVEL TRANSMITTERS OR SWITCHES









# MMS (Moisture Measuring Sensor) Universal sensor

- analogue measuring arrangement
- capacitive measuring principle

universal usage & easy installation



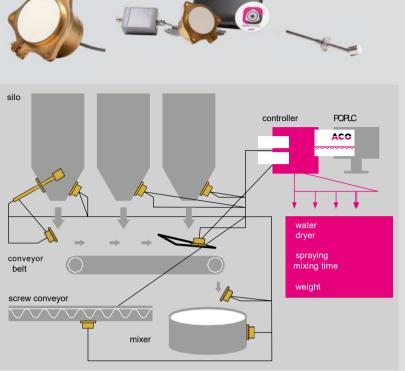


fig.: Feasible mounting positions of moisture measuring sensors

easy and precise Sensor integration

"The best sensor does no good if it has been placed in the wrong position."

# Integration kits The perfect solution

Our tailormade integration kits enable a feasible integration of the sensor within the process.



# SFM1 HACK Compaction unit

specially de signed for the determination of

A pneumatic cylinder sweeps the collected material, compacting coarse material onto the ACO moisture sensor.



to be mounted in a free fall situation, e.g. in a drop shaft.

Bulk good falls and is collected in a cup consisting of an ACO moisture measuring sensor. Moisture content is measured at the bottom of the cup.



# SFM4 Screw compaction unit

to be placed in a free fall situation of material

first section of the compaction unit and conveys it right across the installed ACO

under constant and equal conditions (density, dumping height, etc...).



# TFM1 Compaction unit

specially designed for the determination of the residual

Its hydraulic cylinder provides the compaction unit a longer life.





#### KOREA MOTOYAMA INC.



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#### Globe Valves

- Precise Control / Severe Service
- Best solution for throttling service in Oil, Gas, Petrochemical, etc.



#### **Angle Valves**

#### **Features**

- Viscosity, Resistance Fluid
- Control at High Differential Pressure, Slurry & Viscosity



#### Mixing / Divert 3-way Valves

#### Features

• Mixing & Diverting Service Fluid Control mutually to three directional pipings



#### Self-Acting Pressure Regulators

#### Performance

- Direct operated / Pilot operated.
- Easy setting / Fast action.
- Low-cost maintenance.

#### Specification

- Pressure-reducing type (P2 control)
- Back pressure/ Relief type (P1 control)
- Tank blanketing type.



#### Ball Valves

#### Feature

- Soft / Metal Seat
- Comply with API standards designed for pressure and vacuum service.

#### **V-Notch Ball Valves**

#### **Feature**

- · High rangeability
- Excellent proportional control
- Suitable for critical conditions in powders, slurry, gummy, fibrous material, and other fluids with special characteristics.



#### High Performance Butterfly Valves

#### **Feature**

- High flow, low pressure control
- High performance
- Triple Offset

#### Desuperheaters

#### **Feature**

- Venturi / Mechanical Nozzle / Variable Nozzle
- Precise Control of Steam Temperature for optimization
- Tailor-made design for each process Available in Carbon steel, Stainless Steel or Alloy steel materials



#### **Teflon Block Valves**

#### **Feature**

- Anti-corrosion
- Chemical Injection, Acid or Alkaline
- Compact design with multi-spring diaphragm actuator



#### Tank Bottom Flush Valves

#### **Feature**

- Convenient
- **Fast Draining**
- No pocket or dead area in the body







**Piston Actuators** 

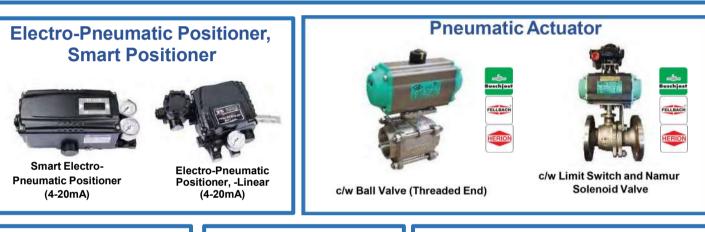
Diaphragm

Actuators

# VALVES, ACTUATORS & ACCESSORIES



















# MULTIFUNCTION CALIBRATORS

DIGITAL MULTIMETERS



PRESSURE CALIBRATION







CALIBRATION SOFTWARE

LAB DESIGN



**DECADE BOXES** 



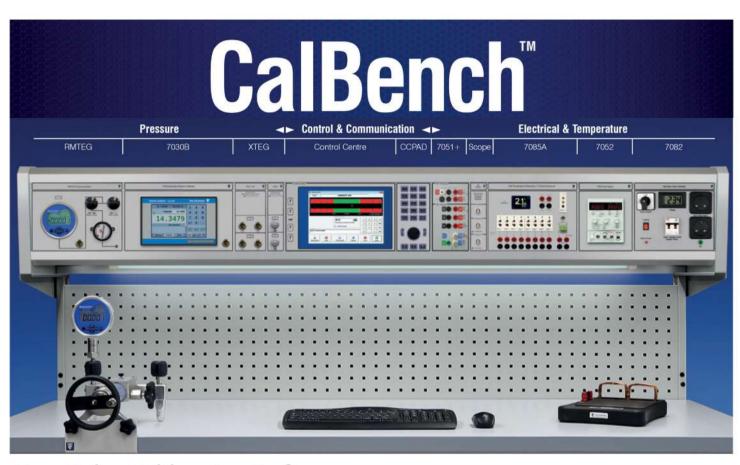
# PORTABLE ELECTRICAL & PROCESS CALIBRATORS











# EasyCal - Calibration Software















#### Automating the Calibration Process with EasyCal



send to owner



received & booked in

PRE-CALIBRATION



Unit is checked & workload is scheduled



Testing is done using a calibrator & EasyCal



are stored & printed

Certificate is issued & unit is returned

**CALIBRATION** 

**POST-CALIBRATION** 

# HOSES & **FITTINGS**



### INDUSTRIAL HOSE



# SPIRAL GUARD



Applicable Standard: EN ISO 10380

Diameter: 1/4 inch-12 inch

Temperature Range: -200°C to 700°C

Hose Material: Stainless Steel-A151,



### **HYDRAGUARD**

OD: 10mm—116mm

Length: 12m/20m/50m

Hose Material: High density



### HYDRAULIC FITTINGS



**One-Piece Pre-Crimped Hose Fitting** 



**Two-Piece Insert** & Ferrule



**Hydraulic Adaptors** 



DIN 2353 Type **Tube Fittings** 

# HOSES & FITTINGS







#### **GASSOFLEX**



Application : Petrol

Model No. : EN 13765:2010

### **COMPOSITE**



**Application : Chemical** 

Model No. : EN 13765:2010

# ZE GASSOFIERISHY DIERNIG LICH INSTA

Application : Cryogenic

Model No. : EN 13766:2010

Temperature : -50°C to 50°C (LPG)

-196°C to 50°C (LNG)



Application : Chemical

Model No. : EN 13765:2010

Temperature : -30°C to 240°C

# **CABLE GLANDS**





Standard Polyamide & Metal Cable Gland

VenGLAND® & VenPLUG (Cable glands with **Pressure Equalization**)





**EMC Cable Glands** (Electromagnetic compatibility)

EX / EX E **Cable Glands** 





**EX Accessories**, **Gaskets & Adaptors** 





























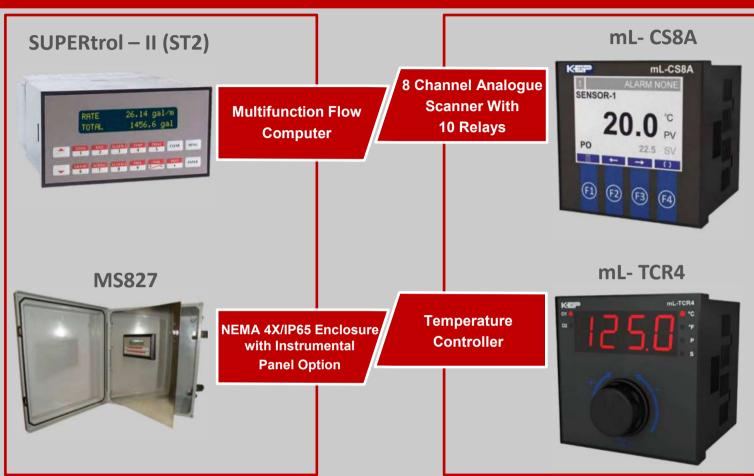














# CALIBRATORS, TEST BENCH & VALVE REPAIR MACHINE RENTAL



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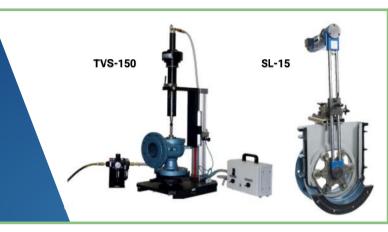
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# PORTABLE VALVE REPAIR MACHINE

#### **TYPE OF MACHINE**

- Safety Valve Repair Machine
- Globe Valve Conical Seat Repair Machine
- Gate Valve Repair Machine
- Check Valve Repair Machine
- Globe Valve Flat Seat Repair Machine
- Portable Lathe Machine



# **TEST BENCH**

#### **TYPE OF TEST BENCHES**

- > Safety Valve Test Bench using air and water
- Safety Valve Test Bench using air
- Manual Clamp Control Valve Test Bench using air and water



# **PORTABLE CALIBRATOR**

#### **TYPE OF CALIBRATOR**

- Pressure Pump
- Digital Gauge
- Dry Block Calibrator
- Multi Function Calibrator
- Electrical Calibrator Simulator
- Temperature reference probe



# CLAMP-ON ULTRASONIC FLOWMETER

#### TYPE OF CLAMP-ON FLOWMETER

- Portable Clamp-on Ultrasonic Flowmeter
- Permanent Clamp-on Ultrasonic Flowmeter for data-logging

#### PORTABLE INSTALLATION









# ON-SITE SERVICES



## **PIC Engineering**

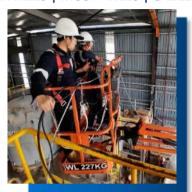
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#### PANEL ASSEMBLY & CABLE LAYING WORKS

PLC PANELS | MCC PANELS | CABLE & CABLE TRAY INSTALLATION







#### **CONTROL VALVE TESTING AND TROUBLESHOOTING**

GATE VALVE | GLOBE VALVE | BUTTERFLY VALVE | SAFETY RELIEF VALVE







**VALVE REPAIR** 

SEAT LEAKAGE | LAPPING | GRINDING | REPAINT







#### **LEVEL CALIBRATIONS**

NON-CONTACT | GUIDED WAVE RADAR | LEVEL GAUGE | DP LEVEL TRANSMITTER







# ON-SITE SERVICES



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#### **PRESSURE CALIBRATION**

PRESSURE GAUGE | PRESSURE TRANSMITTER | PRESSURE SWITCH







#### **TEMPERATURE CALIBRATION**

THERMOCOUPLE | RTD | THERMOMETERS







#### **FLOW VERIFICATION**

FLOW MEASUREMENT | FLOW VOLUME | DATA ANALYSIS







#### PROCESS INSTRUMENT CALIBRATION

