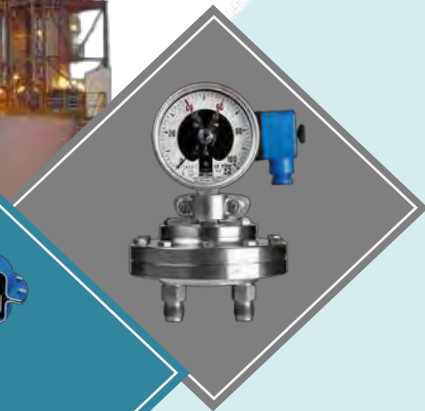




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GENERAL BROCHURE

2024 & 2025



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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

TURNING MACHINES



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



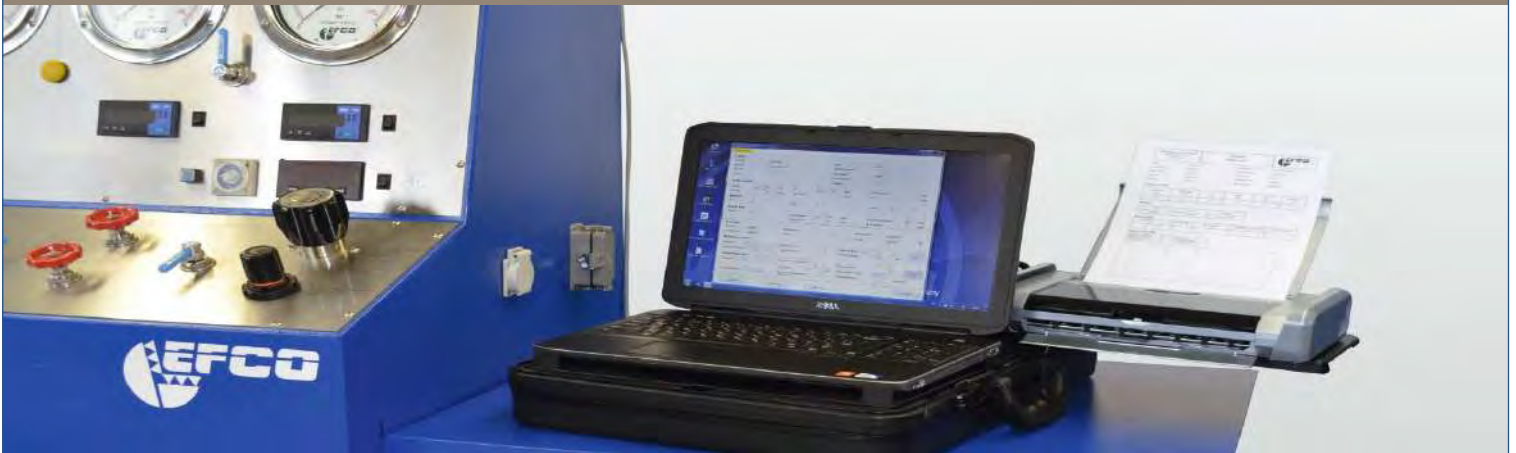
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Certification & Documentation System



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 is 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.

EFCO Maschinenbau GmbH Otto-Brenner-Str. 5-7 52353 Düren		Test report of safety valves			
Plant	Werk-SV	Report No.	20210210008		
Valve type	SV-Typ	Date	10.02.2021		
Valve-No.	SV-Test	Customer	Kunde-SV		
Rev.-No.	1	Job number			
Part-No.	2	Manufacturer	Harst-SV		
Install. location	Ort-SV	Manufacturer No.	3362		
Technical Data					
DN-Inlet (mm)	DN-Outlet (mm)	PN (bar)	Seat (mm)	Lift (mm)	A/X (mass. mm)
50	65	0	0	0	
Material					
Material of seat	Material of cone	Material of housing			
Spring charact.					
Spring-No.	Ext. diameter (mm)	Wire diameter (mm)	No. of windings	Unloaded spring length (mm)	
	0	0	0	0	
Release pressure test OK			Seat leakage test OK		
Nominal responding pressure	16,0 bar	Test Pressure	15,5 bar		
Current responding pressure	15,0 bar	Leakage	0 Bubbles/min		
Lower tolerance limit	15,0 bar	Upper tolerance limit	5 Bubbles/min		
Upper tolerance limit	16,7 bar	Test time	5,0 s		
Test medium	Air	Test medium	Air		
Test method		Test method			
Test temperature		Test temperature			
Closing pressure test					
Current closing pressure	0,0 bar				
Test medium	Air				
Test method					
Comments Bemerkung SV OK		Inspector			
		Test date	10.02.2021		
		Location of inspection			
		Surveyor			

EFCO Maschinenbau GmbH Otto-Brenner-Str. 5-7 52353 Düren		Test report of shut-off valves			
Plant	Werk-AA	Report No.	20210210004		
Valve type	AA-Typ	Date	10.02.2021		
Valve-No.	AA-Test	Customer	Kunde-AA		
Rev.-No.	Rev 5	Job number			
Part-No.	T6	Manufacturer	Harst-AA		
Installation location	Ort-AA	Manufacturer No.	HNr 7		
Technical Data					
Type	DN (mm)	PN (bar)			
SOL	600	255			
Material					
Material of seat	Material of cone	Material of housing			
Sitz	Kegel	Gehäuse			
Housing testing - pressure not OK			Seat leakage test OK		
Test pressure (before start)	0,0 bar	Test Pressure	22,0 bar		
Test pressure (after stop)	0,0 bar	Leakage	0 Bubbles/min		
Lower tolerance limit	0,0 bar	Upper tolerance limit	6 Bubbles/min		
Test time	5,0 s	Test time	5,0 s		
Test medium	Water	Test medium	Air		
Test method		Test method			
Test temperature		Test temperature			
Comments Bemerkung AA		Inspector			
		Test date	10.02.2021		
		Location of inspection			
		Surveyor			



up to 5 years warranty



SMART PRESSURE TRANSMITTER



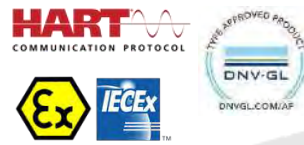
up to 5 years warranty



SMART DIFFERENTIAL PRESSURE TRANSMITTERS



SMART DIFFERENTIAL PRESSURE TRANSMITTERS with Diaphragm Seals



HYDROSTATIC LEVEL PROBE



FLANGED DIAPHRAGM SEALS with Flush / Extended Diaphragm



FLANGED DIAPHRAGM SEALS with Direct Diaphragm Cleaning System



TEMPERATURE SENSORS



SMART TEMPERATURE TRANSMITTER



HEAD MOUNTED SMART TEMPERATURE TRANSMITTER



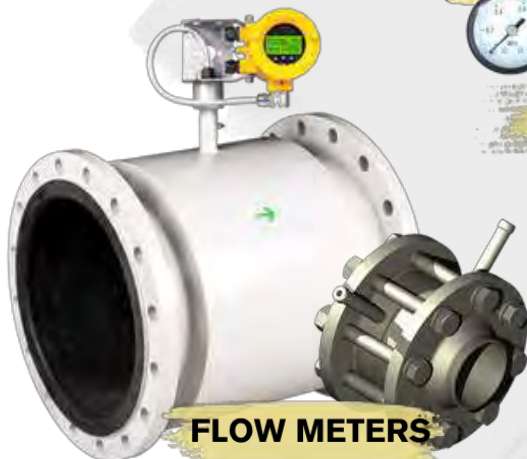
DISPLAY & DATA LOGGERS



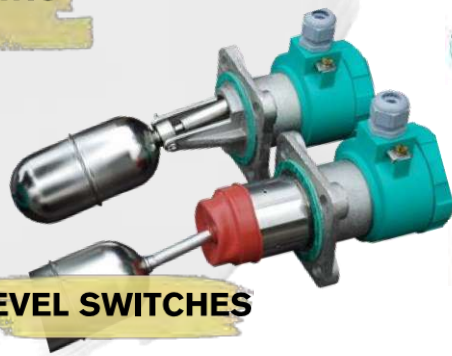
MANIFOLDS & NEEDLE VALVES



ELECTROPNEUMATIC POSITIONER



FLOW METERS



LEVEL SWITCHES





We will show you!

Schmierer
South East Asia



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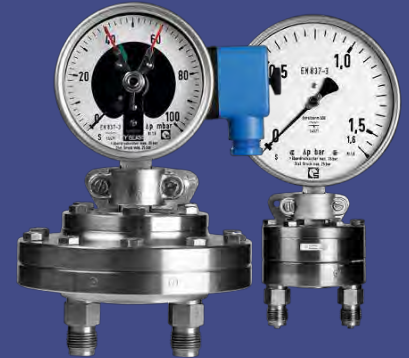
DIAPHRAGM
PRESSURE GAUGES



BOURDON TUBE
PRESSURE GAUGES



CAPSULE
PRESSURE GAUGES



DIFFERENTIAL
PRESSURE GAUGE
with contact switch



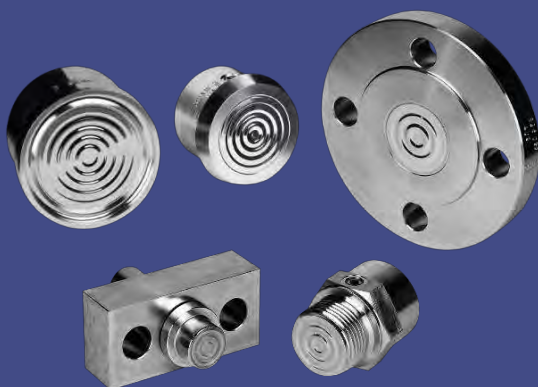
GAS-FILLED
THERMOMETER



BI-METALLIC
THERMOMETER



ACCESORIES



DIAPHRAGM SEALS

- 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



**ELECTROMAGNETIC
FLOWMETER**



**TURBINE
FLOWMETER**



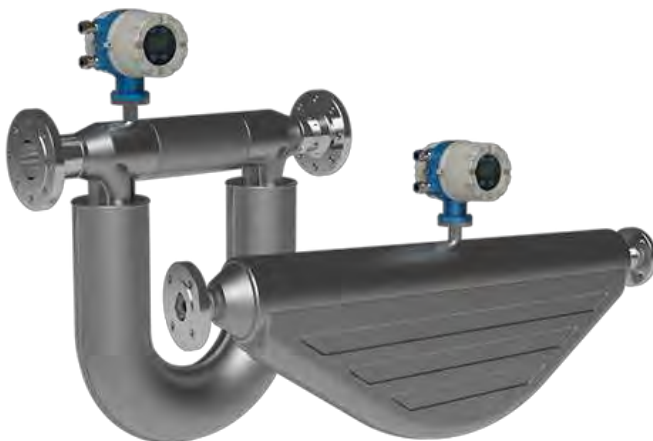
**VORTEX
FLOWMETER**



**PORTABLE CLAMP-ON
ULTRASONIC FLOWMETER**



**PERMANENT CLAMP-ON
ULTRASONIC FLOWMETER**



**CORIOLIS
MASS FLOWMETER**

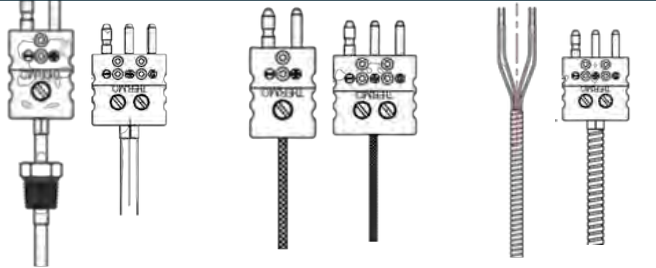


**ANALYTICAL METER
SENSOR & CONTROLLER**



RTD & THERMOCOUPLE

IMMERSION TEMPERATURE SENSOR

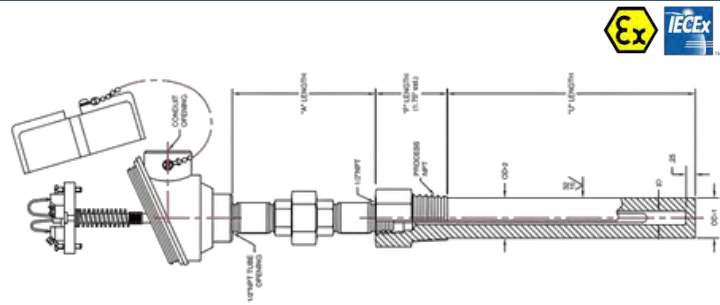


With PVC Lead Wire

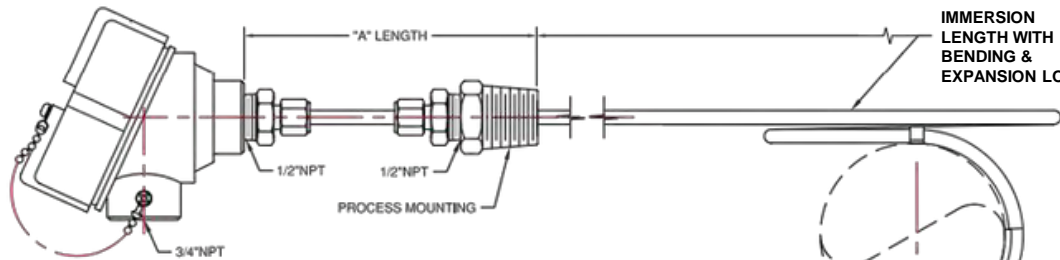
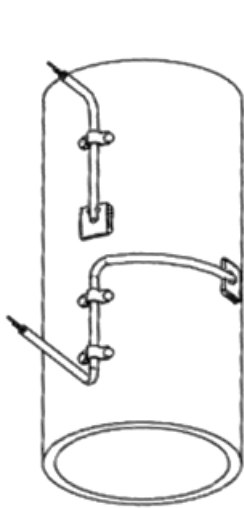
With Flangeless Lead Wire

With Armoured Lead Wire

INDUSTRIAL TEMPERATURE SENSOR

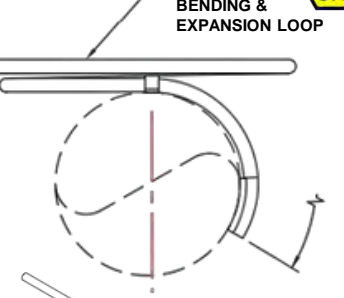


TUBE SKIN THERMOCOUPLE



Used for monitoring surface temperatures on boilers, super heater or heat exchanger tubes

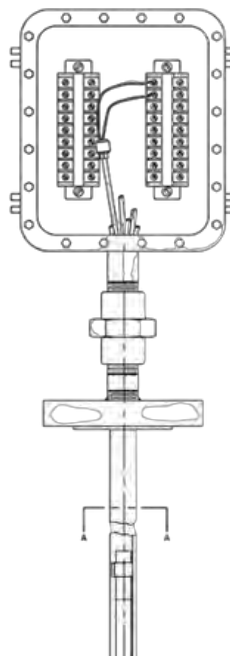
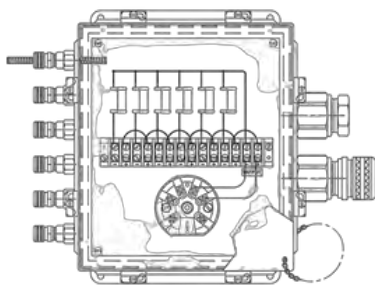
Paired with a weld pad shaped to the curvature of the tube or knife edge for fast response



Weld Pad

MULTIPOINT TEMPERATURE SENSOR

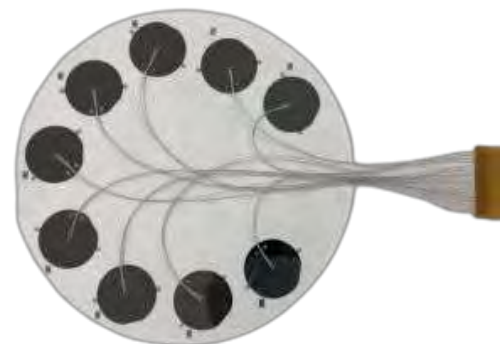
MULTIPOINT TEMPERATURE SENSOR



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

WAFER SENSORS



The Instrumented Wafer (Thermocouples, Bonded Wafer or RTDs) finds application in semiconductor processing equipment where 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



Cost-effective measurement for large nominal widths, frequently used in bath water systems

Measurement for liquid, gases, as well as bases and acids 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

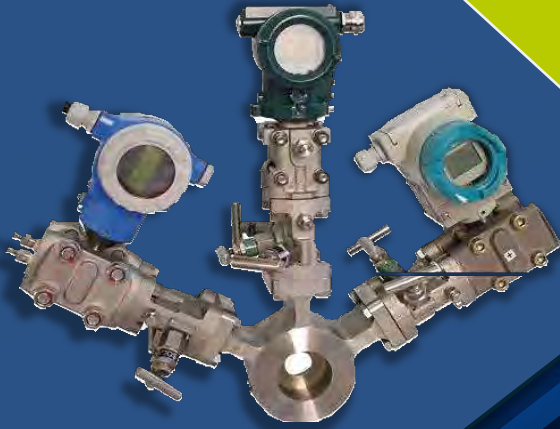


- Wide range of connection variants
- Calibrated for liquids or gases customer specifications
- Horizontal or vertical installation
- Variants: Steel, Stainless Steel & Brass
- Wear-free, no moving parts
- Optional differential pressure indicators/transmitters in differential variants





Compact Orifice



Triple compact orifice



OVAL WHEEL METER

® Type Flowol® Plus

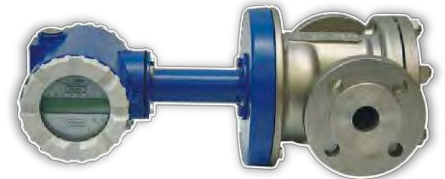
Flowol® Series
OR Plastic



Flowol® Series
OF



Type OI



Oval Wheel Meter
OI

Turbine Meter

RQ Series 1 with
Universal Smart
Transmitter (UST)



RQ Series 1
with
Universal
Smart
Transmitter
(UST)



Type OP



Oval Wheel Meter OP



Coriolis mass
Flowmeter
Series
FMO



Dosing Mass
Flowmeter
FMD

Dosing &
Filling System



Small Magnetic
Inductive Flowmeter
With Shortest Filling Time
Above 0.1sec
Accuracy $\pm 0.5\%$

Density &
Concentration meter



DIMF 2.0 TVS



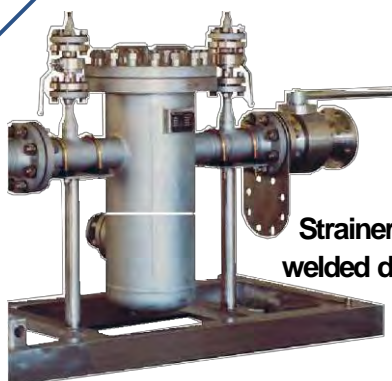
DIMF 1.3 TVS

Electromagnetic
Flowmeter



SPAN
SpiraMAG®

Accessories



Strainer NC
welded design



Strainer

Centrifugal Gas
Separator



Centrifugal Gas
Separator Series
ZGA

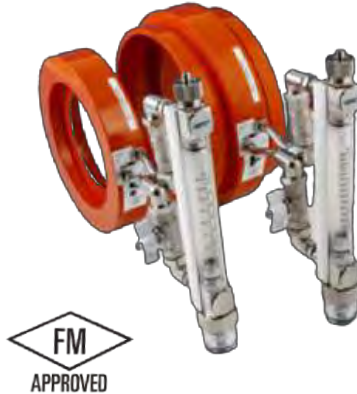


FLOWMETER FOR SPRINKLERS SYSTEM

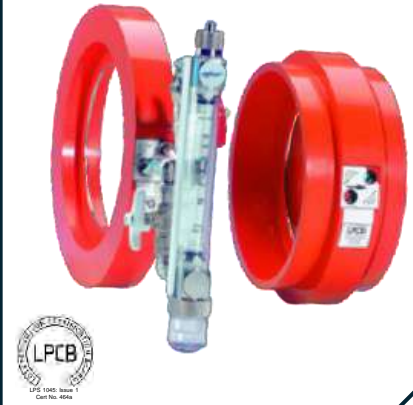
Firesure Duo FM & LPC



Firesure Type FM



Firesure Type LPC



LOW TO MEDIUM FLOWS

UNIFLUX



REFLUX



FLUXLINE



MEDIUM TO HIGH FLOWS

LPL



iMT



DELTAFLUX



CONTOIL®

fuel oil meters



DFM
BOARD-COMPUTER
(BC)



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

Non-Contact Radar



Guided Wave Radar



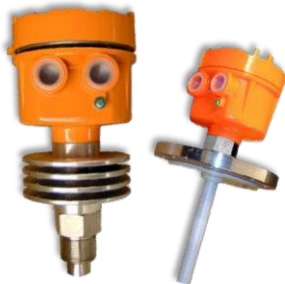
Ultrasonic



PROCESS LEVEL SWITCH



**Vibrating
(Solid/Liquid)**



Capacitance



Admittance



Microwave



Rotary Paddle

Waste



Oils



Water



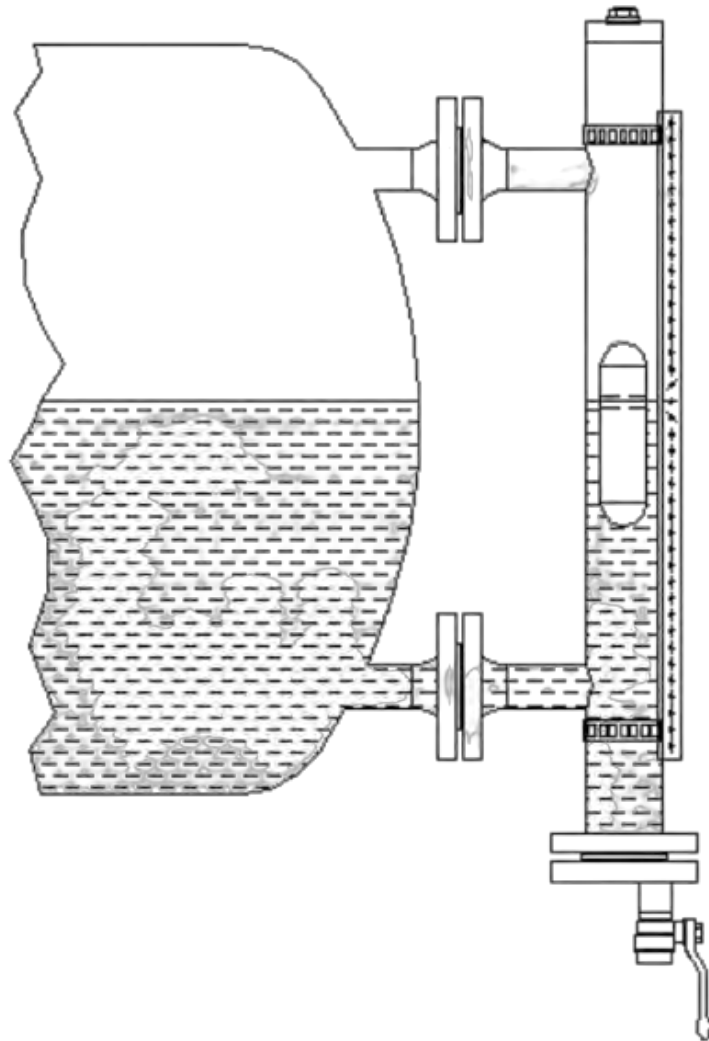
Chemicals



Slurry



MAGNETIC LEVEL GAUGE



ACCESSORIES

LEVEL TRANSMITTERS OR SWITCHES





GLOBE VALVES

FEATURES:

- 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 piping



SELF-ACTING PRESSURE REGULATORS

PERFORMANCE:

- Direct operation / 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

FEATURES:

- Soft / Metal seat
- Comply with API standards designed for pressure & vacuum service

V-NOTCH BALL VALVES

FEATURES

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



HIGH-PERFORMANCE BUTTERFLY VALVES

FEATURES:

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



TEFLON BLOCK VALVES

FEATURES:

- Anti-corrosion
- Chemical injection, acid or alkaline
- Compact design with multi-spring diaphragm actuator



DESUPERHEATERS

FEATURES:

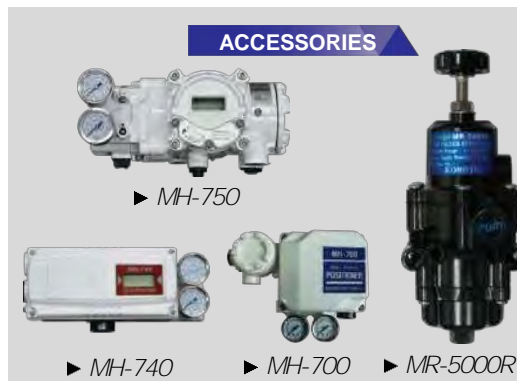
- Venturi / mechanical nozzle / variable nozzle
- Precise control of steam temperature optimization
- Tailor-made design for each process available in Carbon Steel, Stainless Steel, or Alloy Steel Materials



TANK BOTTOM FLUSH VALVES

FEATURES:

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



ACCESSORIES

▶ MH-750

▶ MH-740

▶ MH-700

▶ MR-5000R

ACTUATORS



Cylinder Actuators



Diaphragm Actuators

Piston Actuators

VALVES, ACTUATORS & ACCESSORIES



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Butterfly valve



Body CI, SS Disc, EPDM, Manual Lever



Body CI, SS Disc, EPDM Gear Box Operator



c/w Pneumatic Valve Namur Solenoid Valve



c/w Electrical Actuator

Electro-Pneumatic Positioner, Smart Positioner



Smart Electro-Pneumatic Positioner (4-20mA)



Electro-Pneumatic Positioner Linear (4-20mA)

Pneumatic Actuator



c/w Ball Valve (Threaded End)



c/w Limit Switch and Namur Solenoid Valve

Limit Switch



Pneumatic Actuator



Ball Valve



Flow Switch



2-Way Solenoid Valve – Water, Pneumatic, Hydraulic, Vacuum



FRL – Filter Regulator Lubricator (Pneumatic)



FRL-Filter Regulator and Lubricator (High Pressure) Water Meter



5/2, 3/2 Solenoid Valve, Type: Inline, Namur





MCS-XV-IS

Advanced Process Calibrator
INTRINSICALLY SAFE



- Operates all instrumentation
- Up to two pressure sensors
- From 250 mmH2O to 10,000psi
- Barometric Reference

- Full Hart
- Data logger function

- Touch Screen
- Intuitive menu
- Calibrator
- Operational mode
- Wi-Fi, Pen drive, Hart, USB connection Host / Device

MCS-XV

Advanced Process Calibrator



- Full hart configurator
- Profibus interface
- Advanced documenting feature
- Generates pass/Fail calibration
- Certificate with expanded uncertainty

PCON Kompessor-Y18

Automatic Pressure Calibrator



Automatic Pressure Calibrator



Contamination Trap-SI-1000 optional accessory



Kit Manifold optional accessory

DRY BLOCK

Dry Block Temperature Calibration





MMS (Moisture Measuring Sensor)
Universal sensor

- analogue measuring arrangement
- capacitive measuring principle



universal usage & easy installation

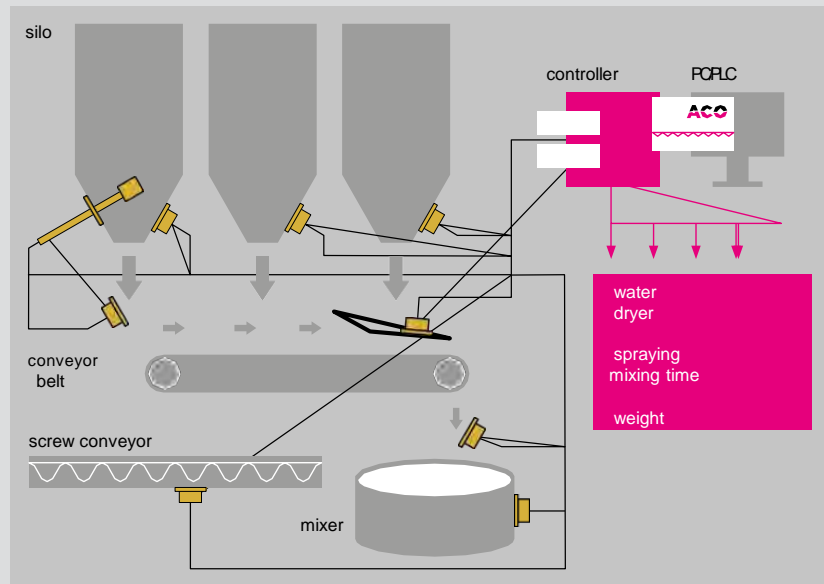


fig.: Feasible mounting positions of moisture measuring sensors

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 designed for the determination of fall

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

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...)



PN1 Sampler

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.



TFM1
Compaction unit

specially designed for the determination of the residual

Its hydraulic cylinder provides the compaction unit a longer life.





**MULTIFUNCTION
CALIBRATORS**

**DIGITAL
MULTIMETERS**



**PRESSURE
CALIBRATION**



**CALIBRATION
SOFTWARE**

LAB DESIGN



DECADE BOXES



**PORTABLE ELECTRICAL &
PROCESS CALIBRATORS**





Time Electronics
Calibration, Test and Measurement



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CalBench™

Pressure

Control & Communication

Electrical & Temperature

RMTEG

7030B

XTEG

Control Centre

CCPAD

7051+

Scope

7085A

7052

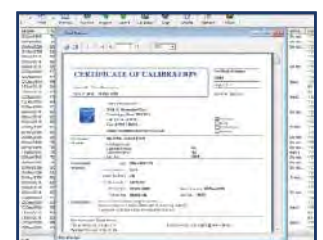
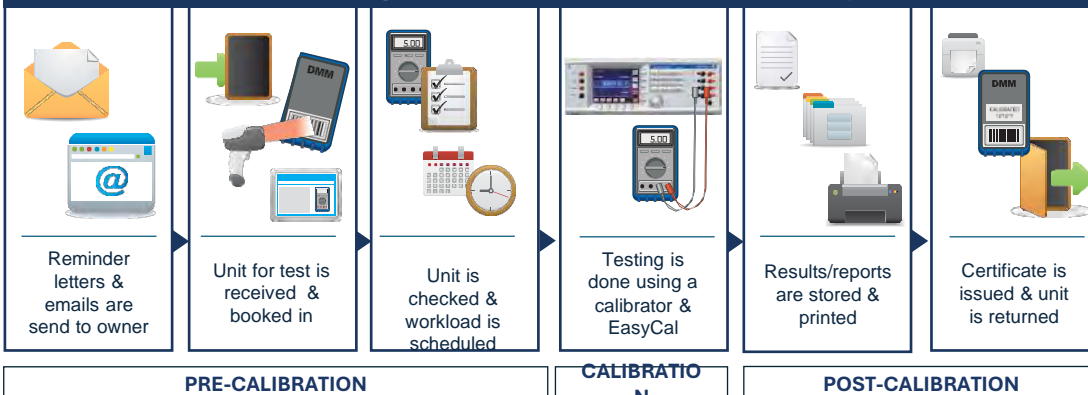
7082



EasyCal – Calibration Software



Automating the Calibration Process with EasyCal



HOSES & FITTINGS



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INDUSTRIAL HOSE



Air

Water Suction & Delivery

Bulk Material Delivery

Multipurpose

Welding

Sandblasting

Helix Suction

Ventilation Duct

Layflat

Compressed Air

Oil Delivery

Bulk Material Suction & Delivery

Steam

Radiator

Clear hose

Wire Spring

Exhaust Duct

Water Delivery

Oil Suction & Delivery

UHMWPE / XLPE
Chemical Suction & Delivery

Tank Cleaning

Dock

Fibre Reinforced

Air Duct

HYDRAULIC HOSE



STAINLESS STEEL-HOSE

Applicable Standard: EN ISO 10380

Diameter: 1/4 inch-12 inch

Temperature Range: -200°C to 700°C

Hose Material: Stainless Steel-A151,



SPIRAL GUARD HYDRAGUARD AUSTRALIA

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



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G GASSÓ
Made In Spain

INDUSTRIAL FITTINGS



GASSOFLEX



APPLICATION : Petrol
MODEL NO. : EN 13765:2010

COMPOSITE



APPLICATION : Chemical
MODEL NO. : EN 13765:2010



APPLICATION : Cryogenic
MODEL NO. : EN 13766:2010
TEMPERATURE : -50°C to 50°C (LPG)
-196°C to 50°C (LPG)



APPLICATION : Chemical
MODEL NO. : EN 13765:2010
TEMPERATURE : -50°C to 50°C (LPG)
-30°C to 240°C (LPG)

CABLE GLANDS



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**Standard Polyamide
& Metal Cable Gland**



**EMC Cable Glands
(Electromagnetic
compatibility)**

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




**EX / EX E
Cable Glands**









**EX Accessories,
Gaskets & Adaptors**



bimed



 INDUSTRIAL PRODUCTS	 EX-PROOF PRODUCTS	 VENTILATION SYSTEMS	 HYGIENIC PRODUCTS	 MEDICAL DEVICES
---	---	---	---	---

**HAWKKE
International**



**ARMoured
CABLE GLAND
For Hazardous Areas**



**FLAMEPROOF!
SAFETY**

APPROVED

NICKEL-PLATED
CABLE GLANDS





MEASURE THE DIFFERENCE



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SUPERtrol – II (ST2)



Multifunction flow Computer

8-Channel Analogue Scanner With 10 Relays

mL- CS8A



MS827



NEMA 4X/IP65 Enclosure with Instrumental Panel Option

Temperature Controller

mL- TCR4



INFILINK-HMI Software

Flow Computers & Field Indicators

Touchscreen HMI & IIoT Gateways



CALIBRATORS, TEST BENCH & VALVE REPAIR MACHINE RENTAL



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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



TVS-150

SL-15

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



DRY BLOCK
CALIBRATOR

PRESSURE
TEST PUMP

HART
COMMUNICATOR

CLAMP-ON ULTRASONIC FLOWMETER

TYPE OF CLAMP-ON FLOWMETER

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

PORTABLE INSTALLATION

PERMANENT INSTALLATION



ON-SITE SERVICES



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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

