



"Fluid under control"



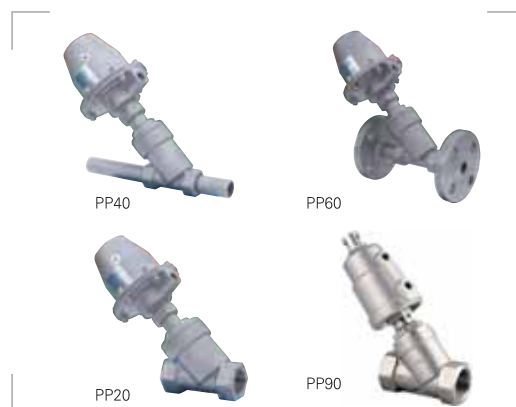
### PRODUCT SUMMARY

Control Valves & Accessories  
Measurement Control & Automation



## Pneumatic Angle Seat Piston Valves

PP Serie	: PP20, PP40, PP60, PP91, PP90
Type	: Pneumatic Angle Seat Piston Valve, On-off or proportional control
Dimension	: 1/2" - 2" G screwed, flanged, welding connection (on request NPT screwed)
Position	: Normally Closed (N.C.), Normally Open (N.O.)
Working Temperature	: -30 ... 180 °C
Max. Working Pressure	: 16 bar, vacuum lines
Body, Actuator Material	: Stainless Steel, AISI 316
Leakproofing Material	: Standard PTFE (optionally Viton or EPDM)
Recommended Air Pressure	: 6 bar
Air Supply Connection	: 1/4" G Screwed
Application Types	: Water, Air, Steam, Gas, Chemical Material, Petroleum Products, Nutrient, Vacuum etc.



## Pneumatic Rotary Type Actuators (RA Serie)

Single Acting / Double Acting / Three positioned



Body Material	: Aluminium extrusion, surface hardened aluminium coated, impregnated, epoxy painted.
Torque Rotational Moment	: DA Serie: Double Acting 9 Nm – 2900 Nm SR Serie: Spring Return 11 Nm – 1600 Nm
Shaft	: Steel (Nickel coated), Stainless Steel
Leakproofing material	: Nitrile rubber, -20 °C ... 80 °C (on request VITON)
Bearing Material	: Industrial Hardened Plastic
Control Style	: On-off and proportional control
Actuator/Valve Connection Standard	: ISO 5211
Solenoid Valve Connection Standard(3/2 or 5/2)	: NAMUR
Positioner and Limit Switch Box Connection Standard	: NAMUR
Air Supply	: 4-6 Bar
Application	: Butterfly and ball valves, dampers; on-off and proportional control

## Pneumatic Actuated Ball and Butterfly Valves

Serie	: RAV 900 Pneumatic Ball Valve RAV 800 Pneumatic Butterfly Valve
Ball Valve Connection	: Flanged, Screwed, Welded
Way	: 2-way ball valves, 3-way ball valves
Valve's Body Material	: Stainless Steel, Brass, Casted Iron, PVC
Dimension of Ball Valve	: 1/2" - 8" (NW I5-NW 200)
Ball Valve's Working Pressure	: PN 16, 25, 40 bar
Butterfly Valve Connection	: Wafer Type, Lug Type, Flange Type
Butterfly Valve's Working Pressure	: PN 6 – PN 16
Control Style	: On-Off or Proportional
Actuator Type	: Double Acting, Spring Return, Three positioned, 180° Rotational



## Limit Switch Box and Electro-Pneumatic Positioner



### Limit Switch Box LS10 Serie:

1) Mechanical 2) Proximity 3) Ex-proof Proximity Limit Switch Box
Application : Rotary Type Pneumatic Actuator, (D.A. or S.R.), used for butterfly, plug, ball valve's position monitoring and receiving an electrical signal. (Switch and Analog Output)
Connection : NAMUR

### TORK-EPR:

Rotary type Electro Pneumatic Actuators and Smart Types & Ex-Proof Types
Inlet : 4-20 mA, 3-15 psi
Air Pressure: 6 Bar
Application : Rotary pneumatic actuators with proportional control and actuated valves.
Note : Linear positioners also exist in our product range.

## Namur Solenoid Valve NM Serie (for on-off working of Pneumatic Actuators)

Serie : 1/4" - 5/2 one or two coiled Namur Type Solenoid Valve  
1/4" - 3/2 one coiled Namur Type Solenoid Valve  
Coil Voltage : 220 V, 110 V, 24 V, 12 V, AC/DC (IP 65 and Ex-Proof)

### Hand Control Unit TORK-MOR Serie

Torque Rotational Moment : 100 Nm, 450 Nm, 750 Nm, 1500 Nm, 3500 Nm, 5000 Nm, 7500 Nm  
Application : It is used for controlling the valve by hand especially in rotary type pneumatic actuated ball and butterfly valve applications.



## Electric Actuators and Electric Actuated Valves



### Electric Actuator:

Serie : REA Rotary Type Electric Actuator  
EAV 800 Electric Actuated Butterfly Valves (NW 40 ... NW 800)  
EAV 900 Electric Actuated Ball Valves (NW 15 ... NW 250)  
Application : Ball Valves, Butterfly Valves, Dampers  
Torque Rotational Moment: It changes between 60 Nm and 3000 Nm (12 different options)  
Voltage : 220 V AC, 380 V AC, 24 V AC/DC  
Temperature : -20 °C - 70 °C  
Flange Connection : ISO 5211 or DIN 3337 Standard  
Control : On-off or proportional control  
Accessories : Proportional Card, Limit Switch can be added, 4-20 mA output, Smart Type Electric Actuators, Spring Return Actuators.



## Pulse Solenoid Valves

### PL Serie (for dust filters with bag and bunkers)

Dimension : 3/4", 1", 1 1/2" ... 3"  
Body : Aluminium injection  
Diaphragm : Neoprene  
Working Pressure : 0.5 - 8 Bar  
Working Tem. : 0 °C - 80 °C  
Coil Voltage : 220 V, 110V, 24V, 12V, AC/DC  
Protection Class : IP 65 and on request Ex-proof Coil  
Time Relay : It is used for controlling PL serie solenoid valves.  
On-off time and outlet quantity must be declared before.



## General Purpose Solenoid Valves / Natural Gas Solenoid Valves and Gas Alarm Device/Filters

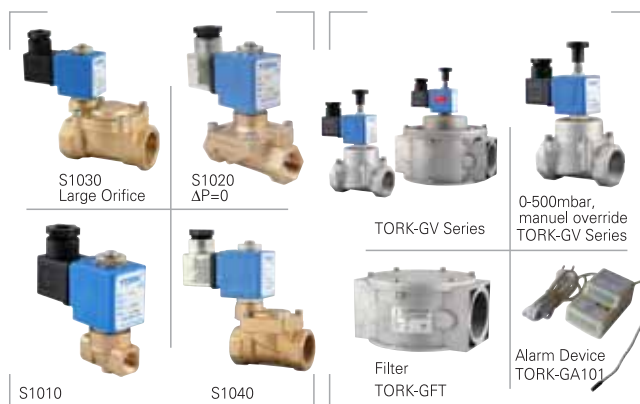
### S1010, S1020, S1030, S1040 Serie (For air, water, gas)

Dimension : 1/88", 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"  
Working Pressure : 0...16 / 0.5...16 / 0.5...40 bar  
Working Temperature : -10 / 80 °C  
Position : Normally Closed / Normally Open  
Coil Voltage : 220 V, 110 V, 24 V, 12 V, AC/DC  
Protection Class : IP 65 and on request Ex-proof Coil

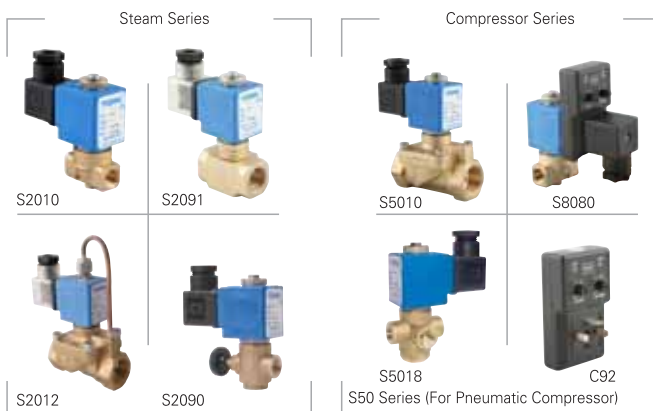
### TORK-GV Serie (For Natural Gas)

Dimension : 1/2" ... 2"; 220 V AC 50 Hz, 12 V DC  
Working Pressure : (0 ... 500 mbar)

**TORK-GA Serie: Gas Alarm Device:** It senses gas leakage and gives alarm. It turns off the valve and also gas supply line automatically.



## Steam and Compressor Solenoid Valves



### S20 Serie (For hot water and steam)

Dimension : 1/8", 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"  
 Working Pressure : 0-5 Bar, 0.5-5 Bar  
 Working Temperature: 160 °C  
 Position : Normally Closed / Normally Open  
 Coil Voltage : 220 V, 110 V, 24 V, 12 V, AC/DC

### S50 Serie (For compressor air with high pressure)

Dimension : 1/8" ..... 2"  
 Working Pressure : 0 ... 16 Bar, 0 ... 40 Bar

## Solenoid Valves with Stainless Steel and PVC Brass /Latching Solenoid Valves / Pinche Solenoid Valve



### S60 Serie

Dimension : 1/8", 1/4", 3/8", 1/2", 3/4", 1"  
 Coil Voltage : 220 V, 110 V, 24 V, 12 V, AC/DC  
 Brass : AISI 316  
 Working Pressure : Various Pressure Values between 0-100 Bar  
 Application Types : Corrosive Fluid, Water, Oil, Acid etc.

PVC Body Solenoid Valve



## Fuel oil Solenoid Valves / Irrigation Solenoid Valves / Fuel Oil Pump Solenoid Valves

### S40 Serie

: For fuel oil, gas, burner, diesel oil, and hydraulic oil)  
 Dimension : 1/8", 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"  
 Working Pressure : 0-30 Bar / 0.5 – 16 Bar  
 Working Temperature: 160 °C  
 Position : Normally Closed (N.C.) / Normally Open (N.O.)  
 Coil Voltage : 220 V, 110 V, 24 V, 12 V, AC/DC  
 IP 65 and on request Ex-Proof Coil

### S89

: For Automatic Irrigation Systems

### S89

: For Filling Fuel Oil; Two Staged Solenoid Valve



## Low Pressure and Vacuum Solenoid Valves



### S30 Serie (For air, water, gas, -10 ... 90 °C)

Dimension : 1/8", 1/4", 3/8", 1/2", 3/4", 1"  
 Working Temperature : -10/80 °C  
 Working Pressure : (-1, 0, 1, 2, 3) bar and vacuum  
 Position : N.C.  
 Coil Voltage : 220 V, 110 V, 24 V, 12 V, AC/DC

### Coils

: C10, C11, C20, C21  
 Coil Voltage : 220 V, 110 V, 24 V, 12 V, AC/DC  
 IP 65 protection class and on request Ex-Proof Coil

## Flowmeters with Float and Glass Tube Float

Body : Trogamit or polisulphone, glass tube  
 Measurement Range : 0,1 - 60,000 lt/hours  
 Indicator : It indicates instant flow.  
 Switch Output : Switch output or 4-20 mA  
 Fluid Types : Water, air, alkali, gas



Glass Tube Float

## Flowmeter Mechanical Indicator



Piston Flowmeter

Body : Stainless Steel, AISI 316  
 Measurement Range : 0,1 lt/h - 1,000 m3/hour  
 Connection : DN 15 – DN 150 (1/4"-1/2", 3/4")  
 Output : Instant Flow, Analog Signal Output  
 4-20 mA switch output, totalizer  
 Fluid Types : Water, air, gas

## Electro Magnetic Flowmeters / Ultrasonic Flowmeters

Body : PP, PTFE, PVDF, hard rubber covered  
 Measurement Range : 5-200 lt/min ... 150-7000 m3/hour  
 Connection : DN3 ... DN500 wafer, screwed, flanged, clamp type  
 Output : Instant Flow Rate, Total Flow Rate, 4-20 mA or Pulse Output  
 Fluid Types : Conductor Liquid Types (viscosity and independent from concentration)



Electro Magnetic Flowmeters

Ultrasonic Portable Flow Measurement

## Screwed Flowmeters with Turbine / Variable Area Flowmeters



Body : Brass, stainless steel, PPS, PVDF, Acrylics  
 Measurement Range : 0.02 lt/min...150 lt/min  
 Digital Indicator : Instant Flow and Optional Switch Output + Digital Indicator with 4-20 mA output  
 Fluid Types : Water, air, oil acrylics, Fluid with High Viscosity, High Pressure (PN 300 max)

## Flowswitches (Flow Switches), Accustable Flow Flowswitches

Body : Brass, Stainless Steel or plastic  
 Measurement Range : (1/8" ... 1") or DN 15 ... DN200  
 Temperature : max 125 °C, 350 °C (on request)  
 Switch : Reed Switch, one switch two ways or type with indicator. Ex-proof Models  
 Mounting : Mounting opportunities are provided in various positions.  
 Application Types : Air, water, oil, acid etc.



Piston Type Flowswitch

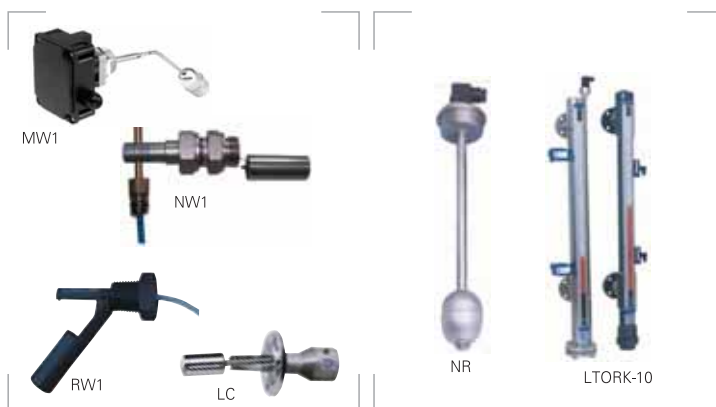
Tonqued Flowswitch

## Level Switch with Float

Body : Brass, PP, Stainless Steel  
 Switch : Normally Open (N.O.)  
           Normally Closed (N.C.)  
 Connection : 1/2", 3/4", 1"  
 Temperature : -25 ... 105 °C, 180°C, 300°C

**Ex-proof models exist.**

Fluid Types : Liquid, Burnable, Explosive Atmosphere  
 (Ex-proof atmosphere)



## Level Switch with Rotary Paddle / Level Switch with Diaphragm / Level Switch for Solid and Liquid Vibrating System



Body : Plastic, Aluminium, Stainless Steel  
 Switch : Normally Open (N.O.)  
           Normally Closed (N.C.)  
 Connection : 1/2", 3/4", 1"  
 Temperature : -20 ... 80 °C, 115 °C  
 Fluid Type : Fluid with particles, (wheat, rice,  
 cement, ceramics, coal)  
 Liquids; (LD 60, LD 61 Types)

## Level Switch with Float

Body : PVC, Stainless Steel, PTFE  
 Measurement Range: 0.5 ... 96 Meters and insertion  
 types (to 250 mt.)  
 Connection : Screwed, Flanged  
 Pressure : PN 16 (optionally 320 bar)  
 Output : Switch and 4-20 Ma output

(Ex-proof models exist)

Application Types : Liquids, Ex-proof Atmospheres,  
 Storage, Deep Wells.



## Ultrasonic Level Switch / Level Measurement with Smart Transmitter



Type : PVC, Stainless Steel, PTFE  
 Measurement Range : 1.5 ... 6 Meters  
 Sensitivity : 3%  
 Temperature : 0 ... 60 °C  
 Output : 4-20 mA max. Switch, and instant  
 level monitoring  
 Voltage Supply : 24 V DC / 220 V AC  
 Application Types : Solid, Liquid, Chemical Fluid Type,  
 Cabled Level Switches are used in  
 liquid and fluid which contains solid  
 particles in it. Special hygienic model  
 exists for ex-proof atmosphere and  
 potable water types.

## Manometer / Screwed Connection

- Type : BURDON tubed, plastic body, stainless steel, panel mounting type etc.
- Measurement Range: 0 ... 60 mbar, 1 bar ... 10.000 bar
- Indicator Diameter : Ø 63, Ø160 mm outlet from upside and downside.
- Switch : Indicator one switch, two switches
- Sensitivity : 1 %, 1.6%
- Application Types : Air, water, medical devices, compressor, petrochemistry, purifying, burner, vacuum, exhaust gas, hydraulic systems, beverage, various fluid types, steam etc.



## Manometer with Diaphragm / Test Manometers



- Body : Stainless Steel
- Switch : Indicator with one switch, two switches
- Diaphragm : Teflon, Stainless Steel, Variable Applications
- Measurement Range: 0 ... 25 mbar ... 400 bar, 1600 bar
- Indicator Diameter : Ø100, Ø160mm
- Sensitivity : 1.6 %, 2.5%
- Application Types : Biochemistry, nutrient, filling stations, petrochemistry, beverage, water etc.

## Manometer with Differential Pressure / Pressure Switch (Mechanical and Electronical Type)

- Type : With Burdon Tube and Diaphragm
- Switch Output : Analog and digital indicator
- Sensitivity : 1 %
- Measurement Range : 0 ... 400mbar ... 25bar ... 100 bar
- Pressure Switches**
- Body : Brass, stainless steel, steel
- Measurement Range : -1 ... 10 bar / 5 ... 70 bar / 50 ... 400 bar
- Application Types : Chemistry, Oil Refinery, Pneumatic, Hydraulic Lines, Vacuum, (various pressure measurement)



## Pressure Transmitters/Smart Type Transmitter/ Differential Pressure Switches



- Pressure Transmitters**
- Output Signal : 4-20 Ma(on request mV output)
- Measurement Range : Vacuum, between 0 ... 8000 bar based on your choice.
- Expooof models exist.
- Differential Pressure Switches**
- Body : Brass, stainless steel, steel
- Measurement Range : -1 ... 10 bar / 50 ... 400 mbar / 0-200 mbar etc.
- Application Types : Purifying, Filter, Washing Machine, Nutrient, Car Wash etc.

## Vacuum Switch/Pressure Switch/Low Pressure Switches/Load Celler

- Measurement Range : -50 mbar ... 0 bar, 5 ... 200 mbar  
200 ... 1000 mbar, 0 ...4, 110, 15 bar
- Switch Output : One Contact Two Ways / Two Contacts Two Ways
- Adjustment Style : Stable / Manual controlled
- Application Types : Purifying, Filter, Washing Machine, Nutrient, Car Wash etc.
- Load Cell : For measuring weight, tension and pressure force. There are too many types of usage areas.



### Thermocouples and Temperature Measurement Control Panels

Thermocouple and PY100 sensors are used for sensing temperature. PT 100, Fe-const, NiCr-Ni, PtRd Pt measurements (-250°C ... 1600 °C) are suitable for these devices. It is chosen according to the process.

**Control Panels:** Instant indicator, switch output, two-switches output, analog output (4-20 mA) types exist. It is chosen according to the process.

**Smart Transmitters:** For sensitive measurement of temperature, level, pressure.



### Remote Thermometers / Bi-metal Thermometers/ Humidity Control Hygrostats



**Outlet** : From downside and upside  
**Measurement Range** : -200 °C ... 700 °C

It is chosen according to the process.  
It indicates instant temperature.

**Humidity Control Device** : It is for measuring room and canal humidity.  
It supplies switch output.

**Tmax** : max 100 °C  
**Measurement Range** : 95% humidity

### Electro Pneumatic I/P Converters- E/P Converters

**Type** : Bellofram TORK-1000  
**Sensitivity** : 0.1 %  
**Voltage Supply** : 24 V DC, AC  
**Signal Input** : 4-20 mA, 0.5V, 0-10V, 0-15V  
**Pneumatic Outlet** : 3-15 psi  
**Air Supply** : max. 7 bar



Digital Control Regulators

### Sensitive, Air Regulated Process Control Regulators (for air and gas)



**Type** : GR90/GR91/GR92 Series  
**Sensitivity** : 0.5%  
**Connection** : 1/8", 1/4", 1/2" BSP, NPT  
**Flow Rate Capacity** : 400 - 1150 lt/min  
**Pressure** : 27 bar - 280 bar  
**Regulatable Pressure** : 0-8,5 bar  
**Application Types** : - For regulating process air pressure.  
- It is used in LPG and natural gas applications.

### Air Filter+Regulators (For Pneumatic Systems) FR

For regulating air pressure in pneumatic systems and filtering dust particles located in air.

**Filter Capacity** : 5 mm  
**Body** : Aluminium  
**Connection** : 1/4"  
**Max Temperature** : 70 °C  
**Manometer Connection** : 1/8" d3  
**Outlet Pressure** : 0 ... 8bar  
**Inlet Pressure** : 15 bar

