



**Towse
Fonoon
Atieh**

Valves & Instrument



INSTRUMENTS



شرکت توسعه فنون آتیه



شرکت توسعه فنون آتیه با پشتیبانی گروهی از معتبرترین شرکت های اروپایی و آسیایی که نمایندگی انحصاری آنها در اختیار این شرکت می باشد، با تکیه بر موجودی انبارهای خود و تهیه اقلام خاص و سفارشی از طریق دفاتر خود در خارج از کشور در زمینه تهیه، توزیع و خدمات پس از فروش تجهیزات مکانیک و ابزار دقیق جهت صنایع مختلف اعم از نفت، گاز، پتروشیمی، معدنی، غذایی، دارویی، تاسیسات، آب و فاضلاب فعالیت داشته و آمادگی لازم جهت هر گونه همکاری تجاری و خدماتی از جمله تامین قطعات صنعتی را دارا می باشد.

- شیرآلات صنعتی
- انواع ترانسمیترهای فشار، حرارت، سطح و فلومترهای مغناطیسی از برند های معتبر
- انواع گیج های فشار، حرارت و خلاء
- عملگرهای پنوماتیک و برقی و ولوهای کنترلی
- انواع پوزیشنرهای مبدل جریان به فشار





**Towse
Fonoon
Atieh**

Valves & Instrument

Our Products:

FLOW

PRESSURE

LEVEL

TEMPERATURE

ANALYSIS

CONTROL

F1



LOW VOLUME FLOWMETER/POBC

Water: 0,3...3 l/h – 10...100 l/h
Air: 0,1...1 l/m – 10...100 lpm
 Tmax 60°C , Pmax 10 bar
Size: G 1/4" Connection : Brass
Accuracy: %3 F.S. Body: Acrylic

F2



VARIABLE AREA FLOWMETER /FCIV

Water: 3...30 l/h – 10...50 m³/h
Air: 25...250 l/h-20...200 Nm³/h
 Tmax 100°C Pmax 10 bar
Size: 3/8"...2 1/2" Body : PVC,PSU
Accuracy: %2,5 F.S. Output : switch

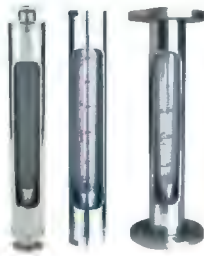
F3



GLASS TUBE LOW FLOWMETER /BCF

Water: 0,03...0,3 lpm- 5...50 lpm
Air: 0,5...5 lpm - 80...800 lpm
 Tmax 100°C , Pmax 15 bar
Size: 1/8" Output : switch
Accuracy: %4 F.S.

F4



ALL METAL VARIABLE AREA /PTYP

Water: 1,8...18 l/h – 2,4...24 m³/h
Air: 0,5...5 lpm-30...300 Nm³/h
 Tmax : 100°C Pmax : 15 bar
Size: 1/4"...2" G or flanged
Accuracy: %3 F.S.
Body: AISI304 or AISI316

F5



METAL TUBE FLOWMETER/FITD

Water: 4...30 l/h – 10...100 m³/h
Air: 0,1...1 m³/h-120...1200m³/h
 Tmax 300°C,Pmax 40 bar(100bar)
Size: 1/2"...5" G or Flange
Accuracy: %2 F.S. (%1,6 ops.)
Output: switch or 4-20 mA

F6



FLAP TYPE FLOWMETER/FIKD

Water: 1,5...10 m³/h -185...1300 m³/h
Air: 50...500 m³/h-1200...12000 m³/h
 Tmax 150°C, Pmax 40 bar
Size: DN50...DN400 Wafer type
Accuracy: %2 F.S. (%1,6 ops.)
 Wetted Parts are AISI304 or AISI316

F7



ULTRA LOW FLOW SENSOR/ULF

Liquid: 1,5...100 l/h – 6...250 l/h
 Tmax 80°C Pmax 5 bar
Size: 1/4" Viscosity : 10 cSt max.
Accuracy: %1
Body: POM,ECTFE
Output: Pulse or 4-20 mA

F8



PADDELWHELL FLOW SENSOR/FMPV

Liquid: 2,5...42 l/min – 25...473 lpm
 Tmax 70°C Pmax 10 bar
Size: 1/2"...2" threaded
Accuracy: % 1 F.S. Pulse or 4-20 mA
Body: PVC,PP veya PTFE

F9



INSERT PADDELWHELL FLOW SENSOR/F3

Liquid: 0,15...8 m/sec
 Tmax 125°C Pmax 25 bar
Size: 1 1/4" (for DN15...DN600 pipe)
Accuracy: %1 F.S.
Body: PVC,PP,PVDF,Piringç,AISI316SS
Output: Pulse or 4-20 mA

F10



TURBINE FLOWMETER/TDSS

Liquid: 0,6...6 m³/h – 40...800 m³/h
Gas: 0,5...4 – 200...4000 Nm³/h
Tmax 120°C **Pmax** 40 bar
Size: DN15...200 Flanged
Accuracy: %1 , **Output:**Pulse,4-20 mA
Body: AISI304 or 316 (Ex-proof)

F11



INSERT PADDLEWHELL WITH LCD/M9

Liquid: 0,15...8 m/s **Accuracy :** %1 FS
Tmax 125°C **Pmax** 25 bar
Size: 1 1/4"(for DN15...DN600 pipe)
Body: PVC,PP,PVDF,Pirinç,AISI316SS
Output: Pulse,4-20 mA,2 relay
Display: LCD, Rate and total

F12



MAGNETIC FLOWMETER / EMD

Liquid:10..1000 l/h-1140..114000 m³/h
Tmax 150°C **Pmax** 40 bar,**LCD** display
Size: DN6...DN 2500 **Comm:** HART
Accuracy: % 0,3 **Liner :** HR or PTFE
Body: AISI 316 or Carbon Steel
Output: Pulse,Frequency,4-20 mA

F13



INSERT MAGNETIC FLOWMETER / M3

Liquid: 0,05...8 m/sec. **Pmax** 25 bar
Tmax 150°C **Accuracy :** %1 R.
Size: 1 1/4"(for DN15...DN600 pipe)
Body: AISI316 or Bronz
Output: Pulse or 4-20 mA

F14



INSERT MAG. FLOWMETER WITH LCD/M9

Liquid: 0,15...8 m/s **Hassasiyet :** %1 R.
Tmax 150°C **Pmax** 25 bar
Size: 1 1/4"(for DN15...DN600 pipe)
Body: AISI316SS or Bronz
Output: Pulse,4-20 mA,2 relay
Display: LCD, Rate and total

F15



MAGMETER FOR BATCH SYSTEM/DOMA

Liquid: 0,001...1 m³/h – 1...57 m³/h
Accuracy: %0,5 R **Tmax** 150°C
Size: 1/2"...2" **Pmax** 40 bar
Body: AISI304 veya AISI 316
Output: Pulse 1,6 KHz (ops.4-20 mA)

F16



ORIFICE PLATE AND FLANGES

Standards: ISO5127,ASME etc.
Tmax 450°C,1000°C ops.**Pmax**310 bar
Size: DN25...DN1200
Accuracy: ±% 0,5
Material: AISI304,316,Monel, Hast.C

F17



COMPACT ORIFICE FLOW SENSOR/FOFT-W

Liquid,Gas,Steam: Please specify
Tmax 450°C,1000°C ops.**Pmax**310 bar
Size: DN40...DN600 wafer
Accuracy: %0,5 , **Protection:** Ex-proof
Display: Rate and total
Output: 4...20 mA or Pulse

F18



VERABAR PITOT FLOW SENSORS/V100

Applications: Liquid,Gas,Steam
Tmax 1000°C **Pmax** 200 bar
Size: DN50...DN6000
Accuracy: % 1, **Output :** 4...20 mA
Body: AISI316 or please specify

F19



VENTURI FLOW SENSORS /VT

Standards: ISO5127,ASME etc.
Tmax 450°C,1000°C ops.Pmax310 bar
Size: DN50...DN3000 BW or flanged
Accuracy: ±% 0,5 or ±% 1
Material: AISI304,316,Monel, Hast.C

F20



VORTEX FLOWMETER/ FBVP

Liquid: 0,4...9 m/s - **Gas :** 5...91 m/s
Tmax 350°C,Pmax 70 bar
Size: DN20...DN250 flanged or wafer
Accuracy: %0,5 ,protection : Ex-proof
Output: Pulse,4-20 mA
Display: LCD, Rate and total

F21



ULTRASONIC FLOWMETER/ BSUF-TT

Range: -13...+13 m/sec. for liquids
Tmax 110°C, 160°C ops.
Accuracy: %1, Output:4-20 mA, pulse
Size: DN15...DN6000
Body: RS-485
 For all metal and plastic pipes.

F22



CORIOLIS MASS FLOWMETER / FCKD

Range: 0,12...18kg/h-30...1500 t/h
Tmax 350°C Pmax 250 bar
Size: 1/4"...2",DN15...DN300
Accuracy: % 0,1...0,5
Body: AISI316
Output: Pulse,4-20 mA
Display: Rate,total,density and temp.

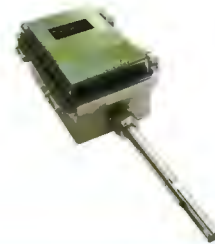
F23



THERMAL MASS FLOWMETER /TLF

Gas: 0..10cm³/min - 0..2000 lpm
Tmax 50°C Pmax 35 bar
Size: 1/4"...1" threaded
Accuracy: %1 Body :Plastic or AISI316
Output: 4-20 mA or 0-5 VDC

F24



THERMAL MASS FLOWMETER /INSERTION

Gases: 0...250 Nm³/sec.
Tmax 177°C Pmax 70 bar
Size: DN25...DN900
Accuracy: %0,5 Output:Pulse,4-20mA
Body: AISI 316 ,RS-485
Display: OLED rate and total

F25



OVAL GEAR FLOW SENSORS / FODF

Range: 0,8...90 l/h, 30...400 l/min.
Tmax 60°C, ops. 160°C Pmax 25 bar
Size: 1/8"...2" Accuracy : %0,5
Output: Pulse or 4...20 mA
Body: POM,Aluminyum,AISI 316
Viscosity: 1.000.000 cP max.

F26



FLOW SWITCHES /INSERTION TYPE

Models: Paddle,piston or calorimetric
Tmax 150°C,Pmax 70 bar
Protection: IP65, IP67 or Eex d II C T6
Size: 1/2"...2" or 1/2" insertion
 wetted parts AISI316 SS

F27



SIGHT GLASS INDICATOR

Size: 1/4"...2" threaded
Tmax 150°C, Pmax 16 bar
Body: AI-SI304,316,PVC,PTFE
Sight Glass: Borosilicate Glass
Paddlewell: POM or PTFE

PRESSURE INSTRUMENTS

PRESSURE

P1



DIAPHRAGM SEAL PRESSURE GAUGES

Instrument Connection: 1/4"…1/2"
Process Connction: DN15…DN80
ANSI150,300,PN16,40,JIS 10,20K
Temperature: -40°C… 150°C
Range: -1…1,5 bar - 0…40 bar
Diaphragm: AISI316L,Hastelloy C276
Liquid Fill: Silicone or Veg. oil

P2



DIFFERENTIAL PRESSURE GAUGE/DPH

Range: 0…100 mBar , 0…14 bar
Temp.: -20°C…80°C Pmax:200 bar
Size: G1/4", 1/2" Accuracy :%2
Body: Paslanmaz Çelik
Dial: 100 mm or 150 mm
Measuring Principle: Piston Type

P3



PRESSURE SWITCHES / PS2000X

Range: 0,5…2,5 bar , 20…165 bar
Temp.: -40°C… 205°C Pmax :275
Size: 1/4", 1/2" Wetted Parts : SS
Output: SPDT kontak 250 V 20 A IP 65
Ex-proof, ex d IIC T4

P4



PRESSURE TRANSMITTERS/OEM

Range: -1…0 bar - 0…1000 bar
Temp.: -40°C… 125°C Supp.:10-32 VDC
Size: G1/4", 1/2" Accuracy : %0,5
Body: AISI304
Output: 4…20 mA,0…10 VDC IP65

P5



FLUSH DIAPHRAGM PRESS. TRANSMITTER

Range: 0…0,1 bar - 0…1000 bar
Temp.: -40°C… 125°C, ops. 250°C
Body: AISI304 IP65 Supp.: 10-32VDC
Output: 4…20 mA, 0…10V DC,0-5VDC
Size: 1/2"…2" threaded

P6



DIFFERENTIAL PRESSURE TRANSMITTER

Range: 0…10 mbar - 0…25 bar
Temp.: -40°C… 125°C, ops. 250°C
Body: AISI304 IP65 Supp.: 10-32VDC
Output: 4…20 mA, 0…10V DC,0-5VDC
Size: 1/4",1/2" threaded

P7



INTEGRATED SWITCHING ELECTRONICS

Monitoring and Control of Processes
 Free programming by PC
 Setting with 2-button operation on site
 4 to 20 mA output transmitter

P8



SMART PRESSURE TRANSMITTER

Range: -1…0 bar , 0…600 bar
Temp.: -40°C…120°C Size : 1/2" NPT
Accuracy: %0,075, %0,04 ops.
Body: AISI316 ATEX,CSA Ex-proof
Output: 4…20 mA+HART IP67
Supply: 12-45 VDC , LCD display

P9



SMART DP TRANSMITTER

Range: 0…0,75 mbar - 0…70 bar
Temp.: -40°C…120°C Size : 1/2" NPT
Accuracy: %0,075, %0,04 ops.
Body: AISI316 ATEX,CSA Ex-proof
Output: 4…20 mA+HART IP67
Supply: 12-45 VDC , LCD display
Pmax: 137 bar ops.310 bar



L1

MINIATURE LEVEL SWITCHES

Connection : 1/2"...1" threaded
 Tmax: 80°C,150°C
 Body : PP, PVDF,AISI316
 Output : NC veya NO reed relay
 Rating : 250 V ,100 mA or 0,5A
 Horizontal Install



L2

VIBRATION FORK LEVEL SWITCHES

Connection : Threaded or Flanged
 Pmax : 100 bar , Tmax: 150°C
 Body : Wetted parts are 316 SS
 Output : SPDT relay, Ex-proof
 Rating : 24V,250 V AC/DC ,4A max.



L3

ROTATING PADDLE LEVEL SWITCHES

Connection : Threaded or Flanged
 Tmax: 400°C
 Body : Wetted parts are 316 SS
 Output : SPDT relay, IP66, Ex-proof
 Supply : 24VAC or 230VAC
 Rating : 250V,5A max.



L4

ULTRASONIC LEVEL TRANSMITTER

Connection : M78 Accuracy %0,2
 Range : 0,3...5 m – 0,6...20 m , IP65
 Body: PP Tmax: 85°C
 Output: 4...20mA
 with temperature compensation.
 Display : LCD on top



L5

RADAR LEVEL TRANSMITTERS

Solid Range : 0...70 m max.
 Liquid Range : 0...70 m max.
 Tmax: 200°C
 Size : DN50..DN150 Flange ,1 1/2"dişli
 Body : AISI 316SS ,Pmax : 400 bar
 Output : 4...20 mA+HART



L6

HYDROSTATIC LEVEL TRANSMITTERS

Range : 0...20 cm - 0...70 m.
 Temperature : -40°C... 205°C
 Size : DN50,DN80 or DN100 Flanged
 Accuracy : %0,075,
 Body : SS, ATEX,CSA Ex-proof ,IP67
 Output : 4...20 mA+HART,LCD display



L7

HYDROSTATIC LEVEL TRANSMITTERS

WITH CAPILLARY CONNECTION)12M.MAX.

Range : 0...20 cm - 0...70 m.
 Temperature : -40°C... 205°C
 Size : DN50,DN80 or DN100 Flanged
 Accuracy : %0,075, Body : SS
 ATEX,CSA Ex-proof ,IP67
 Output : 4...20 mA+HART,LCD display



L8

HYDROSTATIC LEVEL TRANSMITTERS

Insertion Type
 Range : 0...1 mt - 0...250 mt.
 Temperature : -40°C... 70°C
 Accuracy : %0,5 Body : SS, PTFE
 Output : 4...20 mA , IP68
 Cable : Ventilated cable PUR,PE etc.



L9

DIGITAL DISPLAY /BAB112

Mounting : 36x72 pannel mount type
 Input : 4...20 mA,0...10VDC,0...5VDC
 Display : LED
 Output : SPDT relay 8A max.



TEMPERATURE INSTRUMENTS

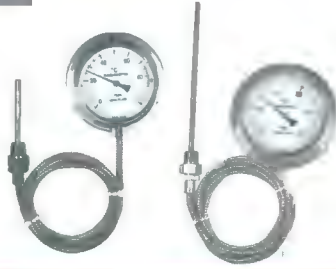
T1



LIQUID FILLED THERMOMETERS/SH

Range: -70...50°C , 0...600°C
Insert: 6,5...100 cm,Safety Glass
Size: 1/2"
Accuracy: %1 F.S.
Body and bezels: AISI316 SS Adjustable angle
Output: Single relay

T2



LIQUID FILLED THERMOMETERS/SHE

Range: -200...50°C , 0...600°C
Insert: 10...100 cm,
Capillary: 50m.max
Size: 1/2"
Accuracy: %1 F.S.
Body and bezels: AISI316 SS
Output: two relay,wall or Panel Type

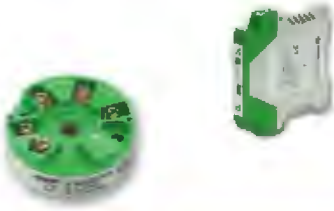
T3



TEMPERATURE SWITCHES/ETS300W

Range: -200...50°C , 0...650°C
Insert: 30 cm max.Output : 2 relay
Capillary: 50m.max ,
Size: 1/2"
Accuracy: %1 F.S.
Body and bezels: AISI316 SS

T4



TEMPERATURE CONVERTERS

Input: U,L,J,K,S,R,Pt-100,Pt-1000
Output: 4...20 mA+HART,0...10 V DC
Mounting: Head or DIN rail mounting
Accuracy: %0,1

T5



HUMIDITY AND TEMPERATURE SENSORS

Range: -50...50°C – 0...100°C
Mounting: Wall, Output: 2x4...20 mA
Supply: 10...30V DC
Accuracy: %0,5
Body: PC plastic Probe : selectable

T6



TEMPERATURE TRANSMITTERS

Range: -50...50°C – 0...600°C
Size: G 1/2" Output : 4...20 mA
Supply: 10...30V DC Accuracy :%0,2
Wetted Parts: AISI316

TEMPERATURE

T7



TEMPERATURE SWITCH AND TRANSMITTER

Range: -40...150°C Pmax: 100 bar
Size: 1/2"
Body: AISI316 ,IP67
Output: 4...20, 0...10VDC adjustable, also NPN or PNP relay output
Accuracy: %0,5 Supply: 18...36VDC
Display: LED

T8



ELECTRONIC TEMPERATURE SWITCH / BSTS

Range: -50...0°C, 0...600°C
Pmax: 400 bar
Size: 1/2"
Body: AISI316, Conduit Conn. : G 1/2"
Output: 2 SPST relay IP67,Exproof
Rating: 250V, 8A
Hassasiyet: %0,5 Besleme

T9



SMART TEMPERATURE TRANSMITTER/ATT

Input: RTD or thermocouple
Size: 1/2" – 1" threaded or flanged
Accuracy: %0,1
Body: SS, ATEX,CSA Ex-proof ,IP67
Output: 4...20 mA+HART,LCD display



A1



PH AND ORP ELECTRODES/BULB TYPE

pH Measuring Range : 0...14,00 pH
 ORP Measuring Range : ±2000 mV
 Pmax : 10 bar , Tmax : 130°C
 Body : Epoxy Seal : Silicone

A2



PH/ ORP MONITORS

Display: 3 line alphanumeric LCD
 Supply : 24VAC/DC or 230VAC
 Output: 4...20mA+2relay,Koruma IP65
 Temp.Input : Pt100
 Installation : Pannel or wall mounting

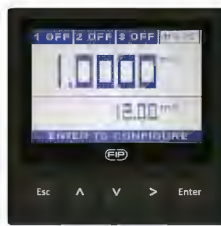
A3



CONDUCTIVITY SENSORS

Range : between 0,055...100 µS and 10...10000 µS
 Connection : 1/2"...1"
 Pmax : 6 bar Tmax : 80°C
 Body : PVC Electrodes : AISI316

A4



CONDUCTIVITY MONITORS

Supply : 24VAC/DC or 230VAC
 Output: 4...20mA+2relay,Koruma IP65
 Temp.Input : Pt100
 Installation : Pannel or wall mounting
 Display: 3 line alphanumeric LCD

A5



DISSOLVED OXYGEN SENSOR AND MONITOR

Range : 0...20 mg/l Supply : 110...230VAC IP65
 Output : 4...20 mA + 2 relay RS232
 Auto Cleaning system input: 3/4"
 Measuring Method : Polarograph
 Display : LCD

A6



RESIDUAL CHLORINE SENSOR/MONITOR

Range : 0...2 mg/l Display : LCD
 Supply : 110...230VAC IP65
 Output : 4...20 mA + 2 relay RS232
 Auto Cleaning system input: 3/4"
 Measuring Method : Galvanic

A7



ONLINE TURBIDITY ANALYSERS

Range : 0...4000 NTU Display : LCD
 Supply : 110...230VAC IP65
 Output : 4...20 mA + 2 relay RS485
 Auto Cleaning System
 Measuring Method : IR LED 880 nm

A8



SUSPENDED SOLID ANALYSERS

Range : 0...15000 mg/l Display : LCD
 Supply : 110...230VAC IP65
 Output : 4...20 mA + 2 relay RS485
 Auto Cleaning System
 Measuring Method : IR LED 880 nm

A9



MULTIPARAMETERS ANALYSER

Sensor : Temperature, Depth, pH, Orp, Conductivity, Dissolved Oxygen or Turbidity. Datalogger : yes, internal
 Communication : RS-485



C1



ELECTRIC ACTUATOR

Torque Range: 50-2000Nm
Input Current: 4~20mA DC
Motion Range: 0-360° / 0-90°
Ambient Temperature: -30°C~+60°C
Actuator Cover: Aluminium Alloy
Protection Class: IP68
Voltage: 24V DC, 110V AC, 220V AC, 380V AC
Controlling Feature: Button operation, LCD

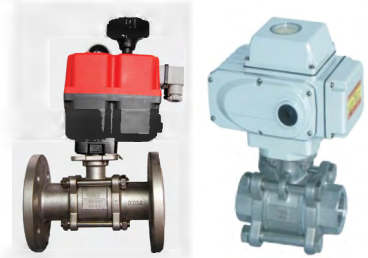
C2



PNEUMATIC ACTUATOR

Actuator Body: Aluminium Alloy
Piston: Aluminium Alloy
Output Shaft: Nickel Alloy Plated Steel
Temperature: -20°C~+85°C
Torque: 3.5-4150Nm
Air Supply Pressure: 2.5-8bar
Motion Time: 0.25-3s
Feature: Gear-Driving structure, double-acting, 0-90° open-close, +5°

C3



ELECTRIC BALL VALVE

Nominal Diameter: DN15-300
Pressure Range: 1.6-6.4MPa
Medium Temperature: -20°C~+180°C
Ambient Temperature: -20°C~+60°C
Valve Material: Stainless Steel, Cast Steel
Sealing Material: PTFE
Actuator Cover: Aluminium Alloy
Controlling Voltage: 24V AC, 110V, 220V, 380V, 24V DC
Type: On-Off, Regulating
Connecting flange standard: GB, ANSI, DIN, JIS
Applicable Medium: Water, Air, Oil, Acid, Alkali, etc.

C4



ELECTRIC BUTTERFLY VALVE

Nominal Diameter: DN40-600
Pressure Range: 0-1.0MPa
Medium Temperature: -20°C~+120°C
Valve Body Material: Gray cast iron, ductile cast iron, cast steel, stainless steel
Sealing Material: NBR, EPDM, FPM
Valve Disc Material: Ductile cast iron, Stainless Steel, Nickel alloy
Feature: Double bubble and zero leakage
Applicable Medium: Drinking water, sewage, high purity water, sea water, air, etc.
Controlling Voltage: AC 24V, 110V, 220V, 380V, DC 24V
Type: On-Off, Regulating

C5



PNEUMATIC BUTTERFLY VALVE

Nominal Diameter: DN40-600
Pressure Range: 0-1.0MPa
Medium Temperature: -20°C~+160°C
Valve Body Material: Gray cast iron, Ductile cast iron, Cast steel, Stainless steel
Sealing Material: NBR, EPDM, FPM, PTFE, METAL
Valve Disc Material: Ductile cast iron, Stainless Steel, Nickel alloy
Feature: Double bubble and zero leakage, Double (Single) action, Stem without pin
Applicable Medium: Drinking water, sewage, high purity water, sea water, air
Controlling Pressure: 3-8bar

C6



PNEUMATIC BALL VALVE

Nominal Diameter: DN15-300
Pressure Range: 1.6-6.4MPa
Medium Temperature: -10°C~+180°C
Environment Temperature: -10°C~+60°C
Valve Body Material: Cast steel, Stainless steel
Sealing Material: PTFE
Body of Actuator: Aluminium alloy
Controlling Pressure: 3-8bar
Controlling Feature: Double acting, Single acting
Applicable Medium: Water, Gas, Oil, Acid, Alkali, etc.



C7



GEAR BOX

Protection Class: IP65
Ambient Temperature: -20°C~+60°C
Rotary Angle: 0-90°
Upper & Lower Flange: ISO5211
Feature: Manual, Gear-Worm Driving, With Clutch, Position-Limit, Appliance, Pneumatic and Manual can not be driven simultaneously

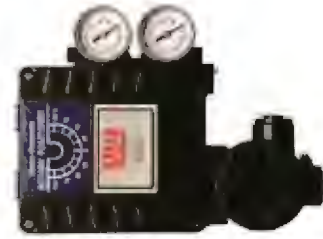
C8



SWITCH BOX

Protection Class: IP67
Anti-Explosion class: Exd II BT6
Ambient Temperature: -20°C~+60°C
Connection: 2xNPT 1/2
Position Indication: Closed:Red Open: Yellow
Switch: Mechanical Switch x 2
 Proximity Switch x 2
Coating: Polyester (Black)
Axis: Standard Axis (17mm)

C9



E/P POSITIONER

Input Signal: 4-2-mA DC
Stroke Range: 0-90°
Impedance: 250±15
Ambient Temperature: -20°C~+70°C
Protection Class: IP66
Sensitivity: ±0.2%F.S./±0.5%F.S.
Linearity: ±1.0%F.S
Hysteretic Quality: 1.0%F.S.
Power Interface Size: PF 1/2 (G1/2)

C10



NAMUR SOLENOID VALVE

Two-position Five-way Solenoid Valve
Voltage: 220V AC, 380V AC, 24V DC

C11



SMART E/P POSITIONER

Input Signal: 4-20mA(2wire), Min. 3.6mA
Supply Pressure: 0.14MPa-0.7MPa (1.4bar-7bar)
Stroke: Linear: 10-100mm, Rotary: 30°-120°
Air Connection: 1/4BSPP, 1/4NPT
Conduit: M20-1.5, 1/2BSPP, 1/2NPT
Weather Proof: IP65
Explosion Proof: Exia II CT4-6 or Exd II CT6
Ambient Temperature: -20°C~70°C
Linearity: 0.5%F.S.
Hysteresis: ±1%F.S.
Repeatability: 0.2%F.S.
Air Consumption: < 36L/H
Vibration Effect: 2G
Dimension: 170x96x96mm
Material: Aluminum alloy with polyester powder
Weight: 2.0Kg

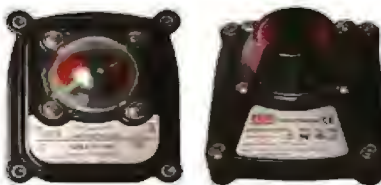
C12



NAMUR SOLENOID VALVE

Spool Valve/Body: Extruded Aluminum
Coating: Anodized coated or Nickel coated in chemical
Seal: Buna N
Materials in contact with fluid: Aluminum, Glass-filled PA, POM, Buna N
Function: 5/2 and 3/2NC, CV=1.1 (19.63mm²), Monostable
Air Ports: Air ports 1/4" BSPP or NPT
Assembly and Connection: 24x32 Namur, Manual Override on body
Fasteners: Stainless Steel
Environment: Indoor & Outdoor
Medium Temperature: -25°C~+80°C
Working Pressure: 2~8bar
Working Medium: less than 20µm filtered and dried air
Bistable(ALV520F3C5): Available on requiring
Working Life: More than 1.000.000 cycle (on the normal working condition)

C13



SWITCH BOX

Protection Class: IP67
Ambient Temperature: -20°C~+80°C
Connection: 2 x NPT 1/2
Position Indication: Closed: Red
 Open: Yellow
Switch: Mechanical Switch x 2
 Proximity Switch x 2
Coating: Polyester (Black)
Axis: Standard Axis (17mm)



C14



ON/OFF VALVE

Two-way pneumatic on/off valves, conveyed flow, available in normally open, normally closed or double acting operation, from DN15 to DN100. Nodular cast iron body (ENGJS-500-7) and AISI304(1.4301) stainless steel servocontrol, max working temperature 195°C or 210°C for valves /PK.

C15



ON/OFF VALVE

Two way pneumatic on-off valves, free flow (45°C) available in normally closed working operation from DN15 to DN25, AISI 316 (1.4408) body, female threaded BSPP connection, and AISI 304 (1.4301) servocontrol; this valve has reduced overall dimensions and operates at Temperature from -15°C up to +185°C.

C16



CONTROL VALVE

Two way pneumatic control valves, available from DN15 to DN200, with nodular cast iron body (ENGJS-400-18LT) or 6151316 (1.42108) body, operated by membrane servocontrol type: SS0(0205), SS1(275), SS3(360), SS2(430), SS2L(430Long), SS4(430Double). Valves DN250 and DN300 available on request.

C17



CONTROL VALVE

Three-way pneumatic control valves, available from DN15 to DN200, with nodular cast iron body (EN-GJS-400-18LT) or AISI316 (1.4408) body, operated by membrane servocontrol type: SS0(205), SS1(275), SS3(360), SS2(430), SS2L(430 long), SS4(430Double). Available in the versions with three diverting ways or three mixing ways. Valves DN250 and DN300 available on request.

C18



CONTROL VALVE

"RI" series: self-actuated pressure reducing valve.

"VS" series: self-actuated excess valve. Available from DN15 to DN100 with spheroidal cast iron body and with AISI 316 (1.4408) stainless steel body. A most important feature is the simplicity of their construction and they are easy to install.

C19



CONTROL VALVE

Electric linear actuator type "LH", input and output signal independently reversible; INPUT signal freely adjustable: 3-point or modulating; Protection degree IP54.



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