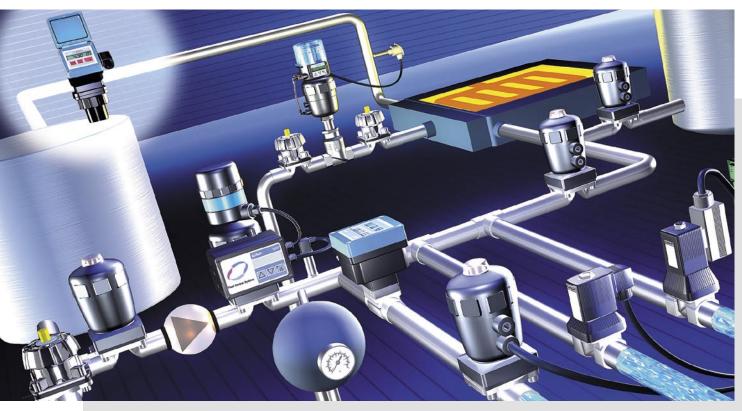
Fluid Control Systems General Catalog



The Smart Choice of Fluid Control Systems



Dear Customer, this general catalogue is meant to be an introduction to the wide range of Burkert products and systems and a guide to enable you to quickly identify the most suitable solution for your needs.

The products or systems illustrated in this document are a selection of our full programme.

Should you need details of a product or system, please do not hesitate to contact the Burkert subsidiary or authorised distributor nearest to you.

A CD containing the data sheets of our full programme and printed version of the data sheets and system information are also available on request.

Similar information are also available on our website at www.burkert.com

Looking forward to hear from you soon.

All technical details were valid at the time of going to print. Since we are continuously developing our products we reserve the right to make technical alterations. Unfortunately, we also cannot fully exclude possible errors. Please bear with us when we say that no legal claims can be derived from either the details given or illustrations and descriptions provided.

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Welcome to Burkert



The smart choice of Fluid Control Systems

Burkert is a world class company concentrating on consultancy, systems development, innovation and quality in fluid control.

We offer global experience you can rely on, from a flexible organisation with flexible processes. Day to day we are committed to creating success for our customers and ourselves. Consistent and continuous investment in research & development and in staff training enables us to offer our customers the best in technology and services.

For any request or target you might have for your fluid process control, you can rely on us: working together with you, we will find the best solution, both from a technical and economic point of view.

Complete systems and solutions



Burkert products and systems can be used wherever fluid media and gases need to be measured, controlled and regulated. Whether the application is filling, level, flow, pressure or temperature we have a solution and a uniquely comprehensive range of products to handle it, including solenoid, process and analytical valves, pneumatic actuation, sensors and controllers.

For Burkert it is not enough to simply offer individual products. Our aim is to provide complete system and application solutions that meet the specific needs of our customers. Tell us what you need and our engineers will find an appropriate solution using our vast experience and a wide range of services such

as advice and engineering, installation, testing, and after sales support.

Our Markets

Many products have initially been envisaged for a particular market sector, and later customised for a new and very different application. Increasingly, Burkert's initiatives in niche markets are being developed to provide solutions in much wider applications, to the benefit of a greater number of customers:

Analysis Automotive
Biotechnology Chemical
Electronics Energy
Genetic engineering Semiconductor
Cosmetic Food and beverage
Machine building Medical

Machine building Medica Pharmaceutical Textile

Packaging Water treatment

Our research & development team is in constant dialogue with technical institutes and industrial markets. The healthy relationship between theory and practice defines the creative spirit that forges our ideas. This has always been the driving force in the development of the groundbreaking products and intelligent system solutions pioneered by Burkert.



What there is behind every product of ours

Research is the lifeblood of our company. At Burkert we are never satisfied with the status quo and are continually seeking new technologies and solutions for our customers. Every year our people develop

new and highly advanced products and solutions, ranging from integrated process measurement and control units, to the most sophisticated systems used in pharmaceutical research.

To be a market leader we also need to lead in R&D. Therefore our investment in research & development is one of the highest in our industry. In our research centres in Germany and France, 150 people are committed to working for a common future for our company and our customers.

We are where you are

Burkert is present in thirty countries around the world. We also work with a large network of distributors and partners, which means we can be as close as possible to our customers. By this global presence we can assure all our customers in every country around the world our full service and support.

We are committed to offering our expertise wherever it is needed, anywhere in the world. This global presence ensures that our advances in fluid control technology are also global.

- Water, Oil, Gas, Air



Type 6011 Type 6012

2/2 way, 3/2 way, Direct Acting Miniature Solenoid Valves

Normally closed, normally open, diverting, mixing or universal function

Orifice size : 1.2 to 2.4 mm Kv : 0.045 to 0.13 m³/h

Port connection : M5, BSP, NPT, PT 1/8" or sub-

base for manifold mounting
: Brass or stainless steel

Body material : Brass Seal material : FPM

Media temperature : -10 to +100°C
Pressure range : 0 up to 21 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED (60%ED for block

assembly)
Electrical connection : Cable plug to IP65



Duty cycle

Type 0280

2/2 way, Servo Assist Solenoid Valves Normally closed or normally open function

 $\begin{array}{lll} \text{Orifice size} & : 8.0 \text{ or } 13.0 \text{ mm} \\ \text{Kv} & : 1.0 \text{ or } 4.0 \text{ m}^3 \text{/h} \\ \end{array}$

Port connection : BSP, NPT, PT 3/8" or 1/2"

Body material : Brass

Seal material : NBR, EPDM or FPM
Media temperature : -10 to +90°C
Pressure range : 0.2 up to 16 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65



Pressure range

Type 0290

2/2 way, Servo Assist Forced Coupled Diaphragm Solenoid Valves Normally closed function

Orifice size : 12.0 to 50.0 mm, Kv : 2.8 to 38.0 m³/h

Port connection : BSP, NPT, PT 1/2" to 2",

Flanged (DIN) DN25 to DN50

Body material : Brass, Stainless Steel (DN12 to DN25)

Cast Iron (for flanged DN25 to DN50) NBR_EPDM or EPM

Seal material : NBR, EPDM or FPM
Media temperature : NBR -10 to +90°C,
EPDM -10 to +120°C,

FPM 0 to +90°C : 0 up to 16 bar

(12 bar for DN32 to DN50) Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC 100% ED

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65



Type 6013 Type 6014

2/2 way, 3/2 way, Direct Acting Solenoid Valves

Normally closed, normally open, diverting, mixing or

universal function

Orifice size : 2.0 to 6.0 mm Kv : 0.045 to 0.13 m³/h

Port connection : BSP, NPT, PT 1/8" to 3/8" or

sub-base for manifold mounting

Body material : Brass or stainless steel

Seal material : FPM

Media temperature : -10 to +100°C
Pressure range : 0 up to 25 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC

Duty cycle : 100% ED (60%ED for block

assembly)

Electrical connection : Cable plug to IP65



Type 5281 (N/C) Type 0281 (N/O)

2/2 way, Servo Assist Solenoid

Normally closed or normally open function

Orifice size : 13.0 to 65.0 mm Kv : 4.0 or 40.0 m³/h

Port connection : BSP, NPT, PT 1/2" to 21/2", Flanged (DIN) DN25 to DN50

Body material : Brass, Cast Iron (for flanged

DN25 to DN50)
: NBR, EPDM or FPM
: NBR -10 to +80°C,

Media temperature : NBR -10 to +80°C, EPDM -40 to +120°C, FPM -10 to +90°C Pressure range : 0.2 up to 16 bar

Voltage : 24V, 110V, 230V AC 50 or 60Hz, 24VDC

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65



Seal material

Type 6213

2/2 way, Servo Assist Forced Coupled Diaphragm Solenoid Valves Normally closed function

Orifice size : 10.0 to 40.0 mm

Kv : 1.9 to 30.0 m³/h

Port connection : BSP, NPT, PT 1/4" to 2",

Body material : Brass, Stainless Steel

Seal material : NBR, EPDM or FPM

Media temperature : NBR -10 to +80°C,

: NBR -10 to +80°C, EPDM -30 to +120°C,

FPM 0 to +90°C Pressure range : 0 to 10 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65

Range of Solenoid Valves

- With unique features



Type 0330 Type 0331

2/2 way, 3/2 way, Direct Acting Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System and with Manual Override Standard

Normally closed, normally open, diverting, mixing or universal function

Orifice size : 2.0 to 4.0 mm Kv : 0.11 to 0.29 m³/h

Port connection : BSP, NPT, PT 1/4" or sub-base for manifold mounting

Body material : Brass or stainless steel
Seal material : NBR, EPDM or FPM
: NBR 0 to +80°C,
EPDM -30 to +90°C,
FPM -10 to +90°C

Pressure range : 0 up to 16 bar Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC Duty cycle : 100% ED (60%ED for block

assembly)

Electrical connection : Cable plug to IP65



Type 6212

2/2 way, Servo Assist Solenoid Valves

With Separating Diaphragm Isolating Media From Solenoid System. Option with Integrated Flow Switch for Brass Body Normally closed or normally open

function

Orifice size : 10.0 to 20.0 mm Kv : 1.9 to 8.3 m³/h

Port connection : BSP, NPT, PT 3/8" to 1",
Body material : Brass, Stainless Steel
Seal material : NBR, EPDM or FPM
Media temperature : 0 to +50°C

Pressure range : 0.2 up to 10 bar (Normally

Closed)

0.2 to 6 bar (Normally Open) Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65



Type 2610

2/2 way, Direct Acting Solenoid Valves For Cryogenic Application

Normally closed function
Orifice size : 6.0 to 12.0 mm

Kv : 0.8 to 1.8 m³/h Port connection : BSP. NPT. PT 1/4"

Port connection: BSP, NPT, PT 1/4" to 1/2" Body material: Brass, Stainless Steel

Seal material : PTFE

Media temperature : -220 to +180°C Pressure range : 0 to 10 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65



Type 5282

2/2 way, Servo Assist Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System, Opening and Closing Time Adjustment and Manual Override Standard Normally closed or normally open function

Orifice size : 13.0 to 65.0 mm Kv : 4.0 to 40.0 m³/h

Port connection : BSP, NPT, PT 1/2" to 21/2",

Flanged (DIN) DN25 to DN50

Body material : Brass, Stainless Steel, Cast Iron (for flanged DN25 to DN50)

Seal material : NBR, EPDM or FPM

Media temperature : NBR 0 to +80°C,
EPDM -30 to +90°C,
FPM -10 to +90°C

Pressure range : 0.2 up to 10 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65



Type 0344

3/2 way, Servo Assist Solenoid Valves For Vacuum Application

Normally closed or normally open function

 Orifice size
 : 8.0 to 25.0 mm

 QNn
 : 1,030 to 11,000 l/min

 Port connection
 : BSP 1/4" to 1"

Body material : Brass
Seal material : NBR
Media temperature : 0 to +90°C
Pressure range : Vacuum to +3 bar
Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED

Duty cycle : 100% ED
Electrical connection : Cable plug to IP65

- at Higher Temperature - Hot Water, Hot Air, Steam



Orifice size

Type 6013 2/2 way, Direct Acting

Solenoid Valves

Normally closed function

: 2.0 to 3.0 mm : 0.12 to 0.23 m³/h

: BSP, NPT, PT 1/4" to 3/8" Port connection Body material : Brass with stainless steel seat

Seal material : PTFE Media temperature : 0 to +180°C Pressure range : 0 up to 25 bar

(max. 10 bar for steam) : 24V, 110V, 230V AC 50 or

Voltage 60Hz, 24VDC

: 100% ED Duty cycle

Electrical connection : Cable plug to IP65



Type 6213

Hot Water Range 2/2 way, Servo Assist Forced Coupled Diaphragm Solenoid

Normally closed function Orifice size : 10.0 to 40.0 mm : 1.8 to 30.0 m³/h Port connection BSP, NPT, PT 1/4" to 2"

Body material : Brass Seal material : EPDM

: EPDM -30 to +120°C Media temperature

Pressure range : 0 to 10 bar

: 24V, 110V, 230V AC 50 or Voltage

60Hz, 24VDC 100% ED

Duty cycle Electrical connection : Cable plug to IP65



Type 0407

2/2 way, Servo Assist Forced Coupled Piston Solenoid Valves Normally closed function

Orifice size : 13.0 to 50.0 mm : 3.7 to 36.0 m³/h : BSP, NPT, PT 1/2" to 2" Port connection

Flanged (DIN) DN25 to DN50 Body material : Brass with stainless steel seat, Cast Iron (for flanged DN25

to DN50)

Seal material : PTFE : 0 to +180°C Media temperature Pressure range : 0 to 10 bar

: 24V, 110V, 230V AC 50 or Voltage

60Hz.

24VDC (only for DN50)

Duty cycle : 100% ED Electrical connection : Cable plug to IP65



Type 0255 Type 0355

2/2 way, 3/2 way, Direct Acting Solenoid Valves

Normally closed, normally open, diverting or mixing function

Orifice size : 1.0 to 6.0 mm

: 0.03 to 0.8 m³/h Κv

BSP, NPT, PT 1/4" to 1/2" Port connection Body material : Brass with stainless steel seat or

stainless steel

Seal material PTFE : 0 to +180°C Media temperature : 0 up to 100 bar Pressure range

(max. 10 bar for steam) : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED Duty cycle Electrical connection : Cable plug to IP65

Voltage

Type 0406

2/2 way, Servo Assist (Servo-Piston) Solenoid Valves Normally closed function

: 13.0 to 40.0 mm Orifice size : 3.7 or 18.0 m³/h : BSP, NPT, PT 1/2" to 11/2", Port connection

Flanged (DIN) DN25 to DN40 Brass with stainless steel seat, Body material

Cast Iron (for flanged DN25 to DN40)

Seal material : PTFE : 0 to +180°C Media temperature Pressure range : 1.0 up to 12 bar (max. 10 bar for steam) Voltage

24V, 110V, 230V AC 50 or 60Hz, 24VDC

Duty cycle : 100% ED Electrical connection : Cable plug to IP65

- at Higher Pressure - Water, Oil, Gas, Air



Type 0255

2/2 way, Direct Acting Solenoid

Normally closed function

Orifice size

: 1.0 to 6.0 mm : 0.03 to 0.8 m³/h

Port connection Body material

: BSP, NPT, PT 1/4" to 1/2"

: Brass with stainless steel seat or stainless steel

Seal material Media temperature Pressure range

: FPM or PTFE : 0 to +180°C

Voltage

: 0 up to 100 bar : 24V, 110V, 230V AC 50 or

60Hz, 24VDC

: Cable plug to IP65

Duty cycle

Electrical connection

: 100% ED

Type 5404

2/2 way, Servo Assist (Servo-Piston) Solenoid Valves Normally closed function

Orifice size

Κv

: 12.0 to 10.0 m³/h

: 12.0 to 25.0 mm

Port connection Body material

: BSP, NPT, PT 1/2" to 1" : Brass

Seal material Media temperature : PTFE/NBR : -10 to +90°C

Pressure range

: 1 up to 50 bar

Voltage

: 24V, 110V, 230V AC 50 or

Duty cycle

60Hz, 24VDC

Electrical connection

: 100% ED

: Cable plug to IP65



Type 2200

2/2 way, Direct Acting Solenoid Valves For High Pressure **Application**

Normally closed, normally open function

Orifice size Κv

: 0.03 to 0.09 m³/h : BSP. NPT 1/4" : Stainless steel : PTFE/FPM

: 1.2 to 2.0 mm

Body material Seal material Media temperature Pressure range

Port connection

: -10 to +130°C

Voltage

: 0 to 250 bar : 24V, 110V, 230V AC 50 or

Duty cycle

60Hz, 24VDC

Electrical connection

: 100% ED : Cable plug to IP65



Type 2400

2/2 way, Servo-Assist Solenoid Valves For High Pressure **Application**

Normally closed function

Orifice size

Κv

Port connection Body material

Seal material

: BSP, NPT 1/4" or 1/2" : Brass or stainless steel

: PEEK/FPM, PCTFE/FPM or PTFE/FPM

: 5.0 to 12.0 mm

: 0.6 to 2.6 m³/h

Media temperature

Voltage

Duty cycle

: -10 to +80°C

: 1 up to 250 bar Pressure range : 24V, 110V, 230V AC 50 or

60Hz, 24VDC

: 100% ED

Electrical connection

: Cable plug to IP65

Range of Solenoid Valves for Aggressive Fluids

- Chemical, Acid, Alkaline, Ultra Pure Water



Type 0330

2/2 way, 3/2 way, Direct Acting Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System and with Manual Override

Normally closed, normally open, diverting, mixing or universal function

: 2.0 to 4.0 mm, Orifice size 0.11 to 0.29 m³/h Κv BSP, NPT, PT 1/4" Port connection Body material Stainless steel Seal material EPDM or FPM EPDM -30 to +90°C, Media temperature FPM -10 to +90°C

0 up to 16 bar 24V, 110V, 230V AC 50 or Pressure range Voltage

60Hz, 24VDC 100% ED Duty cycle Electrical connection : Cable plug to IP65



Type 0124

2/2 way, 3/2 way, Direct Acting Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System and with Manual Override Standard

Normally closed, normally open, diverting, mixing

or universal function

Orifice size : 2.0 to 5.0 mm, : 0.13 to 0.4m3/h BSP, NPT, PT 1/4" PP, PVDF Port connection Body material : EPDM or FPM Seal material Media temperature : EPDM -30 to +80°C,

FPM -10 to +80°C : 0 up to 16 bar

: 24V, 110V, 230V AC 50 or 60Hz, Voltage

24VDC : 100% ED

Duty cycle Electrical connection : Cable plug to IP65



Pressure range

Type 6212

2/2 way, Servo Assist Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System.

Normally closed or normally open function

Orifice size : 10.0 to 20.0 mm : 1.9 to 8.3 m³/h Κv Port connection: BSP, NPT, PT 3/8" to 1" Body material: Stainless Steel

Seal material : EPDM or FPM : 0 to +50°C Media temperature

Pressure range : 0.2 up to 10 bar (Normally

Closed)

0.2 to 6 bar (Normally Open) : 24V, 110V, 230V AC 50 or Voltage

60Hz, 24VDC : 100% ED

Duty cycle : Cable plug to IP65 Electrical connection



Type 5282

2/2 way, Servo Assist Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System, Opening and Closing Time Adjustment and Manual Override Standard Normally closed or normally open function Orifice size : 20.0 to 50.0 mm

5.0 to 40.0 m³/h Port connection: BSP, NPT, PT 1/2" to 2", Body material : Stainless Steel

Seal material EPDM or FPM EPDM -30 to +90°C, Media temperature FPM -10 to +90°C : 0.2 up to 10 bar

Pressure range : 24V, 110V, 230V AC 50 or 60Hz, 24VDC Voltage

: 100% ED

Duty cycle Electrical connection : Cable plug to IP65



Κv

Type 0121

2/2 way, 3/2 way, Direct Acting Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System and with Manual Override Standard

Normally closed, normally open, diverting, mixing or universal function

Orifice size : 0 to 8.0 mm : 0.1 to 1.0 m³/h Port connection BSP 1/4" or 3/8",

Solvent Socket Ø16mm (PVC) Body material : Stainless steel, PTFE, PVC, PP,

: FPM, FFKM

Seal material : 10 to +50°C(PVC), Media temperature -10 to +90°C

Pressure range 0 up to 6 bar

: 24V, 110V, 230V AC 50Hz,24VDC Voltage

Duty cycle : 100% ED Electrical connection : Cable plug to IP65



Κv

Type 0131

2/2 way, 3/2 way, Direct Acting Solenoid Valves With Double Sealing Design Isolating Media From Solenoid System and with Manual Override Standard

Normally closed, normally open, diverting, mixing or universal function

Orifice size : 10.0 to 20.0 mm 2.0 to 6.0 m³/h

BSP, NPT, PT 3/8" to 3/4", Port connection Solvent (PVC), Heat fusion (PVDF) socket Ø16 to Ø25 mm

Body material PVC, PVDF : EPDM or FPM Seal material Media temperature : 0 to +50°C(PVC), 0 to +70°C(PVDF) Pressure range : 0 up to 3 bar

: 24V, 110V, 230V AC 50 or Voltage

60Hz, 24VDC Duty cycle : 100% ED : Cable plug to IP65 Electrical connection



Κv

Type 0142

2/2 way. Servo Assist Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System and Manual Override Standard

Normally closed or normally open function

15.0 to 50.0 mm 5.0 to 36.0 m³/h

PVC: BSP, NPT, PT 1/2" to 2", Port connection

PVC: DIN, JIS, ASTM Solvent

Socket,

PVDF: DIN Heat fusion socket

Body material : PVC, PVDF Seal material : EPDM or FPM : 0 to +50°C(PVC), Media temperature 0 to +70°C(PVDF) : 0.5 up to 6 bar Pressure range

24V, 110V, 230V AC 50 or Voltage

60Hz, 24VDC : 100% ED

Duty cycle Electrical connection : Cable plug to IP65

Range of Solenoid Valves for Pneumatic Application

- Pilot Valves, Valve Islands



Orifice size Port connection

Body material Manifold material Seal material Media temperature Pressure range Voltage

Duty cycle

Electrical connection



Orifice size QNn Port connection

Body material Manifold material Seal material Media temperature

Pressure range Voltage

Duty cycle

Electrical connection

Type 6012

3/2 way, Direct Acting Miniature Solenoid Valves with or without Manual Override

Normally closed or normally open function

- 1.2 to 1.6 mm
- 48 to 65 l/min
- M5, BSP, NPT, PT 1/8" or sub-base for manifold mounting. Manifold with BSP 1/8"
- Brass or Polyamide
- Aluminum
- FPM
- -10 to +100°C
- 0 up to 10 bar
- 24V, 110V, 230V AC 50 or 60Hz, 24VDC 100% ED (60%ED for block
- assembly) : Cable plug to IP65

Type 0330 Type 0331

3/2 way, Direct Acting Solenoid Valves With Separating Diaphragm Isolating Media From Solenoid System and with Manual Override Standard

Normally closed, normally open, or universal function

- : 2.0 to 4.0 mm
- 86 to 215 l/min
- BSP, NPT, PT 1/4" or sub-base for manifold mounting. Manifold with BSP 1/4"
- Brass or stainless steel
- Aluminum
- NBR or FPM
- NBR 0 to +80°C
- FPM -10 to +90°C 0 up to 16 bar
- 24V, 110V, 230V AC 50 or
- 60Hz, 24VDC 100% ED (60%ED for block
 - assembly)
- : Cable plug to IP65





Orifice size QNn

Port connection

Body material Manifold material Seal material Media temperature Pressure range

Voltage Duty cycle

Electrical connection

Type 6014 Type 0313

3/2 way, Direct Acting Solenoid Valves, with or without Manual Override

Normally closed or normally open function

: 1.5 to 2.5 mm

75 to 172 l/min

BSP, NPT, PT 1/8", 1/4" or sub-base for manifold mounting. Manifold with BSP 1/8"

Brass or Polyamide

Aluminum

- NBR or FPM
- -10 to +100°C 0 up to 16 bar
- 24V, 110V, 230V AC 50 or
- 60Hz, 24VDC
- : 100% ED (60%ED for block
- assembly)

: Cable plug to IP65



Orifice size QNn

Port connection

Body material Manifold material Seal material Media temperature Pressure range

Voltage

Duty cycle

Electrical connection

Type 6106

3/2 way, Miniature Direct Acting Solenoid Valves With Rocker System for High Speed Switching with Manual Override Standard

Normally closed or normally open function

- : 0.9 to 1.2 mm
- 22 to 40 l/min
- M5 or sub-base for manifold mounting. Manifold with BSP 1/8"
- Polyamide
- Aluminum
- **FPM**
- 0 to +55°C,
- Vacuum up to 10 bar 24V, 110V, 230V AC 50 or 60Hz, 24VDC
- 100% ED (60%ED for block
 - assembly)
- : Cable plug to IP65



Port connection

Body material Manifold material Seal material Media temperature Pressure range Voltage

Electrical connection

Duty cycle

Type 5411 Type 5413

3/2 way, 4/2 way, Servo Assist Poppet Design Solenoid Valves with Manual Override Standard

Normally closed, normally open or switch over function

6.0 mm Orifice size 900 l/min : BSP, NPT, PT 1/4" or manifold

- mounting. Manifold with BSP 1/4" Polyamide Aluminum **NBR**
- 0 to +60°C 1 to 10 bar
- 24V, 110V, 230V AC 50 or 60Hz, 24VDC
- 100% ED (60% ED for block assembly)
- : Cable plug to IP65



Port connection

Body material Manifold material Seal material Media temperature Pressure range Voltage

Duty cycle

Electrical connection

Type 5420

4/2 way, Servo Assist Solenoid Valves with Manual Override and Intergrated Flow Restrictors Standard

Switch over function

Orifice size ONn 200 I/min : BSP, NPT, PT 1/8", Tube fitting

3.0 mm

- SL6/4mm or manifold mounting. Manifold with BSP 1/8"
- : Polyamide : Aluminum
- : NBR : 0 to +60°C
- 2.5 to 10 bar : 24V, 110V, 230V AC 50 or
- 60Hz, 24VDC : 100% ED (60%ED for block
- assembly)
- : Cable plug to IP65

Range of Solenoid Valves for Pneumatic Application

- Pilot Valves, Standard Valve Islands



Type 6518 Type 6519 Type 6519 Namur

3/2 way, 5/2 way, 5/3 way, Servo Assist High Flow Capacity Solenoid Valves with Manual Override Standard



Orifice size

Port connection

Body material

Seal material

Pressure range

Voltage

Duty cycle

Media temperature

Electrical connection

QNn

Type 6012 Banjo Type 6014 Banjo

: 1.2 to 2.0 mm

or 1/4"

: FPM

: 48 to 120 l/min

3/2 way, Direct Acting Solenoid Valves For Direct Mounting to Actuator with Manual Override Standard Normally closed function

BSP, NPT, PT 1/8" or 1/4", Tube

fitting 6mm, Banjo with BSP 1/8"

: Brass/Aluminum or Polyamide

: 0 to +50°C(Polyamide),

: 24V, 110V, 230V AC 50 or

0 to +90°C(Brass)

: 0 up to 10 bar

60Hz, 24VDC

: Cable plug to IP65

: 100% ED



Normally closed, normally open, switch over, closed middle or vented middle function. Single or Double Coils version.

Orifice size : 8.0 to 9.0 mm QNn : up to 1,300 l/min

: BSP, NPT, PT 1/4", Namur or Port connection block (gang) mounting. Block

inlet 1/2"

Body material : Polyamide or Aluminum (5/3 way)

Manifold material : Aluminum Seal material : NBR/PUR, NBR Media temperature : 0 to +50°C Pressure range : 2 to 8 bar

: 24V, 110V, 230V AC 50 or Voltage

60Hz, 24VDC

: 100% ED (60% ED for block Duty cycle

assembly)

Electrical connection : Cable plug to IP65 (Other

electrical connection, multi-pin, common poles on request)



Type 5470 Individual Type 5470 Block/ **Extendable Assembly** Type 5470 Namur

3/2 way, 4/2 way, Servo Assist Solenoid Valves with Rocker System and Manual Override Standard

Normally closed, normally open or switch over function

Duty cycle

Type 0340

3/2 way, Servo Assist Solenoid Valves For High Flow Application

Normally closed or normally open function

: 8.0 to 40.0 mm Orifice size : 1,030 to 25,000 l/min QNn : BSP 1/4" to 11/2" Port connection

Body material : Brass : NBR Seal material 0 to +90°C Media temperature Pressure range : 0.5 to +16 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC : 100% ED

Electrical connection : Cable plug to IP65



: 4.0 mm : 300 l/min

BSP, NPT, PT 1/8", Tube fitting 6mm Port connection or block (gang) mounting. Block inlet 1/4" or Tube fitting 8mm

Body material : Polyamide : Polyamide Base block material Seal material : NBR Media temperature : 0 to +50°C Pressure range 2 to 10 bar

24V, 110V, 230V AC 50 or 60Hz, 24VDC

Duty cycle

Voltage

: 100% ED (60% ED for block

assembly)

Electrical connection : Cable plug to IP65 (Other electrical connection, multi-pin, common poles

on request)



3/2 way, 5/2 way, Servo Assist Solenoid Valves with Manual Override Standard

Normally closed, normally open or switch over

function

Orifice size : 5.0 mm QNn : up to 750 l/min

: BSP, NPT, PT 1/4" / Namur Port conn Body material: Polyamide/Aluminum

Seal material: NBR

0 to +60°C Media temperature Pressure range : 1.5 to 10 bar

Voltage : 24V, 110V, 230V AC 50 or

60Hz, 24VDC

Duty cycle : 100% ED Electrical connection : Cable plug to IP65

Range of Solenoid Valves for Pneumatic Application

- Valve Islands with Fieldbus Interface / Electrical and Pneumatic Automation System



Valve islands with fieldbus interface are valve blocks with a common electrical control. Valve blocks are conventionally connected and controlled with single wiring. In the case of a valve island with fieldbus interface, communication is implemented within the system.

AirLINE System
Type 8644, WAGO I/O system
Type 8644, Phoenix INLINE System
Type 8644, Siemen ET 200S System
Type 8644, Rockwell Point I/O System

Type 8640, 33 mm width per station

AirLINE Electrical and pneumatic automation system is a distributed periphery and innovative I/O systems for ideal solutions in the control

The I/O systems are available from a number of manufacturers, e.g.:

- Siemens:SIMATIC ET 200S
- Phoenix Contact: INLINE-System
- WAGO:I/O-System 750
- Rockwell:Point I/O-System.

More flexible, smaller, faster and less expensive - these are the trends in automation. Distributed periphery means plugging in instead of wiring. The automatic cross-wiring is achieved by an integrated plug connection system.

With their high flexibility, distributed peripherals ensure long-term savings.Wiring and piping are very easy and the fine modular design of the systems allows multi-functional use of the station. One other advantage is the reduction in space required in the control cabinet.

These distributed peripheral systems have one thing in common: input and output system and valve block with fieldbus interface are integrated in a single unit.

This system is the universal interface between the process and installation control. Sensor inputs are scanned via binary and analog input modules and final control elements or complete, distributed

Valve islands with fieldbus interface are latched together from individual modules. All interfaces within a series are fully compatible. The most important modules are as follows:

- Basic pneumatic modules for width per station 11, 16.5, 19 and 33 mm with differing numbers of valve positions; maximum number of valves on a valve block with fieldbus interface: 24 (up to 168 valves can be addressed via RIO expansion)
- Valves are screwed on to the basic pneumatic modules from the
- Pneumatic connector modules for connection of the compressed air and exhaust air
- Basic electrical modules (power supply, feedback indicator, manual-automatic switch, external deactivation devices, digital outputs, etc.)
- Feedback indicator for digital inputs on the valve block with fieldbus interface, max. 32
- An additional 48 digital inputs or outputs can be integrated via a separate I/O module.
- Conventional electrical control with bus terminal and multi-pin
- Electrical control via fieldbus modules (Profibus, Interbus, DeviceNet, CANopen, Selecan and AS-i)
- Up to 7 valve terminals with field-bus interface can be controlled with a fieldbus node via RIO expansion (with PROFIBUS).
- Other special features include Integrated check valve in the P-Channel for easy valve replacement without interruption to operation and/or Integrated check valves in the R-Channel to eliminate switching errors due to congestion in the exhaust duct.

All module versions are described in full detail on the data sheets or in the configurator for valve blocks with fieldbus interface, Type 8640.

control systems, e.g. for flowrate, pressure, temperature, filling level and chemical parameters, are controlled via corresponding binary and analog output modules. Pneumatic outlets with an extremely wide variety of circuit functions and flow rates switch single or double-acting process valves. AirLINE can be set up without tools by means of an extremely simple snap-on mechanism on a standard rail. This enables a flexible, application-oriented configuration.

AirLINE offers the option of integrating the following pneumatic functions in distributed, fieldbus enabled I/O system platforms:

• 3/2-way, 5/2-way monostable, 5/2-way bistable and 5/3-way

- functions
- 11 mm width per station, flow rate of up to 300 NI/min
- 16.5 mm width per station, flow rate of up to 700 NI/min
- Various flow rates can be combined in one system
- Pressure range from vacuum to 10 bar
- 64 valves per station.

In addition, other functions are offered to the user:

- Integration of check valves (for a description, see above: Valve blocks with fieldbus interface)
- Integration of P shut-off (for a description, see above: Valve blocks with fieldbus interface)
- Various pressure stages can be implemented in an interlinked system
- Grouped supply and exhaust air
- Valves are accessible from the front
- Option for subsequent on-site expansion
- Intelligent pressure measuring module for processing limit values, threshold values and a great deal more.

Summary of AirLINE system advantages:

- Function oriented configuration of distributed units
- No cross-wiring
- Clear reduction in control cabinet configuration
- Only one fieldbus interface for the entire functional unit
- Simple configuration and expansion options directly on-site
- Maximum flexibility due to fine modularity
- Space saving in the control cabinet

Selection criteria for pilot valves and pilot valve units

- Number of actuators to be controlled
- Control signal direct or from a central control unit
- Control without and/or with communication
- Operating voltage Minimum pilot air flow rate for the actuator
- Required tube length between pilot valve and actuator
- Mounting method on actuator with single valves
- Valve block with mounting in the field; short tubes
- Valve block with fieldbus interface, with mounting in control room/ control cabinet; long tubes.

Range of Angle Seat, Globe & General Purpose Diaphragm Pneumatic Operated On/Off Valves

- For almost any applications



Type 2000

2/2 way, Angle Seat

Valve

- Flow Above Seat

- Flow Below Seat (Water Hammer Free)

Normally closed or normally open with spring return actuator or double acting function.

Orifice size : 15.0 to 65.0 mm Kv : 3.7 to 77.0 m³/h

Port connection : BSP, NPT, PT 1/2" to 21/2",

Flanged (DIN) DN15 to DN50 (Weld ends and Tri-Clamp version on request)

Actuator size : Ø 40mm to Ø 125mm
Body material : Gunmetal or stainless steel

Actuator material : Polyamide or PPS
Seal material : PTFE
Media temperature : 0 to +180°C
Media Pressure range : 0 to 16 bar

(max. 10 bar for steam)

Pilot Pressure : 3 to 10 bar



Type 2002

3/2 way, Double Seat Globe Valve

Normally closed, normally open, mixing, diverting or universal with spring return actuator or double acting function.

 Orifice size
 : 15.0 to 50.0 mm

 Kv
 : 9.0 to 37.0 m³/h

 Port connection
 : BSP, NPT, PT 1/2" to 2"

 Actuator size
 : Ø 50mm to Ø 125mm

Body material : Gunmetal
Actuator material : Polyamide
Seal material : PTFE
Media temperature : 0 to +180°C
Media Pressure range : 0 to 16 bar

(max. 10 bar for steam)

Pilot Pressure : 4 to 10 bar



Type 2030 Plastic

2/2 way, Diaphragm Valve

Normally closed or normally open with spring return actuator or double acting function.

Orifice size : 15.0 to 100.0 mm Kv : 3.5 to 160 m³/h

Port connection : Socket union, Fusion spigot,

Flange

(Other connections on request)

Actuator size : Ø 50mm to Ø 225mm Body material : PVC, PVDF or PP

Actuator material : PA

Seal material : EPDM, PTFE/Butyl or PTFE/

EPDM

Media temperature : 0 to +130°C(PVDF)

0 to 60°C(PVC)

Media Pressure range : 0 up to 10 bar Pilot Pressure : 5 to 7 bar



Type 2012

2/2 way, Globe Valve

- Flow Above Seat
- Flow Below Seat (Water Hammer Free)

Normally closed or normally open with spring return actuator or

double acting function.

Orifice size : 15.0 to 100.0 mm Kv : 4.7 to 170.0 m³/h

Port connection : BSP, NPT, PT 1/2" to 21/2",

Flanged DN10 to DN100 (DIN, JIS, ANSI) (Weld ends and Tri-Clamp

version on request)

Actuator size : Ø 40mm to Ø 225mm

Body material : Stainless steel

Actuator material : Polyamide or PPS

Seal material : PTFE

Media temperature : 0 to +180°C

Media Pressure range : 0 to 16 bar

(max. 10 bar for steam) : 3 to 10 bar

Pilot Pressure

Pilot Pressure

Type 2031GP

- Cold Form Tube Stainless Steel, 2/2 way, Diaphragm Valve

Normally closed or normally open with spring return actuator or double acting function.

Orifice size : 8.0 to 100.0 mm

Kv : 1.0 to 265.0 m³/h

Port connection : BSP, NPT, PT 1/2" to 2", Flanged or weld ends (DIN)

DN15 to DN100

Actuator size : Ø 40mm to Ø 225mm

Body material : Stainless steel 1.4404

Actuator material : Polyamide, PPS (on request)

Seal material : EPDM or PTFE/EPDM

Surface finish : Glass bead (1.6 μm)

Media temperature : -10 to +130°C,

Media Pressure range : 0 to 10 bar

: 5 to 10 bar

Range of Diaphragm Valves Manual And Pneumatic Operated On/Off Valves

- For Ultra Pure, Sterile and Hygienic Applications



Type 2031 Pneumatic Operated Type 3233 Handwheel Operated Forged Stainless Steel, 2/2 way, Diaphragm Valve

Orifice size: 8.0 to 100.0 mm : 1.0 to 235.0 m³/h

: Weld ends to DIN,BS, Port conn. ISO, SMS Tri-Clamp to DIN, ISO, SMS, ASME

(Other connections on request)

Body material Forged or Block Stainless steel 316Ľ/1.4435/BN2

EPDM or PTFE/EPDM $Ra \le 0.25 \mu m$ to $\le 0.5 \mu m$ Internal $Ra \le 0.25 \mu m$ to $\le 6.3 \mu m$ External

Media temperature -10 to +130°C Media Pressure range 0 to 10 bar

FDA, 3A, EN-ISO 10204 3.1B, Certification available

others on request

Pneumatic Operated Version

Normally closed or normally open with spring return actuator or

double acting function.

Seal material

Surface finish:

: Ø 40mm to Ø 225mm Actuator size PPS (Actuator Ø 40mm to Ø 125mm) Actuator material PA (Actuator Ø 175mm to Ø 225mm)

Pilot Pressure : 5 to 7 bar

Handwheel Operated Version

: PPS or Stainless steel Handwheel material Bonnet material : PPS or Stainless steel



Type 2032 Pneumatic Operated Type 3234 Handwheel Operated Zero Deadleg T Diaphragm Valve

Orifice size: 8.0 to 50.0 mm 1.0 to 51.5 m³/h Conn. Size: DN4 up to DN100 mm

Weld ends to DIN, ISO, SMS, ASME, BS Tri-clamp to DIN, ISO, Port conn. : SMS, ASME

(Other connections on request)

Monoblock Stainless steel Body material 316L/1.4435/BN2

EPDM or PTFE/EPDM Seal material Surface finish: Internal $Ra \le 0.25 \mu m$ to $\le 0.8 \mu m$ $Ra \le 0.25 \mu m$ to $\le 1.6 \mu m$ External

-10 to +130°C Media temperature Pilot Pressure 0 to 10 bar

Certification available FDA, 3A, EN-ISO 10204 3.1B, others on request

Pneumatic Operated Version

Normally closed or normally open with spring return actuator or

double acting function.

Actuator size Ø 40mm to Ø 125mm : PPS, PA (on request) : 5 to 7 bar Actuator material

Control Pressure range andwheel Operated Version

PPS or Stainless steel Handwheel material : PPS or Stainless steel Bonnet material



Type 2031 Pneumatic Operated Type 3233 Handwheel Operated

Cast Stainless Steel, 2/2 way, Diaphragm Valve

Orifice size : 4.0 to 50.0 mm : 1.0 to 51.5 m³/h Κv Weld ends to DIN, ISO, Port connection

SMS Tri-Clamp to DIN, ISO, SMS, BS (Other connections on request)

: Investment cast Stainless Body material steel 316L/1.4435 : EPDM or PTFE/EPDM

Seal material Surface finish

Internal : $Ra \le 0.6 \mu m$ to $\le 6.3 \mu m$: Ra \leq 3.2 μ m to \leq 6.3 μ m External

Media temp. : -10 to +130°C Media Pressure : 0 to 10 bar Certification

available : FDA, 3A, others on request

Pneumatic Operated Versio

Normally closed or normally open with spring return actuator or double acting function. Actuator size : Ø 40mm to Ø 125mm Actuator material : PPS, PA (on request)

Pilot Pressure : 5 to 7 bar Handwheel Operated Version

Handwheel material: PPS or Stainless steel Bonnet material : PPS or Stainless steel



Type 2033 Pneumatic Operated Type 3235 Handwheel Operated

Tank Bottom Diaphragm Valve Orifice size: 15.0 to 100.0 mm : 4.0 to 235.0 m³/h

Port connection

Tank flange : F85 to F300 mm

DN15 up to DN100 mm, Weld Outlet ends to DIN, ISO, SMS, ASME Tri-Clamp to DIN, ISO, SMS,

BS (Other connections on request)

Body mat. Monoblock or weld Stainless

steel 316L/1.4435 : EPDM or PTFE/EPDM Seal material

Surface finish:

 $Ra \le 0.25 \mu m$ to $\le 0.5 \mu m$ Internal External $Ra \le 0.25 \mu m$ to $\le 3.2 \mu m$: -10 to +130°C

Media Pressure range : 0 to 10 bar

: FDA, 3A, EN-ISO 10204 3.1B, Certification available

others on request

Pneumatic Operated Version

Normally closed or normally open with spring return actuator or double

acting function. Actuator size

Media temperature

: Ø 50mm to Ø 225mm : PPS, PA (on request) : 5 to 7 bar Actuator material

Pliot Pressure range Handwheel Operated Version

Handwheel material : PPS or Stainless steel : PPS or Stainless steel Bonnet material



Customized Welded Solutions

GMP welded solutions

Burkert offers customized welded solutions with manually or pneumatically operated valves. All systems are developed allowing for optimum cleanability (GMP compliance). The dead volumes and number of welding seams are reduced to a minimum.

SAP (Sterile Access Port)

This welded solution is particularly well-suited to sampling media. Other applications include sterilization, condensate drain or CIP cleaning.

Customized Multifunction Blocks

These valve solutions for the aseptic sector are developed with a special CAD system in order to necessitate as little space and dead volume as possible in accordance with customer requirements. The blocks are made of solid stainless steel (316L), thus allowing a compact design with zero dead volumes and welding seams. A special software package is used to optimize the block design in terms of the

Range of Ball Valves

- Manual And Pneumatic Operated On/Off Valves

- For more demanding Applications



Type MV2650-2 Lever Operated
Type AV2650-2 Pneumatic Operated
Type EV2650-2 Electric Operated
2/2 way, 2 pcs Body Design Quarter Turn
Full Bore Ball Valve

Orifice size : 15.0 to 80.0 mm Kv : 11.0 to 506.0 m³/h Body material : Investment Cast Stainless steel CF8M

Seat : RPTFE or MG1241
Port conn. : BSP, NPT, PT 1/2" to 3", (other connection

available on request)

Media temp. : -10 to +120°C(RPTFE)

Up to +180°C(MG1241)

Media Pressure
range : Up to PN100 depending

: Up to PN100 depending on type and size of actuator



Type MV2650-4 Lever Operated
Type AV2650-4 Pneumatic Operated
Type EV2650-4 Electric Operated
3/2 way, 4 pcs Body Design Quarter Turn

Regular Port Ball Valve
Orifice size :10.0 to 40.0 mm
Kv : 8.0 to 103.0 m³/h
Body material : Investment Cast

Stainless steel CF8M
Seat : RPTFE or MG1241
Configuration : L port or T port version

(mixing or diverting)
Port conn. : BSP, NPT, PT 1/2" to 2", (other connection

available on request)

Media temp. : -10 to +120°C(RPTFE)

Up to +180°C(MG1241) Media Pressure

range : Up to 64 bar depending on type and size of

actuator



Type MV2650-VK
Plastic Lever Operated
Type AV2650-VK

Plastic Pneumatic Operated **Type EV2650-VK**

Plastic Electric Operated 2/2 way, Quarter Turn Plastic Ball Valve

Orifice size : 10.0 to 100.0 mm

Kv : 4.8 to 570.0 m³/h

Body material : uPVC (other material on

request)
Seat/Seal : PTFE/EPDM or PTFE/FPM
Port conn. : True union socket ends

ort conn. : True union socket ends Ø16 to Ø110 mm (DIN

> standard) (other standard eg. ASTM,

JIS or threaded ends available on request) : 0 to +60°C(reduction

Media temp. : 0 to +60°C(reduction in rated pressure with increase in temperature

>20°C)

Media Pressure

range : Up to 16 bar

(DN10 to DN50 mm) Up to 10 bar (DN65 to DN100 mm)



Type MV2650-3 Lever Operated
Type AV2650-3 Pneumatic Operated
Type EV2650-3 Electric Operated
2/2 way, 3 pcs Body Design Quarter
Turn Full Bore Ball Valve

Kv : 2.0 to 773.0 m³/h
Body material : Investment Cast
Stainless steel CF8M
Seat : RPTFE or MG1241
Port conn. : BSP, NPT, PT 1/2" to 4"

Orifice size : 15.0 to 100.0 mm

(other connection available on request) Media temp. : -10 to +120°C(RPTFE)

Up to +180°C(MG1241) Media Pressure

range : Up to PN64 depending on type and size of actuator



Type MV2650-FL Lever Operated
Type AV2650-FL Pneumatic Operated
Type EV2650-FL Electric Operated
2/2 way, 2 pcs Body Design Quarter Turn
Full Bore Ball Valve

Orifice size : 15.0 to 200.0 mm

Kv : 8.0 to 8,412.0 m³/h

Body material: Investment Cast Stainless

steel CF8M
Seat : RPTFE or MG1241
Port conn. : Flange to ANSI150#,
JIS10K or DIN PN10/16

JIS10K or DIN PN10/16 (other connection and pressure class available on request)

Media temp. : -10 to +120°C(RPTFE) Up to +180°C(MG1241)

Media Pressure

range : According to pressure

class of connection



Stainless Steel Lever with locking device for stainless steel ball

uPVC Lever for plastic ball valve Pneumatic Operated Version

Normally closed or normally open with spring return actuator or double acting function.

Media Pressure range: 0 to 10 bar (Up to 100 bar possible with different sizes of pneumatic

actuator)

Pneumatic Actuator : Rack and pinion type

Actuator Material : Extruded aluminium alloy gold anodized

body, die cast aluminium alloy black epoxy coated end caps, carbon steel

zinc plated pinion

Pilot Pressure range : 5 to 8 bar

Option : Manual override, Electric Feedback,

Pilot Valve, Positioner

Electric Operated Version

Synchronous motor electric actuator with manual override and 2x additional limit switches for electric feedback as standard Media Pressure range: 0 to 10 bar (Up to 100 bar possible with different sizes of electric actuator)

Actuator Material : Cover of ABS, Housing of PA, Axis of Stainless steel, Gear of Steel and PC

Voltage : 24V, 110V, 230V AC 50 or 60Hz,

24VDC

Duty cycle : 50%

Operating time : 9 to 100 sec

Type of protection : IP65

Option : Potentiometer feedback, positioner version with 4...20mA input

Range of Ball Valves

Range of Butterfly Valves

- Manual And Pneumatic Operated On/Off Valves

- For higher flow applications



Type ST2670-MV-Wafer Lever or Gear Operated Type ST2670-AV-Wafer Pneumatic Operated

Type ST2670-EV-Wafer

Electric Operated 2/2 way, Quarter Turn Wafer Pattern Butterfly Valve

Orifice size : 50.0 to 600.0 mm : 69.0 to 24,397.0 m³/h

Body material : Ductile Iron (Cast Iron, Stainless steel and others on request)

Disc and stem material (other material on request)

: EPDM as standard, (FPM, PTFE Seat

: Wafer type, suitable for mounting Design

flanges

(Cartridge type seat version, for higher pressure and easy seat replacement, available on

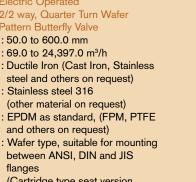
request)

: -30°C to +110°C(EPDM) Media temperature (higher temperature version depending on seat material on

: PN10/16, ANSI150lbs, JIS5/10K Pressure rating

Media tight shut off pressure: 20 bar (Standard seat)

22 bar (Cartridge seat)



seat replacement, available on request) : -30°C to +110°C(EPDM) Media temperature (higher temperature version depending on seal material on request) Pressure rating : PN10/16, ANSI150lbs, JIS5/10K Media tight shut off pressure: 20 bar (Standard seat) 22 bar (Cartridge seat)

Common Data

Orifice size

Seat

Design

Body material

Disc and stem material

Lever or Gear Operated Version

Steel lever or gear with locking device for metal butterfly valve uPVC Lever for plastic butterfly valve

Pneumatic Operated Version

Normally closed or normally open with spring return actuator or

double acting function.

Possible valve Size : Metal butterfly valve

> Up to DN300 for double acting version Up to DN250 for spring return version

Type ST2670-MV-Lug

Type ST2670-AV-Lug

Type ST2670-EV-Lug

2/2 way, Quarter Turn Lug Pattern

: Ductile Iron (Cast Iron, Stainless

: EPDM as standard, (FPM, PTFE

: Lug type according to ANSI, DIN

(Cartridge type seat version,

for higher pressure and easy

steel and others on request) : Stainless steel 316

(other material on request)

and others on request)

or JIS standard

Lever or Gear Operated

Pneumatic Operated

Electric Operated

: 50.0 to 600.0 mm

: 69.0 to 24,397.0 m3/h

Butterfly Valve

Plastic butterfly valve Up to DN200

Media Pressure range: 0 to 10 bar (higher pressure possible

with different sizes of pneumatic

actuator)

Pneumatic Actuator : Rack and pinion type

: Extruded aluminium alloy gold anodized **Actuator Material**

body, die cast aluminium alloy black epoxy coated end caps, carbon steel

zinc plated pinion

Pilot Pressure range : 5 to 8 bar

: Manual override, Electric Feedback, Option

Pilot Valve, Positioner

Electric Operated Version

Synchronous motor electric actuator with manual override and 2x additional limit switches for electric feedback as standard Possible valve Size : Up to DN150 (metal and plastic valve) Media Pressure range: 0 to 10 bar (higher pressure possible with different sizes of electric actuator)

: Cover of ABS, Housing of PA, Axis of **Actuator Material** Stainless steel, Gear of Steel and PC

: 24V, 110V, 230V AC 50 or 60Hz, Voltage

24VDC

: 50% Duty cycle Operating time : 9 to 100 sec Type of protection : IP65

: Potentiometer feedback, positioner Option version with 4...20mA input



Orifice size

Stem material

Seat and seal

Media temperature

Media Pressure range

Pressure rating

Design

Body and disc material

Electric Operated

Type EV2670-FE-Plastic

Type AV2670-FE-Plastic

Type MV2670-FE-Plastic

Pneumatic Operated

Lever Operated

2/2 way, Quarter Turn uPVC Butterfly Valve

: 40.0 to 200.0 mm : 69.0 to 1,830.0 m³/h : uPVC (others on request)

: Zinc plated steel (others on request)

: EPDM or FPM : Wafer type, suitable for

mounting between ANSI, DIN and JIS flanges

: 0 to +60°C(reduction in rated pressure with increase in

: PN10/16, ANSI150lbs,

JIS5/10K

(DN65 to DN200 mm)

temperature >20°C) : Up to 16 bar (DN40 & DN50 mm) Up to 10 bar



Range of Pneumatic Operated Continuous Control Valve Angle Seat, Globe or Diaphragm Design

- With Top or Side Control (Smart Positioner with Integrated PID Controller)



Orifice size Port connection

Actuator size Body material

Actuator material Seal material Nominal pressure (body)

Media temperature Media Pressure range Control media Pilot pressure Flow direction Control ratio Positioner Type



Seal material Media temperature Media Pressure range Pilot Pressure

Positioner Type

General Purpose Cold Form Tube Orifice size Port connection

DN100 (Weld ends on request) Ø 80mm to Ø 225mm
Polyamide, PPS (on request) Actuator size Actuator material : Glass bead (1.6 µm) Surface finish

Steel Version Body material

Orifice size Port connection

Surface finish: Internal

Certification available Actuator size Actuator material s Steel Version

Body material Orifice size

Port connection

Surface finish Certification available

Actuator size Actuator material Type 2632 / 2702

2/2 way, Pneumatic Actuated Angle Seat Proportional Control

Normally closed or normally open with spring return actuator 13.0 to 50.0 mm 0.5 to 35.0 m³/h

BSP, NPT, PT 1/2" to 2" Weld ends to ISO, DIN, SMS, other on request Ø 80mm to Ø 100mm

Cast Stainless steel 316L Polyamide (PPS on request) SS/SS or PTFE/SS

PN25 0 to +180°C

0 to 16 bar (max. 10 bar for steam)

Instrument air 5.5 - 7 bar Below seat 50:1

Top control 8630, Side control 1067 or 8635 (Please refer to Positioner for further details)

Type 2731

2/2 way, Pneumatic Actuated Diaphragm Pattern Proportional Control Valve General Purpose, Cast Stainless Steel or Forged Stainless Steel

Normally closed or normally open with spring return actuator : EPDM or PTFE/EPDM

: -10 to +130°C 0 to 10 bar 5 to 7 bar

: Top control 8630, Side control 1067 or 8635 (Please refer to Positioner for further details)

Stainless steel 1.4404 8.0 to 100.0 mm 1.0 to 265.0 m³/h BSP, NPT, PT 1/2" to 2"

Flanged or weld ends (DIN) DN15 to

: Investment cast Stainless steel

316L/1.4435 : 4.0 to 50.0 mm 1.0 to 51.5 m³/h

Weld ends to DIN, ISO, SMS Tri-Clamp to DIN, ISO, SMS, BS (Other connections on request) Ra \leq 0.6 μ m to \leq 6.3 μ m

Ra $\leq 3.2 \mu m$ to $\leq 6.3 \mu m$ FDA, 3A, others on request Ø 80mm to Ø 125mm PPS, PA (on request)

Forged or Black Stainless steel

316L/1.4435/BN2 8.0 to 100.0 mm 1.0 to 235.0 m3/h

Weld ends to DIN,BS, ISO, SMS Tri-Clamp to DIN, ISO, SMS, ASME

(Other connections on request) Internal: Ra $\leq 0.25 \mu m$ to $\leq 0.5 \mu m$ External: Ra $\leq 0.25 \mu m$ to $\leq 6.3 \mu m$: FDA, 3A, EN-ISO 10204 3.1B,

others on request Ø 80mm to Ø 225mm

PPS (Actuator Ø 40mm to Ø 125mm) PA (Actuator Ø 175mm to Ø 225mm)



Type 2712

2 way, Pneumatic Actuated Globe Pattern Proportional Control

Normally closed or normally open with spring return actuator 10.0 to 100.0 mm

: 0.5 to 140.0 m3/h

Port connection

BSP, NPT, PT 3/8" to 21/2", Flanged to DIN, ANSI, JIS standard Weld ends to ISO, DIN, BS or ASME BPE standard (Other version on request) : Ø 80mm to Ø 225mm

Actuator size Body material : Cast Stainless steel 316L Polyamide (PPS on request) Actuator material Seal material SS/SS or PTFE/SS : PN25 Nominal pressure (body)

: 0 to +180°C : 0 to 16 bar Media temperature Media Pressure range (max. 10 bar for steam)

Control media : İnstrument air Pilot pressure : Below seat Flow direction Control ratio : 50:1

: Top control 8630, Side control 1067 Positioner Type or 8635 (Please refer to Positioner

for further details)



2/2 way, Pneumatic Actuated Diaphragm Pattern Proportional

Normally closed or normally open with spring return actuator Orifice size 15.0 to 100.0 mm

: 4.0 to 160.0 m³/h : uPVC (PP or PVDF on request) : EPDM, PTFE/Butyl or PTFE/EPDM : 0 to 60°C(PVC) Body material Seal material

Media temperature Media Pressure range 0 up to 10 bar

: Socket union, Fusion spigot, Flange (Other connections on request) Port connection

Actuator size : Ø 80mm to Ø 225mm

Actuator material Pilot Pressure : 5.5 to 7 bar

: Top control 8630, Side control Valve actuation 1067 or 8635 (Please refer to

Positioner for further details)

Range of ElectroPneumatic Positioners for **Continuous Control Valve**

- Top or Side Control (Smart Positioners / with Integrated PID Controller)

Burkert no

positioner. We offer complete systems of intermatched process valves and integrated automation solution. The modular design of positioners allows individualized solutions with an optimum price/performance ratio.



Type 8630 TopControl

Smart Electropneumatic Positioner with Optional Process Controller for Linear Actuator

- · Compact design for mounting on linear actuators.
- All moving components for stroke feedback are protected by integrating them into the housing.
- Communication can be performed using PROFIBUS DP/DPV1 or DeviceNet.
- Set-point presetting via standard voltage or current signal (0(5)...10 V, 0(4)...20 mA)
- The process controller (PID) with automatic programming, optionally integrated, enables implementation of distributed process control loops at low cost.
- The input signals for the actual process frequency or PT100 value allow use of simple sensor systems without transmitter.
- Different internal pilots with differing air rates for adapting to actuator's volume.
- Low air consumption. No air consumption when system is in
- Optionally, up to two initiators can be integrated as limit switches
- Manageable and clearly structured operating concept featuring extensive software functionality.

: PPE/PA Material: Housing

Cover : PSU (transparent)

Input for position or

process set-point : 0(4)...20mA / 0....5/10V

Input for Process value for

PID controller : 4...20mA, PT100, Frequency Binary input : Make or break contact (for safe position)

Optional Position feedback

: 4... 20mA, 2 binary output, inductive proximity switches (option)

Optional Bus communication : Profibus DP or DeviceNet

Power Supply : 24V DC Type of protection : IP65 Ambient temperature : up to +50°C Pilot pressure : up to 7 bar

Position sensor system : Internal high resolution

potentiometer : Self - tuning

PID parameter



Linear or Rotary actuator. II (1)2G EEx ia IIC approval, optional integral process controller (PID), PROFIBUS PA or HART protocol

- The electronics system is designed on the basis of a 2-wire circuit: power supply via 4...20 mA signal or PROFIBUS PA
- Optional EEx ia IIC T4/T5/T6 (intrinsic safety) in accordance with
- Distributed control loops can be implemented if the integrated process controller with PID controller structure is selected.
- · Setting of the process controller parameters can be automated (S/HART).
- Easy usage in rough environments is ensured by the rugged design of the hard-coated and plastic-coated body and the design of the electronic components.
- Display and operating buttons are protected in the body.
- · Standard NAMUR and DIN IEC mounting on reciprocating and rotary actuators and on Bürkert control valves.
- Up to 2 initiators can be optionally integrated as limit switches, independent of the electronics.
- The pneumatic actuating system features a high air rate (55...170



Type 1067 SideControl

Smart Electropneumatic Positioner with Integral Process Controller for Linear or Rotary Actuator

- Compact body made of rugged aluminum.
- Integrated process controller (PID) allows implementation of distributed control loops optionally combined with analog feedback for central detection or evaluation.
- Clear operation due to plain text display and three section keypad.
- Standard NAMUR and DIN IEC mounting on linear and rotary actuators and on Bürkert control valves.
- For reasons relating to accessibility or difficult ambient conditions, a remote version can be used (remote from the positioning valve).
- Low air consumption. No air consumption when system is in steady state.
- Different internal pilot versions for differing air rates enables the positioner to be optimally matched to the actuator volume.
- The pneumatic actuating system can also be manually operated as an emergency function or for commissioning.
- Manageable and clearly structured operating concept featuring extensive software functionality.

Material: Housing : Aluminum, painted

Fluid Manifold : Aluminum Anodized

Input for position or process

set-point : 0(4)...20mA / 0...10V

Input for Process value for

PID controller : 4...20mA

Binary input : Make or break contact (for safe

position)

Optional Position feedback : 4...20mA (option)

Power Supply : 24V DC Type of protection : IP65 Ambient temperature : up to +60°C Pilot pressure : up to 6 bar

Position sensor system : External for Burkert Control Valve External for other linear actuator Internal for rotary turn actuator

PID controller parameter range

: 0.0 to 999.9 Proportional action factor Reset time : 0.5 to 999.9 : 0.0 to 999.9 Rate time Working point of controller : 0 to 100%

NI/min), without an air consumption when system is in steady

- A restrictor screw can be utilized to adjust the air rate to the actuator being used.
- Purging the body with clean air prevents condensate formation and penetration of ambient atmosphere into the body
- A pressure gauge block indicating supply and/or chamber pressure, made fully of SS, can be mounted on.

Material Aluminum, hard anodized and plastic coated

: 4...20mA (option HART)

Input for position or process

set-point

Input for Process value for

PID controller

: 4...20mA Binary input : Make or break contact

Optional Position feedback : 4... 20mA, 2 Binary output : Type 8635 S: HART, Optional Communication Type 8635 PA: Profibus PA

: IP65 Type of protection Ambient temperature : up to 60°C Pilot pressure : up to 6 bar

(Please refer to technical data sheet for more information and of electrical data on PA and EEx ia versions.)

Range of Electric, Pneumatic Actuators and Accessories

- For Quarter Turn Valves



Output Torque : 20, 35, 60 or 100 Nm

version

Angle of rotation: 90° (±5%) (180° on

request)

Rotation time : 9 up to 28 sec (20 up to 100 sec for

positioner version)

Fixation : ISO 5211

Drive : Female star 14 or 17 mm : 50% of time at max. torque Duty rating Manual override : By outgoing axis and return spring : 115 to 230 V AC and 24 V AC/DC Power supply Limit switches : 4 adjustable Max. 230V/5A

(2 for the motor and 2 free of potential)

Standard with visual position indicator and mechanical limits stop

Options

Positioner version : Input 4...20 mA or 0...10 V Feedback : Potentiometer 1K, 5K or 10K

: 4...20 mA Analogical output

Fail safe security block Explosion proof version



Ambient

Type 2050 Pneumatic Actuator

For Quarter Turn Valves

Design : Single piston spiral

gear

Version : Double acting or

spring return

Pilot Pressure : 2 to 10 bar (double acting)

3.5 to 10 bar (spring return)

Temperature : -20°C to +60°C

Pilot Media : Dry or lubricated air, non-corrosive gas

Rotation angle : Up to 60Nm **Output Torque** Fixation : ISO 5211

: Female star 11, 14 or 17 mm Drive

Material

Body : Glass fiber reinforced PA

: POM and PBT Internal parts : Stainless steel Rotary shaft

: NBR Seals

Accessories : Limit Switch, Solenoid valve, Top control



Type 2050QT-DA Type 2050QT-SR

Pneumatic Actuator For Quarter Turn Valves

Design : Double Piston Rack and Pinion Version : Double acting or spring return Pilot Pressure : 2 to 8 bar (double acting) 3 to 8 bar (spring return)

Ambient

Temperature : -20°C to +100°C

Pilot Media : Dry or lubricated air, non-corrosive gas,

water or light hydraulic oil

: 90° +/- 5° (other angle on request) Rotation angle Rotation direction : Anti clockwise for spring return actuator

Clockwise when port "A" is pressurized

for double acting actuator

Output Torque : Up to 1,700 Nm : ISO 5211 Fixation

Drive : Female star 9 to 36 mm

Material

Body : Extruded aluminium alloy, gold anodized End cap : Pressure die casting aluminium alloy,

black epoxy coated

Pinion : Carbon steel, zinc plated Spring : Spring Steel, zinc plated

Seals : NBR Other material on request

Accessories

available : Limit Switch, Solenoid valve, Positioner,

Manual override etc...

Accessories For Direct Mounting to Pneumatic Actuator



Solenoid Valves

Available in 3/2 or 5/2 way Body material of brass, polyamide or

(For more information, please refer to Range of Solenoid Valves for Pneumatic Applications)



Limit Switch Box with Tri-**Dimensional Position Indicator**

IP67 enclosure with 2 SPDT mechanical limit switches. Housing of powder coated die-cast aluminum and polycarbonate position indicator cover. Options available include transmitter

current output, proximity switch, potentiometer resistive output, explosion proof version



Manual Override Gearbox

Weather proof housing of cast iron with treated carbon steel worm gear. Lubricated for life.



Smart I/P positioner with or without Integrated PID **Process Controller**

(For more information, please refer to Range of ElectroPneumatic Positioner Type 1067 and Type 8635)

Range of Actuators

Range of Accessories for Pneumatic Operated Angle Seat, Globe & Diaphragm On/Off Valves - Solenoid Valves, Electrical Feedback, Stroke Limiters, Handwheel Override and Control Heads



Type 1066

Control Head for Pneumatic Actuated Process Valves with Linear Actuators

Electrical and pneumatic control components as well as position feedback units and, optionally fieldbus interfaces for AS-Interface or DeviceNet, are integrated into the control head. For single or double acting, 2 or 3 position actuator

Easy mechanical adaptation to various actuator Body : Noryl with PSU cover

Seal : NBR Stroke : 2 to 73mmm

Pilot media : unlubricated compressed air, neutral

gases

Pilot pressure : 2.5 up to 7 bar

Ambient and Pilot

temperature : -10°C up to +50°C

Power supply : 24VDC

Feedback : up to 2 micro limit switches 230V/1A

up to 3 inductive switches 8 to

30V/100mA

Electrical control : Multipole, ASI or DeviceNet

Type of protection : IP65



Type 8631

Top Control ON/OFF Control Head Optimized for Burkert Pneumatic Actuated Process Valves

Electrical and pneumatic control components as well as position feedback units and, optionally fieldbus interfaces for AS-Interface or DeviceNet, are integrated into the control head.

Body : PPE/PA with PSU cover

Seal : NBR

Pilot media : Unlubricated compressed air, neutral

gases

Pilot pressure : 3 up to 7 bar

Ambient and Pilot

temperature : 0°C up to +50°C

Power supply : 24VDC

Feedback : up to 2 micro limit switches

up to 2 inductive switches

Electrical control : Multipole, ASI or DeviceNet

Type of protection : IP65

Optionally available with protection type II 2 G EEx ia

(intrinsically safe)



Maximum Stroke Limiter

Stroke limitation for single acting actuator For mounting on top of actuator size Ø50mm to Ø125mm Easy adjustment by Allen Key Material of stainless steel



Handwheel with Visual Position Indicator

For single acting normally closed actuator For mounting on top of actuator size Ø50mm to Ø125mm



Type 1062

Electrical Position Feedback Unit

For mounting on top of actuator size Ø50mm to Ø125mm 1 or 2 contacts (open or close, open and close position)

Switch Configuration:

Mechanical type 8A/250V AC, 0.25A/250DC Inductive, 2 wire type 10...30VDC/100mA Inductive, 3 wire type 10...30VDC/200mA

Inductive, NAMUR Ex i type

Enclosure material: PA with polycarbonate cover

LED indication

Type of protection : IP65



Type 1071

External Magnetic Inductive Position Feedback with Magnetic Piston

For mounting at the side of actuator size Ø50mm to Ø125mm in combination with stroke adjustment and manual override 1 or 2 contacts (open or close, open and close position)

Operating voltage : 12 to 30 VDC/200mA

Housing material : PBTP
Type of protection : IP67



Type 1060

Electrical Position Feedback Unit with

Visual Position Indicator

For mounting on top of actuator size

Ø50mm to Ø125mm

1 changeover contact (activated in open position) Switching load : 250V AC/max. 5A 250V DC/max. 0.25A

Housing material : PA with polycarbonate cover

Type of protection : IP65



Minimum / Maximum Stroke Limiter with Optical Position Indicator

For mounting on top of actuator size Ø50mm to Ø125mm Upper and lower stop adjustable with standard tool. Can be used as manual override.

Material of stainless steel and polycarbonate

Range of Mass Flow Controller (MFC) and Mass Flow Meter (MFM) - For Various Gas Handling Applications



MFC Type 8712 **MFM Type 8702**

Bypass principle with new semiconductor flow sensors featuring CMOS technology with high accuracy and fast setting time. This revolutionary bypass measuring technology enables measurement and display times of a few hundred milliseconds.

- High level of accuracy
- · Fast response and settling time
- Excellent span
- Optional calibration for two gases
- Integrated totalizer
- Field bus optional
- Mass Flow Communicator (PC configuration software)
- 3 binary inputs and 2 binary outputs (relay outputs) Galvanic isolation of inputs and outputs
- Full scale range 0.02 to 50 l_N/min (N₂ at 273.15 K and 1013.25 mbar)
- Settling time <300ms
- Accuracy ±0.8% of rate ±0.3%F.S.
- Repeatability ±0.1% F.S.
- Linearity ±0.1% F.S.
- Span 1:50, 1:500 on request
- Max. operating pressure 10 bar depending on the application
- Type of protection IP 65
- Port connection G1/4", NPT1/4", screw-in connector
- Analog signal transmission or digital communication (RS-232,RS-485, field bus)
- Voltage supply 24 V DC
- Power consumption max. 10 W
- Stainless steel body



MFC Type 8716 **MFM Type 8706**

For large flow rates with inline measuring method, enabling these units to feature excellent dynamics and very low sensitivity

- High level of accuracy
- Fast response and settling time
- Excellent span
- Optional calibration for two gases
- Integrated totalizer
- Field bus optional
- Mass Flow Communicator (PC configuration software)
- 3 binary inputs and 2 binary outputs (relay outputs)
- Galvanic isolation of inputs and outputs
 Full scale range of 25 to 500 l_N/min (for 8716), 25 to 1500 l_N/min (8706), (N₂ at 273.15 K and 1013,25 mbar)
- Settling time <500 ms
- Accuracy ±1.5% of rate ±0.3% F.S.
- Repeatability ±0,1% F.S.
- Linearity ± 0.25% F.S.

 Span 1:50

 Max. operating pressure 10 bar depending on the application
- Type of protection IP 65
 Port connection G1/4" to 3/4", NPT1/4" to 3/4", screw-in connector
- · Analog signal transmission or digital communication (RS-232, RS-485, field bus)
- Voltage supply 24 V DC
- Power consumption max. 32.5 W
- Stainless steel or aluminum body



Type 8750

Flow Controller for Higher Flow Rate Intergral solution with control valve, pressure & temperature transmitter for the calculate and control of flow rate according to the pressure drop principle

Medium: air, gases up to 80°C

(Steam, liquid version on request)



MFC Type 8710 **MFM Type 8700**

Bypass measuring technology with classical resistor sensor. This indirect measuring method offers the advantage that the measuring resistors are not in direct contact with the medium and therefore can also be used to measure and control aggressive gases.

- High level of accuracy
- Excellent span
- Calibration of critical gases with air and conversion factor
- Optional calibration for two gases
- Integrated totalizer
- Mass Flow Communicator (PC configuration software)
- 2 binary inputs and 1 binary output (relay output)
 Full scale range 0.05 to 30 I_N/min (N₂ at 273,15K and 1013.25 mbar)
- Settling time approx. 3 seconds
- Accuracy ±1.0% of rate ±0.3% F.S.
- Repeatability ±0.2% F.S.
- Linearity ±0.25% F.S.
- Span 1:50
- Max. operating pressure 10 bar depending on the application
- Type of protection IP 50
- Port connection G1/4", NPT1/4", screw-in connector
- Analog signal transmission or digital communication (RS-232, RS-485, field bus)
- Voltage supply 24 V DC
- Power consumption max. 7.5 W
- Stainless steel body



MFC Type 8626 MFM Type 8006

Inline measuring method, enabling these units to offer excellent dynamics as well as low sensitivity to dirt and low pressure loss. Particularly suitable for very large flow rates and harsh conditions.

- High level of accuracyFast response and settling time
- Excellent span
- Optional calibration for two gases
- Integrated totalizer
- Field bus optional
- Mass Flow Communicator (PC configuration software)
- 3 binary inputs and 2 binary outputs (relay outputs)
- Galvanic isolation of inputs and outputs
- Full scale range 25 to 1500 l_N/min (N₂at 273.15K and 1013.25 mbar)
- Settling time <500ms
- Accuracy ±1.5% of rate ±0.3% F.S.
- Repeatability ±0.1% F.S.
 Linearity ±0.25% F.S.
 Span 1:50
- Max. operating pressure 10 bar depending on the application
- Type of protection IP 65
 Port connection G1/4" to 3/4", NPT1/4" to 3/4", screw-in connector
- Analog signal transmission or digital communication (RS-232,RS-485, field bus)
- Voltage supply 24 V DC
- Power consumption max. 50 W
- Stainless steel or aluminum body

Pressure range : up to 10 bar Orifice : DN15 to DN100 mm Port connection : DIN Flange, other on request Material : Stainless Steel

Voltage : 24VDC : 0/4 - 20mA, 0- 5/10V Setpoint input Process value output : 4 - 20mA as option : Profibus DP, ASI on request Communication

Type of protection

Range of Proportional Solenoid Control Valves. **Control Electronics and PI Controllers**

- Low Cost Solution to Simple Control Loop For Neutral Media Application



Type 6021

2/2 way, Direct Acting Proportional Solenoid

Control Valve

Required DIN-rail mounting control electronic

Normally closed in event of power failure

Orifice size : 0.8 to 1.6 mm : 0.0181 to 0.05 m³/h Port connection : BSP, NPT 1/8" Body material

: Stainless steel or Brass Seal material : FPM (EPDM or PTFE on request)

: 1:20 Span . Hysteresis : <5% Repeatability : <0.5% F.S. -10 to +90°C Media temperature

Pressure range up to 12 bar (depending on nominal diameter)

Voltage

Control signal : Pulse Width Modulated (PWM)

: IP65 Type of protection



Type 6023

2/2 way, Direct Acting Proportional

Solenoid Control Valve

Required plug-on control electronic Type 1094

Normally closed in event of power failure

Orifice size : 4 or 6 mm : 0.4 to 0.7 m³/h Κv Port connection : BSP, NPT 3/8"

Body material : Stainless steel. Brass

Seal material : FPM (EPDM or PTFE on request)

Span : 1:10 : <5% Hysteresis Repeatability : <0.5% F.S. : -10 to +90°C Media temperature

: up to 4 bar (depending on Pressure range

nominal diameter)

Voltage : 24VDC

Control signal : Pulse Width Modulated (PWM)

Type of protection : IP65



2/2 way, Direct Acting Proportional Solenoid

Required plug-on control electronic Type 1094

Normally closed in event of power failure

Orifice size : 0.8 to 4.0 mm : 0.018 to 0.58m3/h : BSP, NPT 1/4" Port connection Body material : Stainless steel, Brass

Seal material FPM (EPDM or PTFE on request)

: 1:25 Span Hysteresis : < 0.5% Repeatability : <0.5% F.S. : -10 to +90°C Media temperature

Pressure range : up to 16 bar (depending on

> nominal diameter) 24VDC

Voltage Control signal : Pulse Width Modulated (PWM)

Option : EEx m II T4 version

Type of protection : IP65



Type 6223

2/2 way, Servo-assisted Proportional Solenoid

Control Valve

Required plug-on control electronic

Type 1094

Orifice size : 10 to 20 mm : 1.4 to 5.0 m3/h Port connection : BSP, NPT 3/8" to 1" Body material : Brass or Stainless steel

Seal material : FPM (EPDM or PTFE on request)

Span : 1:10 Hysteresis : <5% Repeatability : <1% F.S. Media temperature : -10 to +90°C

Pressure range : Max. 10 bar with min. ΔP of 0.5 bar

: 24VDC Voltage

Control signal : Pulse Width Modulated(PWM)

Electrical connection: Cable plug to IP65



Type 1094

Control Electronics for Proportional Solenoid Control Valves Plug-on module or DIN-rail mounting

• Temperature compensation for heating of the coil by integrated current control

Ramp function for damping sudden control signal changes

Adjustment of min. and max. flow to the real pressure conditions

Zero switch-off function

: 0 / 4 to 20mA or 0 to 10V Set-point Input signal : PWM for valve control Output : IP65 (Plug-on module only) Type of protection



Type 8623-2

Compact PI Controller for Flow / Ratio Control

Application Input Signal

: 2 frequency inputs (2 to 1000Hz) for

actual process value;

1 standard signal (4...20 mA / 0 to 10 V) for remote set point input

Output Signal: 1 PWM signal output

Type 8624-2

Compact PI Controller for Flow and Pressure Control

Applications

Input Signal : 1 standard signal (4...20 mA / 0 to

10 V) for actual process value; 1 standard signal (4...20 mA)/ 0 to

10 V) for remote set point input Output Signal : 1 PWM signal output

Type 8625-2

Compact PI Controller for Temperature Control

Application

Input Signal : 1 Pt100 sensor input for actual

process value;

1 standard signal (4...20 mA / 0 to

10 V) for remote set point input

Output Signal : 1 PWM signal output

Common Characteristics / Data

 Direct plug-on to proportional solenoid Control Valve

Easy programming

Scalable input signal

Inverted or non-inverted control

 Zero switch-off function Operating voltage : 24VDC Type of protection: IP65

: Fieldbus communication

Range of Solenoid Valves, Micro-Pumps, Manifolds and **Solutions for MicroFluidics Application**

- Medical Technology, Analysis Technology and Biotechnology



Direct-acting flipper solenoid valve with media separation as 2/2-way or 3/2-way valve with monostable or bistable (pulse) switching function. Fast-switching. Very low power consumption and thus very suitable for battery operation. Minimum dead volume and

low-gap inner contour. Width per station: 11 mm. Used primarily for

very small quantities of aggressive media. Orifice : 0.6mm, Kv: 0.0074m3/h Pressure : Vacuum up to 3 bar Body / Seal Material: PEEK / FFKM Voltage : 12V, 24V DC



Orifice

Type 6606

Direct-acting rocker solenoid valve with isolating diaphragm as 2/2-way or 3/2-way valve. With minimum dead volume and low-gap and thus easy-to-flush inner contour. High quality materials guarantee extreme chemical resistance. The medium only comes into

contact with the body and FFKM seal. Coil can be changed easily without having to open the body.

: 0.8 to 2 mm, Kv: 0.025 to 0.06m3/h : Vacuum up to 2 bar Pressure Body / Seal Material: PEEK / FFKM : 12V, 24V DC Voltage



Type 6104 Type 6106

Direct-acting 3/2-way rocker solenoid valves without media separation, low power consumption, monostable and bistable drive. Suitable only for gases.

: 0.4mm (6104), 0.8 mm to 1.2mm (6106) Orifice

QNn : up to 8.5 l/min (6104),

up to 40 l/min (6106)

Pressure : up to 7 bar (6104), up to 10 bar (6106)

Body / Seal material: PA / FPM

: 24V DC, 110-120VDC, 220-240V DC Voltage



Type 6124

Direct-acting flipper solenoid valve, 2/2-way or 3/2-way with media separation. With monostable or bistable (pulse) switching function. Pulse switching with only 20 ms pulse length and extremely low energy

demand, consequently particularly suitable for battery operation. Minimum dead volume and easy-to-flush inner contour. Materials used: FPM, EPDM, PEEK. Use for very small quantities of neutral or mildly aggressive gases and liquids

: <0.6 mm, Kv: 0.0074 m³/h Orifice Pressure : Vacuum up to 3 bar : 12, 24V DC Voltage



Type 6126

Direct-acting rocker solenoid valve, 2/2-way or 3/2-way. A diaphragm separates the medium from the actuator. In addition, the coil and actuator are separated by means of a stainless steel plate. Universal use for applications

involving switching small quantities of compressed air or lightly contaminated fluids.

: 0.8 to 2 mm, Kv: 0.01 m³/h : Vacuum up to 10 bar Pressure Body : PPS for subbase body,

PPS, Brass or SS for M5 valve body

: FPM or EPDM Seal

Voltage : 12V, 24V DC, 110, 230VUC



Type 6128

Rocker solenoid actuator with medium separated PPS body with dead volume optimized and easy-to-flush inner contour. Central screw fixture of the coil allows the coil to be exchanged even with the medium applied. Modular body design allows the use of various fluidic connections. Type 6128

can be used universally for applications on which compressed air, vacuum or lightly contaminated or slightly aggressive gases and liquids are to be switched.

Orifice : 2 to 6 mm, Kv: 0.11 to 0.18 m³/h Pressure : Vacuum up to 10 bar Voltage : 12V, 24V DC, 110, 230VUC



Type 7604 Micro-pump

This micro-pump operates based on the principle of a self-priming diaphragm pump. It was specifically developed for continuous pumping of small quantities of aggressive, inorganic or biological media. Highly precise dosing is possible in combination with an additional flow sensor.

: PFFK Body : FFKM Seal : +10 to +60°C Media temp

Delivery rate : max 5ml/min, Variable control frequency,

Virtually pulsation free dosing.



Type 7616 Micro-dosing unit

The self-priming, low-dead-volume microdosing unit consists of two Type 6604 valves, one Type 6606 valve, one manifold (minimized with a view to the internal volume) and a control circuitry unit (option). The delivery rate can be adjusted via the number of cycles (max.650 cycles/min.) and the optionally adjustable stroke volume (0.5 µl ... 5 µl).

Thanks to the high reproducibility, the unit is suitable for the precise dosing of ultra-small fluid quantities. PEEK and FFKM as the sole wetted materials virtually predestine the unit for use in aggressive media.



Type 8005 Liquid mass flow meter

The mass flow meter 8005 allows fast and precise flow rate mesurements for fluids down to the nanoliter range. Highly sensitive, intelligent CMOSens micro chips are capable of detecting the mass flow rate bi-directionally and with media separation through a thin PEEK wall. The high dynamics of this measurement principle allows a measuring range of 5 to 1,500 µl/min. The accuracy is

better than 1.5 or 3%, respectively, depending on the measuring range, and the detection limit is approx. 150 nanoliters/min.The device is free of dead volume and its response time, at 20 ms (lower limit), is extraordinarily short. The mounting dimension is 14 mm and the type of protection is IP65.

The mass flow meter 8005 can be interconnected with other components to form functional modules such as:

with valve 6604 and the micro-pump 7604 to produce a dosing unit and

with valve 6604 and the proportional valve 2822 to

form a mass flow controller.

Range of Flow Sensors For Liquids

- Paddle Wheel, Oval Gear Positive Displacement, Magnetic Inductive Principle

Burkert flow sensors are available in various measuring principles for different applications ranging from high-purity to highly-contaminated media, including aggressive & viscous media.



Type 8030

In-line Paddle Wheel Flow Sensor Flow sensor with 4-vane PVDF paddle wheel pre-installed in fitting for measuring flow rate. Output is frequency proportional to flow.

Medium: Clean liquid with <1% solids, no

fibrous or ferromagnetic material & viscosity <300 cSt. Non-pulsating

: 0.3 to 10 m/s (1 to 1,000 l/min) Measuring range Sinusoidal or NPN/PNP Output type Nominal diameter DN8 to 50 mm (1/2" to 2") Fitting material Stainless Steel 316L, brass, PVC, PP or

Process connection: Threaded, flanged, true union or weld ends (BSP, NPT, PT, ASTM, JIS, DIN).

Pressure rating: PN16 metal, PN10 plastic.

Temperature rating

 Max. 100°C (depending on fitting material)
 Coil Sensor: Not required,
 Hall Sensor: 12 to 36 VDC Power supply



Type 8020

Insertion Paddle Wheel Flow Sensor Flow sensor with 4-vane PVDF paddle wheel for measuring flow rate. Output is frequency proportional to flow. Requires Burkert insertion fitting.

Medium: Clean liquid with <1% solids, no fibrous or ferromagnetic material & viscosity <300 cSt. Non-pulsating flow.

Measuring range : 0.3 to 10 m/s (3 to 50,000 l/min) : Sinusoidal or NPN/PNP : DN15 to 400 mm (1/2" to 16") Output type Nominal diameter Fitting material : Stainless Steel 316L, brass, PVC, PP, PVDF

Threaded, flanged, true union, weld ends, saddle or weld-o-let (BSP, NPT, PT, ASTM, Process connection:

JIS, DIN) PN10 Pressure rating

Max. 100°C (depending on fitting material) Temperature rating Power supply Coil Sensor: Not required Hall Sensor: 12 to 36 VDC



Type 8070

Oval Gear Positive Displacement Flow Sensor Volumetric flow sensor for measuring flow rate of liquid. Output is frequency proportional to flow.

Medium: Clean liquid with max. 0.25 mm particles, no fibrous material & viscosity up to 1,000 cSt (up to 1,000,000 cSt on request). Nonpulsating & pulsating flow.

Measuring range : 1 to 350 I/min NPN/PNP Output type Nominal diameter

NPN/PNP DN15 to 50 mm (1/2" to 2") Stainless steel 316L, Aluminum, PPS Threaded, flanged (BSP, NPT, ANSI, DIN). PN55 metal, PN10 PPS Max. 120°C SS, 80 °C AI & PPS 10-36 VDC Fitting material Process connection Pressure rating

Temperature rating

Power supply



Type 8041

Insertion Magnetic Inductive Flow Sensor for High Temperature Application. Flow sensor without moving parts. Movement of conductive medium in magnetic field generated by sensor produces voltage proportional to flow. Requires Burkert insertion fitting.

Medium: Clean to contaminated (non ferromagnetic) liquid with conductivity >20 mS/cm & viscosity <5000 cSt. Non-pulsating flow.

Measuring range : 0.1 to 10 m/s (1 to 50,000 l/min) 4..20 mA or NPN/PNP & optional relay DN15 to 400 mm (1/2" to 16") SS 316L, brass, PVC, PP, PVDF or PE Output type Nominal diameter Fitting material Process connection Threaded, flanged, true union, weld ends saddle or weld-o-let (BSP/NPT /PT/ASTM/

JIS/DIN). : PN16 (metal fitting), PN10 (plastic fitting) : Up to 150°C (depending on fitting material) : 18-36 VDC Pressure rating Temperature rating

Power supply



Type 8030 HT

In-line Paddle Wheel Flow Sensor For High Temperature and Pressure Application.
Flow sensor with 4-vane SS paddle wheel pre-installed in fitting for measuring flow rate.

Output is frequency proportional to flow.

Medium: Clean liquid with <1% solids, no fibrous material & viscosity <300 cSt. Non-pulsating flow. Insensitive to ferromagnetic particles.

: 0.5 to 10 m/s (1.5 to 1,000 l/min) : Sinusoidal or NPN/PNP Measuring range Output type DN8 to 50 mm (1/2" to 2") Stainless Steel 316L Nominal diameter Fitting material

Threaded, weld ends (BSP, NPT, PT, ISO) Process connection

Pressure rating
Temperature rating PN40

Max. 160°C Coil Sensor: Not required, Power supply Hall Sensor: 12 to 36 VDC



Type 8031

In-line Paddle Wheel Flow Sensor for Low Flow Application.

Flow sensor with paddle wheel pre-installed in fitting for measuring flow rate. Output is frequency proportional to flow.

Medium : Clean liquid with <1% solids, no fibrous or ferromagnetic material & viscosity <10 cSt.

Non-pulsating flow. Measuring range 10 to 250 l/h : NPN/PNP Output type Nominal diameter : 1/4"

Fitting material : ECTFE (Halar), POM Process connection: Threaded (BSP 1/4").

Pressure rating : PN10 Temperature rating : Max. 55°C Power supply : 12-24 VDC



Type 8071

Oval Gear Positive Displacement Flow Sensor for Low Flow Application Volumetric flow sensor for measuring flow rate of liquid. Output is frequency

proportional to flow. : Clean liquid with max. 0.12 mm particles, no Medium fibrous material & viscosity up to 1,000 cSt.

Non-pulsating & pulsating flow. : 0.03 to 8.3 l/min : NPN Measuring range

Output type 1/4" Nominal diameter

Stainless Steel 316L, PPS Fitting material : Threaded (BSP, NPT). : PN10 metal (PN550 HP version), PN5 PPS : Max. 120°C SS, 80 °C PPS Process connection Pressure rating

Temperature rating

: 24 VDC Power supply



Insertion Magnetic Inductive Flow Sensor Flow sensor without moving parts. Movement of conductive medium in magnetic field generated by sensor produces voltage proportional to flow. Requires Burkert insertion fitting.

Medium: Clean to contaminated (non ferromagnetic) liquid with conductivity >20 mS/cm & viscosity <5000 cSt. Non-pulsating flow.

Measuring range : 0.1 to 10 m/s (1 to 50,000 l/min) : 4..20 mA or NPN/PNP

Output type Nominal diameter : DN15 to 400 mm (1/2" to 16") Stainless Steel 316L, brass, PVC, PP, Fitting material PVDF or PE

Process connection: Threaded, flanged, true union, weld ends, saddle & weld-o-let (BSP, NPT, PT, ASTM,

JIS, DIN). Pressure rating : PN6 : Up to 80°C Temperature rating : 18 to 36 VDC Power supply

Range of Flow Sensors

Range of Flow Transmitters (Meters) For Liquids

- Paddle Wheel, Oval Gear Positive Displacement Principle - Insertion or INLINE Type

Burkert flow transmitters (meters) are available in various measuring principles & configuration for different applications from high-purity to highly-contaminated media, including aggressive & viscous media in wide-ranging industries.



Type 8035

In-line Paddle Wheel Flow Indicator/
Transmitter. Digital display flow indicator
with totalizer & output signal. Flow sensor
with 4-vane PVDF paddle wheel preinstalled in fitting. Option with PP paddle
wheel available.

Medium : Clean liquid with <1% solids, no fibrous

or ferromagnetic material & viscosity <300 cSt. Non-pulsating flow.

Measuring range : 0.3 to 10 m/s (1 to 1,000 l/min)

Output signal : 4..20 mA & NPN/PNP pulse with optional

relay

Nominal diameter : DN8 to 50 mm (1/2" to 2")

Fitting material : Stainless Steel 316L, brass, PVC, PP or

PVDF

Process connection: Threaded, flanged, true union or weld

ends (BSP, NPT, PT, ASTM, JIS, DIN).

Pressure rating : PN16 metal, PN10 plastic.

Temperature rating : Max. 100°C (depending on fitting

material)

Power supply : 2x 9 V batteries, 12 to 30 VDC or 115

VAC/230 VAC



Type 8025

Insertion Paddle Wheel Flow Indicator/ Transmitter. Digital display flow indicator with totalizer & output signal. Flow sensor with 4-vane PVDF paddle wheel. Requires Burkert insertion fitting.

Medium : Clean liquid with <1% solids, no fibrous or ferromagnetic material & viscosity <300 cSt. Non-

pulsating flow.

Measuring range : 0.3 to 10 m/s (3 to 50,000 l/min)

Output signal : 4..20 mA & NPN/PNP pulse with optional

relay

Nominal diameter : DN15 to 400 mm (1/2" to 16")

Fitting material : Stainless Steel 316L, brass, PVC, PP,

PVDF or PE

Process connection: Threaded, flanged, true union, weld

ends, saddle or weld-o-let (BSP, NPT, PT,

ASTM, JIS, DIN).

Pressure rating : PN10

Temperature rating : Max. 100°C (depending on fitting

material)

Power supply : 2x 9 V batteries, 12-30 VDC or



Type 8075

Oval Gear Positive Displacement Flow

Indicator/Transmitter

Digital display flow indicator with totalizer & output signal. Volumetric flow sensor.

Medium : Clean liquid with max. 0.25 mm particles,

no fibrous material & viscosity up to 1,000 cSt (up to 1,000,000 cSt on request). Non-pulsating & pulsating flow.

Measuring range : 1 to 350 l/min

Output signal : 4..20 mA & NPN/PNP pulse with optional

rela

Nominal diameter : DN15 to 50 mm (1/2" to 2")

Fitting material : Stainless Steel 316L, aluminum or PPS Process connection : Threaded, flanged (BSP, NPT, ANSI,

DIN)

Pressure rating : PN55 metal, PN10 PPS

Temperature rating : Max. 120°C SS, 80 °C Al & PPS
Power supply : 12 to 30 VDC or 115 VAC/230 VAC



Type 8072

Oval Gear Positive Displacement Flow

Indicator/Switch

Digital display flow indicator with totalizer & output signal. Volumetric flow sensor.

Medium : Clean liquid with max. 0.25 mm particles,

no fibrous material & viscosity up to 1,000 cSt (up to 1,000,000 cSt on request). Non-pulsating & pulsating flow.

Measuring range : 1 to 350 l/min

Output signal : NPN/PNP or relay with optional 4..20 mA

Nominal diameter : DN15 to 50 mm (1/2" to 2") Fitting material : SS 316L, aluminum or PPS

Process connection: Threaded, flanged (BSP, NPT, ANSI,

DIN).

Pressure rating : PN55 metal, PN10 PPS

Temperature rating : Max. 120°C SS, 80 °C Al & PPS

Power supply : 12 to 30 VDC

Range of Flow Transmitters (Meters) For Liquids

- Magnetic Inductive Principle - Insertion or Full Bore Types

Burkert flow meters are available in various measuring principle & configuration for different applications from high-purity to highly-contaminated media, including aggressive & viscous media in wide-ranging industries.



Type 8045

Insertion Magnetic Inductive Flow Indicator/Transmitter. Digital display flow indicator with totalizer & output signal. Flow sensor without moving parts. Movement of conductive medium in magnetic field generated by sensor produces voltage proportional to flow. Requires Burkert insertion fitting.

Medium : Clean to contaminated (non-

ferromagnetic) liquid with conductivity $>20 \mu S/cm \& viscosity <5000 cSt. Non-$

pulsating flow.

Measuring range : 0.1 to 10 m/s (1 to 50,000 l/min)

Output signal : 4..20 mA & NPN/PNP pulse with optional

relay

Nominal diameter : DN15 to 400 mm (1/2" to 16")

Fitting material : SS 316L, brass, PVC, PP, PVDF or PE

Process connection: Threaded, flanged, true union, weld ends, saddle or weld-o-let (BSP, NPT,

PT, ASTM, JIS, DIN).

Pressure rating : PN16 (metal fitting), PN10 (plastic fitting)

Temperature rating : Up to 80°C (depending on fitting

material)

Power supply : 18 to 36 VDC



Type 8045 HT

Insertion Magnetic Inductive Flow Indicator/Transmitter - High Temperature. Digital display flow indicator with totalizer & output signal. Flow sensor without moving parts. Movement of conductive medium in magnetic field generated by sensor produces voltage proportional to flow. For higher temperature applications or media unsuitable for PVDF. Requires

Burkert insertion fitting.

Medium : Clean to contaminated (non-

ferromagnetic) liquid with conductivity >20 µS/cm & viscosity <5000 cSt. Non-

pulsating flow.

Measuring range : 0.1 to 10 m/s (1 to 50,000 l/min)

Output signal : 4..20 mA & NPN/PNP pulse with optional

relay

Nominal diameter : DN15 to 400 mm (1/2" to 16")

Fitting material : SS 316L, brass, PVC, PP, PVDF or PE Process connection : Threaded, flanged, true union, weld

ends, saddle or weld-o-let (BSP, NPT, PT,

ASTM, JIS, DIN).

Pressure rating : PN6

Temperature rating: Up to 150°C (depending on fitting

material)

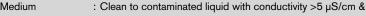
Power supply : 18 to 36 VDC



Type 8055

Full-bore Magnetic Inductive Flow Sensor/Meter

Digital display flow indicator with totalizer & output signal. Flow sensor without moving parts. Movement of conductive medium in magnetic field generated by sensor produces voltage proportional to flow.



viscosity <5000 cSt. Non-pulsating flow.

Measuring range $\,$: 0.1 to 10 m/s (1 to 47,600 l/min; up to 1,883,300 l/min on

request)

Output signal : 0/4..20 mA, pulse & open collector with optional RS485/

RS232

Nominal diameter : DN3 to DN100 mm (up to DN2000 mm on request)
Fitting material : SS 316L (sanitary version available), carbon steel

Lining material : PP, PTFE (others on request)

Process connection: Flanged, wafer, tri-clamp or other sanitary connections

(ASTM, JIS, DIN, etc...).

Pressure rating : PN16

Temperature rating : Up to 150°C (depending on lining material)
Power supply : 90 to 265 VAC (DC version and others on request)



Range of Flow Switches, Indicators and All-In-One Sensors For Liquids - Magnetic Paddle Wheel, Optical Sensing Principle

Burkert flow meters, switches, indicators and All-In-One Sensors, (Indicator, Switch & Transmitter) are available in various measuring principles & configuration for differ



Type 8010

In-line Single Paddle Flow Switch with adjustable switching point for detecting Flow or No flow condition.

: Clean liquid with <1% solids, no fibrous Medium or ferromagnetic material & viscosity

<300 cSt. Non-pulsating flow.

Switching range : 4.7 to 75.9 l/min

Switch type : Normally-open or normally closed SPST

reed switch (max. 0.8 A/50 W).

Nominal diameter : DN15 to 50 mm (1/2" to 2") Fitting material Stainless steel 316L, brass, PVC, PP or

PVDF; with PVDF paddle.

Process connection: Threaded, flanged, true union or weld

ends (BSP, NPT, PT, ASTM, JIS, DIN).

Pressure rating PN16 metal, PN10 plastic.

: Max. 55°C Temperature rating : Not required Power supply



Measuring range

Type 8024

Insertion Paddle Wheel Flow Indicator Analog display flow indicator. Flow sensor with 4-vane PVDF paddle wheel. Requires Burkert insertion fitting.

Medium : Clean liquid with <1% solids, no fibrous or ferromagnetic material & viscosity

<300 cSt. Non-pulsating flow. : 0.3 to 10 m/s (3 to 50,000 l/min)

Nominal diameter : DN15 to 400 mm (1/2" to 16") Fitting material : Stainless steel 316L, brass, PVC, PP,

PVDF or PE

Process connection: Threaded, flanged, true union, weld

ends, saddle & weld-o-let (BSP, NPT, PT,

ASTM, JIS, DIN).

: PN10 Pressure rating

Temperature rating : Max. 100°C (depending on fitting

material)

: 1.5 V batteries or 12 to 30 VDC Power supply



Measuring range

Output signal

Type 8032

In-line Paddle Wheel Flow Indicator/ Switch/Transmitter

Digital display flow indicator with output signal. Flow sensor with 4-vane PVDF paddle wheel pre-installed in fitting.

Medium : Clean liquid with <1% solids, no fibrous or ferromagnetic material & viscosity

<300 cSt. Non-pulsating flow. : 0.3 to 10 m/s (1 to 1,000 l/min) : NPN/PNP or relay with optional 4..20

mΑ

Nominal diameter : DN8 to 50 mm (1/2" to 2")

Fitting material : Stainless steel 316L, brass, PVC, PP or

Process connection: Threaded, flanged, true union or weld

ends (BSP, NPT, PT, ASTM, JIS, DIN).

: PN16 metal, PN10 plastic. Pressure rating Temperature rating : Max. 100°C (depending on fitting

material)

Power supply : 12 to 30 VDC



Type 8034

In-line Paddle Wheel Flow Indicator Analog display flow indicator. Flow sensor with 4-vane PVDF paddle wheel

pre-installed in fitting.

: Clean liquid with <1% solids, no fibrous Medium

or ferromagnetic material & viscosity <300 cSt. Non-pulsating flow.

Measuring range : 0.3 to 10 m/s (1 to 1,000 l/min) : DN8 to 50 mm (1/2" to 2") Nominal diameter

: Stainless steel 316L, brass, PVC, PP or Fitting material

Process connection: Threaded, flanged, true union & weld ends (BSP, NPT, PT, ASTM, JIS or DIN).

: PN16 metal, PN10 plastic. Pressure rating

Temperature rating: Max. 100°C (depending on fitting material)

: 2x 1.5 V batteries or 12 to 30 VDC Power supply



Type 8039

In-line Paddle Wheel Flow Indicator/ Switch with Optical Sensing Technology Digital display flow indicator with output signal. Flow sensor with 4-vane PVDF paddle wheel pre-installed in fitting. Optical technology results in ability to measure in medium with ferromagnetic particle contamination.

Medium : Clean liquid with <1% solids, no fibrous

material & viscosity <300 cSt. Non-

pulsating flow. : 0.3 to 10 m/s (1 to 1,000 l/min)

Measuring range : NPN/PNP or relay with optional Output signal frequency (NPN)

Nominal diameter : DN8 to 50 mm (1/2" to 2")

Fitting material : Stainless steel 316L, brass, PVC, PP or

Process connection: Threaded, & weld ends (BSP, NPT, PT, ISO).

: PN10

Pressure rating Temperature rating : Max. 100°C (depending on fitting

material)

: 12 to 30 VDC Power supply

Range of Remote Display, Transmitter, Switch & Accessories

- Connectable to Burkert Flow Sensors

In the event the flow/totalizer reading has to be displayed at a location located away from the sensor, Burkert has a selection of indicators/ transmitters to suit different needs. Fittings for insertion flow sensor are available in various body material and connection.



Type 8025 Panel

Panel-mounted

Flow Indicator/Transmitter

Digital display flow indicator with totalizer & output signal. For use with frequency signal from flow sensor (eg. 8020, 8030, 8030HT, 8031, 8040, 8041, 8070, 8071).

Input signal Output signal : Sinusoidal or square wave (NPN)

: 4..20 mA & NPN/PNP pulse with optional

relay

: 12 to 30 VDC Power supply



Input signal

Output signal

Power supply

Type 8025 Wall

Type 8024 Wall

Wall-mounted Flow Indicator

Wall-mounted Flow Indicator/Transmitter Digital display flow indicator with totalizer & output signal. For use with frequency signal from flow sensor (eg. 8020, 8030, 8030HT, 8031, 8040, 8041, 8070, 8071).

: Sinusoidal or square wave (NPN)

: 4..20 mA & NPN/PNP pulse with optional

Analog display flow indicator. For use with

8020, 8030, 8030HT, 8031, 8040, 8041,

frequency signal from flow sensor (eg.

: 12 to 30 VDC or 115 VAC/230 VAC



Type 8024 Panel

Panel-mounted Flow Indicator

Analog display flow indicator. For use with frequency signal from flow sensor (eg. 8020, 8030, 8030HT, 8031, 8040, 8041,

8070, 8071).

Output signal Power supply

Input signal

: Sinusoidal or square wave (NPN)

: None : 12 to 30 VDC



Input signal

Output signal

8070, 8071).

: Sinusoidal

: 2x 1.5 V battery

: None

Type 8021 Sensor-mounted Pulse Divider Calibrated pulse output unit. For use with frequency signal from flow sensor (eq. 8020, 8030, 8030HT, 8040, 8041, 8070).

: Square wave (NPN) : NPN/PNP pulse : 12 to 30 VDC



Type SE32 Wall

Wall-mounted Flow Indicator/Switch Digital display flow indicator with output signal. For use with frequency signal from flow sensor (eg. 8020, 8030, 8030HT, 8040, 8041, 8070).

Input signal Output signal : Square wave (NPN)

: NPN/PNP or relay with optional

4..20 mA, ASI : 12 to 30 VDC

Power supply



Input signal

Output signal

Power supply

Type 8023

Sensor-mounted Flow Transmitter 4..20 mA output unit. For use with frequency signal from flow sensor (eg. 8020, 8030, 8030HT, 8040, 8041, 8070).

Input signal : Sinusoidal or square wave (NPN) Output signal : 4..20 mA : 12 to 30 VDC Power supply



Type S020

Insertion Fitting

Fitting for installation of Burkert's insertion flow sensors (eg. 8020, 8040, 8041) & flow transmitters/meters (8024, 8025, 8045, 8045HT).

: DN15 to 400 mm (1/2" to 16") Nominal diameter

: Stainless Steel 316L, brass, PVC, PP, Fitting material

PVDF or PE

Process connection: Threaded, flanged, true union, weld

ends, saddle or weld-o-let (BSP, NPT,

PT, ASTM, JIS, DIN).

: PN10 (plastic), PN16 (metal) Pressure rating



Type 4002 Panel

Panel-mounted Flow Indicator/Totalizer Digital display flow indicator with totalizer & optional output signal. For use with frequency or analog signal from flow sensor (eg. 8020, 8030, 8030HT, 8031, 8040, 8041, 8070, 8071 and other 4,,20 mA output transmitters including 8175 for open channel flow measurement).

Input signal : Square wave (NPN/PNP) or

4..20 mA/0-10 V

: Optional 0/4..20 mA/0-10 VDC or open Output signal

collector or relay

: Optional RS485/RS232 or DEVICENET Communications

or MODBUS or PROFIBUS-DP

: 85 to 230 VAC Power supply

Range of Batch Controllers For Liquids, Remote or Local

Version - Paddle Wheel, Oval Gear Positive Displacement, Magnetic Inductive Principle

Burkert batch controllers are designed for controlling very precise dosing & filling operations. They are available in various measuring principle for use with different medium.



Type 8035 Batch

In-line Paddle Wheel Batch Controller Flow sensor with 4-vane PVDF paddle wheel pre-installed in fitting. Option with

PP paddle wheel available.

Medium : Clean liquid with <1% solids, no fibrous

or ferromagnetic material & viscosity <300 cSt. Non-pulsating flow.

Measuring range : 0.3 to 10 m/s (1 to 1,000 l/min)

Output signal : 2 x relays

Nominal diameter : DN8 to 50 mm (1/2" to 2")

Fitting material : Stainless Steel 316L, brass, PVC, PP or

PVDF

Process connection: Threaded, flanged, true union or weld

ends (BSP, NPT, PT, ASTM, JIS, DIN).

Pressure rating : PN16 metal, PN10 plastic.
Temperature rating : Max. 100°C (depending on fitting

material)

Power supply : 12 to 30 VDC or 115 VAC/230 VAC



Type 8075

Oval Gear Positive Displacement Batch

Controller

Volumetric flow sensor.

Medium : Clean liquid with max.

: Clean liquid with max. 0.25 mm particles, no fibrous material & viscosity up to 1,000 cSt (up to 1,000,000 cSt on request). Non-pulsating & pulsating flow.

Measuring range : 1 to 350 l/min Output signal : 2 x relays

Nominal diameter : DN15 to 50 mm (1/2" to 2")

Fitting material : Stainless Steel 316L, aluminum or PPS

Process connection : Threaded, flanged

(BSP, NPT, ANSI, DIN).

Pressure rating : PN55 metal, PN10 PPS
Temperature rating : Max. 120°C SS, 80°C AI & PPS
Power supply : 12 to 30 VDC or 115 VAC/230 VAC





Type 8025 Batch - Panel/Wall

Remote-mounted Batch Controller

Digital display with totalizer. For use with frequency output

flow sensors.

Input signal : Sinusoidal or square wave (NPN)

Output signal : 2 x relays

Power supply : 12 to 30 VDC or 115 VAC/230 VAC



Type 8025 Batch

Insertion Paddle Wheel Batch Controller Flow sensor with 4-vane PVDF paddle wheel. Requires Burkert insertion fitting.

Medium : Clean liquid with <1% solids, no fibrous or ferromagnetic material & viscosity

<300 cSt. Non-pulsating flow.</p>
Measuring range : 0.3 to 10 m/s (3 to 50,000 l/min)

Output signal : 2 x relays

Nominal diameter : DN15 to 400 mm (1/2" to 16") Fitting material : Stainless Steel 316L, brass, PVC, PP,

PVDF or PE

Process connection: Threaded, flanged, true union, weld

ends, saddle or weld-o-let (BSP, NPT, PT,

ASTM, JIS, DIN).

Pressure rating : PN10

Temperature rating : Max. 100°C (depending on fitting

material)

Power supply : 12-30 VDC or 115 VAC/230 VAC



Type 8055

Full-bore Magnetic Inductive Batch Controller

Flow sensor without moving parts. Movement of conductive medium in magnetic field generated by sensor produces voltage proportional to flow.

Medium : Clean to contaminated liquid with conductivity >5 μS/cm & viscosity <5000

cSt. Non-pulsating flow.

Measuring range : 0.1 to 10 m/s (1 to 47,600 l/min; up to

1,883,300 l/min on request)

Output signal : 2x open collector (relays on request)
Nominal diameter : DN3 to DN100 mm (up to DN2000 mm

on request)

Fitting material : Stainless Steel 316L (sanitary version

available), carbon steel

Lining material : PP, PTFE (others on request)
Process connection : Flanged, wafer, Tri-clamp & other

sanitary connections (ASTM, JIS, DIN, etc...).

Pressure rating : PN16

Temperature rating: Up to 150°C (depending on lining

material)

Power supply : 90 to 265 VAC (DC voltage and others

on request)

Range of Level Transmitter, Remote or Local Version

- UltraSonic and Pressure Principle - For Liquids

Burkert level transmitters are available in various measuring principles and configuration for different applications. Level transmitters are used to continuously measure and communicate distance/level/volume value to remote devices such as PLC, chart recorder, SCADA, etc.



Type 8175

Ultrasonic Level Transmitter

Non-contact level transmitter with built-in display. Sensor emits an ultrasonic wave to be reflected by medium surface. Time required for signal to return is used to determine distance/level/volume measured.

Medium

: Any medium without heavy foaming & turbulence on surface. Not suitable for measuring environment with ammonia & carbon dioxide gas.

Measuring range : 0.3 to 10 m

Output signal : 4..20 mA with optional relay

Wetted material : None

Process connection : G 2" (NPT on request)
Pressure rating : max. 2 bar at 25°C
Medium temperature: -40 to 80°C

Power supply : 18 to 32 VDC or 115/230 VAC

Accuracy : ≤ 0.15 % FS



Type 8326

Level/Pressure Transmitter
Pressure transmitter with high accuracy
thin-film strain gauge or piezoresistive
sensor. Optional display available. Sensor
measures hydrostatic pressure created by
height of water column.

Medium

: Clean, aggressive & contaminated fluid compatible with wetted materials.

Measuring range : 0-0.4 to 0-40 bar

Turn Down : 1:20

Output signal : 4..20 mA

Wetted material : Stainless steel 316, FPM/EPDM
Process connection : G 1/2" (NPT on request) standard;
G 1/2" & 1" flush diaphragm; EHEDG

version



Type 8170/8175

Ultrasonic Level Transmitter
Non-contact level transmitter with
remote-mounted display (wall or panel
mounted). Sensor emits an ultrasonic
wave to be reflected by medium surface.
Time required for signal to return is
used to determine distance/level/volume
measured.

Medium

: Any medium without heavy foaming & turbulence on surface. Not suitable for measuring environment with ammonia & carbon dioxide gas.

Measuring range : 0.3 to 7 m

Output signal : 4..20 mA with optional relay

Wetted material : None

Process connection: G 2" (NPT on request)
Pressure rating: max. 2 bar at 25°C
Medium temperature: -40 to 80°C

Power supply : 18 to 32 VDC or 115/230 VAC

Accuracy : ≤ 0.15 % FS



Type 8323

Level/Pressure Transmitter

Pressure transmitter with high accuracy thin-film strain gauge or piezoresistive sensor. Sensor measures hydrostatic pressure created by height of water

column.

Medium : Clean, aggressive & contaminated fluid

compatible with wetted materials.

Measuring range : 0-0.1 to 0-25 bar

Output signal : 4..20 mA

Wetted material : Stainless steel 316, FPM

Process connection: G 1/2" (NPT on request) standard; G 1/2" & 1" flush diaphragm; EHEDG

version

Medium temperature: -30 to 150°C (depending on version)

Power supply : 10 to 30 VDC Accuracy : \leq 0.25 % FS



Open Channel Flow Transmitter/Totalizer

Digital display level transmitter Type 8175 is utilized to measure level of medium behind restriction and convert data to flow rate. If totalized volume or remote display is required, 4..20 mA signal from Type 8175 can be used to transmit data to optional indicator/totalizer Type 4002.

Flow range : Depends on channel depth and weir/

flume design

Output signal : 4..20 mA (standard for 8175),

Optional 0/4...20 mA/0...10 VDC or open

collector or relay (for 4002)

Communications : Optional RS485/RS232 or DEVICENET

or MODBUS or PROFIBUS-DP

(with 4002)

Operating voltage : 12 to 30 VDC, 115/230 VAC

Range of Level Switches, Controller and Accessories

- Buoyancy or Ultrasonic Principle - For Liquids

Burkert level switches are available in various measuring principles and configuration for different applications.



Type 8181

Horizontal/Vertical Buoyancy Level

Switch

Level detection for clean liquid. Movement of float by medium brings magnet in float close to magnetic switch in body resulting in switch changing

state

Medium : Clean & aggressive liquid compatible

with wetted materials, density > 0.7

: Relay with ASi as option Output signal Wetted material : Stainless steel 304 or PP Process connection: G 3/4" (NPT or PT on request)

Pressure rating : Max. 10 bar (vertical); Max. 5 bar (horizontal)

Temperature range : -40 to +120°C : 24 VDC (LED operation) Power supply

: IP65 Type of protection



Type SL25

Vertical Buoyancy Level Switch Level detection for clean liquid. Movement

of float by medium brings magnet in float close to magnetic switch in body resulting in switch changing state. Incorporated baffle body eliminates switch chatter.

Medium : Clean & aggressive fluid compatible with wetted materials, density > 0.8 g/cm³.

: FET (NPN/PNP) or relay Output signal : PP & EPDM or FPM gasket Wetted material Process connection: G 3/4" (NPT on request)

Pressure rating : Max. 1 bar Temperature range : Max. +90°C

Power supply : 12 to 36 VDC (FET version)

Type of protection : IP67



Type SNLH

Horizontal Buoyancy Level Switch

Type SNLV

Vertical Buoyancy Level Switch Low Cost Buoyancy Level Switch Level detection for clean liquid. Movement of float by medium brings magnet in float close to magnetic switch in body resulting

in switch changing state.

Medium : Clean & aggressive liquid compatible

with wetted materials, density >

0.8 g/cm³.

Output signal : Relay reed

: Stainless steel 316, PP or PVDF (with Wetted material EPDM gasket where applicable)

Process connection: 1/2" NPT or M16 (horizontal);

1/8" NPT (vertical)

: Max. 2 bar (vertical); Pressure rating

Max. 4 bar (horizontal)

Temperature range : -20 to +120°C (depending on material)

Type of protection : IP65



Type 8110

Tuning Fork Level Switch

Level detection for difficult liquid. Tuning fork vibrates at 400 Hz. When switch is immersed in medium, frequency changes

and switch changes state. Medium

: Clean, aggressive & contaminated liquid compatible with wetted material. Light to medium coating liquid. No minimum

liquid density

: FET (NPN/PNP) or relay Output signal

Wetted material : PP/Ryton

Process connection: G 3/4" (NPT on request)

Pressure rating Max. 10 bar : 40 to +90°C Temperature range Power supply 12 to 36 VDC

Type of protection : IP68



Type SL26

Horizontal Buoyancy Level Switch Level detection for clean liquid. Movement of float by medium brings magnet in float close to magnetic switch in body resulting in switch changing state. Incorporated baffle body eliminates switch chatter.

Medium : Clean & aggressive fluid compatible with wetted materials, density > 0.8 g/cm³.

: FET (NPN/PNP) or relay Output signal : PP & EPDM or FPM gasket Wetted material Process connection : G 3/4" (NPT on request)

Max. 1 bar Pressure rating Max. +90°C Temperature range

12 to 36 VDC (FET version) Power supply

: IP67 Type of protection



Type SL31

Rail-mount Level Controller

DIN rail mounted level controller for up to 3 switch inputs with up to 2 relay outputs for controlling pumps/valves/alarms/automatic filling or emptying application. With DC power supply for level switches.

Operating voltage Relay type

: 115/230 VAC

SPDT 380 VAC/150 VDC (max. 12 A non-inductive)

Selectable normally open or normally Relay mode

closed

Relay time delay Adjustable (0.15 to 60 seconds) Latching Selectable On/Off Max. 70°C Operating temp DC supply voltage

for switch : 13.5 V



Type SL40

Adjustable In-Tank Fitting for Level

Switches

Holders for up to 4 level switches with individually adjustable switch depth. Switch depth can be easily changed by loosening a screw.

Fitting length Body material : Up to 3 m

Connection

: PP (20% glass filled) with Viton o-ring : G 2" (NPT on request) for mounting, 3/4" BSP (NPT on request) for switch

: Atmospheric Pressure rating Temperature range : Max. 90°C

Range of Pressure Transmitters, Switches and Chemical Seals - Ceramic cell, Thin-film strain gauge or Piezoresistive Measuring Principles

Burkert pressure transmitters/switch are available in various measuring technologies and process connections for use in different applications ranging from high-purity to highly contaminated media including aggressive media. Chemical seals available for more difficult applications.



Type 8314

Pressure Transmitter
Pressure transmitter with
ceramic measuring cell.

Medium : Clean & aggresive fluid compatible with

wetted materials.

Measuring range : 0-1 to 0-100 bar Output signal : 4..20 mA

Wetted material : Stainless steel 303 (1.4305), FPM,

ceramic

Process connection: G 1/4" (NPT on request) standard

Medium temperature : -15 to 125°C Power supply : 8 to 33 VDC Accuracy : \leq 0.3 % FS



Type 8327

Pressure Transmitter

Pressure transmitter with high accuracy thin-film strain gauge or piezoresistive sensor for use in hazardous environment (gases & vapour zones 0, 1 & 2; dust zones 20, 21 & 22; mining categories M1 & M2).

Medium : Clean, ag

: Clean, aggressive & contaminated fluid

compatible with wetted materials.

Measuring range : 0-0.1 to 0-16 bar
Output signal : 4..20 mA

Wetted material : Stainless steel 316 Process connection : G 1/2" standard;

G 1/2" & 1" flush diaphragm;

EHEDG version

Medium temperature: -30 to 100° C Power supply : 10 to 30 VDC Accuracy : ≤ 0.25 % FS

Certification : EEx ia I/II C T6 (DMT 00 ATEX E 045 X)



Type 8311

Pressure Switch / Indicator / Transmitter Pressure switch with ceramic measuring cell. With LCD display and transistor or relay output. Optional analog output

available.

Medium : Clean, aggressive & contaminated fluid

compatible with wetted materials.

Measuring range : 0-2 to 0-50 bar

Output signal : Transistor (NPN/PNP) or relay with

optional 4..20 mA & ASi

Wetted material : Stainless steel 316, FPM, ceramic Process connection : G 1/4" (NPT on request) standard

Medium temperature: -20 to 100°C Power supply : 12 to 30 VDC Accuracy : \leq 1.5 % FS



Type 8323

Pressure Transmitter

Pressure transmitter with high accuracy thin-film strain gauge or piezoresistive

sensor.

Medium : Clean, aggressive & contaminated fluid

compatible with wetted materials.

Measuring range : 0-0.1 to 0-25 bar

Output signal : 4..20 mA

Wetted material : Stainless steel 316, FPM

Process connection: G 1/2" (NPT on request) standard;

G 1/2" & 1" flush diaphragm;

EHEDG version

Medium temperature: -30 to 150°C (depending on version)

Power supply : 10 to 30 VDC Accuracy : \leq 0.25 % FS



Type 8391

Chemical Seal

Chemical seal separates the pressure sensor from the medium to be measured while allowing pressure variations to be precisely transmitted.

Various styles available in different materials to enable use of pressure switch & transmitters in even the most adverse applications.



Type 8326

: Clean, aggressive & contaminated fluid

Pressure Transmitter
Pressure transmitter with
high accuracy thin-film strain
gauge or piezoresistive
sensor with or without
display.

compatible with wetted materials.

Measuring range : 0-0.4 to 0-40 bar Turn Down : 1:20

Output signal : 4..20 mA

Medium

Wetted material : Stainless steel 316, FPM/EPDM Process connection : G 1/2" (NPT on request) standard;

G 1/2" & 1" flush diaphragm;

EHEDG version -30 to 105°C

Medium temperature: -30 to 105° C Power supply : 12 to 36 VDC Accuracy : $\leq 0.15 \%$ FS



Range of Temperature Sensors, Transmitters, Switches and Controllers - For Monitoring, Controlling or On/Off Control Loop Application

Burkert temperature sensor/transmitter/switch utilize PT100 sensing elements with various process connections for use in different applications.



Type ST20/ST21

Temperature Sensor/Transmitter
Temperature sensor with PT100 sensor
element (2 or 3 wire). Also available with
4..20 mA output. Version with 2 PT100

elements available on request.

Medium : Clean, aggressive & contaminated fluid

compatible with wetted materials.

Measuring range : -50 to +500°C
Probe length : Up to 535 mm
Output signal : PT100 or 4..20 mA

Wetted material : Stainless steel 316 (others on request)
Process connection : G 1/2" (NPT, flanged, tri-clamp, others

on request)

Pressure rating : PN16

Power supply : 12 to 36 VDC (4..20 mA output version)



Type 8400

Temperature Switch / Indicator /

Transmitter

Temperature switch with PT100 sensor element. With LCD display and transistor or relay output. Optional analog output available.

Medium : Clean, aggressive & contaminated fluid

compatible with wetted materials.

Measuring range : -40 up to +125°C

Probe length : 30, 100, 200 mm (other length available

on request)

Output signal : Transistor (NPN/PNP) or relay with

optional 4..20 mA & ASi

Input signal : 4..20 mA (external set point)

Wetted material : Stainless steel 316

Process connection: G 1/2" (NPT & PT on request)

Pressure rating : PN16

Power supply : 12 to 30 VDC



Type 8400 Wall Mount

Temperature Switch / Indicator / Transmitter With LCD display and transistor or relay output. Optional analog output available.

Measuring range

: -40 up to +125°C

Output signal :

: Transistor (NPN/PNP) or relay with

optional 4..20 mA & ASi

Process Input

signal : from PT100

Input signal : 4..20 mA (external set point)

Power supply : 12 to 30 VDC



Type 0911

Panel Mount Temperature Digital Controller, 2-point, 3 point or PID-operation for All Standard Temperature Sensors

Display : 3 or 31/2 digit version available
Sensor inputs : PTC, NTC, PT100, Thermocouple,

0...1V, 0...10V or 4...20 mA

Measuring range : -100 up to +1,400°C(depending on type

of sensor input)

Relay outputs : Resistive load 8A, Inductive load 3A

2 point controller : up to 2 changeover 3 point controller : 2 N/O & 1 N/C contact PID controller : 2 N/O & 1 N/C contact

Ambient

 $\begin{array}{ll} \text{temperature} & : 0 \text{ to } +50^{\circ}\text{C} \\ \text{Protection class} & : \text{IP65 (panel front)} \end{array}$

Power supply : 12 to 24V AC/DC; 230V AC

Range of Analytical Sensors, Transmitters & Controller

- pH, ORP and Chlorine measurement and control

Burkert offers a series of analysis sensors & instruments for measuring and controlling pH, ORP, conductivity and free chlorine.



Type 8205

Digital pH Transmitter

Measuring & controlling of pH of liquid. Available as compact unit (with integrated pH sensor & temperature sensor) or separate version (wall or panel-mounted, to use with Type 8200 sensor)

Measuring range : 0-14 pH

Temperature

compensation : Automatic (with PT1000 connected) : 4..20 mA (pH or temperature), optional Output signal

relay

: 12 to 30 VDC, 115/230 VAC Power supply

Temperature sensor: PT1000 SS 316Ti (compact version only) Process connection: Use Burkert Type S020 fitting or

submersion kit (compact version only)

Type of protection : IP65



Type 8205

Digital pH Controller

With built-in P.I.D. controller for more accurate controlling of pH of liquid. Available as compact unit (with integrated pH sensor & temperature sensor) or separate version (wall or panel-mounted, to use with Type 8200 sensor)

: 0-14 pH Measuring range

Temperature

compensation : Automatic (with PT1000 connected) Output signal : 4..20 mA (pH or temperature), pulse (relay/transistor/Triac), alarm relay : 12 to 30 VDC, 115/230 VAC Power supply

Temperature sensor: PT1000 SS 316Ti (compact version only)

Process connection: Use Burkert Type S020 fitting or

submersion kit (compact version only)





Type 8200

pH Sensor

Measuring of pH of liquid. For submersion and in-line use. Long distance version up to 500m and short distance version up to 5m

: 0-14 pH range Medium temperature : Up to 130°C Pressure rating : Up to 6 bar

Body material **Process**

connection : Use with Burkert Type S020 fitting;

1" (BSP/NPT/PT) or other connection

on request;

Special submersion kit available on

request

: Glass

Probe (electrode)

: Various Combination probe, with various type

design for different applications.

Type of protection



Type 8206

Digital ORP Transmitter

Measuring & controlling of ORP of liquid. Compact unit with integrated ORP sensor, to use with Type S020 fitting.

Measuring range : -2000 to +2000 mV Output signal : 4..20 mA, optional relay

: 12 to 30 VDC Power supply Medium

: Up to 130°C temperature Pressure rating : Up to 6 bar

Process connection: Use Burkert Type S020 fitting (compact

version only)

Type of protection

Type 8236

Chlorine Sensor & Controller

Solid-state amperometric chlorine sensor for accurate & maintenance-free measurement of free chlorine. For more accurate measurement & control, the panel-mounted controller can be linked with Type 8205 for pH compensation. Sensor can also be used to measure bromine & iodine. Complete by-pass system solution consisting of valves, strainer, flow indicator/switch, chlorine sensor/controller, pH sensor/

transmitter from one source.

: 0.01 to 10 mg/l free chlorine Measuring range Medium

: +5 to +40°C temperature Pressure rating : Max. 1 bar Flow range : 15 to 50 l/h

: 0/4..20 mA, 0-10 V (process value, Output signal

control output), relay (alarm, limit value)

Power supply : 24 VDC, 115/230 VAC

Range of Analytical Sensors, Transmitters & Controller

- Conductivity measurement and control

Burkert offers a series of analysis sensors & instruments for measuring and controlling pH, ORP, conductivity and free chlorine.



Type 8220

Conductivity/Resistivity Sensor Measuring of conductivity/resistivity of liquid using conductive measuring principle. For in-tank and in-line use.

Measuring range $$: 0.05 µS/cm to 200 mS/cm (depending on cell constant), also 0.05-20 M Ω /cm

Medium temperature: 0 to 120°C Pressure rating: PN6

Wetted material : PVDF & SS316 or PVDF, SS316 &

graphite

Process connection: For Burkert Type S020 fitting

Temperature

compensation : Built-in Type of protection : IP65



Type 8225

Digital Conductivity/
Resistivity Transmitter
Digital display
conductivity/resistivity
meter with 4..20 mA
output as standard.
Available as compact unit
(with integrated
sensor, conductive

measuring principle) or separate version (wall or panel-

mounted, to use with Type 8220 sensor)

Measuring range : 0.05 μS/cm to 200 mS/cm

(depending on cell constant),

also 0.05-20 MΩ/cm

Medium temperature: 0 to 120°C

Pressure rating : PN6

Wetted material : PVDF & SS316 or PVDF, SS316 &

graphite

Temperature

Power supply

compensation : Built-in

Output signal : 4..20 mA (conductivity/resistivity or

temperature), optional relay : 12 to 30 VDC, 115/230 VAC

Process connection: Use Burkert Type S020 fitting (compact

version only

Type of protection : IP65



Type 8223

Inductive Conductivity/Resistivity Sensor Measuring of conductivity/resistivity of liquid using inductive measuring principle. Suitable for aggressive, contaminated and coating media. For in-tank and in-line use.

With 4..20 mA output.

Measuring range : 10 μS/cm to 1 S/cm

Medium temperature : -10 to +80°C

Pressure rating : PN6

Wetted material : PVDF or PEEK body with FPM or EPDM

O-ring

Power supply : 12 to 30 VDC
Process connection : For Burkert Type S020 fitting

Temperature

compensation : Built-in Type of protection : IP65



Type 8226

Digital Inductive Conductivity Transmitter Digital display conductivity meter using inductive measuring principle with 4..20 mA output as standard. Suitable for aggressive, contaminated and coating media. For in-tank and in-line use. Available as compact unit only (with integrated sensor).

Measuring range : 100 μS/cm to 2 S/cm

Medium temperature: 0 to 120°C Pressure rating: PN6

Wetted material : PVDF or PEEK body with FPM or EPDM

O-ring

Temperature

compensation : Built-in

Output signal : 4..20 mA (conductivity or temperature),

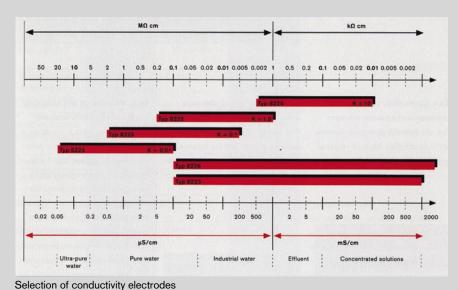
optional relay

Power supply : 12 to 30 VDC, 115/230 VAC

Process connection : Use Burkert Type S020 fitting (compact

version only)

Type of protection : IP65



Range of Analytical Sensors, Transmitters & Controllers

Range of Timer Units For Plug-On To On/Off Solenoid Valves

- Low Cost Solution For Repeated Valve Timing Control



Type 1078-1

Timer Unit can be fitted to all valves that has electrical connection standard to DIN 43 650. Internal programmable through

DIP switches and potentioner.

: PA Body Working temp. range: 0 ~ +60°C Time range : 0.5s up to 10h

(depending on range selection) **Function** : Cycler, Inverted cycler, Switch-on

impulse, Switch-on delay

: 12 to 24V DC, 24 to 48V UC, 48 Voltage

to 110V UC, 110 to 230V AC

50/60Hz

: 2A@12-24V DC, 1.5A @ 24-48V UC Switching load

0.5A@48-110V UC &, 110-230V AC

Type of protection



Type 1078-2

Timer Unit can be fitted to all valves that has electrical connection standard to DIN 43 650. Programming with control unit 1077-2.

: PA

: -10°C~ +60°C Working temp. range

Time range : 0.2s to 9999h **Function**

: Cycler, Inverted cycler, Switch-on impulse, Switch-on delay, Time delay cycler, Cycler with adjustable switchon impulse, Time delay and inverted

pulser

: 12 to 24V DC, 24 to 48V UC, 110 Voltage

to 230V AC 50/60Hz

Switching load : 2A@12-24V DC, 1.5A @ 24-48V UC

0.5A @ 110-230V AC 50/60Hz

Type of protection : IP65

Type 1077-2

Control unit installs program into basic timer unit Type 1078-2

and as display of status when plug on

Body : PA

Working temp. range : 0°C~ +60°C

Operating voltage : From basic unit being programmed

Power consumption : 5 mW





























National and international approval

When it comes to safety, the world can be very small (-minded). It is crucial to comply with the approvals required on all important markets. For Bürkert, compliance with standards is standard. Not only our products, but also our production and the entire company (DIN ISO 9001) comply with the required criteria in order to successfully be able to deploy Bürkert technology worldwide. We were the first valve manufacturer outside the USA to be awarded the CSA Category Certification. It allows us to conduct all required measurements ourselves and, if necessary, to grant the required approval to our customers. This is but one example of many showing why you are on the safe side with Bürkert in regards to approvals as well. And you will also be on the cost-saving side because safety is a matter of assurance.

System Solutions: Flow Control

Burkert offers more than just high quality products/components to your requirements. Whenever you require systematic "all-in solutions", we are able to offer system package comprising innovative technology and individual services that ensure your success. From consultancy, commissioning, up to training and servicing, Burkert offers Total Fluid Systems Solution.



Application: Flow - Mixing by ratio control on an Paste Production System

Tasl

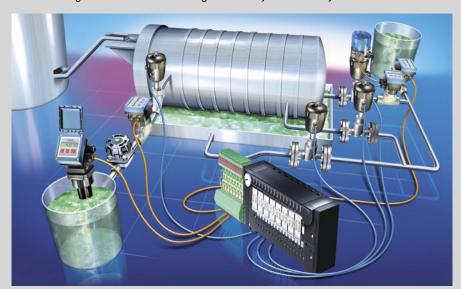
Three components – two fluids and one powder – are required for manufacturing a paste. The flow rate of the two fluids must be controlled in a specific ratio. The powder is added in proportion to the flow rate.

Solution

The quantity of fluid 1 is detected by means of a flow-rate measuring instrument and controlled continuously by a globe control valve. The lower quantity of fluid 2 is also measured and controlled by a second globe control valve in a given ratio with respect to the flow rate of fluid 1. Fluids and powder are mixed in a mixing vat. The quantity of the paste pumped from the mixing vat is detected with a magnetic

inductive flow meter and controlled by a general-purpose controller with a stainless steel diaphragm valve. The set-point values of the closed-loop flow-rate control system for fluid 1, the feed velocity of the powder, the speed of rotation of the agitator and the paste dose are output via an electric/pneumatic automation system.

The set-point value of the closed-loop flow-rate control system for fluid 2 is generated directly in the positioner of the control valve as a function of the flow rate of fluid 1. The flow rate of fluid 2 is controlled in the required ratio via the process controller integrated in the positioner. In addition, pneumatically operated on/off valves controlled directly by the automation system are fitted in all of the system's delivery lines.



Application: Flow rate and Batch control on an industrial automatic wash system

Task

An industrial automatic wash system must be filled with a preset quantity of wash water. In addition to the wash water, it is necessary to provide rinse water at a constant volume flow.

Solution

The washing drum of an industrial automatic wash system is embedded in several washing chambers and transports the linen to be washed from chamber to chamber by rotation.

A preset wash water stream is added to the first chamber via an angleseat valve. The wash water is supplied from a supply tank whose fluid level is monitored by means of an ultrasonic level

transmitter. The quantity of water flowing is detected by means of a magnetic inductive flow transmitter.

Rinse water is added in reverse flow to the direction of the wash water via the last chambers. A partial stream is supplied uncontrolled via a globe valve. The second partial stream of rinse water is controlled via a globe control valve so that the total stream pumped from a supply tank and required by the wash process is achieved. The controlled partial stream and total stream of water are measured via magnetic inductive flow transmitters. The overflowing water from an overflow tank is admixed to the rinse water via a globe valve, thus achieving a closed rinse circuit.

System Solutions: Level Control

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Application: Distribution of a fluid over several tanks by level control

Task

The fluid level in several supply tanks is to be constantly maintained within a certain range. The tanks are fed from a feed tank that is continuously kept at a constant level.

Solution

The supply tanks each feature two level switches, one for minimum filling level and one for maximum filling level. The undershoot of the minimum filling level is signaled to the master control system via the AirLINE electrical/pneumatic automation system. The diaphragm valve for filling the tank then opens. The valve is closed again when the maximum filling level is reached (upper level switch).

The filling level in the feed tank is maintained on a constant level by means of a local control loop. A continuously measuring ultrasonic level transmitter detects the filling level in the feed tank. The closed-loop filling level control function is performed by a diaphragm control valve with attached positioner. The positioner incorporates a process controller to whose actual value input the signal output of the level transmitter is connected. The set-point value of the control loop is preset via a 4 ... 20 mA signal which is made available by the electrical/pneumatic automation system.



Application: Mixing different fluids in a given ratio by level control

Task

Several fluids are to be mixed in a predetermined ratio in an mixing tank. Containers are filled with the product after thorough mixing.

Solution

The first component is added to the empty mixing tank via a solenoid valve until the required quantity is reached. The volume is determined by the level sensor on the basis of the filling height and tank geometry.

The controller closes the solenoid valve when the required quantity is reached and opens the valve for the second component, etc. After adding the last component, the components are thoroughly mixed by an agitator to provide a homogenous product, which is then filled into containers or further processed. During the filling process, the product is added to a container until a load cell determines that the required filling quantity has been reached.

System Solutions: Temperature Control

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Application: Mold cooling by solenoid - operated proportional valves with PI Controllers

Tack

Injection molds for plastics processing must be heated before injection molding. The molds must be cooled after molding to facilitate hardening and part ejection.

Solution

The temperatures of the each of the two halves of the injection mold are controlled independently. The molds are heated electrically by means of cartridge heaters incorporated in the mold. Cooling water is pumped through the two mold halves in order to cool the molds.

The temperatures are measured with resistance thermometers. These actual temperature values are supplied to the temperature controllers, which, depending on the pre-settings, activate either the solenoid-operated control or proportional valves incorporated in the cooling water circuits.

The controllers are mounted directly on the proportional valves. The set-point presetting is performed locally using the buttons of the controllers, or the set-point value is preset externally via a standard signal.



Application: Tempering water in a steam heated heat exchanger

Task

A reaction or agitator vessel must be filled with a specific, adjustable quantity of water. The flowing water must be controlled at a preset temperature.

Solution

The flowing water is tempered by means of a steam-heated heat exchanger. The temperature of the water is measured with a resistance thermometer at the outlet of the heat exchanger. The quantity of steam for heating the heat exchanger is set via a globe control valve. A positioner with an integrated process controller,

which assumes the task of closed-loop temperature control, is attached to the control valve.

The required water volume is dispensed by means of a flow sensor with an integrated dosing control system.

The temperature control system and the dosing control system are activated at the start of a filling operation. The dosing control opens a pneumatically operated diaphragm valve. When the required water quantity is reached, the valve is closed again and the temperature control system is deactivated.

Useful Information

Characteristics and possible applications of various solenoid actuators for solenoid valves

	Plunger	Pivoted armature	Rocker				
Media separation in actuator	No	Standard with media separation.	Available with and without media separation.				
Water behaviour/ service life	Moderate to high wear susceptibility of the solenoid core due to the friction in the core guide tube, depending on field of application.	Low wear since there is no sliding friction in the armature.	Very low wear and long service life (special version without isolating diaphragm).				
Universality and possible applications	Very robust solenoid coils available in various sizes and with various power ratings. Can be used for AC/DC/UC.	Very tried and tested actuation principle. Only one coil size available. Can be used for AC/DC/UC.	Small, compact actuation system, particularly as pilot valve or for low flow rates. Can be used only for DC, or also for UC with seriesconnected rectifier.				
Typical media	Neutral gaseous and fluid, non-abrasive media, e.g. - Water (demineralized water, only conditional) - Air - Oils - Industrial gases	Neutral gaseous and fluid, media, conditionally also aggressive and abrasive, depending on use/usability and resistance of the isolating diaphragm material, e.g. - Water (including demineralized water) - Oils, Acids and Iyes - Ultrapure media	Without media separation: neutral gases, e.g. air With media separation: also aggressive gases and fluids of low viscosity				

Pressure

	Pa	mWC	Torr	Inch H2O	psi
1 bar	100000	10.20	750	401.6	14.505

- 1 cubic inch = 16.387 cm^3
- 1 cubic foot = 28.317 dm³
- 1 cubic yard = 0.76455 m^3
- 1 gallon (GBr) [gal] = 4.54609 l
 - 1 gallon (USA) [gal] = 3.78543 dm³

Lengths • 1 inch [in] = 2.54 cm = 0.0254 m

- 1 foot [ft] = 30.48 cm = 0.3048 m
- 1 yard [yd] = 0.9144 m

Meaning of the type of protection (IP code)

Digit	1st digit - Protection against ingress of foreign bodies	2nd digit - Protection against ingress of water
0	No protection	No protection
1	Foreign bodies > 50 mm	Water incident, perpendicular
2	Foreign bodies > 12 mm	Water incident at an angle (7590°)
3	Foreign bodies > 2.5 mm	Spray water
4	Foreign bodies > 1.0 mm	Splashwater
5	Dust-protected	Jet-proof
6	Dust-tight	Heavy seas
7		Immersion
8		Submersion

Flow rate

	sccm	slpm	scfm
1 I _N /min	1073.22	1.073	30.39
1 m _N 3/h	63.4	0.063	1.82

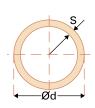
sccm: standard cubic centimeter per minute slpm: standard liter per minute scfm: standard cubic foot per minute

Standard for solvent joint for Burkert range of plastic valves and fittings

		ISO I	R161	BS 3	505-6	ASTM	D1784	JIS 6741		
Size		Min OD	Max OD	Min OD	Max OD	Min OD	Max OD	Min OD	Max OD	
in	mm	mm	mm	mm	mm	mm	mm	mm	mm	
3/8	16	16	16.3	17	17.3	17.1	-	17.8	18.2	
1/2	20	20	20.3	21.2	21.5	21.3	-	21.8	22.2	
3/4	25	25	25.3	26.6	26.9	26.7	-	25.8	26.2	
1	32	32	32.3	33.4	33.7	33.4	-	31.8	32.2	
11/4	40	40	40.3	42	42.4	42.2	-	37.7	38.3	
11/2	50	50	50.3	48.1	48.4	48.3	-	47.7	48.3	
2	63	63	63.4	60.2	60.5	60.3	-	59.6	60.4	
21/2	75	75	75.4	75	75.3	73	-	75.6	76.4	
3	90	90	90.5	88.7	89.1	88.9	-	88.5	89.5	
4	110	110	110.6	114.1	114.5	114.3	-	113.4	114.6	
5	140	140	140.7	140	140.4	141.3	-	139.2	140.8	
6	160	160	160.8	168	168.5	168.3	-	164	166	
8	200	200	201	193.5	194	219.1	-	214.7	217.3	

Standard for Butt Weld for Burkert range of stainless steel valves & fittings

		IS0	1 4200 DIN Series 0		DIN 11850				SMS	3008	J	IS				BS	ASME			
						Se	ries 1	Ser	ies 2	Seri	ies 3								4825	BPE
DN	L	D1	S	D1	S	D1	S	D1	S	D1	s	D1	S	D1	s	DN	L	D1	S	S
4				6																
6				8	1															
8	90	13.5		10										13.8		1/4"	78	6.35		0.89
10		17.2				12		13		14				17.3	1.65	3/8"	89	9.53		
15	110	21.3	1.6	18		18		19		20				21.7		1/2"	108	12.7	1.2	
20	119	26.9		22		22		23		24				27.2	2.1	3/4"	117	19.0		
25	129	33.7		28	1.5	28	1	29	1.5	30	2	25		25.4		1"	127	25.4		1.65
40	161	48.3	2	40		40		41		42		38	1.2	38.1	1.2	11/2"	159	38.1		
50	192	60.3		52		52		53		54		51		50.8	1.5	2"	190	50.8		
65	250	76.1	2			70	2					63.5	1.6	63.5	2	21/2"	190	63.5		1.65
80	250	88.9	2.3			85	2					76.1	1.6	76.3	2	3"	250	76.2		1.65
100	290	114.3	2.3			104	2					101.6	2	101.6	2.5	4"	290	101.6		2.11



Information for Selection and Installation of Paddle Wheel Flow Devices

Various aspects for ensuring troublefree operation must be noted when designing a flow measuring system.

Flow/flow velocity/nominal diameter diagrams

Flow rates stipulated as a function of the nominal diameter are possible depending on the measuring method and device type. The higher the flow velocity, the lower the measurement error, but the higher the pressure loss. Pipes for fluids similar to water are generally designed for an average flow velocity of approx. 2 to 3 m/s.

Example of nominal diameter selection

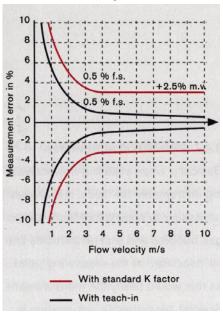
Given:

Flow rate 10 m³/h at 2 to 3 m/s.

Solution:

The intersection of the flow rate and velocity of pipe flow results in the nominal diameter DN 40.

Measurement error diagram



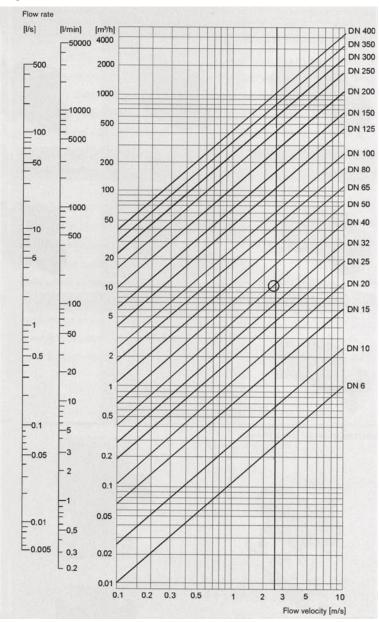
Inlet/outlet sections

Inlet and outlet sections should be complied with in order to obtain as uniform a flow profile as possible at the flow measuring point. If installation conditions do not allow compliance, many Bürkert flow measuring instruments allow correction of the measured value via teach-in calibration.

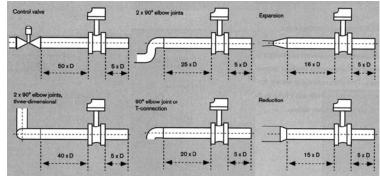
Installation information

Basically, when installing flow measuring instruments for fluids, it is always necessary to ensure that there are no gas bubbles and that no particles can be deposited at the measuring point, as this would falsify the measurement. Special, type-specific information is included in the corresponding operating instructions.

Diagram for nominal diameter selection



Inlet and outlet sections in accordance with EN ISO 5167-1



D = nominal pipe diameter

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