Bürkert Select
We make ideas flow



SOLENOID VALVES

PROCESS ACTUATION

PROCESS VALVES

SENSORS

Quality Products from a Reliable Partner

Bürkert is unique in its product offering for measuring, controlling, and regulating fluids. No other company's range of expertise in this sector is as **extensive as Bürkert's** and we pride ourselves in making ideas flow.

Bürkert's priority is clear. Our products are designed to be configured, delivered and installed **as simply as possible**. Our vast portfolio (28,000 types) of German engineered products are precision manufactured solely to contribute to the efficiency of your process.

Superlative research and development centres in Ingelfingen, Germany and Triembach, France, exhibit our commitment to maintaining a leading technological edge. Bürkert manufactures each of their products inside flexible, purpose built facilities in Germany and France. Having significant control over our complete supply chain means independence from outside suppliers and better control of our deliveries to you. Our independence allows us to be fast and Bürkert's **connected world-wide inventory** ensures off-the-shelf delivery on many items.

With an **extensive product stock** our sales associates are able to swiftly provide information regarding inventory, order tracking and billing always embracing the idea of uncompromising service quality. We will only suggest equipment to fit the purpose and we'll even make "house calls" to help you set up and troubleshoot your equipment.

This selected product brochure serves as the basis of a commitment of **exceptional customer service**.

Whether your area of process control involves temperature, pressure, pH, conductivity, flow or level, **Bürkert has the products that can make your life simpler.**

How to order using this catalogue:

How to Use Our Select Catalogue

This catalogue is designed to be a simple, friendly guide to enable you to quickly find the most suitable solution for your needs. Organised into four chapters, starting with Solenoid Valves and ending with some examples from our Sensor & Transmitter range each chapter has a simple overview to start.

The main thing to remember is that we are here to help. If you need any assistance please do not hesitate to contact us. We have included a list of Bürkert offices around the world.

This condensed layout only allows us to show a small portion of our capabilities. If you do not see what you need give us a call or search our Internet site. We would love to make you feel at home in the Bürkert world of fluid fascination.

Our well trained team can answer any technical product questions and they also have experience in many process applications.

We look forward to being your fluid control solution provider and working with you soon!

You will find the latest product information on www.burkert.com under Documentation / Datasheets

Bürkert Select

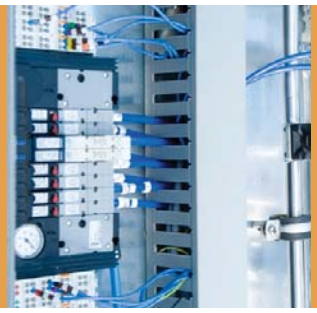
SOLENOID VALVES

page 6



PROCESS ACTUATION & NETWORKING

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PROCESS VALVES

page 39



SENSORS, TRANSMITTERS & CONTROLLERS

page 58



Selection Guide Solenoid Valves

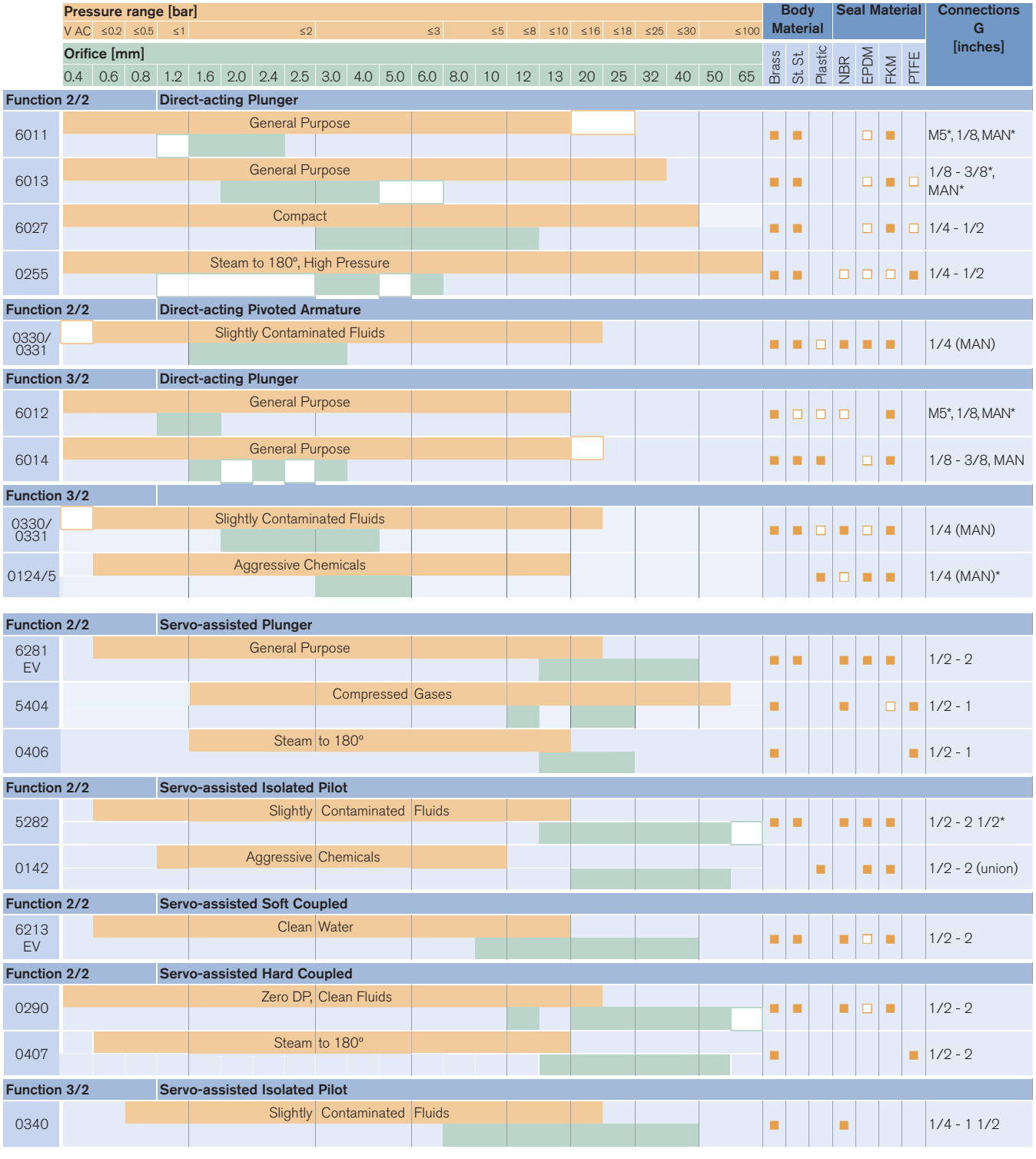
Solenoid valves are deployed to shut off, release, dose, distribute or mix liquids or gases. They are confronted with many different requirements in a plethora of applications. In the table below there are direct-acting valves (utilizing rugged, proven working principles of plunger or pivot) and servo-assisted valves (which employ the direct-acting valves as pilot operators).

For a full explanation of the various working principles please see our Product Overview Number 1. Solenoid Valves

High Pressure	 **0255** page 12	 **5404** page 21			
Steam & Hot Media	 **6013** page 9	 **0255** page 12	 **0406** page 20	 **0407** page 20	
Aggressive Chemicals	 **0124** page 15	 **0142** page 19			
Contaminated Fluids	 **0330** page 14, 28, 29	 **5282** page 18			
General Purpose 3/2 way	 **6012** page 25	 **6014** page 26	 **0340** page 30		
General Purpose 2/2 way	 **6011** page 8	 **6013** page 9	 **6213 EV** page 22	 **0290** page 24	 **6281 EV** page 16

Selection Guide Solenoid Valves

This chart can be used to choose a valve where the working pressure (orange bar) is known. For each valve the available orifices are detailed (green bar). At the right side of the chart the available body and seal materials can be seen as well as the possible process connections. Plunger type direct-acting valves should be restricted to neutral and clean fluids while pivoted armature valves offer excellent reliability by employing a media separating diaphragm to control corrosive, contaminated or aggressive fluids.



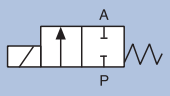
* *on request* ■ *Standard* □ *Optional* MAN *Manifold mount*

Plunger Operated 2/2 Way Solenoid Valve

2/2-Way, G 1/8", 0-12 bar max.

- Brass or Stainless steel
- FKM seal as standard
- Slip over coil can be rotated in 4 x 90 degrees





Direct-acting miniature solenoid valve which is plunger operated for neutral gases, liquids and technical vacuum. Available in standalone or manifold mount versions, there is also an "analysis" version which is manufactured under cleanroom conditions.

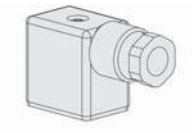
Technical Data

Pressure range	0-12 bar max.
Temperature media	-10 °C – +100 °C
Ambient temperature	+55 °C, max.
Body material	Brass or Stainless steel
Seal material	FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 4 W, AC: 9 VA (inrush), 6 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2507 cable plug Form B (not included)

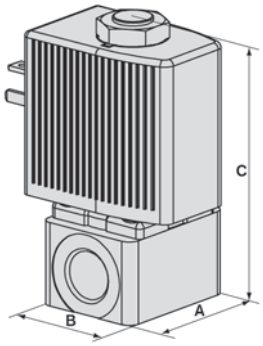
Options

- Cable plug with LED and varistor (p. 32)
- Flange and analysis valves

Envelope Dimensions [mm] (see datasheet for details)



2507 cable plug Form B not included (see page 32)



Size	A	B	C
G 1/8"	25	20	50.5

Ordering Chart

Port connection [inch]	Orifice [mm]	Kv Value [m³/h]	Pressure range [bar] DC	Pressure range [bar] AC	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Brass							
G 1/8	1.6	0.06	0-6	0-12	163 499	163 500	163 502
G 1/8	2.0	0.11	0-4.5	0-8	163 503	163 504	163 506
G 1/8	2.4	0.13	0-3	0-6	161 193	163 507	161 194
Stainless steel							
G 1/8	1.6	0.06	0-6	0-12	163 509	163 510	163 512
G 1/8	2.0	0.11	0-4.5	0-8	163 513	163 514	163 516
G 1/8	2.4	0.13	0-3	0-6	163 517	163 518	163 520

Plunger Operated 2/2 Way Solenoid Valve



G 1/8" - G 1/4", 0-25 bar max.

- Brass or Stainless steel
- Slip over coil can be rotated in 4 x 90 degrees

Direct-acting small solenoid valve which is plunger operated for neutral gases, liquids and technical vacuum. Available in standalone or manifold mount versions. Special versions are also available for use with steam.

Technical Data

Pressure range	0-25 bar max.
Temperature media	-10 °C – +100 °C
Ambient temperature	+55 °C, max.
Body material	Brass or Stainless steel
Seal material	FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 24 VA (inrush), 17 VA (hold)
Protection class	IP65, NEMA4 (with cable plug)
Electrical connection	2508 cable plug Form A (not included)

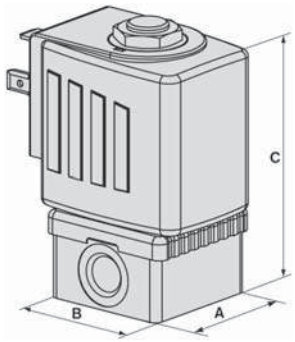
Options

- Normally open
- Cable plug with LED and varistor
- PTFE/graphite seal to 180 °C
- Range of seal materials
- Ex version
- Other voltages on request
- SIL certificate

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A not included (see page 32)



Size	A	B	C
G 1/8"	32.6	35	65.8
G 1/4"	49	35	71.8

Ordering Chart - normally closed (other versions on request)

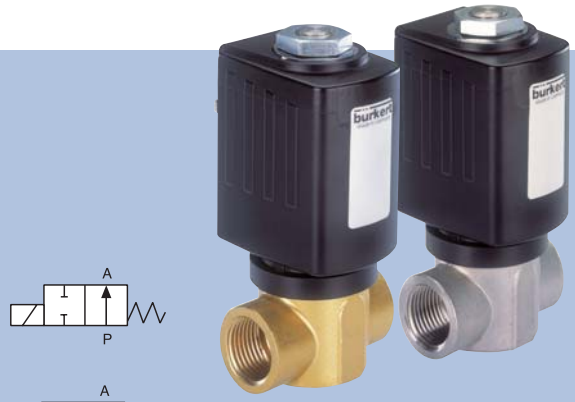
Port connection [inch]	Orifice [mm]	Kv Value [m³/h]	Pressure range [bar] DC	Pressure range [bar] AC	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Brass							
G 1/8	2.0	0.12	0-12	0-25	134 237	132 865	134 239
G 1/8	2.5	0.16	0-10	0-16	134 240	134 241	134 243
G 1/8	3.0	0.23	0-6	0-10	126 091	126 092	126 094
G 1/4	3.0	0.23	0-6	0-10	125 301	125 302	125 304
G 1/4	4.0	0.3	0-1.5	0-4	125 306	125 307	125 309
Stainless steel							
G 1/8	2.0	0.12	0-12	0-25	134 233	134 234	134 236
G 1/8	3.0	0.23	0-6	0-10	126 078	126 079	126 081
G 1/4	3.0	0.23	0-6	0-10	125 317	126 082	126 084
G 1/4	4.0	0.3	0-1.5	0-4	125 318	125 319	125 320

2/2-way Compact Solenoid Valve

6027

G 1/4” - G 1/2”, 0-30 bar max.

- Direct-acting
- Brass and stainless steel body
- Electrical connection cable plug Form A
- Available as normally open or normally closed



Type 6027 is a direct-acting solenoid valve used for shut-off, dosing, filling, and ventilation. The push-over solenoid system is of modular design and the coil can be rotated 360°.

Technical Data

Pressure range	0 - 30 bar max.
Medium temperature	
Seal material FKM, PTFE/FKM	-10 to +120 °C
Seal material PTFE/graphite	-40 to +180 °C on request
Ambient temperature	-10 to +55 °C
Body material	Brass or stainless steel 1.4404 (316L)
Coil material	Epoxy (Class H)
Seal material	FKM, (PTFE/FKM and PTFE/graphite for high temperature versions, EPDM on request)
Power consumption	DC: 16W, AC: 105 VA (in rush) 37 VA (hold)
Electrical connection	According to DIN EN 175301-803 Form A for cable plug Type 2508 (not included - see p. 32)
Protection class	IP65 with Cable Plug

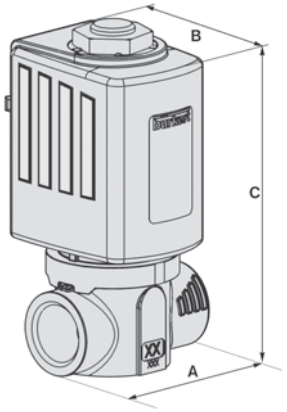
Options

- Cable plug. p. 32
- Seal material EPDM, PTFE
- Non-standard voltages
- ATEX approval
- Higher pressures for gaseous medium to 100 bar
- Oxygen versions
- High temperature version up to +180 °C

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A
not included (see page 32)



Size	A	B	C
G 1/4”	55	55.5	98.2
G 3/8”	55	55.5	101.2
G 1/2”	59	55.5	103.2

Ordering Chart - normally closed (other versions on request)

Port connection	Orifice	Kv value	Pressure range [bar]		Item no. voltage/frequency [V/Hz]		
[inch]	[mm]	[m³/h]	DC	AC	024/DC	024/50	230/50
Brass body							
G 1/4	3	0.28	0-30	0-25	178 295	178 296	178 297
	4	0.54	0-12	0-16	178 299	178 300	178 301
	5	0.73	0-6	0-10	178 303	178 304	178 305
G 3/8	6	0.95	0-3	0-6	178 323	178 324	178 325
	8	1.6	0-1	0-3	178 327	178 328	178 329
G 1/2	8	1.6	0-1	0-3	178 335	178 336	178 337
	10	1.8	0-0.4	0-2	178 339	178 340	178 341
Stainless steel 1.4404 (316L)							
G 1/4	3	0.28	0-30	0-25	178 239	178 240	178 241
	4	0.54	0-12	0-16	178 243	178 244	178 245
	5	0.73	0-6	0-10	178 247	178 248	178 249
G 3/8	6	0.95	0-3	0-6	178 267	178 268	178 269
	8	1.6	0-1	0-3	178 271	178 272	178 273
G 1/2	8	1.6	0-1	0-3	178 279	178 280	178 281
	10	1.8	0-0.4	0-2	178 283	178 284	178 285
	12	2.0	0-1.2	0-0.2	178 287	178 288	178 289

Ordering Chart - normally open (other versions on request)

Port connection	Orifice	Kv value	Pressure range [bar]		Item no. voltage/frequency [V/Hz]		
[inch]	[mm]	[m³/h]	DC	AC	024/DC	024/50	230/50
Brass body							
G 1/4	3	0.28	0-16	0-16	211 914	228 487	228 488
	4	0.54	0-10	0-10	208 623	228 489	228 490
	5	0.73	0-8	0-8	228 491	228 492	228 493
G 3/8	5	0.73	0-8	0-8	228 494	228 495	228 496
	6	0.95	0-6	0-6	228 497	228 498	228 499
	8	1.6	0-3	0-3	228 500	228 501	228 502
G 1/2	8	1.6	0-3	0-3	211 916	228 503	228 504
	10	1.8	0-2	0-2	210 436	219 530	210 438
Stainless steel 1.4404 (316L)							
G 1/4	3	0.28	0-16	0-16	230 243	230 244	230 245
	4	0.54	0-10	0-10	230 246	230 247	230 248
	5	0.73	0-8	0-8	230 249	230 250	230 251
G 3/8	5	0.73	0-8	0-8	230 252	230 253	230 254
	6	0.95	0-6	0-6	230 255	230 256	230 257
	8	1.6	0-3	0-3	230 258	230 259	230 260
G 1/2	8	1.6	0-3	0-3	230 261	230 262	230 263
	10	1.8	0-2	0-2	225 248	230 264	230 265
	12	2.0	0-1	0-1	210 441	230 266	210 321

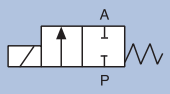
Plunger Operated 2/2 Way Solenoid Valve

0255

G 1/4” - G 1/2”, 0-16 bar max.

- Fluid temperature to 180 °C
- Integrated metallic body seal
- Wear resistant stainless steel seat





High performance plunger operated, direct-acting solenoid valve with integrated metallic body seal and wear resistant stainless steel seat. Three way (Type 0355), high pressure (100 bar), and high temperature (250 °C) versions are also available.

Technical Data

Pressure range	0-16 bar max.
Temperature media	-40 °C – +180 °C
Ambient temperature	+55 °C, max.
Body material	Brass, stainless steel
Seal material	PTFE
Coil material	Epoxy (Class H)
Power consumption	DC: 16 W, AC: 35-40 VA (inrush), 16/10 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2508 cable plug Form A (included)

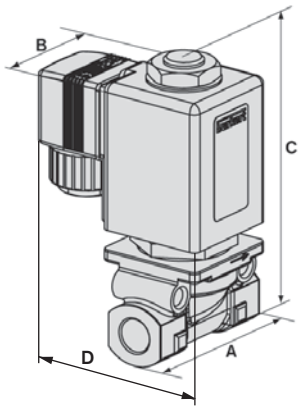
Options

- CSA/UR approval
- Cable plug with LED and/or varistor (p. 32)
- FM Class 1 Div 2 approval
- UL listed version
- ATEX approval

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A included (see page 32)



	Size	A	B	C	D
Brass	G 1/4”	56	40	106.5	73
Brass	G 3/8”	56	40	106.5	73
St.st.	G 1/4”	74.5	40	107	73
St.st.	G 1/2”	74.5	40	110	73

Ordering Chart - normally closed (other versions on request)

Port connection	Orifice	Kv value	Pressure range [bar]		Item no. voltage/frequency [V/Hz]		
[inch]	[mm]	[m³/h]	DC	AC	24V DC	24V AC	230V AC
Brass body							
G 1/4	3.0	0.25	0-10	0-16	052 872	058 421	046 865
G 3/8	4.0	0.5	0-4	0-10	065 438	059 100	051 143
G 3/8	6.0	0.8	0-1	0-4	053 764	050 389	051 324
Stainless steel body							
G 1/4	3.0	0.25	0-10	0-16	021 554	018 593	061 010
G 1/4	4.0	0.5	0-4	0-10	021 251	020 468	023 279
G 1/2	6.0	0.8	0-1	0-4	022 504	052 859	054 811

ELEMENT Analytical Instruments

Our new dual output pH, ORP & conductivity transmitters are designed to make your life simpler. Now these field mount instruments can transmit both temperature and the desired analytical value simultaneously and the removable, backlit programming puck lets you upload and download parameters between devices. The intuitive programming structure means it's beautiful inside and out.

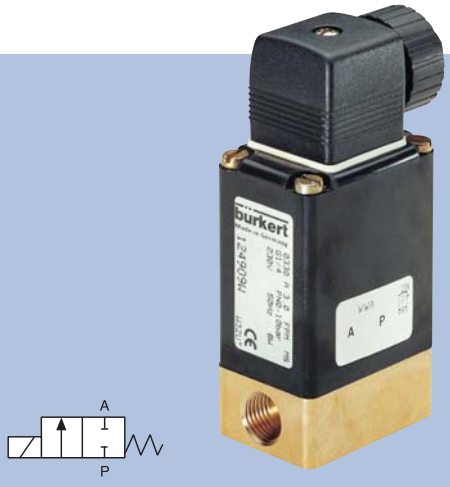


Pivot Operated 2/2 Way Solenoid Valve

0330

G 1/4”, 0-10 bar max.

- Isolating separating diaphragm design
- Manifold version available
- Handles slightly contaminated fluids with ease



Direct-acting solenoid valve employing Bürkert's unique pivoted armature. A hermetic isolation is guaranteed by this ground-breaking design. Shown is the threaded version. The valve is also available in manifold mount as the Type 0331.

Technical Data

Pressure range	0-10 bar max.
Temperature media	-10 °C – +90 °C
Ambient temperature	+55 °C, max.
Body material	Brass or Stainless steel
Seal material	FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2508 cable plug Form A (included)

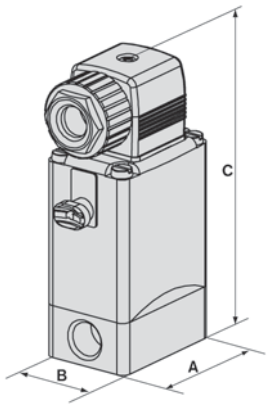
Options

- Three way versions (page 28)
- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Vacuum version
- Cable plug (p. 32)
- CSA Class 1 Div 2
- FM Class 1 Div 1
- UL Listed version
- ATEX, Type 0780

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A included (see page 32)



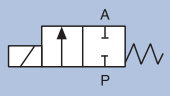
Size	A	B	C
G 1/4”	46	34	100

Ordering Chart - normally closed (other versions on request)

Port connection	Orifice	Kv value [m³/h]		Pressure range [bar]	Item no. voltage/frequency [V/Hz]		
[inch]	[mm]	DC	AC	AC and DC	24V DC	24V AC	230V AC
Brass valve body							
G 1/4	3.0	0.14	0.18	0-10	020 293	022 883	124 909
G 1/4	4.0	0.17	0.23	0-5	024 019	025 246	124 912
Stainless steel valve body							
G 1/4	3.0	0.14	0.18	0-10	020 292	023 984	024 563
G 1/4	4.0	0.17	0.23	0-5	018 276	018 857	020 873

Pivot Operated 2/2 Way Solenoid Valve





G 1/4", 0-10 bar max.

- Isolating separating diaphragm design
- Perfect for harsh chemicals
- Also available in manifold mount
- Series standard with lockable manual operation

Direct-acting solenoid valve employing Bürkert's unique pivoted armature. A hermetic isolation is guaranteed against aggressive substances by the flexible diaphragm. Shown is the threaded version in precision moulded engineered polymer. The valve is also available in manifold mount as the Type 0125.

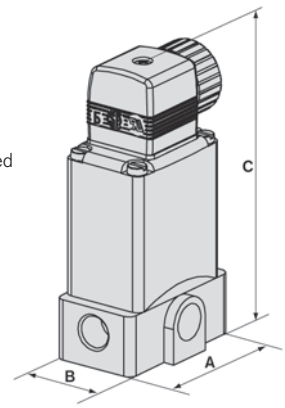
Technical Data

Pressure range	0-10 bar max.
Temperature media	-30 °C – +80 °C (EPDM) 0 °C – +80 °C (FKM)
Ambient temperature	+55 °C, max.
Body material	PP or PVDF
Seal material	FKM or EPDM
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2508 cable plug Form A (included)
Accreditations	CE
Extras	Lockable manual override

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A included
(see page 32)



Size	A	B	C
G 1/4"	56	36	104

Options

- 2/2-way normally open, 3/2-way version
- Electrical position feedback
- Impulse coil
- Manifold mounting (Type 0125)
- Range of diaphragm seals to suit aggressive media
- Vacuum version
- CSA accreditation
- Alternative cable plug (p. 32)
- 5W coil

Ordering Chart - normally closed (other versions on request)

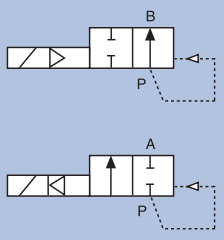
Port connection [inch]	Orifice [mm]	Kv value [m³/h]	Pressure range [bar] DC	Pressure range [bar] AC	Seal material	Item No. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Polypropylene G 1/4	3.0	0.25	0-8	0-10	EPDM	067 214	022 105	062 398
					FKM	018 410	088 496	045 653
	4.0	0.3	0-4	0-5	EPDM	021 660	067 731	063 118
					FKM	062 695	043 005	063 116
	5.0	0.4	0-3	0-4.5	EPDM	061 321	054 261	049 969
					FKM	062 624	067 007	022 619
PVDF G 1/4	3.0	0.25	0-8	0-10	EPDM	019 224	122 385	086 873
					FKM	018 188	020 286	069 006
	4.0	0.3	0-4	0-5	EPDM	057 573	088 266	125 507
					FKM	023 472	069 079	087 837
	5.0	0.4	0-3	0-4.5	EPDM	120 184	059 802	130 117
					FKM	064 512	132 291	063 786

Servo-Assisted Solenoid Valve with Servo Diaphragm

6281 EV

G 1/2" - G 2, 0.2-16 bar max.

- User friendly-one solenoid for all orifices
- Waterhammer-free and low noise
- Manual override
- Rugged moulded diaphragm





Servo-assisted solenoid valve with servo-diaphragm for the control of liquid or gaseous Medium. A pressure difference of 0.5 bar is required for a complete switchover. The modular coil system allows the interchange of the coils over all orifices to be in line with the nominal power and circuit function.

Technical Data

Pressure range		0.2-16 bar max.
Temperature media -	**NBR**	-10 to +80 °C
	FKM	0 to 120 °C (with polyamide coil 90 °C)
Ambient temperature		+55 °C, max.
Body material		Brass acc. to DIN EN 50930-6 Stainless steel (dezincification resistant on request)
Seal material		NBR, FKM, (EPDM on request)
Coil material		Polyamide or Epoxy (Class H)
Power consumption		DC: 8 W, AC: 24 VA (inrush), Circuit function A -14/8 VA (hold) Circuit function B -16/7 VA (hold)
Protection class		IP65 (with cable plug)
Electrical connection		2508 cable plug Form A (not included)

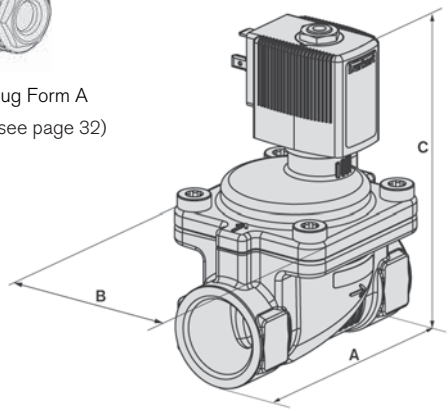
Options

- Cable plug (p. 32)
- EPDM version up to +100 °C with epoxy coil
- Further voltages on request
- European gas approval, EPDM with KW W270
- Brass dezincification
- Ex-version available

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A
not included (see page 32)



DN	Size	A	B	C
13	G 1/2"	65	42	100.7
20	G 3/4"	80	60	111.7
20	G 1"	80	60	118.7
25	G 1"	95	70	123.2
25	G 1 1/4"	95	70	132.7
40	G 1 1/2"	126	99	151.7
40	G 2"	132	99	162.7

Ordering Chart - normally closed (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Item no. voltage/frequency [V/Hz]		
				024/DC	024/50-60	230/50-60
Brass body, Seal material NBR, Polyamide coil, Medium temperature -10...+80 °C						
G 1/2	13	3.8	0.2-16	221 844	221 845	221 846
G 3/4	20	8.5	0.2-16	221 850	221 851	221 852
G 1	25	12	0.2-16	221 856	221 857	221 858
G 1 1/4	25	12	0.2-16	221 859	221 860	221 861
G 1 1/2	40	30	0.2-16	221 862	221 863	221 864
G 2	40	30	0.2-16	221 865	221 866	221 867
Stainless steel body, Seal material FKM, Epoxy coil, Medium temperature 0...+120 °C						
G 1/2	13	3.8	0.2-16	221 989	221 990	221 991
G 3/4	20	8.5	0.2-16	221 992	221 993	221 994
G 1	20	8.5	0.2-16	221 995	221 996	221 997
G 1	25	12	0.2-16	221 998	221 999	222 000
G 1 1/4	25	12	0.2-16	222 001	222 002	222 003
G 1 1/2	40	30	0.2-16	222 004	222 005	222 006
G 2	40	30	0.2-16	222 007	222 008	222 009

Ordering Chart - normally open (other versions on request)

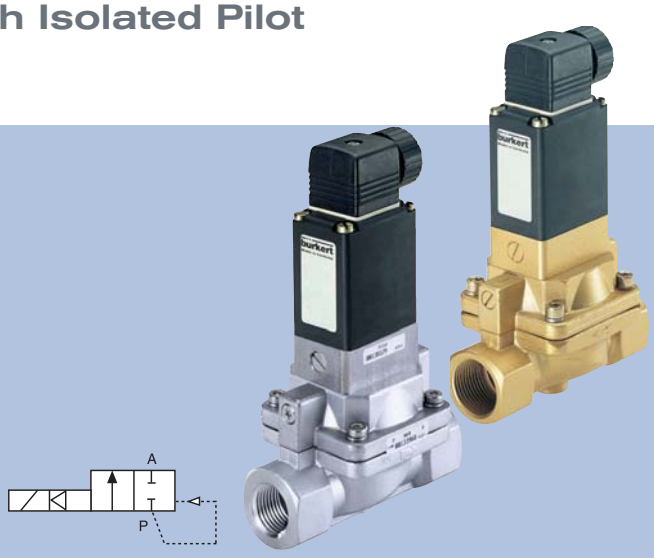
Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Item no. voltage/frequency [V/Hz]		
				024/DC	024/50	230/50
Brass body, Seal material NBR, Epoxy coil, Medium temperature -10...+80 °C						
G 1/2	13	3.8	0.2-16	221 926	221 928	221 929
G 3/4	20	8.5	0.2-16	221 934	221 935	221 936
G 1	25	12	0.2-16	221 940	221 941	221 942
G 1 1/4	25	12	0.2-16	221 943	221 944	221 945
G 1 1/2	40	30	0.2-16	221 946	221 947	221 948
G 2	40	30	0.2-16	221 949	221 950	221 951
Stainless steel body, Seal material FKM, Epoxy coil, Medium temperature 0...+120 °C						
G 1/2	13	3.8	0.2-16	228 387	228 388	228 389
G 3/4	20	8.5	0.2-16	228 390	228 391	228 392
G 1	25	12	0.2-16	228 393	228 394	228 395
G 1 1/4	25	12	0.2-16	228 396	228 397	228 398
G 1 1/2	40	30	0.2-16	228 399	228 400	228 401
G 2	40	30	0.2-16	228 402	228 403	228 404

Servo-Assisted Solenoid Valve with Isolated Pilot

5282

G 1/2” - G 2”, 0.2-10 bar max.

- Unique isolated technology for slightly contaminated fluids
- Independently adjustable open / close rate
- Easily configurable for normally open



Completely unique servo-assisted solenoid valve with isolated pivoted armature pilot. This valve design is much less sensitive to fluid contamination than plunger operated valves and therefore offers many advantages in the process environment. The pilot section can be rotated in the field to make the valve normally open.

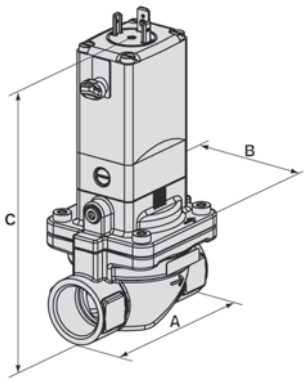
Technical Data

Pressure range	0.2-10 bar max.
Temperature media	0 °C – +90 °C
Ambient temperature	+55 °C, max.
Body material	Brass or Stainless steel
Seal material	NBR with brass, FKM with Stainless
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 24 VA (inrush), 14 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2508 cable plug Form A (not included)

Options

- Normally open
- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Cable plug with LED and varistor
- Class 1, Div 2 FM & CSA
- Ex-version

Envelope Dimensions [mm] (see datasheet for details)





2508 cable plug Form A not included (see page 32)

Drawing shows brass version

DN	Size	A	B	C
13	G 1/2”	65	40	123
20	G 3/4”	100	60	131
25	G 1”	115	70	141
32	G 1 1/4”	126	85	147
40	G 1 1/2”	126	85	156
50	2”	164	115	177.5

Ordering Chart - normally closed (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Seal material	Item no. voltage/frequency [V/Hz] 24V DC	024/50-60	230/50-60
Brass							
G 1/2	13	4	0.2-10	NBR	134 430	134 431	134 433
G 3/4	20	5	0.2-10	NBR	134 434	134 435	134 437
G 1	25	10	0.2-10	NBR	134 438	134 439	134 441
G 1 1/4	32	20	0.2-10	NBR	134 442	134 443	134 445
G 1 1/2	40	20	0.2-10	NBR	134 446	134 447	134 449
G 2	50	40	0.2-10	NBR	134 450	134 451	134 453
Stainless steel							
G 1/2	20	4	0.2-10	FKM	134 514	134 515	134 517
G 3/4	20	5	0.2-10	FKM	134 518	134 519	134 521
G 1	25	10	0.2-10	FKM	134 522	134 523	134 525
G 1 1/4	32	20	0.2-10	FKM	134 526	134 527	134 529
G 1 1/2	40	20	0.2-10	FKM	134 530	134 531	134 533
G 2	50	40	0.2-10	FKM	134 534	134 535	134 537

Isolated Pilot Solenoid Valve for Aggressive Chemicals



Ø 20 - Ø 63, true union, 0.5-6 bar max.

- Unique isolated technology for slightly contaminated fluids
- Designed for use with aggressive chemicals
- Rugged moulded diaphragm

Servo-assisted brass plunger piloted solenoid valve with un-coupled rugged diaphragm. This valve is specifically designed for aggressive fluids where a chemically compatible solution is required.

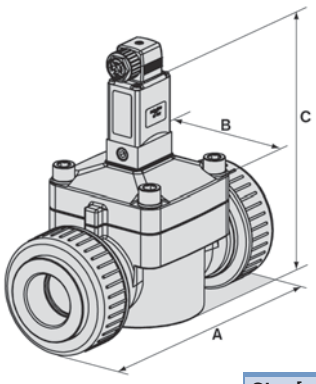
Technical Data

Pressure range	0.5-6 bar max.
Temperature media	50 °C
max. Ambient temperature	+40 °C (PVC), (+55 °C, (PVDF) on request)
Body material	PVC (PVDF on request)
Seal material	EPDM or FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 5 W, AC: 20 VA (inrush), 11 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2508 cable plug Form A (included)

Options

- Normally open
- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Cable plug with LED and varistor (p. 32)
- CSA certification

Envelope Dimensions [mm] (see datasheet for details)





2508 cable plug Form A included (see page 32)

Size [mm]	A	B	C
15	148	62.5	148
20	154	62.5	148
25	190	85	174.5
40	254	115	212
50	268	115	212

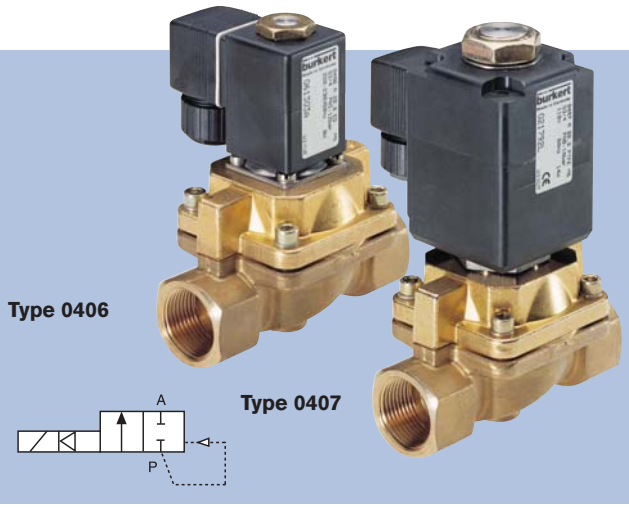
Ordering Chart - normally closed (other versions on request)

Port connection Ø [mm]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Seal material	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
PVC Body							
20	15	5	0.5-6	EPDM	041 980	050 898	041 911
20	15	5	0.5-6	FKM	041 938	050 953	041 934
25	20	6	0.5-6	EPDM	042 045	050 908	041 986
25	20	6	0.5-6	FKM	042 008	050 954	042 005
32	25	14	0.5-6	EPDM	042 047	050 916	042 126
32	25	14	0.5-6	FKM	042 079	050 974	042 113
50	40	30	0.5-6	EPDM	042 195	067 693	042 247
50	40	30	0.5-6	FKM	042 198	067 699	042 245
63	50	36	0.5-6	EPDM	042 266	067 705	042 261
63	50	36	0.5-6	FKM	042 264	054 887	042 262

Servo-Assisted Piston Solenoid Valves for up to 180 °C Steam

G 1/2" - G 2", 0-12 bar max.

- Type 0406 pilot controlled, 1-12 bar max.
- Type 0407 forced coupled, 0-10 bar max.
- Fluid temperature to 180 °C
- Wear resistant stainless steel seat
- Most reliable valves for hot neutral fluids



Servo-assisted solenoid valves for steam and hot gaseous media. A plunger pilots a piston to make a tight seal on a wear resistant stainless insert seat. Hard coupled design for low pressure switching (0407), uncoupled design where differential pressure is available (0406).

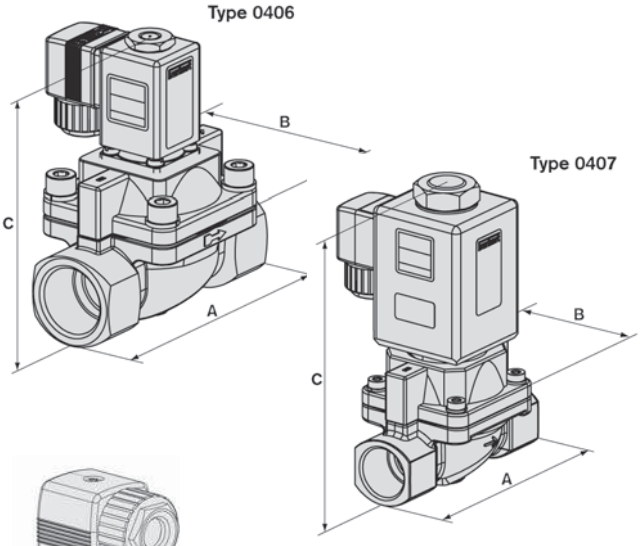
Technical Data

Pressure range	0-12 bar max. (Type 0406) 0-10 bar max. (Type 0407)
Temperature media	0 °C – +180 °C
Ambient temperature	+55 °C, max.
Body material	Brass with anti-wear stainless valve seat
Seal material	PTFE piston seal
Coil material	Epoxy (Class H)
Power consumption	Type 0406: AC: 21 VA (inrush), 12 VA (hold) Type 0407: AC: 100 VA (inrush), 35 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2508 Cable plug Form A (included)

Options

- Cable plug with LED and varistor
- UL Listed version with 2509 cable plug

Envelope Dimensions [mm] (see datasheet for details)



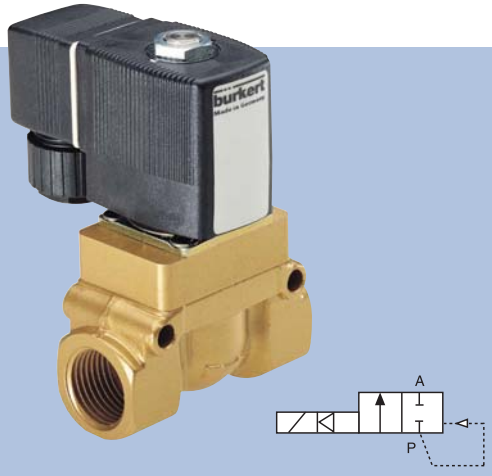
2508 cable plug
Form A included
(see page 32)

Size	A	B	C - 0407	C - 0406
G 1/2"	65	40	127	113
G 3/4"	100	60	147	115
G 1"	115	70	157	125
G 1 1/4"	126	85	186	–
G 1 1/2"	126	85	195	–
G 2"	164	115	260	–

Ordering Chart - normally closed (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value [m³/h]	Pressure range [bar] DC	Pressure range [bar] AC	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Type 0406							
G 1/2	13	3.7	1-4	1-12	019 310	020 541	061 305
G 3/4	20	5	1-4	1-12	021 004	019 818	061 303
G 1	25	10	1-4	1-12	019 983	021 440	061 304
Type 0407							
G 1/2	13	3.7	0-10	0-10	125 542	021 598	615 637
G 3/4	20	5	0-10	0-10	150 311	022 032	615 157
G 1	25	10	0-10	0-10	174 745	021 620	615 638
G 1 1/4	32	16	0-10	0-10	–	085 385	064 919
G 1 1/2	40	16	0-10	0-10	226 757	085 392	085 394
G 2	50	36	0-10	0-10	085 400	-	on request

Servo-Assisted Piston Solenoid Valve for High Pressure



G 1/2" - G 1", 1-50 bar max.

- Unaffected by pressure surges
- Piston design for high reliability
- Perfect for compressed gases

Servo-assisted solenoid valve with a plunger piloted piston seal. Employ where reliable, stable control of neutral gases at pressure is required.

Technical Data

Pressure range	1-50 bar max.
Temperature media	-10 °C – +90 °C
Ambient temperature	+55 °C, max.
Body material	Brass
Seal material	PTFE
Coil material	Polyamide
Power consumption	DC: 8 W, AC: 24 VA (inrush), 14 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2508 cable plug Form A (not included)

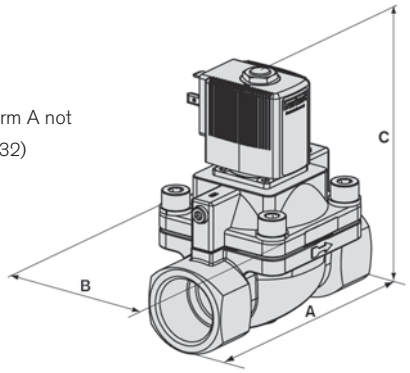
Options

- Normally open
- Cable plug with LED and varistor
- Epoxy High Temperature Coils

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A not included (see page 32)



Size	A	B	C
G 1/2"	65	32	96.5
G 3/4"	100	60	109
G 1"	115	70	119

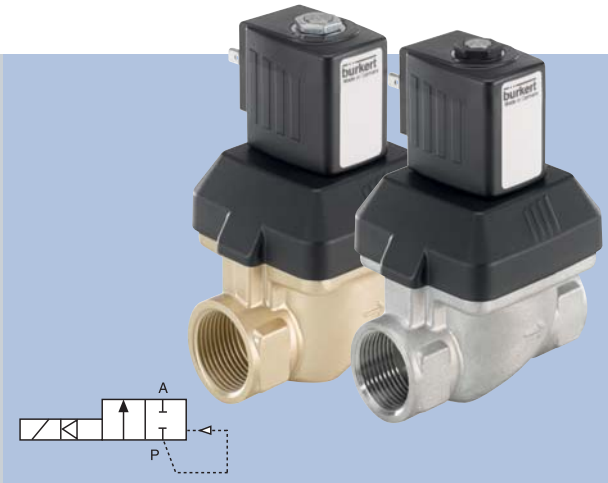
Ordering Chart - normally closed (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar] for liquids	Pressure range [bar] for gases	Item no. voltage/frequency [V/Hz] 24 V DC	024/50	230/50
G 1/2	12	2	1-50	1-50	134 590	134 591	134 593
G 3/4	20	5	1-25	1-32	134 594	–	–
			1-25	1-40	–	134 595	134 597
G 1	25	10	1-25	1-32	134 598	–	–
			1-25	1-40	–	134 599	134 601

Assisted Soft-Coupled Solenoid Valve for Liquids

G 1/4” - G 2”, 0-10 bar max.

- Universally applicable without differential pressure
- Short mounting length
- High flow rate
- Waterhammer free and low noise



Soft-coupled, normally closed solenoid valve with a plunger piloted rolling diaphragm seal for neutral liquids to 90 °C. Its high flow waterhammer-free design allows switching from 0 bar. For complete opening, a differential pressure of at least 0.1 bar is required.

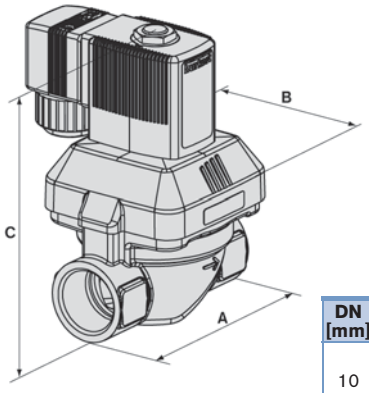
Technical Data

Pressure range	0-10 bar max.
Medium temperature	
NBR	-10 to +80 °C
FKM	0 to +90 °C (polyamide coil) optional 0 to 120 °C (epoxy coil)
Ambient temperature	+55 °C, max.
Body material	Brass or Stainless steel
Seal material	NBR with brass, FKM with Stainless
Coil material	Polyamide or Epoxy (Class H)
Protection class	IP65 with cable plug
Electrical connection	2508 cable plug Form A not included (see page 32)
Accreditations	CE

Options

- Further body and seal materials on request
- Non-standard voltages available
- Drinking water accessory acc. to KTW/W270
- Brass dezincification resistant

Envelope Dimensions [mm] (see datasheet for details)





2508 cable plug
Form A not included
(see page 32)

DN [mm]	Size	A	B	C
10	1/4”	45.6	36	78.4
	3/8”			78.4
	1/2”			82.9
13	1/2”	56	44.5	92.4
	3/4”			96.9
20	3/4”	76	65	109.4
	1”			116.4
25	1”	88	77	156.8
	1 1/4”			166.3
40	1 1/2”	177	104.5	182.3
	2”			193.3

Ordering Chart - normally closed (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value [m³/h]	Pressure range [bar]	Power consumption Inrush AC [VA]	Hold AC [VA/W]	Hold DC [W] warm (cold)	Item no. voltage/frequency [V/Hz] 024/DC	024/50	230/50
Brass-body, NBR Diaphragm, polyamide coil, medium temperature -10...+80 °C									
G 1/4	10	1.9	0 - 10	34	14/8	10 (11)	221 674	221 675	221 677
G 3/8	10	1.9	0 - 10	34	14/8	10 (11)	221 598	221 599	221 601
G 1/2	10	1.9	0 - 10	34	14/8	10 (11)	221 606	221 607	221 609
G 1/2	13	3.6	0 - 10	36	14/8	10 (11)	221 602	221 603	221 605
G 3/4	13	3.6	0 - 10	36	14/8	10 (11)	221 618	221 619	221 621
G 3/4	20	8.3	0 - 10	38	14/8	10 (11)	221 630	221 631	221 633
G 1	20	8.3	0 - 10	38	14/8	10 (11)	221 634	221 635	221 637
Brass-body, NBR Diaphragm, epoxy coil, medium temperature -10...+80 °C									
G 1	25	11	0 - 10	150	37/16	28 (29)	227 533	221 725	221 728
G 1 1/4	25	11	0 - 10	150	37/16	28 (29)	227 534	221 729	221 732
G 1 1/2	40	30	0 - 10	190	37/16	28 (29)	227 539	221 750	221 753
G 2	40	30	0 - 10	190	37/16	28 (29)	227 541	221 754	221 757
Stainless steel body, FKM Diaphragm, epoxy coil, medium temperature 0...120 °C									
G 3/8	10	1.9	0 - 10	34	14/8	10 (11)	221 758	221 759	221 761
G 1/2	13	3.6	0 - 10	36	14/8	10 (11)	221 762	221 763	221 765
G 3/4	20	8.3	0 - 10	38	14/8	10 (11)	222 122	222 123	222 125
G 1	25	11	0 - 10	150	37/16	28 (29)	227 550	228 430	222 143
G 1 1/4	25	11	0 - 10	150	37/16	28 (29)	227 551	228 433	222 145
G 1 1/2	40	30	0 - 10	190	37/16	28 (29)	227 557	228 436	222 147
G 2	40	30	0 - 10	190	37/16	28 (29)	227 558	228 439	222 149

Mass Flow Controller

Whatever the application, it is all down to precise regulation, constant control and accurate metering of the gaseous media to ensure consistent and reproducible results. Our efficient and intelligent devices make gas handling simple.



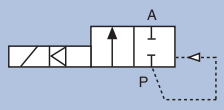
Servo-Assisted Hard-Coupled Solenoid Valve

0290

G 1/2” - G 2”, 0-16 bar max.

- Switches without differential pressure
- Operates on vacuum
- Process proven rugged and reliable design





One of the ever reliable workhorses of the Bürkert solenoid range this hard-coupled solenoid valve with plunger piloted rugged diaphragm seal is perfect for vacuum, neutral gases and liquids. Its durable heavy duty construction is available in brass and stainless steel with a range of diaphragm and seal materials.

Technical Data

Pressure range	0-16 bar max.
Temperature media	-10 °C – +90 °C
Ambient temperature	+55 °C, max.
Body material	Brass or Stainless steel
Seal material	NBR or FKM
Coil material	Epoxy (Class H)
Protection class	IP65 (with cable plug)
Electrical connection	2508 cable plug Form A (included)

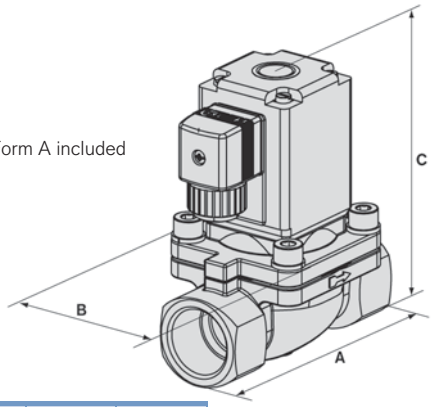
Options

- EPDM seals
- Cable plug with LED and varistor
- Oxygen version
- UR/CSA approval
- KTW approval

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A included (see page 32)

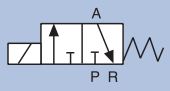


Size	A	B	C
G 1/2”	74.5	40	95.5
G 3/4”	100	60	122
G 1”	115	70	131
G 1 1/4”	126	85	145
G 1 1/2”	126	85	154
G 2”	164	115	211

Ordering Chart - normally closed (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Seal material	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Brass							
G 1/2	12	2.8	0-16	NBR	050 294	050 294	044 373
G 3/4	20	5		NBR	049 518	049 518	045 292
G 1	25	10		NBR	053 675	053 675	045 293
G 1 1/4	32	16	0-12	NBR	085 291	085 291	052 513
G 1 1/2	40	16		NBR	085 295	085 295	085 297
G 2	50	38		NBR	085 299	–	085 301
Stainless steel							
G 1/2	12	2.8	0-16	FKM	049 987	049 987	042 888
G 3/4	20	5		FKM	066 381	066 381	064 701
G 1	25	10		FKM	065 542	065 542	066 125





G 1/8", 0-10 bar max.

- Reliable double seated, plunger operation
- High quality FKM seal as standard
- Slip over coil can be rotated in 4 x 90 degrees

Direct-acting 3/2 way, normally closed or normally open solenoid valve. Standalone threaded or manifoldable for neutral gases and liquids it is also suitable for technical vacuum.

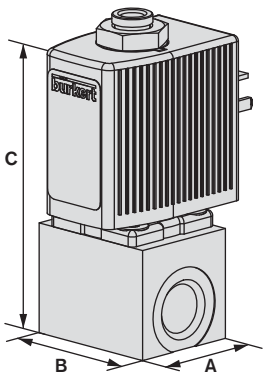
Technical Data

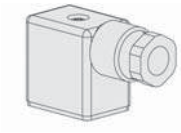
Pressure range	0-10 bar max.
Temperature media	-10 °C – +100 °C
Ambient temperature	+55 °C, max.
Body material	Brass
Seal material	FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 4 W, AC: 9 VA (inrush), 6 VA (hold)
Protection class	IP65 (with cable plug)
Electrical connection	2507 cable plug Form B (not included)

Options

- Cable plug (p. 32)
- Stainless steel body
- P-connection, normally open
- 3/2-way user defined flow direction
- Flange version for block montage incl. manifold

Envelope Dimensions [mm] (see datasheet for details)





2507 cable plug
Form B not included
(see page 32)

- Upper port is M5 fitting

Size	A	B	C
G 1/8"	20	25	57.1

Ordering Chart - normally closed (other versions on request)

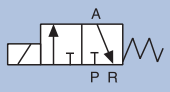
Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Without manual override						
G 1/8	1.2	0.045	0-10	161 904	163 577	163 579
G 1/8	1.6	0.06	0-6	163 580	163 581	163 583
With manual override						
G 1/8	1.2	0.045	0-10	163 584	163 585	163 587
G 1/8	1.6	0.06	0-6	163 588	163 589	163 591

Compact Plunger Operated 3/2 Valve

G 1/8" & G 1/4", 0-10 bar max.

- Reliable double seated, plunger operation
- High quality FKM seal as standard
- Slip over coil can be rotated in 4 x 90 degrees





Direct-acting 3/2 way, normally closed or normally open solenoid valve. Standalone threaded or manifoldable for neutral gases and liquids it is also suitable for technical vacuum.

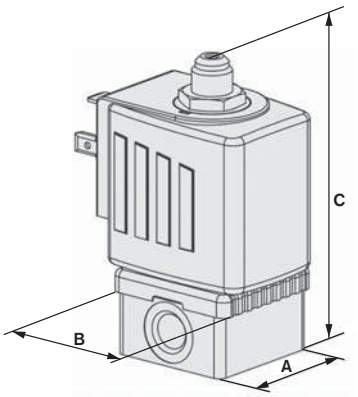
Technical Data

Pressure range	0-10 bar max.
Temperature media	-10 °C – +100 °C
Ambient temperature	-10 to +55 °C, max.
Body material	Brass, (stainless steel optional)
Seal material	FKM
Coil material	Polyamide (Class B)
Power consumption	DC: 8 W, AC: 24 VA (inrush), 17 VA (hold)
Protection class	IP65, NEMA 4 (with cable plug)
Electrical connection	2508 cable plug Form A (not included)

Options

- Cable plug with LED and varistor
- Oxygen version
- Vacuum version
- Analysis version
- Hazardous area approvals
- Further circuit functions
- SIL - certificated

Envelope Dimensions [mm] (see datasheet for details)





2508 plug not included
(see page 32)

Size	A	B	C
G 1/8	32	35	73.3
G 1/4	46	35	78.3

Ordering Chart - normally closed (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Brass, without manual override						
G 1/8	2	0.11	0-10	125 333	125 334	125 336
G 1/8	2.5	0.16	0-6	125 341	125 340	125 342
Brass, with manual override						
G 1/4	2	0.11	0-10	125 349	126 147	126 149

Intelligent | Integrated | Beautiful

ELEMENT is a complete system approach to allow you to solve process problems. It encompasses the total loop: valves, sensors and controllers in one beautifully simple architecture which can be relied on to monitor and control inert fluids, steam, corrosive solvents, chemicals or abrasive fluids in a wide variety of application environments. ELEMENT meets all the requirements of the food and beverage industry, as well as the pharmaceuticals and cosmetics industry, in regard of safe process applications and easy-to-clean equipment.



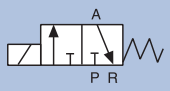
Pivot Operated 3/2 Way Solenoid Valve

0330

G 1/4”, 0-16 bar max.

- Isolating separating diaphragm design
- Long service life
- Handles slightly contaminated fluids with ease
- Manual override as standard





Direct-acting 3/2 way normally closed and normally open solenoid valves with pivoted armature and isolating diaphragm. This flexible valve series includes many options, various body materials, diaphragm and sealing materials and a range of electrical connections to suit many applications.

Technical Data

Pressure range	0-16 bar max.
Temperature media	0 °C – +80 °C
Ambient temperature	+55 °C, max.
Body material	Brass (Stainless steel available)
Seal material	NBR
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65, NEMA 4 (with cable plug)
Electrical connection	2508 cable plug Form A (included)

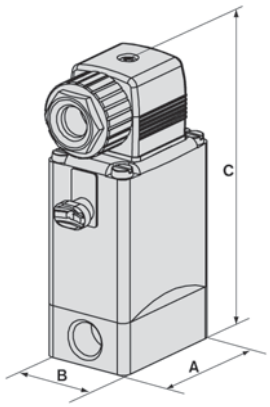
Options

- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Vacuum version
- Cable plug with LED and varistor
- Manifold mounting (Type 0331)
- Universal function (T - Class 1, Div 2 FM & CSA)
- ATEX, Type 0780
- Flange version, Type 0331

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug
Form A included
(see page 32)



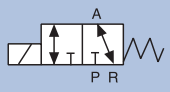
Size	A	B	C
G 1/4	46	34	100

Ordering Chart (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value [m³/h]	Pressure range [bar]	Item no. voltage/frequency [V/Hz]		
				24V DC	24V AC	230V AC
Normally closed 3 way configuration						
G 1/4	2.0	0.11	0-16	041 103	042 129	041 105
G 1/4	3.0	0.23	0-10	041 107	041 108	041 116
Normally open 3 way configuration						
G 1/4	2.0	0.11	0-16	056 984	041 858	041 137
G 1/4	3.0	0.28	0-10	041 139	041 141	041 147

Pivot Operated 3/2 Way Universal Solenoid Valve





G 1/4", 0-12 bar max.

- Universal flow function
- Isolating separating diaphragm design
- Handles slightly contaminated fluids with ease
- Manual override as standard

Direct-acting 3/2 way universal function (E) solenoid valves with pivoted armature and isolating diaphragm. This flexible valve series includes many options, various body materials, diaphragm and sealing materials and a range of electrical connections to suit many applications.

Technical Data

Pressure range	0-12 bar max.
Temperature media	0 °C – +90 °C
Ambient temperature	+55 °C, max.
Body material	Brass or Stainless steel
Seal material	FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65, NEMA 4 (with cble plug)
Electrical connection	2508 cable plug Form A (included)

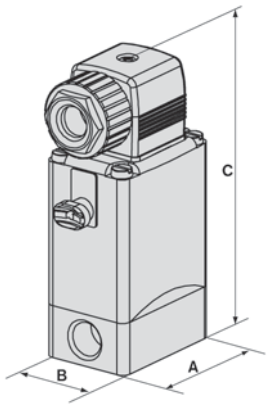
Options

- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Vacuum ring version
- Cable plug with LED and varistor
- Manifold mounting (Type 0331) - Class 1, Div 2 FM & CSA
- ATEX, Type 0780
- Flange version, Type 0331

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A included
(see page 32)



Size	A	B	C
G 1/4	46	34	100

Ordering Chart - universal version (other versions on request)

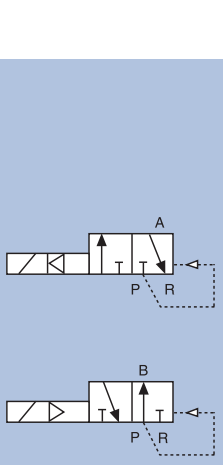
Port connection [inch]	Orifice [mm]	Kv value [m³/h]	Pressure range [bar]	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Brass valve body, universal function						
G 1/4	2.0	0.11	0-12	124 922	138 316	124 925
G 1/4	3.0	0.16	0-8	124 927	124 928	124 930
Stainless steel body, universal function						
G 1/4	2.0	0.11	0-12	124 932	124 933	124 935
G 1/4	3.0	0.16	0-8	124 937	124 938	124 940

Servo-Assisted 3/2 Way Solenoid Valve with Isolated Pilot

0340

G 1/4" - G 1 1/2", 0.5-16 bar max.

- Servo-Piston for large flow rates
- Pivoted armature isolated pilot
- Manual override as standard
- Fast ventilation function due to larger air channels





Servo-assisted 3/2 way normally closed and normally open solenoid valve with a pivoted armature and isolating diaphragm. This series encompasses a range of diaphragms, sealing materials and electrical connections. Perfect for pneumatic actuation of very large process valves.

Technical Data

Pressure range	0.5-16 bar max.
Temperature media	0 °C – +90 °C
Ambient temperature	+55 °C, max.
Body material	Brass
Seal material	NBR
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65, NEMA 4 (with cable plug)
Electrical connection	2508 cable plug Form A (included)

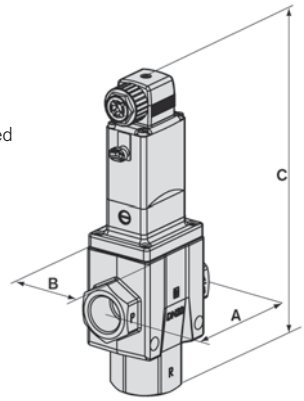
Options

- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit difficult media
- Cable plug with LED and varistor

Envelope Dimensions [mm] (see datasheet for details)



2508 cable plug Form A included
(see page 32)



Size	A	B	C
G 1/4"	65	33	154.5
G 1/2"	76	33	179.5
G 3/4"	90	52	215.5
G 1"	110	60	237.5
G 1 1/2"	153	88	274

Ordering Chart (other versions on request)

Port connection [inch]	Orifice [mm]	Kv value water [m³/h]	Pressure range [bar]	Item no. voltage/frequency [V/Hz] 24V DC	24V AC	230V AC
Normally closed						
G 1/4	8	0.95	0.5-16	041 317	041 318	041 329
G 1/2	12	2.6	0.5-16	041 333	041 334	041 346
G 3/4	20	6.6	0.5-16	041 354	041 665	041 361
G 1	25	10	0.5-10	041 537	041 362	041 364
G 1 1/2	40	24	0.5-10	042 319	041 365	041 366
Normally open						
G 1/4	8	0.95	0.5-16	041 367	041 368	041 371
G 1/2	12	2.6	0.5-16	041 374	041 375	041 380

Perfect control was never so simple

Our newest generation of Solenoid Control Valves and control electronics can really make your life simpler. Ground-breaking innovation has created a remarkable range of high performance, reliable and accurate valves with orifices down to 0.05mm. Previously unattainable turn down ratios and unlimited modularity give you complete process flexibility. Bürkert's R&D teams have redefined the dynamics of proportional solenoid valves to minimises friction and stick-slip effects to provide unmatchable span, repeatability and sensitivity.



Cable plugs

0 to 250 V AC, DIN 43650

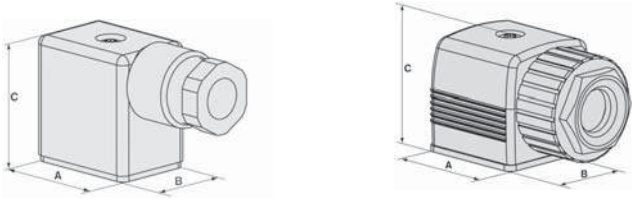
- Compact and simple to wire
- IP65 / NEMA 4X
- Also available with LED indicator
- Global Approvals



2507 - Plug on connector for small valves and sensors. Options include LED, rectifier, suppression diode, and varistor. Modular flexible design allows flexibility in restricted space; watertight connection.

2508 - Plug on connector for process area valves and sensors. Options include LED, rectifier, varistor and AS-i versions (2510/2511). The flexible design allows 90° installation flexibility.

Envelope Dimensions [mm] (see datasheet for details)



Type	A	B	C
2507	51	20.8	32
2508	46	28	27.5

Technical Data

Type	2507	2508
Body material	Polyamide	Polyamide
Contacts	Brass galvanised silver plated	Brass galvanised silver plated
Rotation	2 x 180 degrees	4 x 90 degrees
Cable diameter	4.5 - 7 mm	6 - 7 mm
Continuous temperature limit	+90 °C	+90 °C
Rating	6 A	6 A
Nominal voltage	0-250V	0-250V
Feedback of function	Optional Red LED	Optional Red LED
Protection	NEMA 4, IP65	NEMA 4, IP65

Ordering Chart

Circuitry	Voltage	Item no. 2507	Item no. 2508
Standard	0-250V AC/DC	423 845	008 376
With LED	24 V DC	423 849	008 360
	110 V AC	-	008 361
	230 V AC	-	008 362
With LED and varistor	24 V DC	423 851	008 367
	110 V AC	-	008 368
	230 V AC	-	008 369



Type 1078-2
and 1077-2



Type 1078-1

Time interval from 0.5sec to 10hr

- Programmable alone or using separate operating unit
- Various switching functions
- Safety function with Type 1078-2

The 1078-1 is simply programmed by DIP switches and potentiometers and incorporates four different switching functions. It mounts directly onto Bürkert solenoid valves using the same three prong connection. This unit is perfect for simple tasks like compressor blowdown where reliability is required.

The 1078-2, which has eight different switching functions, is operated by a two button programmer (1077-2) with a small digital display. As changes are only possible via the programmer the unit is safely locked when it is removed. Multiple timers can simply be programmed as the last settings always remain in the 1077-2.

Technical Data

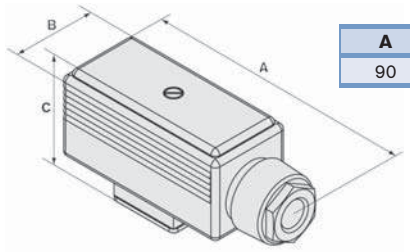
Time range	0.5 s...10 s up to 0.5 h...10 h
Display	LED-connected power supply, LED-energised load
Adjustment 1078-1	DIP-switches, precision adjustment of response times via potentiometers
Adjustment 1078-2	Two buttons via 1077-2 programmer (not included)
Switching functions	4 (1078-1), 8 (1078-2)
Body material	Polyamide
Operating voltages	See ordering chart
Power consumption	Max. 1.5W
Ingress protection	IP65 (NEMA4)
Plug Size	Form A, DIN 43 650
Switching load (Imax)	2 A at supply voltage 12 DC. 1.5 A at supply voltage 24-48 V/50-60 Hz and DC 0.5 A at supply voltage 120-240 V/50-60 Hz and DC
Cable outlet	4 x 90° positioning
Working temperature range	-10 °C – +60 °C
Influence of temperature	±5 % of full scale time range
Influence of voltage	±1 % of full scale time range

1077-2 Display	4.5 digit 7 segment LCD
1077-2 Adjustment	Two buttons
1077-2 Body material	Polyamide
1077-2 Ingress protection	IP65 (with valve)

Options

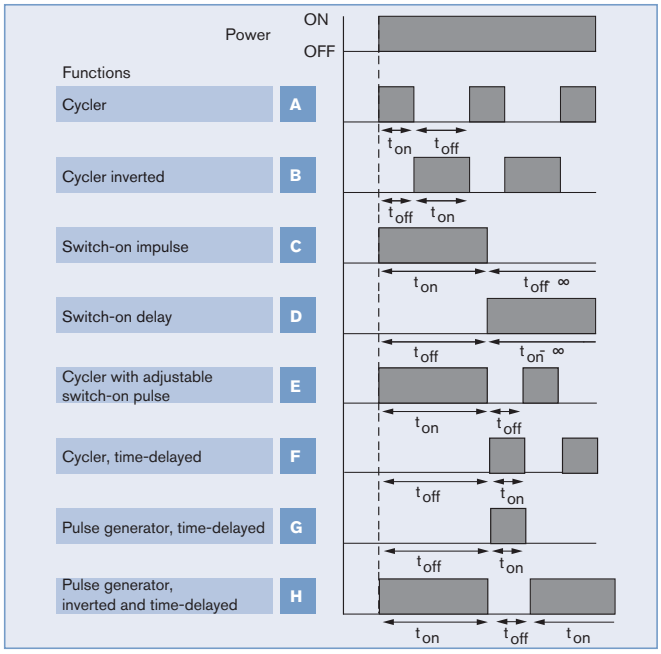
- Unit for max. time 100 h (option NA15)

Envelope Dimensions [mm] (see datasheet for details)



A	B	C
90	32	53.5

Functions 1078-2



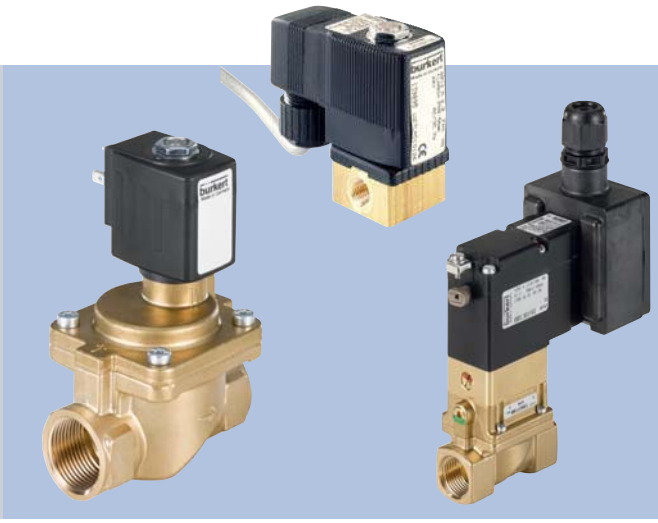
Ordering Chart (other versions on request)

Type	Item no. voltage/frequency [V/Hz]	
	24V DC & AC	110-230V AC
1078-1	060 621	060 620
1078-2	060 629	060 630
1077-2 programmer	060 638	

ATEX Solenoid Valves for Hazardous Locations

G 1/8" to G 2"

- Valves designed exclusively for demanding Class 1 environments
- Fully Encapsulated Coils



Bürkert's worldwide certifications allow our engineers to employ global HazEx™ standards on every project. With certifications for FM, CSA and EEx (ATEX) we can build a valve for your toughest application. Modularity allows us to stock what you need, where you need it.

Add in a perfect range of intrinsically safe valve technology and you have all the control strategies for hazardous locations. This page shows only a small example of the complete range.

Technical Data

	6013	6281 EV	5282
Pressure range	0-10 bar max.	0.2-16 bar max.	0.5-10 bar max.
Size range	1/8" and 1/4"	1/2" to 2"	1/2" to 2"
Temperature media	-10 °C – +90 °C	-10 °C – +90 °C (+80 °C}	0 °C – +90 °C
Surface temperature	T4 = 135 °C max. Surface temperature	T4 = 135 °C max. Surface temperature	T4 = 135 °C max. Surface temperature
Body material	Brass or Stainless steel	Brass or Stainless steel	Brass or Stainless steel
Seal material	FKM	NBR and FKM	FKM and NBR
Power consumption	DC: 9 W	DC: 9 W	DC: 40 W (inrush) 3W (hold)
Protection class	IP65, NEMA4	IP65	IP65
Electrical connection	Cable 3m	Cable 3m	Cable 3m or junction box
Accreditations	II 1/2 G Ex m II T4,T5,T6 II 1/2 G Ex em II T3 II 2 G/D Ex m II T4,T5,T6 II 2 G/D Ex em II T4,T5,T6	II 2G EEx m II T4 PTB 00 ATEX 2129X II 2D IP 65 T 135 °C	II 2G EEx ed IICT5 PTB03 ATEX 1030X
Override	Optional	Optional	Manual override as standard

Ordering Charts (other versions on request)

6013 ATEX

Port [inch]	Orifice [mm]	Kv Value [m³/h]	Pressure range [bar]	Item no. 24V AC&DC	Item no. 230V AC&DC
Brass					
G 1/8	2.0	0.12	0-10	136 039	136 041
	3.0	0.23	0-5	136 045	136 047
G 1/4	2.0	0.12	0-10	139 892	139 894
	3.0	0.23	0-5	136 048	136 050
Stainless steel					
G 1/8	2.0	0.12	0-10	136 027	136 029
	3.0	0.23	0-5	136 030	136 032
G 1/4	2.0	0.12	0-10	139 887	139 889
	3.0	0.23	0-5	136 033	136 035

5282 ATEX, Pressure range: 0.5-10 bar

Port [inch]	Orifice [mm]	Kv Value [m³/h]	Seal material	Item no. 24V AC&DC	Item no. 230V AC&DC
Brass					
G 1/2	13	4	NBR	138 171	138 173
G 3/4	20	5	NBR	138 174	138 176
G 1	25	10	NBR	138 177	138 179
G 1 1/2	40	20	NBR	138 183	138 185
G 2	50	40	NBR	138 186	138 188
Stainless steel					
G 1/2	20	5	FKM	138 228	138 230
G 3/4	20	5	FKM	138 231	138 233
G 1	25	10	FKM	138 234	138 236
G 1 1/2	40	20	FKM	138 240	138 242
G 2	50	40	FKM	138 243	138 245

6281 EV ATEX, 0.2-16 bar

Port [inch]	Orifice [mm]	Kv value [m³/h]	Item no. 024/UC	Item no. 230/UC
Seal material NBR, Brass body				
G 1/2	13	3.8	228 405	228 406
G 3/4	20	8.5	228 407	228 408
G 1	25	12	228 409	228 410
G 1 1/4	25	12	228 411	228 412
G 1 1/2	40	30	228 413	228 414
G 2	40	30	228 415	228 416
Seal material FKM, Stainless steel body				
G 1/2	13	3.8	228 417	228 418
G 3/4	20	8.5	228 419	228 420
G 1	25	12	228 421	228 422
G 1 1/4	25	12	228 423	228 424
G 1 1/2	40	30	228 425	228 426
G 2	40	30	228 427	228 428

Options

- **6013** - Normally open; Three way (6014)
- **6281 EV** - Normally open; Brass body
- **5282** - Normally open; Three way (0340)

The pilot valves required for controlling actuators may be fitted at various locations (Non Ex or hazardous locations) and in different ways (centralised or decentralised automation). Our range extends from directly mounted pilot valves on the actuator to centralised valve islands with Fieldbus interface in control cabinets (AirLINE and AirLINE Ex).

When using a centralised valve island, corresponding pneumatic tubing must be installed from the control cabinet to the final control element. Alternatively, Bürkert offers with the ELEMENT positioners and controllers a wide range of equipment to actuate, monitor, network, position and decentralise process control into the field.

Decentralised Process Actuation & Control



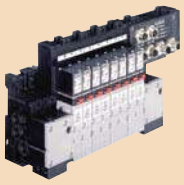
8691
page 57

Cabinets and Control Solutions



Control cabinets

Valve Islands and Fieldbus



8640 Profibus

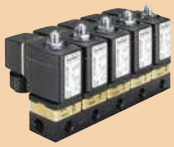


8644 AirLINE
Rockwell, Siemens, Phoenix, Wago



8650 AirLINE Ex

Valve Blocks and Manifolds



6014



8640 with 5470 valves



8640
with 6518/6519 valves

Single Pilot Valves



6012 P
page 36



6014 P
page 36

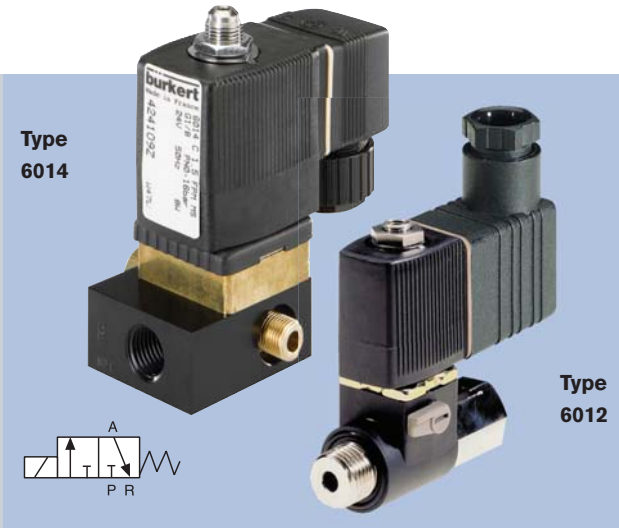


6519
page 37

Direct Mounting Pilot for Bürkert Process Valves

G 1/8" or G 1/4", 0-10 bar max.

- Simple to connect to valve and air supply
- Low power
- Tough and reliable
- Manual override as standard



Direct-acting 3/2 way normally closed solenoid valve is plunger operated and designed to fit simply and securely to Bürkert process valves. It is engineered for process compressed air.

Technical Data

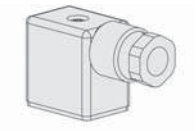
	6012 P	6014 P
Pressure range	0-10 bar max.	0-10 bar max.
Temperature media	-10 °C – +100 °C	-10 °C – +100 °C
Ambient temperature	+55 °C, max.	+55 °C, max.
Body material	Polyamide	Brass and aluminium
Banjo bolt material	Brass, nickel plated	Brass, nickel plated
Seal material	Banjo screw: NBR Valve: FKM	FKM
Coil material	Epoxy (Class H)	Polyamide
Power consumption	DC: 4 W, AC: 9 VA (inrush), 6 VA (hold)	DC: 2 W, AC: 11 VA (inrush), 6 VA (hold) or DC: 8 W, AC: 24 VA (inrush), 17 VA (hold)
Protection class	IP65 (with cable plug)	IP65, NEMA 4 (with cable plug)
Electrical connection	2507 cable plug Form B	2508 cable plug Form A

Options

6012 P
- Normally open
- Cable plug with LED and varistor
- Other voltages on request

6014 P
- Normally open
- Cable plug with LED and varistor
- Hazardous area approvals

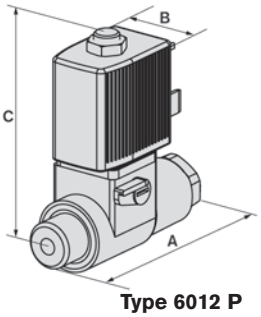
Envelope Dimensions [mm] (see datasheet for details)



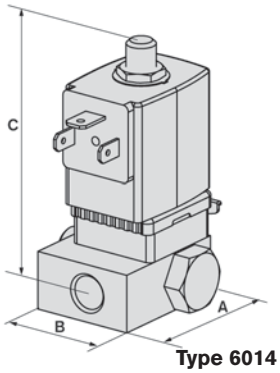
2507 cable plug
Form B included
(see page 32)



2508 cable plug
Form A included
(see page 32)



Type 6012 P



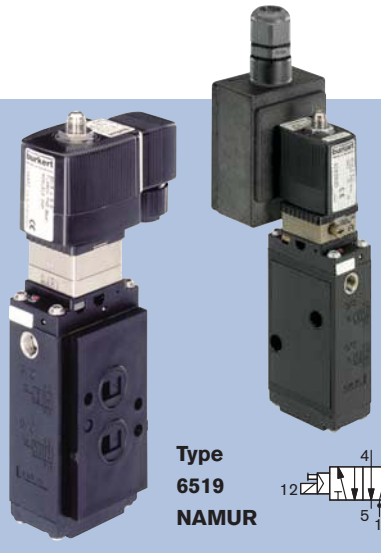
Type 6014 P

Type	A	B	C
6012 P	60	20	70
6014 P	55	40	90

Ordering Chart

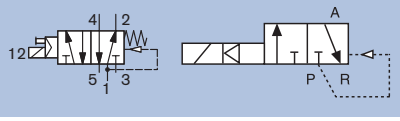
	Port (P)	Port (A) [inch]	Orifice [mm]	Q_{Nn} [l/min]	Pressure range [bar]	Item no. 24V DC	24V AC	230V AC
6012 P	6mm tube	G 1/8	1.2	48	0-10	552 287	552 288	552 290
	6mm tube	G 1/4	1.2	48	0-10	552 283	552 284	552 286
	G 1/8"	G 1/8	1.2	48	0-10	552 299	552 300	552 302
	G 1/4"	G 1/8	1.2	48	0-10	552 295	552 296	552 298
	G 1/4"	G 1/4	1.2	48	0-10	552 291	552 292	552 294
6014 P	G 1/4"	G 1/4	2.0	120	0-10	424 103	424 104	424 107

Direct Mounting NAMUR Pneumatic Pilot Valve



Type 6519 HazEx™

Type
6519
NAMUR



5/2-3/2-Way, G 1/4-NAMUR, 2-8 bar

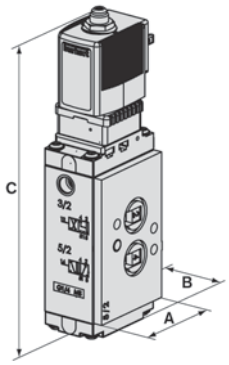
- 5/2 and 3/2-way functions in one delivery
- Extreme switching reliability
- Premium corrosion resistant construction

The 6519 incorporates a standard NAMUR flange to facilitate an extremely simple direct mounting onto process actuators. Bürkert's tried and true diaphragm seating design guarantees reliable switching of the valve, even after long shutdown periods. Manufactured from high quality engineered plastics this series can be operated as either a 5/2 or 3/2 way valve in chemically aggressive process conditions.

Technical Data

Pressure range	2-8 bar
Temperature media	-10 °C – +50 °C
Ambient temperature	+55 °C, max.
Manual override	Yes
Body material	Polyamide
Connections	G 1/4 (nickel plated brass) x NAMUR Nickel plated brass or Stainless steel
Orifice	6mm
Q_{Nn}	900 l/min
Seal material	PB (NBR and PUR)
Coil material	Polyamide
Power consumption	2 W (for AC and DC)
Protection class	NEMA 4 (IP65 with cable plug)
Electrical connection	See table below

Envelope Dimensions [mm] (see datasheet for details)



For plug details please see page 32 and table below. Class 1 Div I valves are supplied with flying leads and conduit connector.

Dimensions shown for Type 6519 NAMUR, for Type 6519 HazEx™ please see datasheet.

Size	A	B	C
1/8"	32	35	73.3
1/4"	46	35	79.3

Options

- Without manual override
- Intrinsically safe range (1 option shown in table as example)

Ordering Chart

Type	Material	Port (P)	Orifice	QNn [l/min]	Pressure range [bar]	Item no. 24V DC	24V AC	230V AC
Standard								
Cable plug	Br/Ni	G 1/4	6.0	900	2-8	131 421	131 422	131 424
	St.st.	G 1/4	6.0	900	2-8	131 425	131 426	131 428
ATEX EEXm								
3m cable	Br/Ni	G 1/4	6.0	900	2-8	131 627	131 627	131 629
	St.st.	G 1/4	6.0	900	2-8	131 631	131 631	131 633
Junction box	Br/Ni	G 1/4	6.0	900	2-8	427 978	427 978	139 066
	St.st.	G 1/4	6.0	900	2-8	139 067	139 067	139 069
ATEX EEXia								
Cable plug	Br/Ni	G 1/4	6.0	900	2-8	144 483	-	-
	St.st.	G 1/4	6.0	900	2-8	144 482	-	-

Network your ideas... quicker than ever

Bürkert connects a world of process solutions to work efficiently. Across international guidelines and standards and spanning dynamic conditions of global competition we are ready to work towards your success. A synergy of knowledge of both process engineering, precise project management and specific pneumatic and fieldbus technology means we are the specialist you can trust.



Making your life simpler, our ground-breaking innovation has created a remarkable range of attractive and hardworking valve elements which can be combined to give the user the best possible fit for purpose. With unlimited modularity, Bürkert saves you time by offering valves for media from slurries to steam and from de-ionised water to hydrochloric acid to offer peace of mind with the sure knowledge you have chosen experience and quality.



6012
page 36



8690
page 57



8696



8691
page 57



8693
page 55

Control and Communication



Manual
page 48 and 50



Rotary
page 56



Classic
page 40 and 45



ELEMENT
page 42, 52 and 54

Actuators



Angleseat
page 40 - 45



Globe
page 46 - 47



Diaphragm
page 50 and 52



Diaphragm
page 48 - 49



Ball
page 56

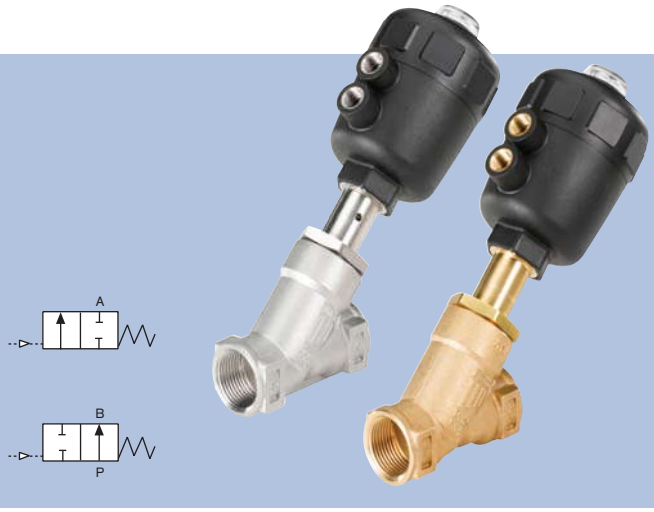
Valve Bodies

On-Off Pneumatically Operated 2/2 Way Angle Valve for Liquids

2000

G 1/2" - G 2 1/2", 0-16 bar max.

- Waterhammer-free
- High flow rates
- Self adjusting double packing
- Optical position indicator is standard
- Rotating power head to orient air control connections



Bürkert's classic angle seat valve. Designed for unmatched life cycle performance, is a perfect replacement for actuated ball valves. Configuration with underseat flow for liquids these anti-waterhammer valves employ live loaded packing and an N-seal piston actuator all in an application proven rugged compact envelope.

Technical Data

Pressure range	0-16 bar max.
Temperature media	-10 °C – +180 °C
Ambient temperature max.	+60 °C
Body material	Gunmetal, stainless steel
Seal material	PTFE
Actuator material	Polyamide or PPS
Control medium	Instrument air at 6 bar
Flow direction	Under seat
Port connection	G-thread
Safe position	Normally closed or normally open
Pilot air port	1/4" (Actuator Ø40 = 1/8)

Options

- Double acting
- Solenoid pilot valves (see page 36)
- Vacuum version
- Feedback switches
- Cleaned for oxygen service

Accessories for 2100

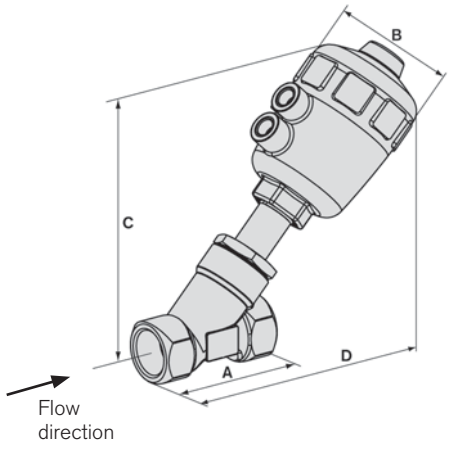


Typ 1062 S. 61



Pilotventil 6012 P / 6014 P S. 40

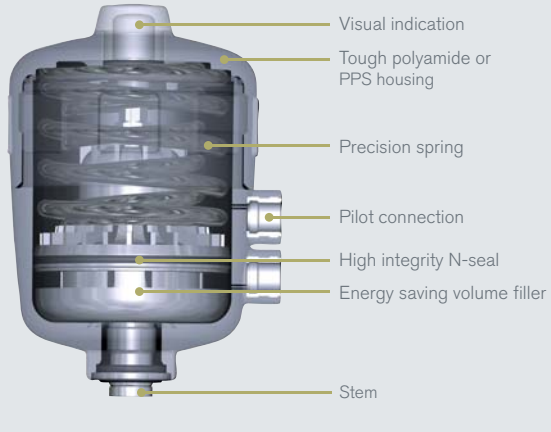
Envelope Dimensions [mm] (see datasheet for details)

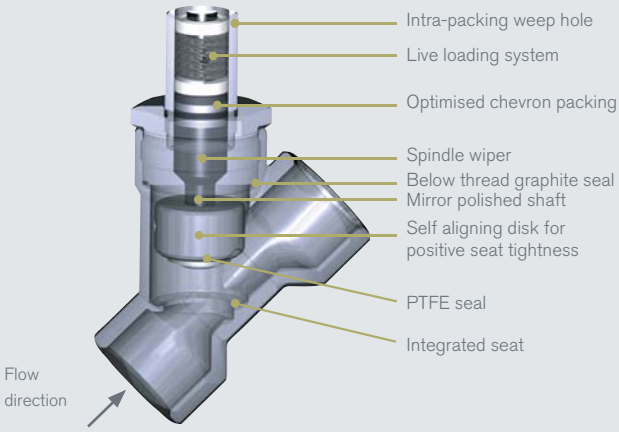


Size	Actuator	A	B	C	D
G 1/2"	40	65	53	113	137
G 1/2"	50	65	64	140	163
G 3/4"	50	75	64	144	171
G 3/4"	63	75	80	171	198
G 1"	50	90	64	152	181
G 1"	63	90	80	177	206
G 1"	80	90	101	198	228
G 1 1/4"	63	110	80	183	219
G 1 1/4"	80	110	101	205	240
G 1 1/2"	63	120	80	188	222
G 1 1/2"	100	120	127	260	295
G 1 1/2"	125	120	158	289	324
G 2"	80	150	101	225	270
G 2"	100	150	127	272	317
G 2"	125	150	158	302	347
G 2 1/2"	80	185	127	239	296
G 2 1/2"	125	185	158	317	374

On-Off Pneumatically Operated 2/2 Way Angle Valve for Liquids

Sectional Drawings





Ordering Charts - 2000 for flow direction under seat (other versions on request)

Port [inch]	Orifice [mm]	Actuator Ø [mm]	Kv value [m³/h]	Pressure range [bar]	Item no. - Gunmetal body		Item no. - Cast st. st. body	
					PA actuator	PPS actuator	PA actuator	PPS actuator
Normally closed								
G 1/2	13	40	3.7	0-15	178 608	178 607	178 606	178 605
		50	4.2	0-16	178 684	178 683	178 682	178 681
G 3/4	20	50	8.5	0-11	178 680	178 679	178 678	178 677
		63	9	0-16	178 666	178 665	178 664	178 663
G 1	25	63	18	0-11	178 676	178 675	178 674	178 667
		80	18	0-16	186 489	187 565	186 488	187 844
G 1 1/4	32	80	27	0-14	178 699	178 698	178 697	178 696
G 1 1/2	40	100	42	0-12.5	185 072	187 829	185 073	–
		125	42	0-16	186 487	–	187 840	–
G 2	50	100	55	0-7.2	001 134	002 170	001 140	001 239
		125	55	0-10	001 593	002 171	001 601	–
G 2 1/2	65	125	90	0-5.2	001 368	002 172	001 373	001 703
Normally open								
G 1/2	13	40	3.8	0-16	178 601	178 602	178 603	178 604
		50	4.2	0-16	178 691	178 690	178 689	178 688
G 3/4	20	50	8.5	0-16	178 687	179 020	178 686	178 685
G 1	25	50	10	0-16	178 850	178 849	178 848	178 847
G 1 1/4	32	63	25	0-16	178 845	178 853	178 852	178 851
G 1 1/2	40	63	35	0-16	178 864	178 863	178 862	178 861
G 2	50	80	49	0-16	001 595	002 180	001 603	002 164
G 2 1/2	65	80	77	0-16	001 372	002 181	001 377	001 710

On-Off Pneumatically Operated 2/2 Way ELEMENT Angle Valve

1/2" - 2", 0-25 bar max.

- Perfect for clean applications
- Wide range of accessories
- Compressed air recycling control function with ELEMENT Control Tops
- Long life





ELEMENT angle seat valves are designed for unmatched life cycle performance. Shown on this page in normally closed configuration with underseat flow for liquids these valves exhibit live loaded packing with all of the advantages of the ELEMENT platform: Intelligent, Integrated and Beautiful.

Technical Data

Angle seat	2100 ELEMENT
Pressure range	0-25 bar max.
Temperature media	-10 °C – +185 °C
Ambient temperature max.	+60° C (push-in air ports)
Body material	316L stainless steel
Seal material	PTFE
Actuator material	Stainless steel/PPS
Control medium	Instrument air at 6 bar
Flow direction	Under seat anti water-hammer
Port connection	G-thread, weld end, clamp
Safe position	Normally closed, normally open

Options

- Double acting
- Solenoid pilot valves
- Vacuum version
- Feedback switches

Accessories for 2100



8690 Control Top

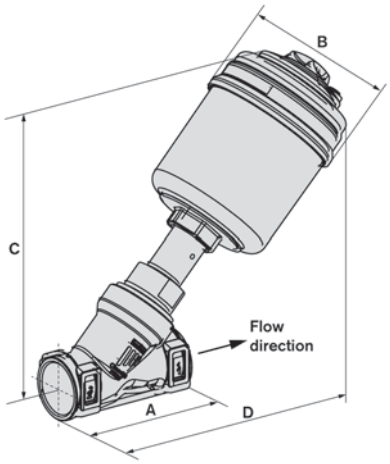


8691 Control Top with superBRIGHT feedback

Envelope Dimensions [mm] (see datasheet for details)

Dimensions shown for threaded version for others please see datasheet

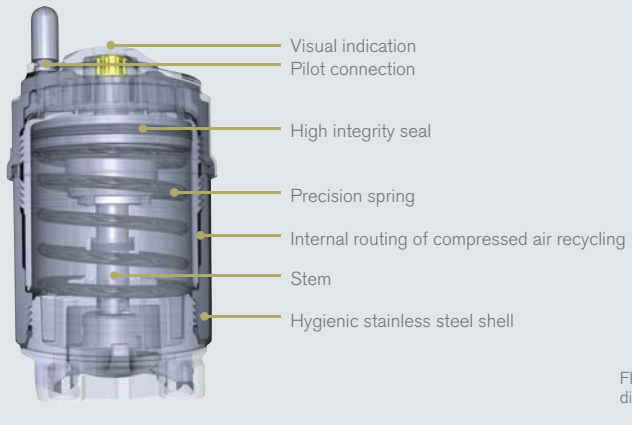
Pilot air ports for 6/4 tubing

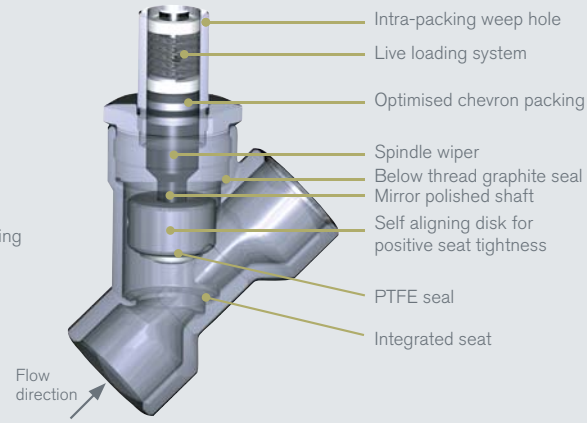


Port connection	Actuator [mm]	A	B	C	D
G 1/2"	50	65	64.5	158	185
G 1/2"	70	65	91	173	201
G 3/4"	50	75	64.5	166	195
G 3/4"	70	75	91	181	211
G 1"	50	90	64.5	172	204
G 1"	70	90	91	187	220
G 1 1/4"	70	110	91	195	235
G 1 1/4"	90	110	120	240	277
G 1 1/2"	70	120	91	197	236
G 1 1/2"	90	120	120	242	278
G 2"	70	150	91	214	262
G 2"	90	150	120	255	301
G 2"	130	150	159	306	351

On-Off Pneumatically Operated 2/2 Way ELEMENT Angle Valve

Sectional Drawings





Ordering Chart

Angle seat valve G Thread

Port [inch]	Orifice [mm]	Actuator ø [mm]	Min. pressure [bar]	Operating pressure to +185 °C [bar]	Item no.
Normally closed					
G 1/2	13	50	5.0	25	213 619
G 1/2		70	5.0	25	213 620
G 3/4	20	50	5.0	13	227 616
G 3/4		70	5.0	20	213 621
G 1	25	50	5.0	6	227 617
G 1		70	5.0	16	213 622
G 1 1/4	32	70	5.0	8.5	213 623
G 1 1/4		90	5.0	16	213 624
G 1 1/2	40	70	5.0	6	213 625
G 1 1/2		90	5.0	16	213 627
G 2	50	90	5.0	10	175 108
G 2		130	5.0	16	188 610
Normally open					
G 1/2	13	50	see datasheet	16	213 637
G 1/2		70		16	213 638
G 3/4	20	50		16	213 639
G 3/4		70		16	213 640
G 1	25	70		16	213 641
G 1 1/4	32	70	see datasheet	16	213 642
G 1 1/2	40	70		16	213 643
G 2	50	70		16	175 123

Clamp acc. to ISO 2852, flow direction below the seat

Orifice [mm]	Actuator size Ø [mm]	Port clamp external Ø [mm]	Minimum pilot pressure [bar]	Operating pressure up to +185 °C [bar]	Item no.
Normally closed					
15	50	34.0	5.0	25	187 097
15	70	34.0	5.0	25	188 783
20	50	50.5	5.0	13	209 437
20	70	50.5	5.0	20	188 784
25	50	50.0	5.0	6	227 613
25	70	50.5	5.0	16	188 785
32	70	50.5	5.0	8.5	188 786
32	90	50.5	5.0	16	188 787
40	70	64.0	5.0	6	188 788
40	90	64.0	5.0	16	188 789
50	90	77.5	5.0	10	188 790
	130	77.5	5.0	16	188 791
Normally open					
15	50	34.0	see datasheet	16	187 101
15	70	34.0		16	188 800
20	50	50.5		16	187 102
20	70	50.5		16	188 801
25	70	50.5		16	188 802
32	70	50.5		16	188 803
40	70	64.0		16	188 804
50	70	77.5		16	188 805

Clamp acc. to ASME BPE, flow direction below the seat

Normally closed					
15	50	25.0	5.0	25	187 103
15	70	25.0	5.0	25	188 806
20	50	25.0	5.0	13	227 614
20	70	25.0	5.0	20	188 807
25	50	50.5	5.0	6	227 615
25	70	50.5	5.0	16	188 808
40	70	50.5	5.0	6	188 809
40	90	50.5	5.0	16	188 810
50	90	64.0	5.0	10	188 811
	130	64.0	5.0	16	188 812
Normally open					
15	50	25.0	see datasheet	16	187 107
15	70	25.0		16	188 820
20	50	25.0		16	187 108
20	70	50.5		16	188 821
25	70	50.5		16	188 822
40	70	50.5		16	188 823
50	70	64.0		16	188 824

On-Off Pneumatically Operated 2/2 Way ELEMENT Angle Valve

Ordering Chart (other versions on request)

Weld end acc. to EN ISO 1127

Orifice [mm]	Actuator size Ø [mm]	Port connection tube-Ø [mm]	Minimum pilot pressure [bar]	Operating pressure up to +185 °C [bar]	Item no.
Normally closed					
15	50	21.3 x 1.6	5.0	25	187 065
15	70	21.3 x 1.6	5.0	25	188 680
20	50	26.9 x 1.6	5.0	13	210 399
	70	26.9 x 1.6	5.0	20	188 681
25	50	33.7 x 2	5.0	6	235 519
	70	33.7 x 2	5.0	16	188 682
32	70	42.4 x 2	5.0	8.5	188 683
32	90	42.4 x 2	5.0	16	188 684
40	70	48.3 x 2	5.0	6	188 685
40	90	48.3 x 2	5.0	16	188 686
50	90	60.3 x 2.6	5.0	10	188 687
	130	60.3 x 2.6	5.0	16	188 688
Normally open					
15	50	21.3 x 1.6	see datasheet	16	187 069
15	70	21.3 x 1.6		16	188 697
20	50	26.9 x 1.6		16	187 070
20	70	26.9 x 1.6		16	188 698
25	70	33.7 x 2		16	188 699
32	70	42.4 x 2		16	188 700
40	70	48.3 x 2		16	188 701
50	70	60.3 x 2.6		16	188 702

Weld end acc. to DIN 11850 S2

Normally closed					
15	50	19 x 1.5	5.0	25	187 071
15	70	19 x 1.5	5.0	25	188 703
20	50	23 x 1.5	5.0	13	227 605
	70	23 x 1.5	5.0	20	188 704
25	50	29 x 1.5	5.0	6	227 606
	70	29 x 1.5	5.0	16	188 705
32	70	35 x 1.5	5.0	8.5	188 706
32	90	35 x 1.5	5.0	16	188 707
40	70	41 x 1.5	5.0	6	188 708
40	90	41 x 1.5	5.0	16	188 709
50	90	53 x 1.5	5.0	10	188 710
	130	53 x 1.5	5.0	16	188 711
Normally open					
15	50	19 x 1.5	see datasheet	16	187 075
15	70	19 x 1.5		16	188 720
20	50	23 x 1.5		16	187 076
20	70	23 x 1.5		16	188 721
25	70	29 x 1.5		16	188 722
32	70	35 x 1.5		16	188 723
40	70	41 x 1.5		16	188 724
50	70	53 x 1.5		16	188 725

Weld end acc. to ASME BPE

Orifice [mm]	Actuator size ø [mm]	Port connection tube-Ø [mm]	Minimum pilot pressure [bar]	Operating pressure up to +185 °C [bar]	Item no.
Normally closed					
15	50	12.7 x 1.65	5.0	25	187 077
15	70	12.7 x 1.65	5.0	25	188 726
20	50	19.05 x 1.65	5.0	13	227 607
	70	19.05 x 1.65	5.0	20	188 727
25	50	25.4 x 1.65	5.0	6	227 608
	70	25.4 x 1.65	5.0	16	188 728
40	70	38.1 x 1.65	5.0	6	188 729
40	90	38.1 x 1.65	5.0	16	188 730
50	90	50.8 x 1.65	5.0	10	188 731
	130	50.8 x 1.65	5.0	16	188 732
Normally open					
15	50	12.7 x 1.65	see datasheet	16	187 082
15	70	12.7 x 1.65		16	188 740
20	50	19.05 x 1.65		16	187 083
20	70	19.05 x 1.65		16	188 741
25	70	25.4 x 1.65		16	188 742
40	70	38.1 x 1.65		16	188 743
50	70	50.8 x 1.65		16	188 744

Weld end acc. to SMS 3008, flow direction below the seat

Normally closed					
15	50	12 x 1.0	5.0	25	187 084
15	70	12 x 1.0	5.0	25	188 745
20	50	18 x 1.0	5.0	13	227 609
	70	18 x 1.0	5.0	20	188 746
25	50	25 x 1.2	5.0	6	227 610
	70	25 x 1.2	5.0	16	188 747
40	70	38 x 1.2	5.0	6	188 748
40	90	38 x 1.2	5.0	16	188 749
50	90	51 x 1.2	5.0	10	188 750
	130	51 x 1.2	5.0	16	188 751
Normally open					
15	50	12 x 1.0	see datasheet	16	187 089
15	70	12 x 1.0		16	188 759
20	50	18 x 1.0		16	187 090
20	70	18 x 1.0		16	188 760
25	70	25 x 1.2		16	188 761
40	70	38 x 1.2		16	188 762
50	70	51 x 1.2		16	188 763

Weld end acc. to BS 4825, flow direction below the seat

Normally closed					
15	50	12.7 x 1.2	5.0	25	187 091
15	70	12.7 x 1.2	5.0	25	188 764
20	70	19.05 x 1.65	5.0	20	188 765
25	70	25.4 x 1.65	5.0	16	188 766
40	70	38.1 x 1.65	5.0	6	188 767
40	90	38.1 x 1.65	5.0	16	188 768
50	90	50.8 x 1.65	5.0	10	188 769
	130	50.8 x 1.65	5.0	16	188 770
Normally open					
15	50	12.7 x 1.2	see datasheet	16	187 095
15	70	12.7 x 1.2		16	188 778
20	50	19.05 x 1.65		16	187 096
20	70	19.05 x 1.65		16	188 779
25	70	25.4 x 1.65		16	188 780
40	70	38.1 x 1.65		16	188 781
50	70	50.8 x 1.65		16	188 782

On-Off Pneumatically Operated 2/2 Way Angle Valve for Steam and Gases



G 1/2" - G 2 1/2", 0-16 bar max.

- Flow direction above seat
- PPS head for hot environments
- Optical position indicator is standard
- Self adjusting double packing
- High flow rates
- Rotating power head to orient air control connections

Bürkert's classic angle seat valve for on-off steam applications. Depended upon around the globe for unsurpassed lifetime. Its closed configuration with overseat flow for steam and gases these valves exhibit live loaded packing, N-seal piston actuator all in a rugged compact envelope.

Technical Data

Pressure range	0-16 bar max.
Temperature media	-10 °C – +180 °C
Ambient temperature max.	PA actuator -10 °C – +60 °C PPS actuator 40-80: 140 °C, 100-125: 90 °C
Body material	Gunmetal, stainless steel 316L
Seal material	PTFE
Actuator material	Polyamide or PPS
Control medium	Instrument air at 6 bar
Flow direction	Over seat to minimise actuator size
Port connection	G-thread
Safe position	Normally closed

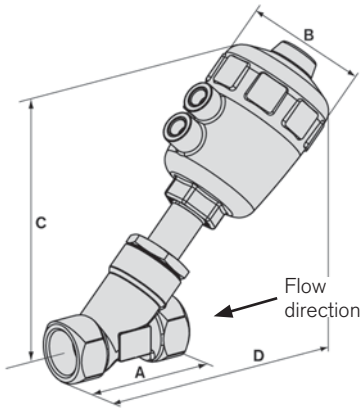
Ordering Chart - normally closed

(other versions on request)

Port [inch]	Orifice [mm]	Actuator [mm]	Kv Value [m³/h]	Pressure range [bar]	Item no. PA	Item no. PPS
Gunmetal body						
G 1/2	13	50	4.2	16	183 939	186 106
G 3/4	20	40	7.9	16	186 822	▪
		50	8.0	16	185 356	180 374
G 1	25	50	14.5	16	186 380	187 556
		63	18.0	16	178 860	178 859
G 1 1/4	32	63	25.0	16	178 855	178 854
G 1 1/2	40	63	35.0	16	178 896	178 897
G 2	50	63	49.0	16	001 251	002 149
G 2 1/2	65	80	77.0	14	001 398	002 151
		100	90.0	15	130 332	186 344
Stainless steel body						
G 1/2	13	50	4.2	16	186 376	186 467
G 3/4	20	40	7.9	16	187 672	▪
		50	8.0	16	185 304	180 375
G 1	25	50	14.5	16	186 729	187 872
		63	18.0	16	178 857	178 856
G 1 1/4	32	63	25.0	16	178 893	178 892
G 1 1/2	40	63	35.0	16	178 895	178 894
G 2	50	63	49.0	16	001 401	002 158
G 2 1/2	65	80	77.0	14	001 402	002 160
		100	90.0	15	130 333	–

▪ on request

Envelope Dimensions [mm] (see datasheet for details)



Size	Actuator	A	B	C	D
G 1/2"	50	65	64	140	163
G 3/4"	40	75	64	144	167
G 3/4"	50	75	64	144	171
G 1"	50	90	64	145	175
G 1"	63	90	80	170	199
G 1 1/4"	63	110	80	183	119
G 1 1/2"	63	120	80	188	222
G 2"	63	150	80	204	249
G 2 1/2"	80	185	101	239	296
G 2 1/2"	100	185	127	287	344

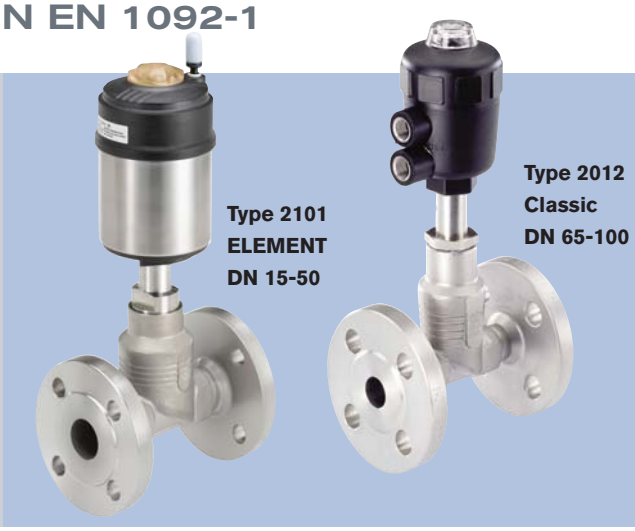
Options

- Normally open
- Double acting
- Solenoid pilot valves (see page 36)
- Vacuum version
- Feedback switches
- Cleaned for oxygen service
- Stroke limiter

On-Off Pneumatically Operated 2/2 Way Globe Valves with Flange connection acc. to DIN EN 1092-1

DN 15 - DN 100, 0-16 bar max.

- Fow direction below seat
- Long life
- Hygienic stainless steel design to DN50



Stainless flanged globe valve engineered as an uncompromising replacement for flanged ball valves where regular unplanned maintenance or life cycle performance is an issue. Shown on this page in normally closed configuration with underseat flow for liquids these valves exhibit live loaded packing, N-seal piston actuator in a rugged compact envelope which fits global standards.

Technical Data

Pressure range	0-16 bar max.
Temperature media	-10 °C - +180 °C (CLASSIC) / +185 °C (ELEMENT)
Ambient temperature	+60° C (push-in air ports)
Body material	Stainless steel
Seal material	PTFE
Actuator material	PPS and St.st. 316L (ELEMENT), PA (Classic)
Control medium	Instrument air (see pressure below)
Flow direction	Under seat anti water-hammer
Port connection	Flange DIN EN 1092-1

Options

- Normally open
- Double acting
- Solenoid pilot valves (see page 36)
- Vacuum version
- Feedback switches
- High temperature actuator
- Chemically resistant actuator
- Stroke limiter
- JIS and ANSI flanges

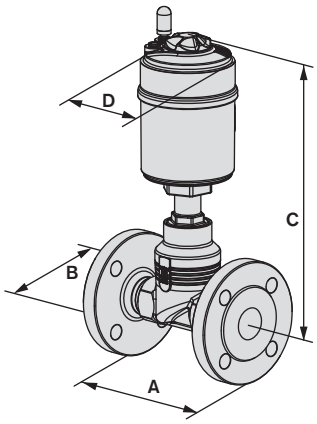
Ordering Chart - normally closed

(other versions on request)

Type 2101 ELEMENT - Flange connection acc. to DIN EN 1092-1

Orifice [mm]	Actuator size Ø [mm]	Kv value [m³/h]	Min. pilot pressure [bar]	Operating pressure to +185 °C [bar]	Item no.
15	50	4.7	4.8	25	203 076
20	50	8.1	4.8	13	203 077
	70	8.1	4.8	20	203 078
25	50	13	4.8	6	203 079
	70	13	4.8	16	189 700
32	70	19.5	4.8	8.5	203 080
	90	19.5	5.0	16	203 081
40	70	31	4.8	6	203 082
	90	31	5.0	16	203 083
50	90	45	5.0	10	203 084
	130	45	5.0	16	218 418

Envelope Dimensions [mm] (see datasheet for details)



Dimensions shown for 2101 for exact 2012 dimensions please see datasheet

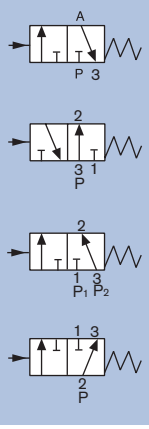
Size (DN)	Actuator	A	B	C	D
15	50	130	95	236	64.5
20	50	150	105	242	64.5
20	70	150	105	256	91
25	50	160	115	245	64.5
25	70	160	115	259	91
32	70	180	140	280	91
32	90	180	140	340	120
40	70	200	150	285	91
40	90	200	150	345	120
50	90	230	165	351	120
50	130	230	165	400	159

Type 2012 CLASSIC - Flange connection acc. to DIN EN 1092-1

Orifice [mm]	Actuator size Ø [mm]	Kv value [m³/h]	Minimum pilot pressure [bar]	Operating pressure up to +180 °C [bar]	Item no.
65	125	73.0	5.6	12	152 743
	175	73.0	4.5	15	152 761
80	125	110.0	5.6	7.5	155 527
	175	110.0	4.5	10	152 779
	225	110.0	3.3	12.5	152 797
100	125	165.0	5.6	5	155 546
	175	155.0	4.5	7.0	152 815
	225	155.0	4.8	10	152 833

On-Off Pneumatically Operated 3/2 Way Globe Valve with Unions





G 1/2" - G 2", 0-16 bar max.

- Different flow circuit functions and control functions
- Long life actuator
- Compact design
- Optical display as standard in series

3 way pneumatic piston operated valve with two seats and PTFE seals. Fitted with a Classic Bürkert long life actuator this valve can be deployed to control a wide range of liquids and gases. Live loaded packing and a range of process oriented accessories make this rugged and compact valve an excellent choice. High flow rates are attained with the sturdy proven gunmetal 3-way body. As with all the 2000 series valves a reliable self-adjusting packing gland provides high sealing integrity. Various fluidic circuit functions can be obtained by a simple exchange of the pressure and service ports making these maintenance-free valves the sensible alternative to three way ball valves.

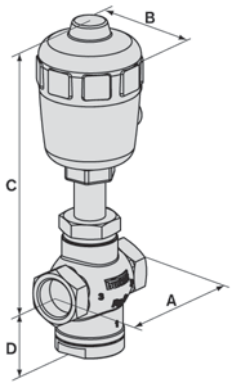
Technical Data

Pressure range	0-16 bar max.
Temperature media	-10 °C – +180 °C
Ambient temperature max.	+60 °C
Body material	Gunmetal
Seal material	PTFE
Actuator material	Polyamide (optional PPS)
Control medium	Instrument air at 6 bar
Safe position	Normally closed or normally open

Options

- Further control functions
- Solenoid pilot valves (see page 36)
- Vacuum version
- Feedback switches
- High temperature actuator in PPS
- Cleaned for oxygen service
- Stroke limiter
- Manual override
- GL - approval

Envelope Dimensions [mm] (see datasheet for details)



Pilot air ports 1/4"

Connection	A	B	C	D
G 1/2"	75	80	213	49
G 3/4"	75	80	213	49
G 1"	90	80	216	52.5
G 1 1/4"	120	153	336	66
G 1 1/2"	120	153	336	66
G 2"	160	153	350	85

Ordering Chart

Port [inch]	Orifice [mm]	Actuator [mm]	Kv Value [m³/h]		Pressure range [bar]		Item no.
			1-2	2-3	1-2	2-3	
G 1/2	13	63	9	5.5	0-16	0-16	002 300
G 3/4	20	63	10.5	6.5	0-16	0-16	002 301
G 1	25	63	17	10	0-10	0-16	002 133
G 1 1/4	32	125	38	24	0-14	0-16	002 302
G 1 1/2	40	125	40	26	0-14	0-16	002 303
G 2	50	125	55	37	0-10	0-16	002 136

Manually Operated 2/2 Way Diaphragm Valve

3232

DN 15 - 50mm, 0-10 bar

- For aggressive media
- Flow optimised body
- Tough, durable PPS handwheel
- Self-emptying
- Low dead volume



Hand operated diaphragm valve for aggressive chemicals. Provides long service life even with polluted, dirty or high viscosity fluids. The diaphragm between the actuator and body hermetically isolates the fluid from the actuator and provides a strong seal over the valve seat. The manual nature of the operator means that the valve can be used for shut-off and for flow control.

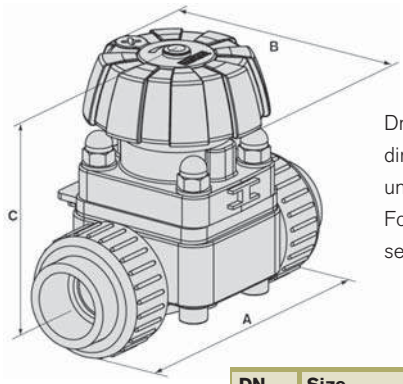
Technical Data

Pressure range	0-10 bar max.
Temperature media	See datasheet
Ambient temperature	+60° C, max.
Body material	PVC, PP or PVDF
Seal material	EPDM, PTFE/EPDM (FKM on request)
Handwheel / Bonnet	PPS / PPS
Process connection	True Union with solvent connection included

Options

- Pneumatic actuation (see page 49)
- Suitable for the food industry (FDA and KTW)
- Safety lock

Envelope Dimensions [mm] (see datasheet for details)



Drawing shows dimensions for true union connection. For other connections see datasheet.

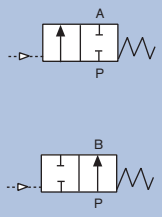
DN	Size	A	B	C
15	1/2"	128	86	92
20	3/4"	152	86	102
25	1"	166	86	108
32	1 1/4"	192	114	139
40	1 1/2"	222	114	149
50	2"	266	114	170

Ordering chart

Orifice DN [mm]	Port [inch]	Kv value [m³/h]	Pressure range at +20 °C [bar]	PVC		PP		PVDF	
				Item no. EPDM diaphragm	Item no. PTFE/EPDM diaphragm	Item no. EPDM diaphragm	Item no. PTFE/EPDM diaphragm	Item no. EPDM diaphragm	Item no. PTFE/EPDM diaphragm
True union connection									
15	1/2	3.5	0 - 10	144 758	144 764	144 782	144 788	144 806	144 812
20	3/4	7.2	0 - 10	144 759	144 765	144 783	144 789	144 807	144 813
32	1	12.5	0 - 10	144 760	144 766	144 784	144 790	144 808	144 814
32	1 1/4	19.0	0 - 10	144 761	144 767	144 785	144 791	144 809	144 815
40	1 1/2	28.0	0 - 10	144 762	144 768	144 786	144 792	144 810	144 816
50	2	40.0	0 - 7	144 763	144 769	144 787	144 793	144 811	144 817
Spigot connection									
15	1/2	3.5	0 - 10	144 770	144 776	144 794	144 800	144 818	144 824
20	3/4	7.2	0 - 10	144 771	144 777	144 795	144 801	144 819	144 825
25	1	12.5	0 - 10	144 772	144 778	144 796	144 802	144 820	144 826
32	1 1/4	19.0	0 - 10	144 773	144 779	144 797	144 803	144 821	144 827
40	1 1/2	28.0	0 - 10	144 774	144 780	144 798	144 804	144 822	144 828
50	2	40.0	0 - 7	144 775	144 781	144 799	144 805	144 823	144 829

On-Off Pneumatically Operated 2/2 Way Diaphragm Valve





DN15 - DN50mm, 0-10 bar max.

- Chemical environment valve
- Engineered Plastic Body
- Removable true union connections

Pneumatically actuated, chemically resistant diaphragm valve for on-off control. A wide range of accessories add to the overall safe function of this valve in critical areas while the addition of a control head transforms this to provide accurate modulating control.

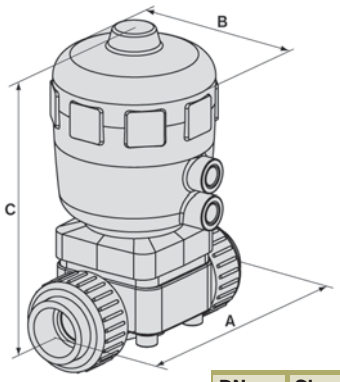
Technical Data

Pressure range	0-10 bar max.
Temperature media	-10 °C – +60 °C
Ambient temperature	+60 °C, max.
Body material	PVC
Seal material	EPDM, PTFE/EPDM (FKM on request)
Actuator material	Polyamide
Control medium	Neutral gases, air
Flow direction	Bidirectional
Control function	Normally closed (normally open also available)

Optionen/Zubehör

- PVDF, PP bodies
- PPS actuator
- Double acting actuator
- Feedback 1062
- Stroke limitation
- FDA/KTW - Approvals

Envelope Dimensions [mm] (see datasheet for details)



DN	Size	A	B	C
15	50	128	64	123
	63	128	80	139
20	63	152	80	148
	80	152	101	173
25	80	166	101	176
32	100	192	127	231
40	100	222	127	239
	125	222	153	277
50	125	266	153	284

Ordering chart (other versions on request)

Orifice [mm]	Port connection [mm]	Actuator size Ø [mm]	Kv value [m³/h]	Min. pilot pressure [bar]	Operating pressure [bar]	Seal material EPDM Item no. true union	Seal material EPDM Item no. spigot	Seal material PTFE/EPDM Item no. true union	Seal material PTFE/EPDM Item no. spigot
Normally closed									
15	20	50	3.0	5.0	8.5	141 449	141 451	144 293	144 294
		63	3.5	5.0	10	141 450	141 452	141 455	141 456
20	25	63	7.0	5.5	10	141 459	141 461	144 297	144 298
		80	7.0	5.5	10	–	–	141 465	141 466
25	32	80	11.0	5.5	10	141 468	141 469	141 472	141 473
32	40	100	18.0	5.5	10	141 475	141 860	141 478	141 479
40	50	100	24.0	5.5	6.5	141 482	141 861	144 301	144 302
		125	26.0	5.5	10	141 483	141 484	141 487	141 488
50	63	125	43.0	5.5	8	141 490	141 862	–	–
50	63	125	43.0	5.5	7	–	–	141 493	141 494
Normally open									
15	20	50	3.0	see datasheet	10	141 497	141 499	141 503	141 504
20	25	63	7.0		10	141 507	141 509	141 514	141 515
25	32	80	11.0		10	141 516	141 518	141 521	141 522
32	40	100	18.0	see datasheet	10	141 524	141 864	141 527	141 528
40	50	100	24.0		10	141 531	141 865	141 536	141 537
50	63	125	43.0		10	141 539	141 866	141 542	141 543

Manually Operated 2/2 Way Forged Diaphragm Valve

3233

DN8 - DN80mm, 0-10 bar max.

- Hermetic separation of fluids from actuator
- For high purity and aseptic mediums
- Certifications for hygienic processing applications
- CIP/SIP
- Zero dead volume



Hand operated diaphragm valve designed specifically for 3A / FDA compliant bioprocessing tasks. The forged 316L stainless steel body can be delivered with your specific surface finish with a range of diaphragm materials to suit positive control of ultra-pure, abrasive and aggressive fluids. The diaphragm type valve is preferred in these applications due to its favourable flow characteristics, its cleanability and its zero dead volume design.

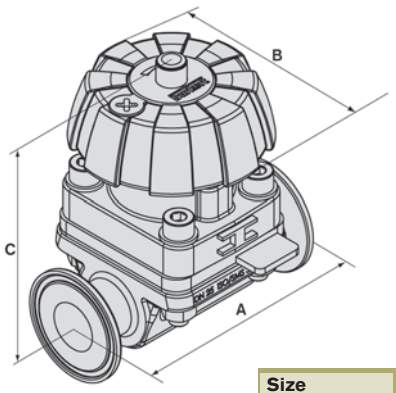
Technical Data

Pressure range	0-10 bar max.
Temperature media	-10 bis +130 °C
Ambient temperature	Up to +130 °C, briefly up to 150 °C
Body material	Forged 316L ASME BPE specification
Seal material	EPDM, PTFE/EPDM (FKM on request)
Handwheel / Bonnet	PPS / PPS (other options see datasheet)

Options

- All mechanical and electropolished finishes a standard
- Locking function
- Suitable for the food industry (FDA/KTW)

Envelope Dimensions [mm] (see datasheet for details)



Drawing shows dimensions for clamp connections. For other versions see datasheets.

Size [mm]	[inch]	A	B	C
15	1/2"	103	80	85
20	3/4"	119	80	93
25	1"	129	80	94
40	1 1/2"	161	114	116
50	2"	192	114	133

Ordering chart for valves

Port connection		External-Ø	Kv value water	Max. operating pressure	Item no. Diaphragm EPDM		Item no. Diaphragm PTFE/EPDM	
[mm]	[inch]	[mm]	[m³/h]	[bar]	mech. polished, Ra ≤ 0.6 µm	electro polished, Ra ≤ 0.4 µm	mech. polished, Ra ≤ 0.6 µm	electro polished, Ra ≤ 0.4 µm
Body with clamp connection acc. ISO 2852								
25	1	22.6	16.0	10	218 857	445 724	218 732	445 739
40	1 1/2	35.6	29.0	10	218 727	445 729	218 733	445 744
50	2	48.6	50.0	7	218 728	445 734	218 734	445 749
Body with clamp connection acc. DIN 32676								
15	1/2	16.0	6.0	10	218 738	445 894	218 748	445 919
20	3/4	20.0	11.0	10	218 739	445 899	218 749	445 924
25	1	26.0	16.0	10	218 740	445 904	218 750	445 929
40	1 1/2	38.0	29.0	10	218 741	445 909	218 751	445 934
50	2	50.0	50.0	7	218 742	445 914	218 752	445 939
Body with clamp connection acc. ASME BPE short connection								
8	1/4	25.0	1.0	10	218 758	445 859	218 775	445 824
10	3/8	25.0	1.0	10	218 759	445 864	218 776	445 829
15	1/2	25.0	6.0	10	218 760	445 869	218 777	445 834
20	3/4	25.0	11.0	10	218 761	445 874	218 778	445 839
25	1	50.5	16.0	10	218 762	445 879	218 779	445 844
40	1 1/2	50.5	29.0	10	218 763	445 884	218 780	445 849
50	2	64.0	50.0	7	218 764	445 889	218 781	445 854
65	2 1/2	77.5	54.0	7	218 765	551 455	218 782	551 461
80	3	91.0	160.0	5	218 766	551 348	218 783	551 378
Body with clamp connection acc. ASME BPE long connection								
8	1/4	25.0	1.0	10	218 792	445 754	218 806	445 789
10	3/8	25.0	1.0	10	218 793	445 759	218 807	445 794
15	1/2	25.0	6.0	10	218 794	445 764	218 808	445 799
20	3/4	25.0	11.0	10	218 795	445 769	218 809	445 804
25	1	50.5	16.0	10	218 796	445 774	218 810	445 809
40	1 1/2	50.5	29.0	10	218 797	445 779	218 811	445 814
50	2	64.0	50.0	7	218 798	445 784	218 812	445 819
Body with weld end acc. EN ISO 1127/ISO 4200, DN 8-50								
8	1/4	13.5	1.0	10	218 575	445 494	218 595	445 529
10	3/8	17.2	1.0	10	218 576	445 499	218 596	445 534
15	1/2	21.3	6.0	10	218 577	445 504	218 597	445 539
20	3/4	26.9	11.0	10	218 579	445 509	218 598	445 544
25	1	33.7	16.0	10	218 580	445 514	218 599	445 549
40	11/4	42.4	29.0	10	218 581	550 291	218 600	550 288
40	1 1/2	48.3	29.0	10	218 582	445 519	218 601	445 554
50	2	60.3	50.0	7	218 584	445 524	218 602	445 559
Body with weld end acc. DIN 11850 Series 2, DN 10-50								
10	3/8	13.0	1.0	10	218 620	445 634	218 634	445 664
15	1/2	19.0	6.0	10	218 621	445 639	218 635	445 669
20	3/4	23.0	11.0	10	218 622	445 644	218 636	445 674
25	1	29.0	16.0	10	218 623	445 649	218 637	445 679
40	1 1/2	41.0	29.0	10	218 625	445 654	218 640	445 684
50	2	53.0	50.0	7	218 626	445 659	218 641	445 689
Body with weld end acc. SMS 3008								
25	1	25.0	16.0	10	218 658	445 694	218 667	445 709
40	1 1/2	38.0	29.0	10	218 660	445 699	218 668	445 714
50	2	51.0	50.0	7	218 661	445 704	218 669	445 719
65	2 1/2	63.5	54.0	7	218 662	551 557	218 670	551 562
Body with weld end acc. BS 4825								
8	1/4	6.35	1.0	10	218 680	445 564	218 689	445 599
10	3/8	9.53	1.0	10	218 682	445 569	218 690	445 604
15	1/2	12.70	6.0	10	218 683	447 926	218 691	447 946
20	3/4	19.05	12.0	10	218 684	447 931	218 692	447 951
Body with weld end acc. ASME BPE								
8	1/4	6.35	1.0	10	218 697	447 936	218 712	447 956
10	3/8	9.53	1.0	10	218 698	447 941	218 713	447 961
15	1/2	12.70	6.0	10	218 699	445 574	218 715	445 609
20	3/4	19.05	12.0	10	218 700	445 579	218 716	445 614
25	1	25.40	16.0	10	218 701	445 584	218 717	445 619
40	1 1/2	38.10	29.0	10	218 702	445 589	218 718	445 624
50	2	50.80	50.0	7	218 703	445 594	218 719	445 629

Port connection size equals the orifice diaphragm size except for port connection 32 mm. At port connection 32 mm the orifice diaphragm size equals 40 mm.

On-Off Pneumatically Operated 2/2 Way Forged Diaphragm Valve

2103

DN8 - 50mm, 0-10 bar max.

- Hygienic stainless steel design
- Interface to feedback and control options
- Optical display as standard in series
- For highly pure and asceptic materials
- Certification acc. to FDA



ELEMENT forged diaphragm valve designed for perfect hygienic use. As well as an aesthetic look and feel the valve is 3A / FDA compliant for bioprocessing. The hermetic separation of fluids from the operating mechanism also offers favourable flow characteristics and zero dead volume.

Technical Data

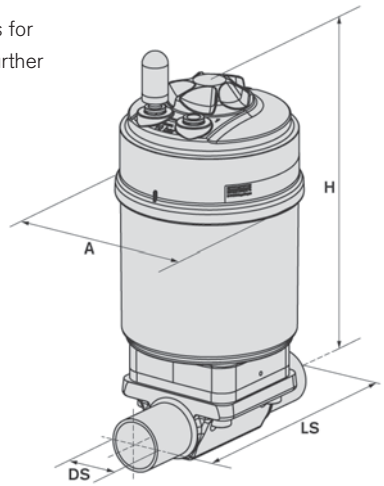
Pressure range	0-10 bar max.
Temperature media	-10 °C – +130 °C
Ambient temperature	+60 °C, max.
Body material	Forged 316L stainless steel
Internal finish	Ra ≤ 0.6
External finish	Forged surface
Seal material	EPDM or PTFE/EPDM
Actuator material	Polished 316L stainless steel / PPS
Control medium	Instrument air up to 10 bar
Flow direction	Bidirectional
Pilot connections	6mm tube
Norms	FDA compliant , 3A

Options

- BN2 material
- Any standard surface finish
- Classic actuator for sizes above 2”
- Intelligent positioner (see page 54)
- Control Top (see page 57)

Envelope Dimensions (see datasheet for details)

Drawing shows dimensions for weld end connection, for further versions see datasheet.



Orifice [mm]	Orifice [Zoll]	Actuator	A	H	LS	DS Ø EN ISO 1127/ ISO 4200	DS Ø DIN 11850 R2
8	1/4”	50	64.5	129	90	13.5	–
10	3/8”	50	64.5	144	110	17.2	13
15	1/2”	70	91	161	110	21.3	19
20	3/4”	70	91	171	119	26.9	23
25	1”	70	91	174	129	33.7	29
25	1”	90	120	207	129	33.7	29
40	1 1/2”	130	159	288	161	48.3	41
50	2”	130	159	311	192	60.3	53

Ordering charts

Orifice [mm]	Orifice [inch]	Kv value [m³/h]	Actuator Ø [mm]	Pilot pressure [bar]	Item no. mech. polished, Ra ≤ 0.6 µm EPDM	Item no. mech. polished, Ra ≤ 0.6 µm PTFE/EPDM
Body with weld end connection						
Acc. to EN ISO 1127/ISO 4200						
8	1/4	1.0	50	5-10	218 005	218 012
15	1/2	5.5	70	5-10	218 006	218 013
20	3/4	10.0	70	5-10	218 007	218 014
25	1	14.0	70	5-10	218 008	218 015
			90	5.5-10	218 009	218 016
40	1 1/2	30.0	130	5-7	218 010	218 017
50	2	51.5	130	5-7	218 011	218 018
Acc. to DIN 11850 Series 2						
10	3/8	1.0	50	5-10	218 019	218 026
15	1/2	5.5	70	5-10	218 020	218 027
20	3/4	10.0	70	5-10	218 021	218 028
25	1	14.0	70	5-10	218 022	218 029
			90	5.5-10	218 023	218 030
40	1 1/2	30.0	130	5-7	218 024	218 031
50	2	51.5	130	5-7	218 025	218 032
Acc. to ASME BPE						
8	1/4	1.0	50	5-10	218 033	218 041
10	3/8	1.0	50	5-10	218 034	218 042
15	1/2	5.5	70	5-10	218 035	218 043
20	3/4	10.0	70	5-10	218 036	218 044
25	1	14.0	70	5-10	218 037	218 045
			90	5.5-10	218 038	218 046
40	1 1/2	30.0	130	5-7	218 039	218 047
50	2	51.5	130	5-7	218 040	218 048
Acc. to BS 4825						
8	1/4	1.0	50	5-10	218 049	218 053
10	3/8	1.0	50	5-10	218 050	218 054
15	1/2	5.5	70	5-10	218 051	218 055
20	3/4	10.0	70	5-10	218 052	218 056
Body with clamp connection						
Acc. to DIN 32676						
15	1/2	5.5	70	5-10	218 057	218 063
20	3/4	10.0	70	5-10	218 058	218 064
25	1	14.0	70	5-10	218 059	218 065
			90	5.5-10	218 060	218 066
40	1 1/2	30.0	130	5-7	218 061	218 067
50	2	51.5	130	5-7	218 062	218 068
Acc. to ASME BPE - short dimension						
10	3/8	1.0	50	5-10	218 070	218 078
15	1/2	5.5	70	5-10	218 071	218 079
20	3/4	10.0	70	5-10	218 072	218 080
25	1	14.0	70	5-10	218 073	218 081
			90	5.5-10	218 074	218 082
40	1 1/2	30.0	130	5-7	218 075	218 083
50	2	51.5	130	5-7	218 076	218 084
Acc. to ASME BPE - long dimension						
8	1/4	1.0	50	5-10	218 085	218 092
15	1/2	5.5	70	5-10	218 086	218 093
20	3/4	10.0	70	5-10	218 087	218 094
25	1	14.0	70	5-10	218 088	218 095
			90	5.5-10	218 089	218 096
40	1 1/2	30.0	130	5-7	218 090	218 097
50	2	51.5	130	5-7	218 091	218 098

8802

2/2 way Continuous Control, DN13-DN50

- High Control Accuracy
- Stainless IP65 and 67 protection
- Simple to install and commission



ELEMENT Control Valves

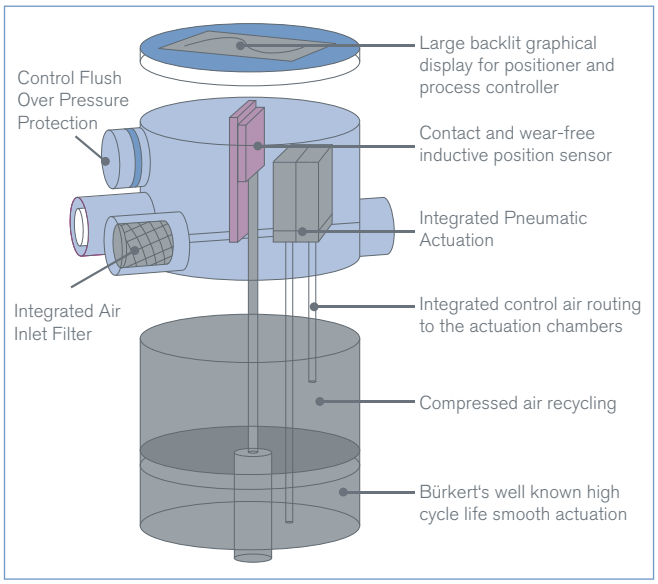
As part of a remarkable range of attractive and process control components our hardworking angle seat control valves offer high flows for large capacity heat exchange operations while our globe valves offer extreme precision and quiet operation. Both can be incorporated in the superlative 8802 control valve system. The 8802 Continuous ELEMENT architecture enables the easy integration of three levels of automation modules: a simple blind Positioner; a positioner with display; and a fully functional process controller. A range of fieldbus interfaces (AS-i, Profibus or DeviceNet) can be added with ease.

Simple, intuitive, multilingual menu driven HMI allows you to control your loop with the minimum time investment. There are no other control valves on the market which offer the following features:

- Wash down to EHEDG design standards and IP65/IP67
- Unrivalled control characteristics
- Positive positioner pressure and overpressure relief
- Unmatched Resistance to cleaning materials
- Compressed air recycling innovation eliminates corrosion of the spring chamber
- Security code lock
- Digital calibration
- PC interface set up tools
- Superb graphic backlit display
- Contactless, wear-free analog displacement sensor
- On board air filter
- ProcessTUNE
- Close tight cut off, inversion, free customised characteristic, filter, dead band, start position, safe position, split range, max. min. time and digital signal calibration
- Binary input and 2 binary outputs
- Analog output for position, setpoint or process variable

Threaded , OD tube weld ends and flanged connections make this an easily installed part of your control loop. These control valves offer unmatched life cycle performance.

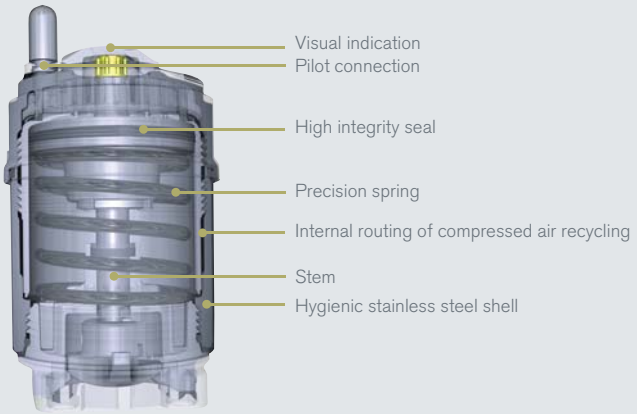
Truly Intelligent, Integrated and Beautiful.

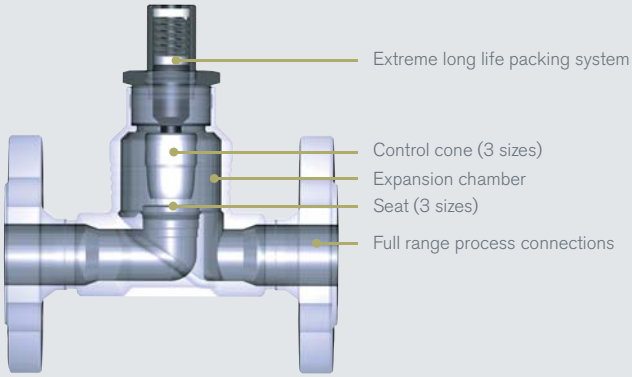


Technical Data

Angle seat	2300 ELEMENT
Pressure range	0 - 16 bar max.
Temperature media	-10 °C – +185 °C (+130 °C for PTFE seat seal)
Ambient temperature max.	+55 °C, max.
Body material	316L stainless steel
Seal material	Stainless steel
Actuator material	Stainless steel/PPS
Control medium	Instrument air at 5.5…7 bar
Flow direction	Under seat anti water-hammer
Port connection	G-threads, weld ends, flanges
Safe position	Normally closed

Sectional Drawings





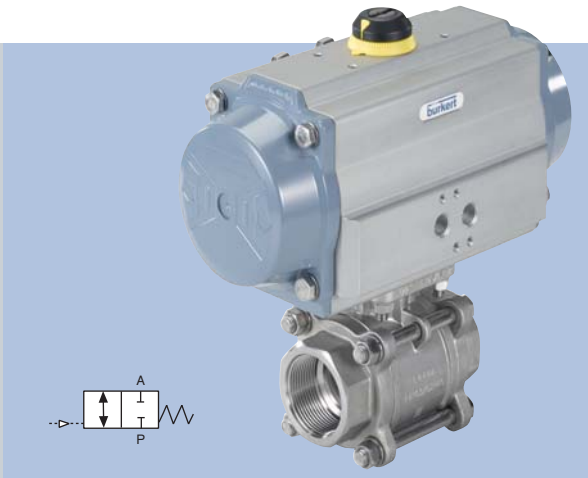
Ordering charts

Size [inch]	Orifice [mm]	Kv value [m³/h]	Actuator Ø [mm]	Operating pressure [bar]	Item no. with 8692 Positioner		Item no. with 8693 Process Controller	
Angle Control Valve (2300 + 8692/3), normally closed								
G Thread connection (new short body)								
1/2	13	5	70	16		229 270		228 611
3/4	20	10	70	16		229 272		229 415
1	25	16	90	16		229 279		229 416
1 1/4	32	23	90	16		229 275		229 417
1 1/2	40	36	130	16		229 280		229 419
2	50	53	130	16		229 281		229 420
Globe Control Valve (2301 + 8692/3), normally closed								
Flange connection acc. to DIN EN 1092-1								
1/2	15	4.3	70	16		225 353		232 010
3/4	20	7.1	70	16		219 164		229 461
1	25	12.0	90	16		229 422		229 462
1 1/4	32	13.6	90	16		219 166		229 464
1 1/2	40	23.8	130	16		229 423		229 465
2	50	37.0	130	16		229 424		229 467

On-Off Ball Valve Packages

G 1/4” - G 4”, 0-63 bar

- Full bore
- Plug and play
- Three-piece stainless steel ball valve



Quarter turn solutions can be deployed for high pressure or high temperature applications. Ball valves are industry proven in a wide range of applications and are particularly suitable for applications where low cycles and high reliability is required. These valves are standard 3-piece design with the advantage of either an on-off actuation package including a NAMUR solenoid valve or integrated valve positioner and process controller.

Technical Data

Pressure range	0-63 bar (see pressure/temperature diagram)
Temperature media	Up to +100 °C (see pressure/temperature diagram)
Body material	Stainless steel 1.4408 and 1.4401
Seal material	PTFE
Port connection	G-thread

Optionen/Zubehör

- Actuator normally opened or double acting
- Feedback
- NAMUR see p. 37 - Pilot valve see p.36

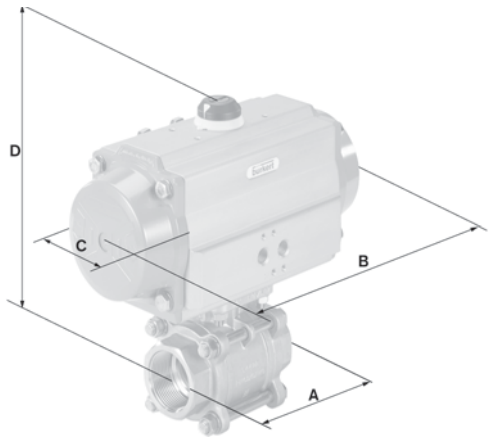
Ordering chart

Type 8805 with 3 piece threaded					
Orifice [mm]	**Port connection [inch]**	**Actuator**	**Kv Value [m³/h]**	**Pressure range * [bar]**	**Item no.**
10	G 1/4	15	9	0-63	217 250
12	G 3/8	15	9	0-63	217 251
15	G 1/2	30	19	0-63	217 252
20	G 3/4	30	46	0-63	217 253
25	G 1	60	72	0-63	217 254
32	G 1 1/4	60	105	0-63	217 255
40	G 1 1/2	100	170	0-63	217 256
50	G 2	100	275	0-63	217 257
63	G 2 1/2	150	507	0-63	217 258
80	G 3	220	905	0-63	217 259
100	G 4	300	1414	0-63	217 260

* see pressure/temperature diagram

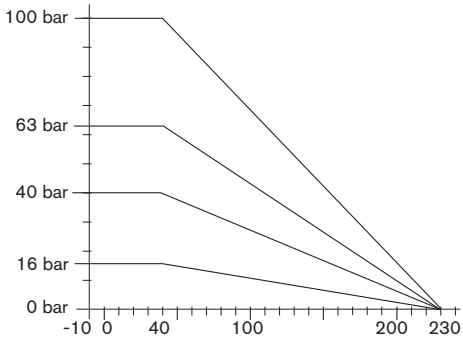
Envelope Dimensions [mm]

(see datasheet for details)



Size	A	B	C	D
G 1/4”	65	136	72	129
G 3/8”	65	136	72	129
G 1/2”	75	154	85	145
G 3/4”	80	154	85	145
G 1”	90	204	93	174
G 1 1/4”	110	204	93	174
G 1 1/2”	120	241	106	203
G 2”	140	241	106	203
G 2 1/2”	185	259	119	245
G 3”	205	304	136	285
G 4”	240	333	147	325

Pressure/temperature diagram



Control Tops and Feedback Packages for Pneumatically Actuated Valves



- Spring chamber vent
- Flushing function
- Optical position indicator
- Integrated air supply

These feedback switch and pilot packs fit in the ELEMENT range of accessories. Designed for uncompromising performance this new generation is even more rugged. For single and double acting actuators the SuperBRIGHT LEDs let you see the status of your process valves from a distance. Chemically resistant PPS housing is designed in accordance with EHEDG guidelines for use in hygienic environments. Features include simple one-touch setup and a compressed air flush system which means there is always a small positive pressure in the head to completely prevent atmospheric ingress. Simple connection to DeviceNet or AS-interface make this a leap forward in valve communication.

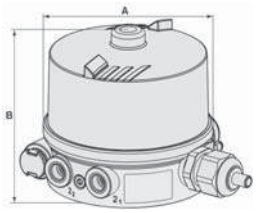
Technical Data

	8690	8691
Pilot valve	24 V DC ±10%, residual ripple 10% (no technical direct current); 1W	24 V DC ±10%, residual ripple 10% (no technical direct current); 2W
Micro switch	Max. 24 V DC, max. 2A	
Initiator	10 to 24 V DC, max. 100mA ext. load per initiator	PNP, 10 to 24 V DC, max. 100mA
Electrical connection	Cable gland or 8-pole M12	Cable gland or 8-pole M12 , AS-i Connect
Buses available	–	DeviceNet, AS-i
Optical feedback	–	SuperBRIGHT LED
Media	Instrument air	Instrument air
Body, Cover, Seal	PPS, PC, EPDM	PPS, PC, EPDM
Push in connector	(external Ø 6mm or 1/4") or threaded ports G 1/8	
Integrated filter	0.1mm	0.1mm
Supply pressure	3-7 bar g	3-7 bar g
Accreditations	IP65/67, CE, (CSA pending)	IP65/67, CE, CSA (pending)
Operating temperature	0 °C to +55 °C	0 °C to +55 °C
Ambient temperature	0 °C to +55 °C	0 °C to +55 °C

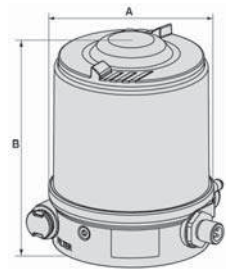
Envelope Dimensions [mm]

(see datasheet for details)

Type 8690



Type 8691



Type	A	B
8690	91	86
8691	91	119

Options

8690

- Versions for double acting actuators

8691

- Versions for double acting actuators

Note: Please call customer services or see datasheet for adapter for CLASSIC valves.

Ordering chart - 8690 (other versions on request)

Pilot Valves	Switches	Type	Item no. Cable Gland	Item no. M12
0	One switch	Mechanical	–	227 194
0	Two switches	Mechanical	227 196	227 197
1	One switch	Mechanical	227 229	227 231
1	Two switches	Mechanical	227 233	227 235
0	One switch	Inductive	–	227 187
0	Two switches	Inductive	–	227 191
1	One switch	Inductive	227 217	227 219
1	Two switches	Inductive	227 221	227 223

Adapter set for ELEMENT Valves	665 720

Ordering chart - 8691 (other versions on request)

Type	Item no. Cable Gland / AS-i Clip	Item no. M12
Inductive	227 261	227 263
Adapter for ELEMENT Valves	665 721	665 721
AS-Interface (Push-in 1/4")	227 259	227 256
DeviceNet (Push-in 1/4")	–	227 257

Adapter set for ELEMENT valves	665 721

Bürkert World of Sensor Solutions

Flow, Batch and Ratio



Paddle wheel
page 59 and 60



Paddle wheel transmitter
page 62 and 64



Insertion magmeter
page 68 and 69



Full bore magmeter
page 67



Batch controller
page 66

Level



Ultrasonic
page 74



Radar
page 71



Guided microwave
page 75



Tuning fork switch
page 70



Tuning fork switch
page 70

pH/ORP



Transmitter
page 80

Conductivity



Conductive version
page 81



Inductive version
page 84

Pressure



Switch/display
page 77



Blind Transmitter

Temperature



PT100 Switch/Display
page 78

Transmitters and Controllers



Single channel universal controller
page 82



Dual channel analysis controller
page 83

INLINE Flowmeter for Continuous Flow Measurement



For use with fitting DN15 - DN50

- Turn & Lock bayonet fitting isolates sensor from media
- Multiple material choices

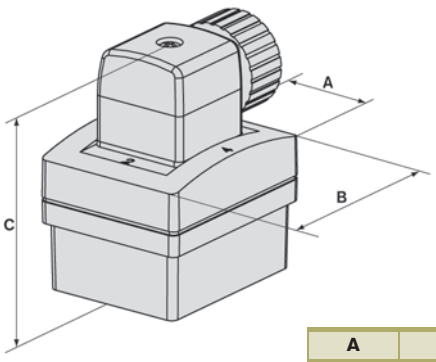
Please add fitting S030 from page 65

Unique bayonet style flow meter constructed from an SE30 sensor and an S030 flow fitting. Perfect for neutral, solid free liquids. A hall-effect sensor produces a square wave frequency proportional to the flow rate.

Technical Data (Standard)

SE30 housing material	Polycarbonate
Ambient temperature	-15 °C – +60 °C (+80 °C for HT version)
Voltage supply / Current	12…36 V DC / ≤ 30 mA
Max. cable length	50m shielded
Electrical connections	Cable plug acc. to EN 175301-803
Outputs	Transistor PNP and NPN, max. 100mA (max. 700 mA, for HT version)
Protection class	IP65, (with connector plugged-in)
Sensor size range	DN15 - DN50 with bayonet fitting
Flow velocity	0.3 – 10m/s (min. 0.5 for HT version)
Measuring error (stand. k-factor)	±(0.5% o.FS + 2.5% o.R) [±(1% o.FS + 3% o.R) for HT version*]
Linearity, Repeatability	± 0.5% o.FS (at 10m/s), 0.4% o.R.
Fitting materials	Brass, Stainless, PVC
Sensor materials	PVDF paddle wheel with ceramic bearings
O-rings	FKM
Max. fluid temperature	+100 °C (metal), +50 °C (PVC),
Max. fluid pressure	0-16 bar (metal), 0-10 bar (PVC)

Envelope Dimensions [mm] (see datasheet for details)



A	B	C
44	54	66

Ordering chart SE30

Description	Item no.
Hall	423 913
Hall (use with 8025)	423 914
High temperature *	449 694

*see separate datasheet below 8030 type selection

Options

- AS-i Connection
- Hygienic clamp and ASME weld end connections
- ANSI flange connection
- PVDF and PP fittings.
- High flow fittings (8020) to 16”
- Various sealing materials
- Individual calibration certificate

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

In-Line Flowmeter for Monitoring, Switching and Display

For use with fitting DN15 - 50

- Monitor, switch and transmit functions
- Large display
- Free configurable switching point

Please add fitting S030 from page 65



Unique bayonet style flow meter constructed from an SE32 transmitter and an S030 flow fitting. A large digital display with 3 button keypad and bar-graph make this perfect for neutral, solid free liquids. Hysteresis and goal-post switching make this an intelligent component in any flow control loop.

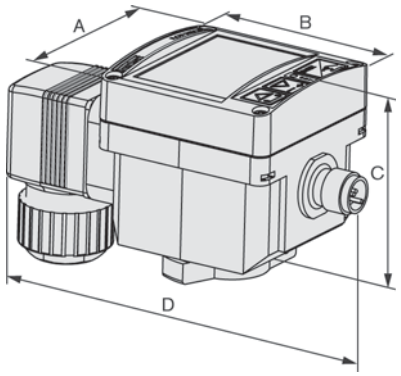
Technical Data

SE32 housing material	PC, glass fibre
Ambient temperature	-10 °C to +60 °C
Voltage supply / Current	12 … 36 V DC / ≤ 90 mA (no load)
Electrical protection	Short circuit and reversed polarity
Max. cable length	100m shielded
Electrical connections	Cable plug acc. to EN 175301-803 and/or M12
Outputs	NPN and/or PNP (selectable), 700 mA (500 mA pro Transistor per transistor if both transistor outputs are wired) NPN output: 0.2 … +36 V DC PNP output: Power supply Relays 3 A/250 V AC or 3 A/30 V DC; 3 A/48 V AC or 3 A/30 V DC[1]; Frequency 0 … 300 Hz 4 … 20 mA
Accuracy (Teach-In)	±1% at 10 m/s
Accuracy (Std. K-Factor)	± 1% o.FS +3% o.R.
Ingress protection	IP65 with connector plugged in and tightened correctly
Size range	DN15 - DN50 with bayonet fitting
Flow velocity	0.3 to 10m/s
Linearity /Repeatability	± 0.5% o.FS (at 10m/s), 0.4% o.R.
Fitting materials	Brass, Stainless, PVC
Sensor materials	PVDF paddle wheel with ceramic bearings
O-rings	FKM
Max. fluid temperature	+100 °C (metal), +50 °C (PVC)
Max. fluid pressure	0-16 bar (metal), 0-10 bar (PVC)

Options

- Wall or cabinet mounting
- AS-i Connection (on request)
- Hygienic clamp and ASME weld end connections
- ANSI flange connection
- PVDF and PP fittings
- Various sealing materials
- Individual calibration certificate,

Envelope Dimensions [mm] (compact version)



A	B	C	D
54	54	50	116

Ordering chart

Output	Connection	Item No
NPN	Cable plug	436 474
PNP	Cable plug	434 871
NPN & PNP	M12 connection	436 473
Relay	Cable plug & M12	436 475
4-20mA & Relay	Cable plug & M12	444 699

Connection	Type	Item No
5-pin M12 plug for NPN/PNP	Plug only	917 116
5-pin M12 plug for NPN/PNP	5m prewired	560 365
8-pin M12 plug for 4-20mA	Plug only	444 799
8-pin M12 plug for 4-20mA	10m prewired	553 578

Please note: other cable lengths on request

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Speed and quality

Bürkert provides many of its customers with total welded system solutions which are completely compliant. Our Quality Management Systems, Quality Assurance, Risk Assessment and Validation and Training all meet latest practices and combine with our manufacturing and engineering design teams to give you an optimum experience.



In-Line Flow Transmitter for Pipe Sizes to DN50 mm



For use with fitting DN15 - 50

- Up and download of the data through removable display
- Turn & Lock bayonet fitting

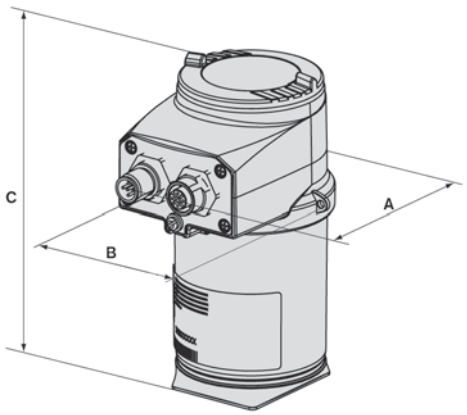
Please add fitting S030 from page 65

Unique bayonet style flow meter constructed from an SE36 sensor and any of the S030 fittings shown on page 65. This two-wire 4-20 mA INLINE flow meter is manufactured to provide true, reliable flow for neutral, solid free liquids. A backlit removable display allows the system to be flexible and adds more value.

Technical Data

Electronic module	
Housing material	Stainless steel, PPS, PC
Display	Removable dot matrix 128 x 64 with backlight
Ambient temperature	- 10 °C – +60 °C
Voltage supply	14...36 V DC for 2-wire models
Electrical protection	Short circuit protection Reversed polarity of DC protected
Electrical connections	M12
Outputs	4 ... 20 mA for flow rate Transistor output NPN and PNP, 700 mA
Output load max.	1100 Ω at 36 V DC 610 Ω at 24 V DC 180 Ω at 14 V DC
Ingress protection	IP65 and 67, NEMA4X
Integrated sensor and fitting module	
Size range	DN15 - 50 with bayonet fitting
Flow velocity	0.3 to 10m/s
Measuring error (teach in)	≤ ± 1% o.R (at 10m/s)
Measuring error (Std. k-factor)	≤ ± 2.5% o.R
Linearity	≤ ± 0.5% o.FS (at 10m/s)
Repeatability	0.4% o.R.
Fitting materials	PVC, PP, PVDF, Brass, Stainless, Stainless HT
Paddle wheel	PVDF
Axis and bearing	Ceramic
O-rings	FKM
Max. fluid temperature	+100 °C (metal), +50 °C (PVC)
Ambient temperature range	-10 to +60 °C
Max. fluid pressure	0-16 bar (metal), 0-10 bar (PVC)

Envelope Dimensions [mm] (see datasheet for details)



A	B	C
97	70	131

Options

- High flow rate (8026) to DN 350 mm
- Hygienic clamp and weld end connections
- ANSI/DIN flange connection
- Various sealing materials
- Individual calibration certificate
- Pre-wired cordsets and M12 connectors and cables

Ordering Chart for compact transmitter Type SE36

Specifications	Output	Electrical connection	Item no.	
			without display	with display
2 outputs	1 x transistor + 1 x 4-20mA (2 wire)	5-pin M12 male fixed connector	560 880	561 880
3 outputs	2 x transistor + 1 x 4-20mA (2 wire)	5-pin M12 male fixed connector	560 881	561 881
4 outputs	2 x transistor + 2 x 4-20mA (3 wire)	5-pin M12 male and 5-pin M12 female	560 882	561 882

Accessories

Description	Item No
Display/programming module	559 168
Electrical connector, 5-pin M12 male, plug only	560 946
Electrical connector, 5-pin M12 male, 2m prewired	559 177
Electrical connector, 5-pin M12 female, plug only	917 116
Electrical connector, 5-pin M12 female, 2m prewired	438 680

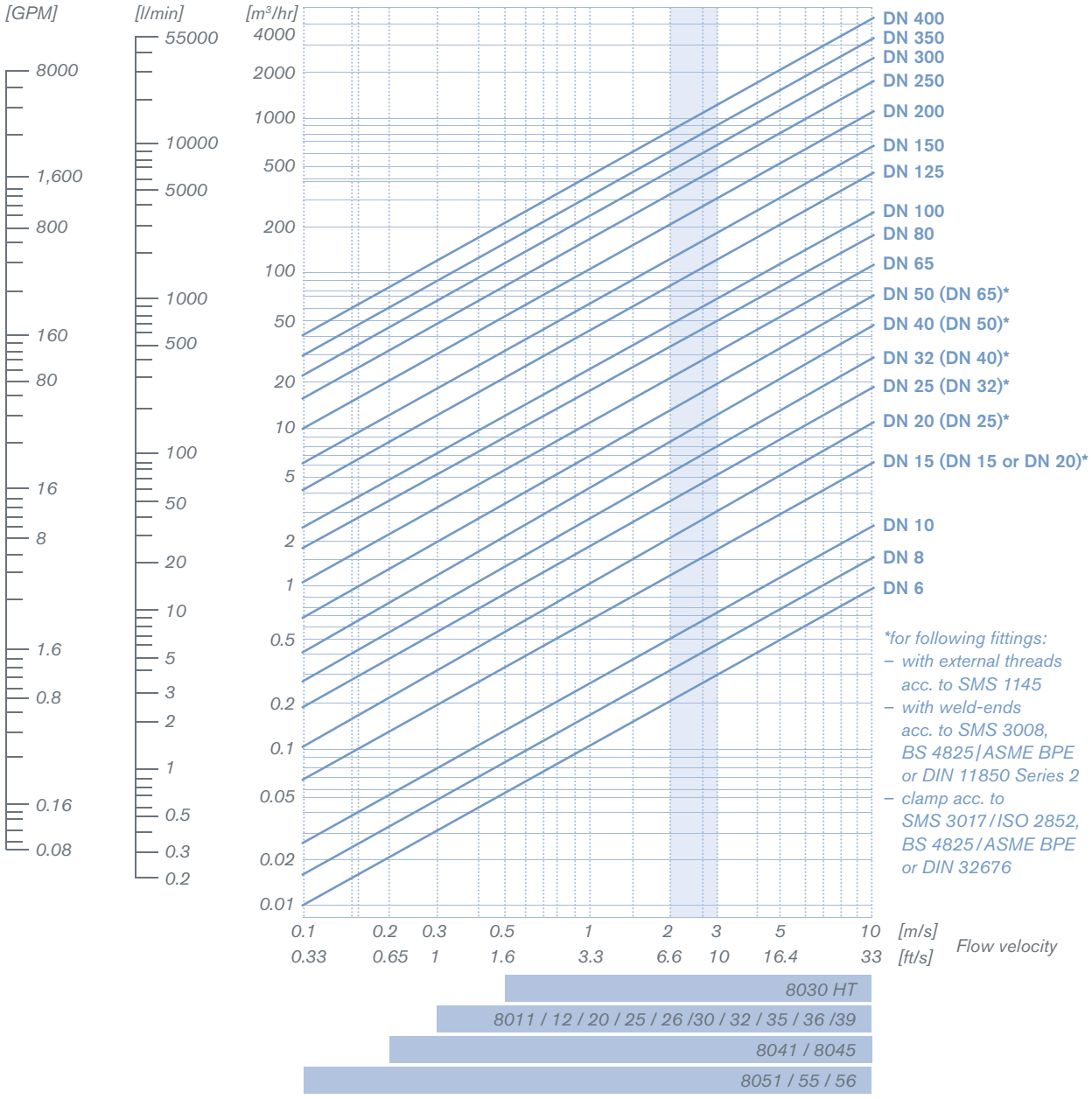
Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Selection Help – Flow Velocity Considerations

Depending on the sensor type, the right flow rate has to be chosen to get the best accuracy. The higher the flow velocity, the lower the measurement error, but the higher the pressure loss. The following chart will help you find the correct fitting diameter for your application depending on flow velocity and sensor technology. Pipes for fluids similar to water are generally designed for an average flow velocity of approx. 2 to 3 m/s or 6-10 ft/s.

Flow rate

Diagram for nominal diameter selection



Insertion Flow Transmitter for Pipe Sizes above DN50 mm



For use with fitting DN15-350, PN 10

- Up and download of the data through removable display
- Preferably, for pipe diameter greater than DN65

Please add fitting S020 from page 65

Insertion style flow meter provides a 4-20 mA output directly proportional to flow. A range of fittings from weld-o-lets to saddles makes these ELEMENT style transmitters perfect for neutral, solid free liquids. A backlit removable display with joystick programming makes commissioning a breeze.

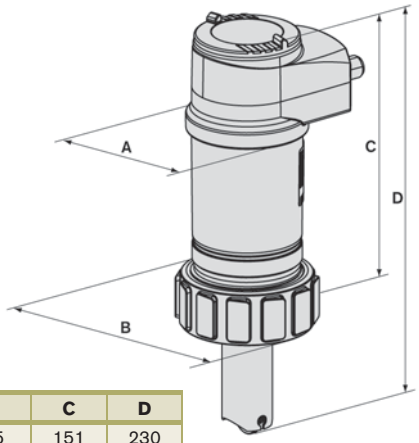
Technical Data

Insertion Flow Meter	
Size range	DN15-350
Display	Dot matrix 128 x 64 with backlight
Flow velocity	0.3 to 10m/s
Measuring error (teach in)	± 1% o.R
Measuring error (std. k-factor)	± 2.5% o.R
Linearity	± 0.5% o.FS (at 10m/s)
Repeatability	0.4% o.R.
Housing material	Stainless steel, PPS, PC
Paddle wheel	PVDF
Axis and bearing	Ceramic
O-rings	FKM as standard
Max. fluid temperature	+100 °C (also depends on piping material)
Ambient temperature range	-10 °C – +60 °C
Max. fluid pressure	0-10 bar
Voltage supply	14...36 V DC for 2-wire models
Electrical protection	Short circuit protection Reversed polarity of DC protected
Electrical connections	M12
Outputs	4 ... 20 mA for flow rate Transistor output NPN and PNP, 700 mA
Output load	< 1100 Ω at 36 V DC < 610 Ω at 24 V DC < 180 Ω at 14 V DC
Ingress protection	IP65 and 67, NEMA4X

Options

- PVC, PVDF and PP, St.st. and brass fitting
- Various sealing materials
- Individual calibration certificate
- Pre-wired connction ports, M12 plug and cable

Envelope Dimensions [mm] (see datasheet for details)



	A	B	C	D
Short	70	75	151	230
Long	70	75	151	268.5

Ordering Chart

(Fitting, display/control unit, please order plug separately)

Output	Electrical connection	Item no. with display	
		Short	Long
1 x transistor NPN + 1 x 4-20mA (2 wire)	5-pin M12 male	561 860	561 870
2 x transistor NPN/PNP + 1 x 4-20mA (2 wire)	5-pin M12 male	561 861	561 871
2 x transistor NPN/PNP + 2 x 4-20mA (3 wire)	5-pin M12 male and 5-pin M12 female	561 862	561 872
		without display	
1 x transistor NPN + 1 x 4-20mA (2 wire)	5-pin M12 male	560 860	560 870
2 x transistor NPN/PNP + 1 x 4-20mA (2 wire)	5-pin M12 male	560 861	560 871
2 x transistor NPN/PNP + 2 x 4-20mA (3 wire)	5-pin M12 male and 5-pin M12 female	560 862	560 872

Accessories

Description	Item No
Display/programming module	559 168
Electrical connector, 5-pin M12 male, plug only	560 946
Electrical connector, 5-pin M12 male, 2m prewired	559 177
Electrical connector, 5-pin M12 female, plug only	917 116
Electrical connector, 5-pin M12 female, 2m prewired	438 680

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com



INLINE S030, INSERTION S020 fitting

- Wide range of materials and process connections
- S020 up to DN400
- Metal up to 16 bar
- Plastic up to 10 bar

Ordering Chart

S030 (for **SE30** see p59**, SE32** see p60, **SE36** see p62)

Size DN	Item no. PVC (DIN) true union	Brass G internal thread	Stainless G internal thread	Stainless G internal thread High temp.	PVDF ISO 10931	St.St. Hygienic Clamp	St.St. BS4825	DIN EN 1092-1
15	423 938	423 980	424 004	449 726	423 968	–	–	424 040
20	423 939	423 981	424 005	449 727	423 969	443 395	443 369	424 041
25	423 940	423 982	424 006	449 728	423 970	443 396	443 370	424 042
32	423 941	423 983	424 007	449 729	423 971	–	443 371	424 043
40	423 942	423 984	424 008	449 730	423 972	443 397	443 372	424 044
50	423 943	423 985	424 009	449 731	423 973	443 398	443 373	424 045
65	–	–	–	–	–	443 399	443 374	–

Ordering Chart

S020 (for **8026** see p64, **8041** see p68, **8045** see p69) **- Short sensor** **Long sensor**

Size DN	Item no. PVC (DIN) true union, FKM	Brass G internal thread, FKM	Stainless G internal thread, FKM	St.St. welding tab	PP saddle EPDM
15	428 670	428 712	428 736		
20	428 671	428 713	428 737		
25	428 672	428 714	428 738		
32	428 673	428 715	428 739		
40	428 674	428 716	428 740		
50	428 675	428 717	428 741	418 111	425 138
65				418 112	425 139
80				418 113	425 140
100				418 114	425 141
125				418 115	425 143
150				418 116	425 144
200				418 117	425 416
250				418 756	
300				420 070	
350				416 637	

Note: Further versions on request, see datasheets, Type SO20, Type SO30

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Batch Controller for panel or wall mounting

7 batch sizes, 2 relay outputs

- Controls 7 batches automatically
- Fast fill and fine control for accuracy
- Shows both flow rate and volume

Please add flow sensor 8020, 8030, 8070



Unique batch controller for accurate filling of liquids. This universal IP65 controller is wall mounted and compatible with all sensors with an open collector pulse, relay reed, TTL, CMOS or coil output.

Technical data

Housing material	ABS, PC*
Front panel foil	Polyester
Screws	Stainless Steel
Cable gland	PA
Ambient temperature	0 °C – +60 °C
Display	15 x 60mm, 8–digit LCD, alphanumeric, 15 segments, 9mm high
Voltage supply	12–30 V DC or 115/230 V AC, 50-60 Hz
Current consumption max.	≤ 70 mA without consumption of inputs/outputs
Electrical protection	Reversed polarity of DC protected
Compatibility with Bürkert sensors	Any Bürkert flow sensor with frequency output (8020, 8030, 8030HT, 8041, 8031, 8070, 8071)
Compatibility with other sensors	Any open collector NPN, coil, TTL, CMOS
Electrical connections	PG Cable glands (wall version)
Outputs	2 relays, freely programmable, 3A, 230 V AC
Flow input frequency	2.5 Hz up to 700 Hz
Sensor power supply	12...30, or 0...18 V DC, 100 mA max. (24 V DC Version); +15 V DC or +27 V DC , 25 mA max. (115 V AC version)
Ingress protection	IP65, IP65 (front)*

* Panel mount version.

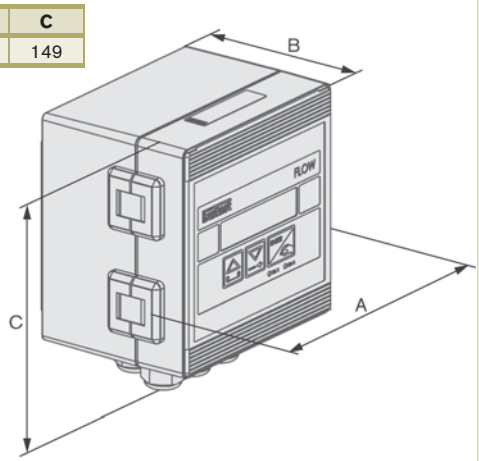
Options

- Compact inline mount

Envelope Dimensions [mm] (see datasheet for details)

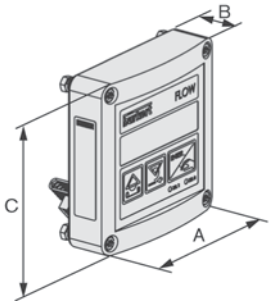
Wall Mount

A	B	C
126	90	149



Panel Mount

A	B	C
88	25	88



Ordering Chart

Description	Totalizers	Relays	Connection	Item no.	
				12-30 V DC	115-230 V AC
Wall mount	2	2 x 3 A	5 x PG 13.5 cable gland	433 740	433 741
Panel mount (CSA)	2	2 x 3 A	Terminal strip	419 536	–

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Full bore INLINE Magmeter



Shown is the remote flanged sensor and the hygienic clamp compact version

DN3 - 200, up to 16 bar

- High frequency sampling
- Flow or Batch Control
- Compact or remote version
- 3 different electronics can be connected to 4 different types of sensors

These full bore magmeters accurately measure the flow of liquids with conductivities as low as 5 µS/cm with or without solids. Varied application environments such as water, wastewater, sludge, slurries, pastes, acids, alkalis, juices, fruit pulp can easily be handled. This extremely robust, time tested design incorporates the latest electronics and when combined with a valve as the actuating element they can control high-precision dosing operations. A simple HMI and a wide range of materials, measuring tube liners and process connections makes this a simple choice.

Technical Data (with standard compact version SE56)

Housing material	Die cast aluminium or 304 Stainless steel
Ambient temperature	-20 °C – +60 °C
Voltage supply	90...265 V AC
Electrical connections	6 cable glands PG11
Outputs	1 x 4-20mA 2 x transistor (40V DC, 100mA, Fmax=1250Hz)
Input	1 x digital (selectable function)
Ingress protection	IP65 and IP67
Approvals	CE
Size range	DN3 - 200 (depending on type of sensor)
Flow velocity	0.4 to 10m/s
Measuring error	± 0.2% of Reading (for liquid velocity > 1m/s)
Linearity	± 0.5% o.FS (at 10m/s)
Repeatability	Repeatability better than 0.1%
Electrode material	St.St. 316L (2 or 3; Hastelloy C / Titanium / Tantalum / Platinum - Rhodium on request)
Minimum conductivity	5 µS/cm
Seal	FKM
Max. fluid temperature	+100 °C (compact), 130 °C (remote) with PTFE lining +60 °C (compact and remote) with PP lining
Max. fluid pressure	PN16

Options

- Various sealing materials
- Larger sizes are available as standard
- Individual calibration certificate
- Other options Remote versions (10/20m cable, IP68), blind version
- St.St. body and EN or ANSI/DIN flanges for S055
- PTFE lining and PN40 pressure class for S054 and S055
- 2 relay outputs NO/NC 2A-250V AC, 60W 125V AC
- Hart, Profibus, RS232, RS485

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

System Architecture



SO51
SO54
SO55
SO56

SE56 (St.St.)
SE56 (Al)
SE56 Basic (PA6)

8051
8054
8055
8056

For dimensions please see datasheet

Ordering Chart

Transmitter / Batch Controller Electronics - SE56				**Item no.**
Stainless steel				558 306
Aluminium				558 747

INLINE Flow Meter				
Connection [inch]	**Orifice [mm]**	**Flow Range**	**Lining**	**Item no.**
ISO 228-1 INLINE meter fitting - S051 - Stainless steel body				
1/8"	3	0...250 l/h	PTFE	554 321
1/4"	6	0...1000 l/h	PTFE	553 065
3/8"	10	0...3000 l/h	PTFE	553 374
1/2"	15	0...6000 l/h	PTFE	553 481
3/4"	20	0...12500 l/h	PTFE	553 539
DIN 2501 INLINE meter fitting - S055 - Carbon steel body				
1"	25	0...18 m³/h	PP	553 540
1 1/2"	40	0...45 m³/h	PP	553 542
2"	50	0...72 m³/h	PP	553 485
2 1/2"	65	0...120 m³/h	PP	553 393
3"	80	0...180 m³/h	PP	553 394
4"	100	0...280 m³/h	PP	553 489
6"	150	0...640 m³/h	PP	557 512
BS4825 Hygienic clamp INLINE meter fitting - S056 St.St. body				
1/8"	3	0...250 l/h	PTFE	559 786
1/4"	6	0...1000 l/h	PTFE	553 325
3/8"	10	0...3000 l/h	PTFE	554 350
1/2"	15	0...6000 l/h	PTFE	553 533
3/4"	20	0...12500 l/h	PTFE	553 534
1"	25	0...18 m³/h	PTFE	553 535
1 1/2"	40	0...45 m³/h	PTFE	553 536
2"	50	0...72 m³/h	PTFE	553 537
2 1/2"	65	0...120 m³/h	PTFE	553 538
3"	80	0...180 m³/h	PTFE	559 791

Blind Insertion Magmeter in PVDF

For use with fitting DN15-350, up to 16 bar

- Solid state technology
- Clean in place
- FDA approved

Please add fitting S020 from page 65

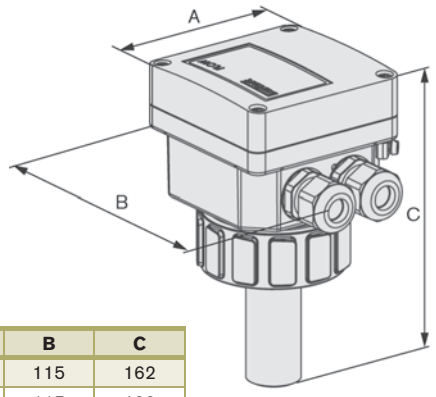


Insertion magmeter constructed from a PVDF finger and high quality blind electronic module. Perfect for contaminated or aggressive fluids it has both 4 to 20 mA and pulse output, with optional 3A relays, making this a flexible solution for flow control or batching

Technical Data

Size range	DN15-350
Flow velocity	0.2 - 10m/s
Measuring error (teach in)	±2% o.R. (1-10m/s)
Measuring error (standard k-factor)	±4% o.R. (1-10m/s)
Linearity	±(1% o.R. + 0.1% o.FS)
Repeatability	±0.25% o.R.
Housing material	PC+20% glass fibre
Electrode material	316L St.St.
Mag-sensor material	PVDF
O-rings	FKM (FDA compliant)
Max. fluid temperature	+80 °C
Ambient temperature range	-10 °C – +60 °C
Max. fluid pressure	10 bar - PVDF 16 bar - St. st.
Fluid conductivity	> 20 µS/cm
Storage temperature	-20 °C – +60 °C
Voltage supply	18…36 V DC
Current consumption max.	≤ 220 mA
Electrical protection	Short circuit protection Reversed polarity of DC protected
Electrical connections	M20 cable glands
Outputs	4 … 20 mA Transistor, max. 100mA, frequency 0…240 Hz Relay output 3 A/250 V AC
Output load	Max. 1100 Ω at 36 V AC Max. 330 Ω at 18 V AC
Ingress protection	IP65

Envelope Dimensions [mm] (see datasheet for details)



	A	B	C
Short	88	115	162
Long	88	115	199

Options

- Stainless steel finger for +150 °C and 16 bar with PPA housing
- FDA approved wetted materials, - Hastelloy C Electrodes

Ordering Chart Transmitter Type 8041

Output	Relay	Housing material	Gaskets	Sensor version	Electrical connection	Item no.
4-20 mA, frequency	1	PC	FKM	short, PVDF	2 cable glands	558 064
				long, PVDF	2 cable glands	558 065
		PPA	FKM	short, stainless steel	2 cable glands	552 779
				long, stainless steel	2 cable glands	552 780

Note: 1 Kit 558 102, 1 relay connection kit 552 812 and 1 EPDM seal are supplied with each transmitter.

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Insertion Magmeter in Stainless Steel



For use with fitting DN15 - 350

- Simple to read display
- Easy push button menu
- Clean in place FDA approved

Please add fitting S020 from page 65

With a stainless steel insertion finger and high quality electronic display module this unit is perfect for contaminated or aggressive fluids. 4 to 20 mA and pulse output with optional 3A relays makes this a flexible solution for flow control, batching or CIP control in FDA applications.

Technical Data

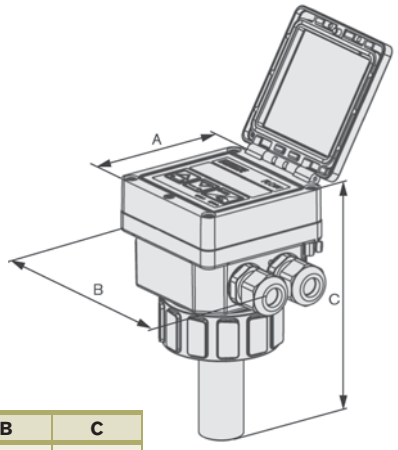
Size range	DN15 - 350
Flow velocity	0.2 – 10m/s
Measuring error (teach in)	±2% o.R. (1 – 10m/s)
Measuring error	±4% o.R. (1 – 10m/s)
Linearity	±(1% o.R. + 0.1% o.FS)
Repeatability	±0.25% o.R.
Housing material	PPA
Electrode material	316L St.St.
Mag-sensor material	316L St.St. (FDA compliant) / PVDF
O-rings	FKM
Max. fluid temperature	+80 °C (PVDF-Sensor probe)* +110 °C (St.st-Sensor probe)*
Ambient temperature range	-10 °C – +60 °C
Max. fluid pressure	0 - 10 bar (PVDF-Sensor probe)* 0 - 16 bar (St.st-Sensor probe)*
Fluid conductivity	> 20 µS/cm
Voltage supply	18…36 V DC
Current consumption max.	≤ 300 mA
Electrical protection	Short circuit and reversed polarity protected
Electrical connections	M20 cable glands
Outputs	4 ... 20 mA Transistor, max. 100mA, frequency 0...240 Hz Relay output 3 A/250 V AC
Output load	Max. 1300 Ω at 30 V Max. 700 Ω at 18 V
Ingress protection	IP65

*dependent on fitting

Options

- PVDF finger for +80 °C and 6 bar with PC housing
- Hastelloy electrodes

Envelope Dimensions [mm] (see datasheet for details)



	A	B	C
Short	88	115	160
Long	88	115	197

Ordering Chart (please order fitting separately)

Relays	Housing material	Sensor version	Item no.
No	PC	Short, PVDF	426 498
		Long, PVDF	426 499
2		Short, PVDF	426 506
		Long, PVDF	426 507
No	PPA	Short, Stainless Steel (FDA)	449 670
		Long, Stainless Steel (FDA)	449 672
2		Short, Stainless Steel (FDA)	449 671
		Long, Stainless Steel (FDA)	449 673

Note: Delivered with 1 set 551 775 and 1 EPDM seal.

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Tuning-Fork Level Switch

G 3/4", G 1" and clamp 2", up to 64 bar

- For universal use as overfill or dry run protection system
- Hygienic surface finish
- Extension tubes available



Type 8110



Type 8111

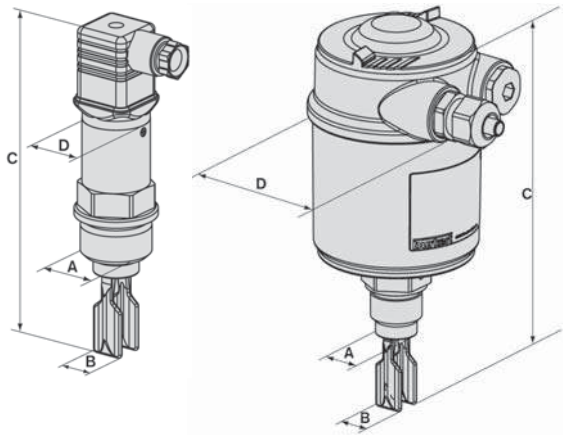
8110 - Level switch tuning fork in a compact stainless steel design. Simple setup without adjustment makes this perfect for deployment into process environments. The 40mm fork offers a clear, reliable measurement and high immunity to turbulence, foam, air bubbles and buildup.

8111 - Tuning fork relay switch for rugged process environments. SuperBRIGHT visual output lets the user know the status from a distance. This device provides peace of mind from overfill or run dry and can be installed in utility or clean tanks and pipes.

Technical Data

Type	8110	8111
Process connection	G 3/4, G 1 or Clamp 2"	G 3/4, G 1 or Clamp 2"
Max. fluid temperature	+100 °C G +150 °C Clamp	+150 °C G +150 °C Clamp
Materials	Stainless / PEI housing Stainless steel forks KLINGERSIL® seal	Stainless / PBT housing Stainless steel forks KLINGERSIL® seal
Max. fluid pressure	64 bar	64 bar
Voltage supply	10…55 V DC / max. 0.5 W	20…253 V AC (5 A), 50-60 Hz, or 20…72 V DC
Electrical connections	M12	M20 cable glands
Outputs	Transistor output PNP, 250 mA	Relay (DPDT), 2 floating SPDTs
Ingress protection	IP66 and 67	IP66 and 67

Envelope Dimensions [mm] (see datasheet for details)



Type	A	B	C	D
8110	3/4" G	16	158	31.7
	1" G	16	161	31.7
	2" clamp	16	165	31.7
8111	3/4" G	16	210	91
	1" G	16	214	91
	2" clamp	16	213	91

Options

8110

- DIN 11851, Flange, SMS
- Higher temperatures on request

8111

- Various length extensions (8112)
- ATEX approvals
- DIN 11851, Flange, SMS
- ECTFE, enamel, Hastelloy C4 or PFA
- Higher temperatures on request

Ordering Chart

Process connection	Electrical connection	Item no.
8110		
G 3/4" ISO 228	Multipin M12	555 290
G 1" ISO 228	Multipin M12	555 292
Clamp 2"	Multipin M12	555 294
8111		
G 3/4" ISO 228	2 x M20 glands	558 110
G 1" ISO 228	2 x M20 glands	558 112
Clamp 2"	2 x M20 glands	558 114

Extension tubes are available (see datasheet 8112).

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com



Type 8137

Type 8138

G thread or flange connection

- Measures up to 30 m
- High Pressure Version
- Two-wire

Radar level transmitter for aggressive media and high pressure. A sleek, compact stainless steel design incorporates a 2-wire HART transmitter which is easily PC configurable.

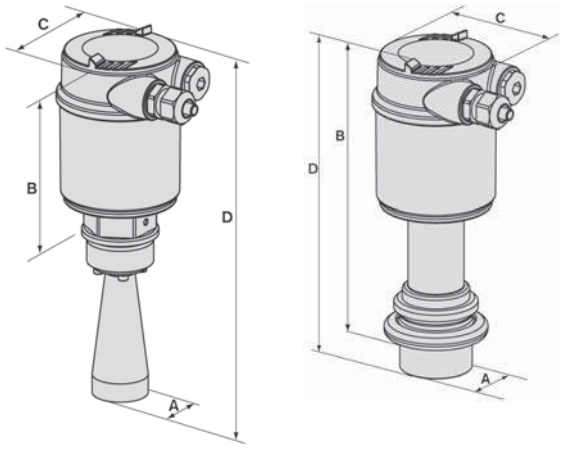
Technical Data

Housing / Cover	PBT, Stainless steel 316L / PC
Seal ring / Ground terminal	NBR / Stainless steel 316Ti/316L (1.4571/1.4435)
Seal	KLINGERSIL® C-4400 (8137), EPDM (8138)
Antenna / cone	Stainless steel 316L (8137), TFM™ PTFE (8138) / PTFE (8137)
Seal (antenna system)	FKM (8137), EPDM (8138)
Display	LCD in full dot matrix
Ambient temperature	-40 °C – +80 °C
Voltage supply	2-wire, 14 to 36 V DC
Current consumption max.	22 mA
Electrical connections	Cable glands M20 x 1.5
Outputs	4...20 mA/HART
Dead zone	50mm
Measuring range (40mm antenna)	50mm to 10m
Accuracy	± 3mm
Min. dielectric	εr > 1.6
Temperature coefficient	0.03%/10K
Ingress protection	IP66, IP67

Options

- Ex versions (part numbers are shown, please see datasheets for details)
- 30m measuring with 75mm antenna
- Other hygienic fittings

Envelope Dimensions [mm] (see datasheet for details)



Type	A	B	C	D
8137	40	157	80.5	279
8138	CLAMP 2"	218	80.5	226

Ordering Chart

Area	Process connection	Electrical connection	Item no.
8137			
Standard	G 1 1/2 ISO 228	M20 cable gland	560 157
Standard	Flange DIN 2301 DN50	M20 cable gland	560 161
Ex	G 1 1/2 ISO 228	M20 cable gland	560 158
Ex	Flange DIN 2301 DN50	M20 cable gland	560 162
8138			
Standard	Clamp 2"	M20 cable gland	560 169
Ex	Clamp 2"	M20 cable gland	560 170

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

System Competence - Perfect Solutions

Bürkert has a unique perspective in the process control and instrumentation industry as we are the only single brand which combines a complete range of valves, instruments, pneumatic actuation, networking and controllers from a single source.
With our dedicated world-class engineers and our superlative manufacturing facilities we can deliver systems which meet your exact requirements.

Your reliable Bürkert sales consultant and our system engineers workin together to ask the right questions and provide the right hardware. Transparent operations, up to date situation reports, review procedure, engineering change notices, portals through SAP and secure Intranet are normal in our projects.
For a world class system experience, insist on Bürkert people to be part of your next project.



Connect

As a globally flexible company we are the partner of choice for fluid control systems. Following our principle of "one face to the customer", you have a competent, reliable consultant by your side at all times, who listens to your needs and presents a solution in your daily application language … crossing conventional boundaries and creating synergies between industries in pursuit of your ideal solution.



Conceive & Innovate

Your project team starts working for you: from your reliable sales consultant, qualified industry specialists to dedicated system engineers – Bürkert puts the necessary experts together and for the entire duration of the project they work together, combining their experience and clarifying all the requirements in close cooperation with you to come up with a feasible draft of your solution within the shortest time frame.



Plan & Specify

In Phase 3 the project is planned in detail. A specification sheet and refined solution concept are developed. This defines exactly what you expect from the system and what it must provide to ensure that all components meet your requirements. At the end of this phase you are presented with a detailed product definition, a production specification and precise commercial conditions and agreements. Structured project management based on open communication, effective coordination and thorough documentation ensures fast and reliable results.



Do & Check

Good communication, coordination and documentation at all project phases make sure that we are on the right track, developing the right solution, to allow us to quickly move on to prototyping. Thanks to the latest technology, we are able to build a prototype made of metal or plastic or a functional model, to test flow. We provide you with samples; we perform tests and, of course, obtain all the necessary local and global approvals to make sure the system can go to our production facilities.



Complete

Our work does not end with the perfect delivery of components and systems. We offer a comprehensive program to our global clients interlinking services ranging from maintenance and service contracts operator training and integrated logistics. Our customer service is available around the clock, offering support through Internet, telephone or our qualified, experienced people at your site. We aim to provide only the utmost in customer experience. Something you will tell your friends about.



G 2” connection

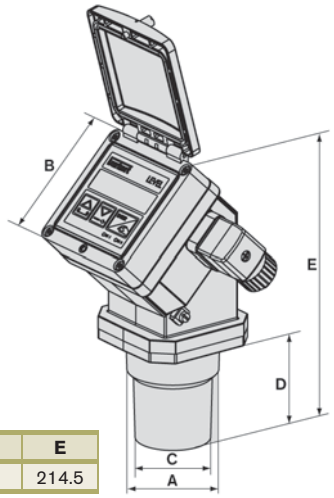
- Large display
- Simple setup and installation
- Remote tankside display available
- Measuring range up to 33 feet

General purpose non-contact level transmitter with chemically resistant PVDF antenna measures from 0.3 to 10 metres. Output is normally 4-20mA. Output with optional 3 A relays.

Technical Data

Housing, cover / Probe	PC / PVDF
Display	8-digit LCD display
Ambient temperature	-20 °C – +60 °C
Voltage supply	3-wire, 18 to 32 V DC (or 115/230 V AC)
Current consumption max.	≤ 200 mA
Electrical connections	2 x M20 glands, or EN175301-803 plug
Outputs	4...20 mA or 4...20 mA + 2 relays freely configurable 3A, 250 VDC/VAC
Output load max.	1300 Ohms at 32 V DC, 550 Ohms at 18 V DC, 1100 Ohms at 115/230 V AC
Dead zone	0.3m
Measuring range	30cm – 10m
Beam angle	16° conical
Accuracy	± 0.25% of the measurement range
Process pressure	2 bar
Ingress protection	IP65, IP67 (enclosure sensor)

Envelope Dimensions [mm] (see datasheet for details)



A	B	C	D	E
G 2”	88	49	70	214.5

Options

- Remote display
- Two wire version (8176)

Ordering Chart

Voltage	Output	Connection	Item no.
18-32V DC	4-20mA	EN175301-803 plug	430 822
18-32V DC	4-20mA	2 x M20 glands	430 823
18-32V DC	4-20mA + 2 relays	2 x M20 glands	430 824
115/230V AC	4-20mA	2 x M20 glands	430 825
115/230V AC	4-20mA + 2 relays	2 x M20 glands	430 826

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Ultrasonic Level Transmitter for General Application

G thread process connection

- Two-wire
- Reliable non-contact measurement
- HART configuration



Type 8176



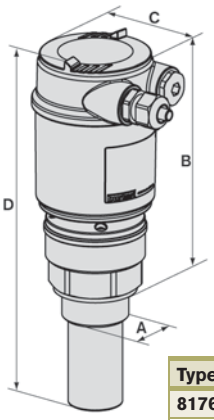
Type 8177

Ultrasonic level transmitters for non-contact measurement of process liquids and solids. Standard HART and 4-20mA HART compatible output.

Technical Data

Housing / Cover	PBT, Stainless steel 316L / PC
Seal ring / Ground terminal	NBR / Stainless steel 316Ti/316L (1.4571/1.4435)
Seal	EPDM
Transducer	PVDF
Display	LCD in full dot matrix
Ambient temperature	-20 °C – +70 °C
Voltage supply	2-wire, 14 to 36 V DC (10-30 VDC for Ex)
Current consumption max.	22 mA
Electrical connections	Cable glands M20 x 1.5
Outputs	4...20 mA/HART
Output load max.	See datasheet
Measuring range:	8176: up to 5m 8177: up to 8m
Beam angle	11°
Accuracy	< 0.2% or ± 4mm
Process temperature	-40 °C – +80 °C
Temperature coefficient	0.06%/10K
Ingress protection	IP66/IP67, with M20 x 1.5 gland mounted and tightened

Envelope Dimensions [mm] (see datasheet for details)



Type	A	B	C	D
8176	G 1 1/2"	187	80.5	275
8177	G 2"	190	80.5	274

Options

- Ex versions (part numbers are shown, please see datasheets for details)

Ordering Chart (versions with display)

Type	Process connection [inch]	Range (liquids)	Range (solids)	Electrical connection	Item no.
8176 Standard	G 1 1/2" ISO 228	0.25-5 m	0.25-2 m	M20 cable gland	558 220
8176 Ex	G 1 1/2" ISO 228	0.25-5 m	0.25-2 m	M20 cable gland	558 222
8177 Standard	G 2" ISO 228	0.4-8 m	0.4-3.5 m	M20 cable gland	558 224
8177 Ex	G 2" ISO 228	0.4-8 m	0.4-3.5 m	M20 cable gland	558 226

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Microwave Level Transmitter for General Application



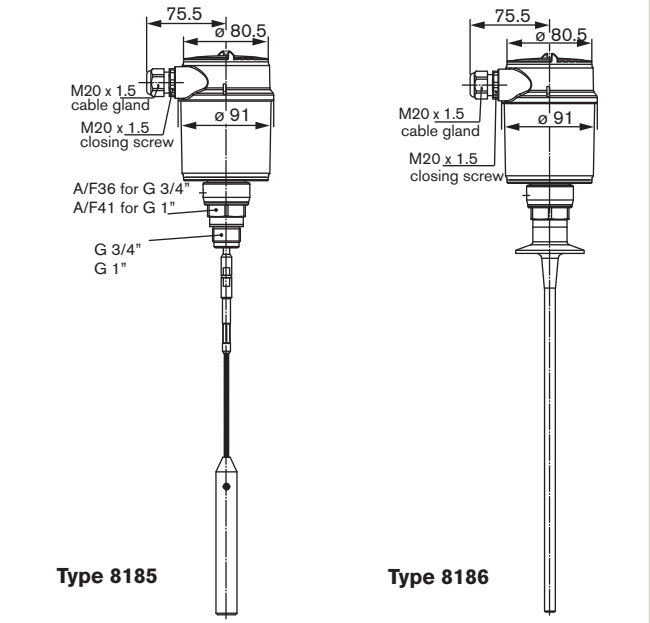
- For liquids and bulk materials
- Rod or cable versions
- Two-wire

Guided radar level transmitter for aggressive media and high pressure. A sleek, compact stainless steel design incorporates a 2-wire HART transmitter which is easily PC configurable.

Technical Data

Housing / Cover	PBT, Stainless steel 316L / PC
Seal ring / Ground terminal	NBR / Stainless steel /316L
Conductor	Stainless steel 1.4462 (8185), ST ST 316L (8186)
Display	LCD in full dot matrix
Ambient temperature	-20 °C – +70 °C
Voltage supply	2-wire, 14 to 36 V DC (10-30 VDC for Ex)
Current consumption max.	22 mA
Electrical connections	Cable glands M20 x 1.5
Outputs	4...20 mA/HART
Output load max.	See datasheet
Dead zone	From top to probe: 80mm (150mm with Cable) From bottom of the probe: 0mm (250mm with cable)
Measuring range	0.08m to 4m with 8185 rod 0.15m to 32m with 8185 cable 0.08m to 4m with 8186
Accuracy	± 3mm (See drawing in datasheet)
Min. dielectric	εr > 1.6
Process temperature	-40 °C to +150 °C
Temperature coefficient	0.06% /10K
Ingress protection	IP66/IP67, with M20 x 1.5 gland mounted and tightened

Envelope Dimensions [mm] (see datasheet for details)



Options

- Ex versions (part numbers are shown, please see datasheets for details)
- Other hygienic fittings

Ordering Chart

Type	Location	Process connection	Type	Length	Electrical connection	Item no.
8185	Standard	G 3/4" ISO 228	Rod	1 m	M20 cable gland	558 229
	Standard	G 3/4" ISO 228	Rod	2 m	M20 cable gland	558 233
	Standard	G 3/4" ISO 228	Cable	5 m	M20 cable gland	558 241
	Standard	G 3/4" ISO 228	Cable	10 m	M20 cable gland	558 245
	Standard	G 1" ISO 228	Rod	1 m	M20 cable gland	558 231
	Standard	G 1" ISO 228	Rod	2 m	M20 cable gland	558 235
	Standard	G 1" ISO 228	Cable	5 m	M20 cable gland	558 243
	Standard	G 1" ISO 228	Cable	10 m	M20 cable gland	558 247
Ex versions also available						
8186	Standard	Clamp 2"	Rod	1 m	M20 cable gland	558 253
	Standard	Clamp 2"	Rod	2 m	M20 cable gland	558 255
	Ex	Clamp 2"	Rod	1 m	M20 cable gland	558 257
	Ex	Clamp 2"	Rod	2 m	M20 cable gland	558 259

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Future good manufacturing practice

Our unique products provide the chance to enhance overall plant performance, make the very best of your space envelope, reduce and even eliminate dead space to optimise cleaning and ultimately achieve a higher product yield. We provide advantages during IQ, OQ and PQ and help you to stay ahead of the Process Analytical Technology field.





Intelligent Pressure Measurement

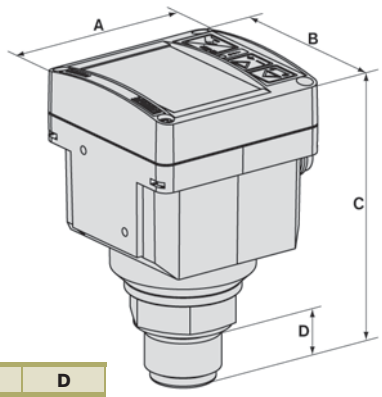
- Accurate, reliable pressure measurement and switch
- Switch for alarm or event logging
- Bar graph display for local monitoring
- Continuous or on/off control
- 2-wire transmitter

Programmable pressure sensor with switching and transmitting functions. It has a large display with bar graph and simple menu guided controls. Connection to the process with standard stainless steel connection and it can be set up with alarm, control or monitoring functions.

Technical Data

Measuring range	Up to 50 bar
Switching accuracy	±1.5% FS (for 0 °C < T < 70 °C) ±1%±0.03% FS/°C (for -20 °C < T < 0 °C and for 70 °C < T < 100 °C)
Medium temperature	-20 °C – +100 °C (+100 °C for an ambient temperature of max. +40 °C)
Repeatability	±0.06%
Housing, cover	PC+20% glass fibre
Sensor element	Ceramic cell
Wetted parts	316L stainless steel, ceramic / seal: FKM (EPDM optional)
Ambient temperature range	0 °C – +60 °C
Ingress protection	IP65
Voltage supply	12…30 V DC
Electrical protection	Reversed polarity of DC protected Short circuit protection
Current consumption max.	30 mA max. (+700 mA max. per transistor output used)
Max. cable length	164' shielded (50m)
Electrical connections	Cable plug Free positionable 5-pin, M12
Output	Transistor output 2 NPN or 2 PNP 700 mA NPN: [(V+) minus 0.5 VDC] - 0 VDC PNP: 0.5 VDC - (V+)

Envelope Dimensions [mm] (see datasheet for details)



A	B	C	D
54	54	92	18

Options

- Cable plug 2508,
- Outputs: Relay 3 A/250 or 3 A/30 V DC

Ordering Chart (Transmitter)

Pressure range	Electrical connection	Output	Burst Pressure [bar]	Max. Pressure [bar]	Item no.
0-1	Free positionable 5-pin, M12	4-20 mA + 2 NPN or 2 PNP [1)]	4	2	557 934
0-2	Free positionable 5-pin, M12	4-20 mA + 2 NPN or 2 PNP [1)]	7	4	444 507
0-5	Free positionable 5-pin, M12	4-20 mA + 2 NPN or 2 PNP [1)]	12	10	444 506
0-10	Free positionable 5-pin, M12	4-20 mA + 2 NPN or 2 PNP [1)]	25	20	444 503
0-20	Free positionable 5-pin, M12	4-20 mA + 2 NPN or 2 PNP [1)]	50	40	444 504
0-50	Free positionable 5-pin, M12	4-20 mA + 2 NPN or 2 PNP [1)]	120	100	444 505

[1)] PNP standard, can be change in NPN with jumpers on electronic board

Accessories for Type 8311	Item no.
5-pin M12 female cable connector with plastic threaded locking ring	917 116
5-pin M12 female connector moulded on cable (2 m, shielded)	438 680

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Temperature Transmitter / Switch

Intelligent temperature measurement

- Wide choice of connections and outputs
- Switch for alarm or event logging
- Bar graph display for local monitoring
- Accurate measurement and switch
- Continuous on/off control
- 2-wire transmitter



We offer a range of temperature control and measurement devices. Outputs are either Relay, 700 mA transistor, or 4 ... 20 mA, connections are G threads. The 8400 has a large LCD display.

Technical Data 8400 (8410 Details on Product Information Sheet)

Measuring range	-40 up to +125 °C (-40 to 257°F) (with ambient temperature between 0 and +40 °C (-32 and 104°F))
Switching accuracy	±0.5 °C (0.9 °F)(0 up to +80 °C (32 to 176 °F)) ±1.5 °C (2.7 °F)(outside of 0 up to +80 °C (32 to 176 °F))
Repeatability	0.40%
Housing material, cover	PC+20% glass fibre
Sensor element	Pt100
Wetted parts	316L stainless steel, FKM (seal)
Ambient temperature range	-20 °C – +60 °C
Ingress protection	IP65
Voltage supply	12…30 V DC
Electrical protection	Reversed polarity of DC protected
Current consumption max.	80 mA (no load)
Max. cable length	100m shielded
Electrical connections	Cable plug EN175301-803 Free positionable 5-pin, M12
Output	Transistor output NPN and PNP open collector 5…30 V DC, 700 mA

Ordering Chart - 8400

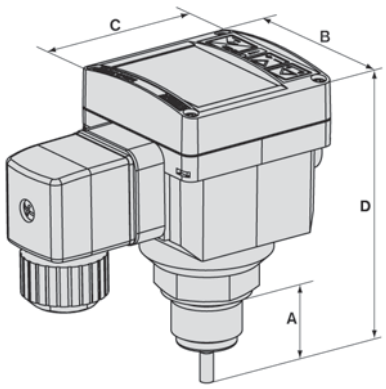
8400 Sensor/Switch for sensor connection G 1/2	Item no.
NPN and PNP, free positionable 5-pin M12	436 501

Accessory for ON/OFF Temperature Control System 8400	Item no.
5-pin M12 female connector moulded on cable (2m., shielded)	438 680

More Versions	Item nos.
Transmitter Version is available with 4 ... 20 mA output and relay in 8-pin M12 and cable plug EN175301-803 (please see datasheet for details)	444 696
Relay version is available, free positionable 5-pin M12 and cable plug EN175301-803 (please see datasheet for details)	436 503

Envelope Dimensions 8400 [mm]

(see datasheet for details)



A	B	C	D
29.5	54	54	103.5

Options

- 8400: Outputs : Relay 3 A/250 or 3 A/30 V DC

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Making your life simpler, our new versatile 8619 transmitters and controllers save you time and space in your world of pH, ORP, conductivity and flow. With an eye on data integrity, process safety and ease of use this modular architecture can be easily customised to meet your most exacting requirements. The 8619 is the most flexible multi-parameter transmitter on the market and it's intuitive interface and it's look and feel are unparalleled. Perfect Bürkert innovation for your process world.



pH Transmitter

- Accepts all standard pH probes
- Removable programming puck
- Data upload/download via puck
- With temperature compensation
- Diagnostic function

Please add fitting from page 85



pH transmitter with programmable outputs. pH and temperature output via single or dual analog 4-20 mA. Two transistor outputs are also included. Transmitters are engineered for a wide scope of measuring ranges and can be delivered in 2-wire or 3-wire configurations. Intelligent, integrated, beautiful design fits perfectly with an assortment of easily configured fittings.

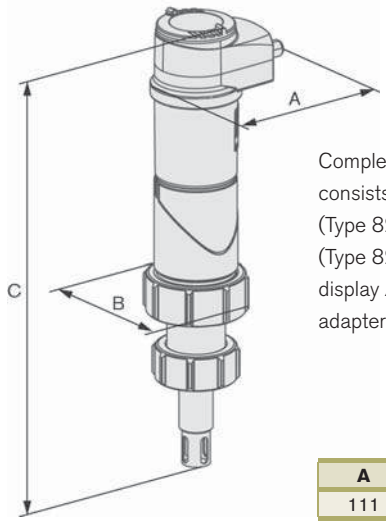
Technical Data

Measuring range	-2 ... 16pH
Measuring error	± 0.02pH
Temperature compensation	Automatic via integrated temperature sensor Pt. 1000
Temperature performance (via integrated Pt1000)	Measuring range -40 °C - +130 °C Measuring error ± 1 °C
Available fitting materials	Stainless, PP, PVC
Housing material	Stainless steel, PPS, PC
Insertion finger	PVDF
Gasket seal	EPDM
Max. fluid temperature	-20 °C - +130 °C (depending on fitting & pH probe)
Max. fluid pressure	0-16 bar
Ambient temperature	-10 °C – +60 °C
Storage temperature	-10 °C – +60 °C (without probe)
Ingress protection	IP65, IP67
Voltage supply	14...36 V DC for 2-wire models 12...36 V DC for 3-wire models
Electrical protection	Reversed polarity of DC and peak protected
Current consumption max.	1 A max. (with transistor load)
Electrical connections	1 x 5-pin M12 male (2-wire) 1 x 5-pin M12 male + 1 x 5-pin M12 female (3-wire)
Outputs	4-20 mA configurable temperature or pH 2 Transistors, configurable, open collector, 700 mA max., 0.5 A max. per transistor if the 2 transistor output are wired
Output load	1100 Ω at 36 V 610 Ω at 24 V 180 Ω at 14 V

Options

- Blind version (Neutrino)
- ORP: see datasheet 8202

Envelope Dimensions [mm] (see datasheet for details)



Complete pH transmitter consists of a pH Transmitter (Type 8202) a pH probe (Type 8203) a detachable display / control unit and an adapter (Type S022).

A	B	C
111	75	338

Ordering Chart

Transmitter				
Wiring	**Outputs**	**Nut**	**M12**	**Item no.**
2-wire	2 x transistors + 1 x 4-20 mA	PVC	5-pin male	559 630
2-wire	2 x transistors + 1 x 4-20 mA	PVDF	5-pin male	559 632
3-wire	2 x transistors + 2 x 4-20 mA	PVC	5-pin male + female	559 631
3-wire	2 x transistors + 2 x 4-20 mA	PVDF	5-pin male + female	559 633

Probe Type 8203 (many more available from stock for other applications)	**Item no.**
pH electrode 0... 130 °C, 0... 16 bar, pH 0... 14 - UNITRODE PLUS pH 120mm	560 376
pH electrode 0... 80 °C, 0... 6 bar, pH 0... 14 - FLATRODE pH 120mm	561 025

Accessories	**Item no.**
Display/programming module	559 168
Electrical connector, 5-pin M12 male, plug only	560 946
Electrical connector, 5-pin M12 male, 2m prewired	559 177
Electrical connector, 5-pin M12 female, plug only	917 116
Electrical connector, 5-pin M12 female, 2m prewired	438 680

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com



- Intuitive menu structure
- Removable programming puck
- Data upload / download via puck
- Diagnostic function

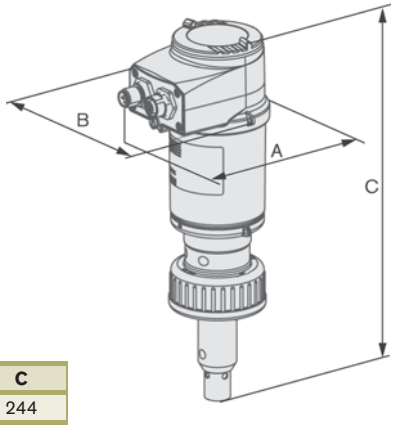
Please add fitting from page 85

Conductivity transmitter with programmable outputs. Conductivity and temperature output via single or dual analog 4-20 mA. Two transistor outputs are also included. Transmitters are engineered for a wide scope of measuring ranges and can be delivered in 2-wire or 3-wire configurations. Intelligent, integrated, beautiful design fits perfectly with an assortment of easily configured fittings.

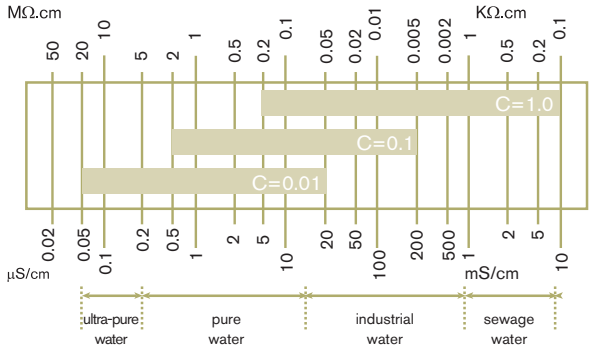
Technical Data

Measuring range Cond/T	0.05 µS/cm ... 10 mS/cm , -40 °C to +130 °C
Measuring error Cond/T	± 3% of measured value, ± 1 °C
Temperature compensation	Automatic via integrated temperature sensor acc. to a predefined graph (NaCl or ultra-pure water)
Available fitting materials	Stainless, PP, PVC
Housing material	Stainless steel, PPS, PC
Insertion finger	PVDF/St.St. for 0.01 or 0.1; graphite for 1.0
O-rings	EPDM
Fluid temperature	-20 °C - +100 °C (depending on fitting) (PVC 0 °C – +50 °C)
Max. fluid pressure	0-16 bar (depending on fitting)
Ambient temperature	-10 °C – +60 °C
Storage temperature	-10 °C – +60 °C (without probe)
Ingress protection	IP65, IP67, NEMA4X
Voltage supply	14...36 V DC for 2-wire models 12...36 V DC for 3-wire models
Electrical protection	Reversed polarity of DC and peak protected
Outputs	4-20 mA configurable temperature or conductivity 2 Transistors, configurable, open collector, 700 mA max., 0.5 A max. per transistor if the 2 transistor output are wired
Output load	1100 Ω at 36 V 610 Ω at 24 V 180 Ω at 14 V

Envelope Dimensions [mm] (see datasheet for details)



A	B	C
97	70	244



The electrode is selected according to the measuring range and medium by using this table.

Ordering Chart

Nut material	Cell constant	Electrical connection	Item No
PVC	C=0.01	5-pin M12 male and 5-pin M12 female	559 619
	C=0.1	5-pin M12 male and 5-pin M12 female	559 615
	C=1.0	5-pin M12 male and 5-pin M12 female	559 611
PVDF	C=0.01	5-pin M12 male and 5-pin M12 female	559 621
	C=0.1	5-pin M12 male and 5-pin M12 female	559 617
	C=1.0	5-pin M12 male and 5-pin M12 female	559 613

Accessories	
Description	**Item No**
Display/programming module	559 168
Electrical connector, 5-pin M12 male, plug only	560 946
Electrical connector, 5-pin M12 male, 2m prewired	559 177
Electrical connector, 5-pin M12 female, plug only	917 116
Electrical connector, 5-pin M12 female, 2m prewired	438 680

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Universal Process Controller eCONTROL

54 x 54 x 50 mm 1/16 DIN Cut out Compact Universal controller

- For flow, pressure, pH, conductivity, level and temperature
- Continuous control: 2-point, 3-point, On/Off, ratio control
- Easy connectable to pneumatically or electrically driven systems



Thanks to its compact design, the universal 8611 controller is specially designed for compact control system applications. It is compatible with a wide range of proportional control valves and connects with an electro pneumatic servo-system for pneumatically actuated process control valves. The PI process controller is equipped with many additional functions. The actual process value can be supplied as one of three inputs; analogue 4-20 mA/0-10V, frequency or Pt100 signal directly to the universal controller. The process switching points can be set via a 4-20 mA/0-10V signal or with the keypad.

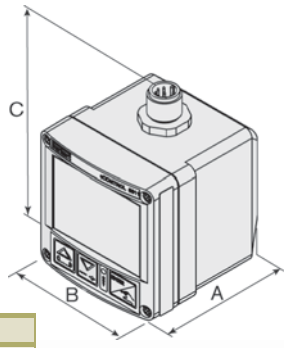
Technical Data

Materials	
Housing / Cover	PC / PC +20% glass fibre
Front panel foil / Screws	Polyester/Stainless steel
Multipin	CuZn, nickel-plated
Display	Dual-line 8-digit LCD with backlight
Electrical connections	Multipin: M12-8pin, M8-4pin, M8-3pin
Voltage supply cable	0.5 mm² max. cross section, max. 100m, shielded
Ambient temperature	0 °C - + 70 °C
Relative humidity	≤ 80%, without condensation
Protection class	IP65
Power supply	24 V DC ± 10%, filtered and regulated
Power consumption	Approx. 2 W (without valve – without sensor input)
Input frequency range	0.25 Hz – 1 kHz
Input Pt 100	0-200 °C
Output for sensor supply	24 V DC, max. 1 A
Controller modes	PI-Control, 2 point and 3 point, ratio control, including cascading Up to 2 binary out with window and hysteresis mode
Total load	max. 1.5 A

Envelope Dimensions [mm] (see datasheet for details)

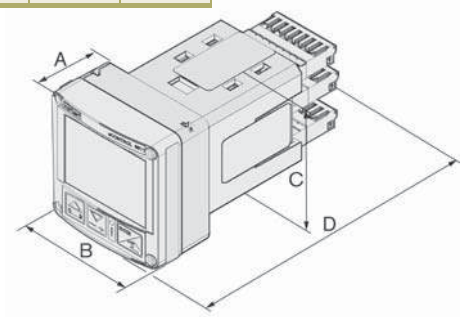
Valve-mounting

A	B	C
61	55	76



Panel-mounting

A	B	C	D
29	55	66	105



Options (see datasheet for details)

- Mounted on flow sensor fitting
- Mounted on rail or valve

Ordering Chart

Mounting position	Sensor Input (extern)	Controller outputs	Setpoint setting	Process value output	Binary In/Out	UL Recognition	Item no.
Proportional valve	Temperature (Pt100)	1 x PWM	4-20 mA 0-10 V	4-20 mA 0-10 V	1 x Bin In 1 x Bin Out	–	204 642
	Flow rate (Frequency - NPN)	1 x PWM	4-20 mA 0-10 V	4-20 mA 0-10 V	1 x Bin In 1 x Bin Out	–	204 639
	All sensors with standard signal (4-20 mA / 0-10 V)	1 x PWM	4-20 mA 0-10 V	4-20 mA (*) 0-10 V	1 x Bin In 1 x Bin Out	–	186 289
Panel	2 x Frequency (NPN/PNP) 1 x 4-20 mA / 0-10 V 1 x RTD	1 x PWM 2x PTM 1x 4-20 mA/0-10 V	4-20 mA 0-10 V	4 -20 mA 0-10 V	1 x Bin In 2 x Bin Out	No	210 206
						UL-Recognised	562 655

* Either PWM/PTM or mA/0-10 V selectable as PI-control output. If 4-20 mA/0-10 V selected as PI-output, the process value isn't available.

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com



1/4" DIN Panel Mount

- Flexible analytical and flow transmitter
- Unique flexibility
- Intuitive programming
- SD card for data logging + upload/download

Bürkert's 8619 transmitter/controller is the latest addition to the process control program. The 1/4DIN panel mounted transmitter/controller incorporates a large backlit LCD display for adding up to 6 boards in a free mix for pH, conductivity incl. temperature, and output boards are connected to the digital inputs of the mainboard.

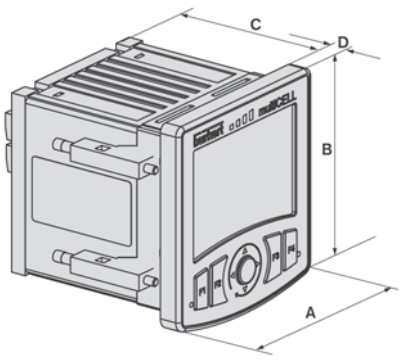
Optional software features can be simply activated when required by the application and an SD card is standard for data logging and up/down loading of parameterization files.

Special integrated dosing and control functions allow use in a large range of applications without the need of additional devices.

Technical Data

pH input	-2.00...+16.00 (-600...+6000 mV)
Redox input	-2000...+2000 mV
Conductivity input	0 µS/cm ... 2 S/cm
pH/ORP/cond temp input	Pt100 / Pt1000
Digital input	Voltage: 5-36 V DC, 0.5 to 2500 Hz
Analog output	4 ... 20 mA 1100 Ω at 36 V DC 610 Ω at 24 V DC 100 Ω at 12 V DC
Digital output	PNP/NPN max. 700 mA max. 2000 Hz
Cover, vision panel / Overlay	PC / Silicone rubber
Display	Light blue backlighted; 128 x 168 pixels
Languages	English, French, German
Mounting panel	92mm x 92mm DIN cutout
Ambient temperature range	-10 °C - +60 °C Limited at 0 °C - +60 °C if memory card is used
Ingress protection	IP65 (front)
Storage temperature	-20 °C - +60 °C
Voltage supply	12...36 V DC
Electrical protection	Reversed polarity of DC and peak protected
Power consumption	max. 1.5 VA (without modules)
Data logging	SD Card
Data retention	EEPROM, Real time clock

Envelope Dimensions [mm] (see datasheet for details)



A	B	C	D
102	107	101	11

Ordering Chart

Description	Digital Inputs	Raw signals	RTD	Digital Outputs	Analog	Item no.
BASE unit	2	–	–	2	2	560 205
pH/ORP transmitter	2	1 (pH/ORP)	1	2	2	560 200
pH/ORP transmitter	2	2 (pH/ORP)	2	4	4	560 202
CONDUCTIVITY transmitter	2	1 (Cond.)	1	2	2	560 201
CONDUCTIVITY transmitter	2	2 (Cond.)	2	4	4	560 203
pH/ORP and CONDUCTIVITY transmitter	2	1 (pH/ORP) + 1 (Cond.)	2	4	4	560 204

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

Inductive Conductivity transmitter

8226

For use with fitting DN15 - 200 mm

- For tough, demanding conductivity applications
- Proven design for harsh chemicals
- PEEK version for CIP solutions

Please add fitting S020 from page 65

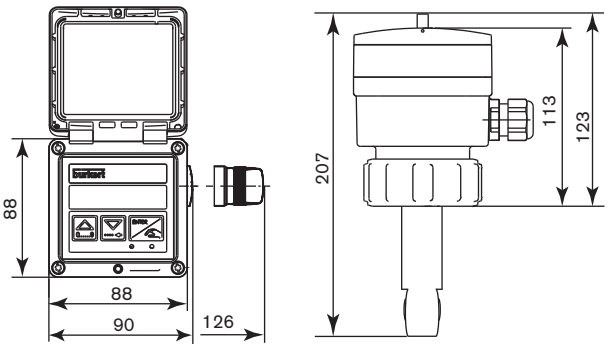


Inductive / torroidal conductivity transmitter with programmable outputs. The analog 4-20 mA output is proportional to conductivity. The unit can be equipped with two 3A relays. The unit has a very wide measuring range.

Technical Data

Measuring range	100 µS/cm ... 2 S/cm
Measuring error	± 2% of reading
Temperature compensation	Automatic via integrated temperature sensor
Available fitting materials	Brass, Stainless, PP, PVC, PVDF
Housing material	PC glass fibre (PVDF sensor); PPA glass reinforced fibre (PP or PEEK sensor)
Insertion finger	PVDF, PP or PEEK
O-rings	FKM or EPDM
Max. fluid temperature	-15 °C - +120 °C (depending on fitting material)
Max. fluid pressure	0-6 bar
Ambient temperature	0 °C – +60 °C
Storage temperature	0 °C – +60 °C
Ingress protection	IP65
Voltage supply	12...30 V DC
Electrical Protection	Reversed polarity of DC and peak protected
Outputs	4 ... 20 mA with/without 2 relays, 3A/230V
Output load	1000 Ω at 30 V 800 Ω at 24 V 450 Ω at 15 V 330 Ω at 12 V

Envelope Dimensions [mm] (see datasheet for details)



Options

- Operating voltage 115/230 V AC
- Material Test Report for stainless steel fittings
- 1/2" conduit adapter kit (551 782)
- 1/2" conduit plug 2509 (162 673)

Ordering Chart for inductive conductivity transmitter

Material	Output	Gasket	Electrical connection	Item No
PP	4-20mA	FKM	EN175301-803 plug	558 768
	4-20mA + 2 relays	FKM	2 x M20 glands	558 770
PVDF	4-20mA	FKM	EN175301-803 plug	431 673
	4-20mA + 2 relays	FKM	2 x M20 glands	431 679
PEEK	4-20mA	EPDM	EN175301-803 plug	440 321
	4-20mA + 2 relays	EPDM	2 x M20 glands	440 324

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

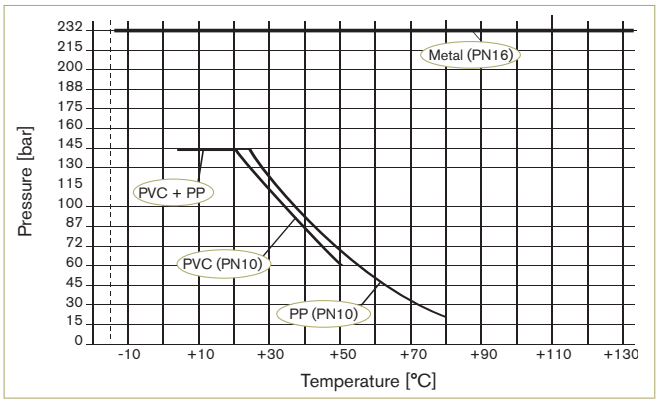


DN32 - 110 mm adapters for pipe and tank mount fittings

- Simple installation guaranteed
- Range of chemically compatible materials
- Modular concept for pH, ORP and conductivity

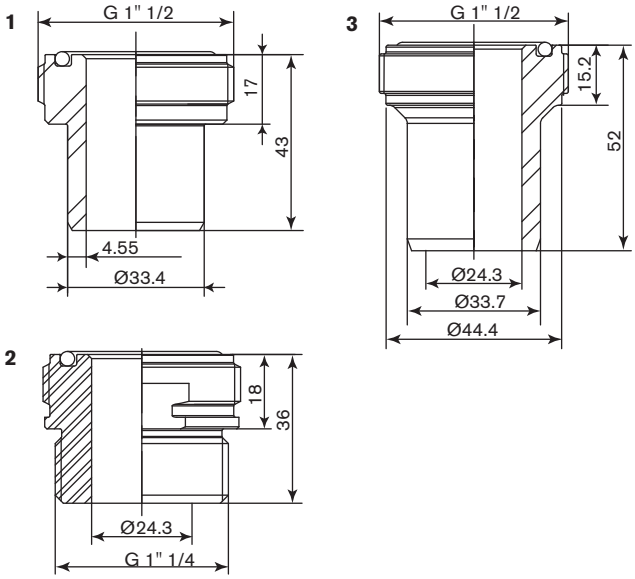
Fittings to connect the compact analytical transmitters to the media. Materials included are PVC-U, PP, Stainless steel, and PVC thread. For chemical resistance details please download our chemical resistance booklet from our website www.burkert.com

Pressure / temperature chart

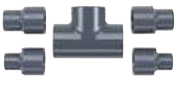


Note: Always take lowest max. medium temp. of both adapter and chosen ELEMENT transmitter.

Envelope Dimensions [mm] (see datasheet for details)



Adaptation overview

Adaptor S022	Piping systems	DN	Description	Materials Body / Seal	Type of Installation	Item no.
1  PVC-U, PP metric or solvent adapter		32 up to 110 (06 up to 25 with reduction)	Solvent adaptor with G 1 1/2" external threaded for ELEMENT transmitter connection	PVC-U / FKM, EPDM	Solvent weld on d32x32 and d40x32 Tee fitting	560 705
2  Stainless steel **		Respect recommendations of installation	Welding adaptor with G 1½" external threaded for ELEMENT transmitter connection	Stainless steel / FKM, EPDM	To weld directly on pipe	561 232
3  PVC-U, G or G 1 $^{1}/_{4}$" screw-on		Respect recommendations of installation	G 1 $^{1}/_{4}$" screw-on adaptor with G 1½" external threaded for ELEMENT transmitter connection	PVC-U / FKM, EPDM	To screw on tank or pipe	560 707

** Please ask for Material Test Reports (MTRs) at time of ordering if required.

Remark: please refer to corresponding datasheet for updated product information at www.burkert.com

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