USA 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 centers 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 **extensive stock in USA** in Charlotte, NC and Irvine, CA 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 catalog:

How to Use Our Select Catalog

This catalog is designed to be a simple, friendly guide to enable you to quickly find the most suitable solution for your needs. Organized 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. If you're out of the US and need our help 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.

We have included a fax order form in the back for convenience but we are always available by telephone on 1 800 325 1405 or by e-mail (select-usa@burkert.com). Current pricing and availability is always available on-line at our convenient friendly e-shop which can be found at **http://store.burkert.us**

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!

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USA Select

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 10	 **5404** page 19			
Steam & Hot Media	 **6013** page 9	 **0255** page 10	 **0406** page 18	 **0407** page 18	
Aggressive Chemicals	 **0124** page 13	 **0142** page 17			
Contaminated Fluids	 **0330** page 12, 26, 27	 **5282** page 16			
General Purpose 3/2 way	 **6012** page 23	 **6014** page 24	 **0340** page 28		
General Purpose 2/2 way	 **6011** page 8	 **6013** page 9	 **6213** page 20	 **0290** page 22	 **5281** page 14

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.

The use of servo-assisted valves is governed in large part by the pilot construction and employ diaphragms for liquids and gases and piston seals for higher pressures and steam.

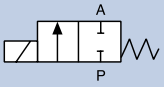
	Pressure range [PSI]																					Body Material			Seal Material				Connections NPT [inches]
	VAC	≤3	≤7	≤15				≤30				≤45			≤72	≤115	≤145	≤232	≤250	≤362	≤435	≤1450								
	Orifice [mm]																												
	0.4	0.6	0.8	1.2	1.6	2.0	2.4	2.5	3.0	4.0	5.0	6.0	8.0	10	12	13	20	25	32	40	50	65	Brass	SS	Plastic	NBR	EPDM	FKM	PTFE	
Function 2/2	**Direct-acting Plunger**																												
6011	General Purpose																						■	■			■	■		M5, 1/8, MAN
6013	General Purpose																						■	■			■	■	■	1/8 - 3/8, MAN
0255	Steam to 150 #, High Pressure																						■	■		■	■	■	■	1/4 - 1/2
Function 2/2	**Direct-acting Pivoted Armature**																												
0330/1	Slightly Contaminated Fluids																						■	■	□	■	■	■		1/4 (MAN)
Function 3/2	**Direct-acting Plunger**																												
6012	General Purpose																						■	■	■	■		■		M5, 1/8, MAN
6014	General Purpose																						■	■	■		□	■		1/8 - 3/8, MAN
Function 3/2																													
0330/1	Slightly Contaminated Fluids																						■	■	□	■	□	■		1/4 (MAN)
0124/5	Aggressive Chemicals																								■	■	■	■		1/4 (MAN)
Function 2/2	**Servo-assisted Plunger**																												
5281	General Purpose																						■	■		■	■	■		1/2 - 2 1/2
5404	Compressed Gases																						■			■		□	■	1/2 - 1
0406	Steam to 150 #																						■						■	1/2 - 1
Function 2/2	**Servo-assisted Isolated Pilot**																												
5282	Slightly Contaminated Fluids																						■	■		■	■	■		1/2 - 2 1/2
0142	Aggressive Chemicals																								■		■	■		1/2 - 2 (union)
Function 2/2	**Servo-assisted Soft Coupled**																												
6213	Clean Water																						■	■		■	■	■		1/2 - 2 1/2
Function 2/2	**Servo-assisted Hard Coupled**																												
0290	Zero DP, Clean Fluids																						■	■		■	■	■		1/2 - 2
0407	Steam to 150 #																						■						■	1/2 - 2
6240	High Pressure																						■	■			□	■	■	1/4 and 3/8
Function 3/2	**Servo-assisted Isolated Pilot**																												
0340	Slightly Contaminated Fluids																						■			■				1/4 - 1 1/2

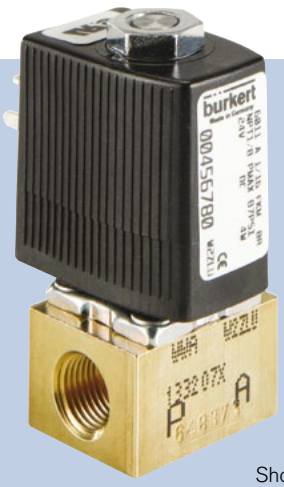
■ *Standard* □ *Optional* MAN *Manifold mount*

Plunger Operated 2/2 Way Solenoid Valve

2/2-Way, NPT 1/8", 0-174 PSI

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





Shown without plug

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.

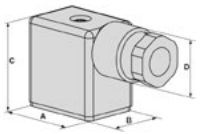
Technical Data

Pressure range	0-174 PSI, Max.
Temperature media	14 °F ... +212 °F
Ambient temperature	131 °F, Max.
Body material	Brass or Stainless steel
Seal material	FKM
Coil material	Polyamide
Power consumption	DC: 4 W, AC: 9 VA (inrush), 6 VA (hold)
Protection class	IP65
Electrical Connection	2507 cable plug Form B (included)

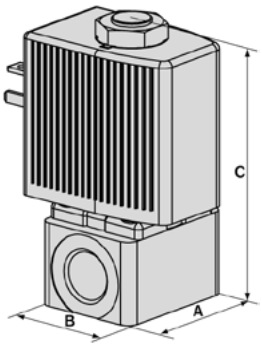
Options

- Cable plug with LED
- Cable plug with varistor

Envelope Dimensions [inch] (see datasheet for details)



2507 cable plug Form B included
(see page 30)

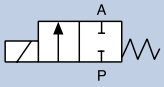


Size	A	B	C
1/8"	0.98	0.59	2.07

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv value water	Pressure range [PSI] [AC]	Pressure range [PSI] [DC]	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz	240 V/60 Hz
Brass								
NPT 1/8	1.6	0.07	0-174	0-87	461 767	461 768	461 769	461 770
NPT 1/8	2.0	0.13	0-116	0-65	461 771	461 772	461 773	461 774
NPT 1/8	2.4	0.15	0-87	0-43	461 775	461 776	461 777	461 778
Stainless steel								
NPT 1/8	1.6	0.07	0-174	0- 87	461 779	461 780	461 781	461 782
NPT 1/8	2.0	0.13	0-116	0-65	461 783	461 784	461 785	461 786
NPT 1/8	2.4	0.15	0-87	0-43	461 787	461 788	461 789	461 790

Supplied as shown



NPT 1/8" - NPT 1/4", 0-362 PSI

- Brass or Stainless steel
- Steam version available
- 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.

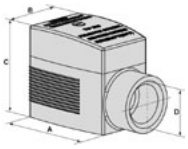
Technical Data

Pressure range	0-362 PSI, Max.
Temperature media	14 °F ... +212 °F
Ambient temperature	131 °F, 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
Electrical Connection	2509 cable plug Form A (included)

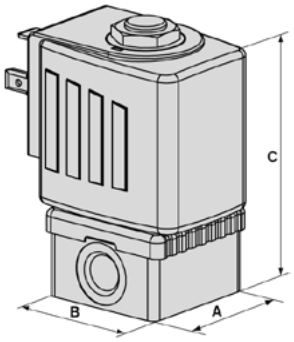
Options

- Normally open
- Cables plug with LED
- Cable plug with varistor
- PTFE/graphite seal to 356 °F
- Range of seal materials
- Explosion proof to Class 1 Div 1
- Polyamide (Class B) coil , 3/8" NPT

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included (see page 30)



Size	A	B	C
1/8"	1.28	1.38	2.59
1/4"	1.93	1.38	2.83

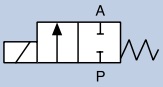
Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI] [AC]	[DC]	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz	240 V/60 Hz
Brass								
NPT 1/8	2	0.14	0-362	0-174	457 314	457 315	457 316	457 317
NPT 1/8	2.5	0.19	0-232	0-145	457 318	457 319	457 320	457 321
NPT 1/8	3	0.27	0-145	0-87	456 506	456 507	456 508	456 509
NPT 1/4	3	0.27	0-145	0-87	456 510	456 511	456 512	456 513
NPT 1/4	4	0.35	0-58	0-22	456 514	456 515	456 516	456 517
Stainless steel								
NPT 1/8	2	0.14	0-362	0-174	457 322	457 323	457 324	457 325
NPT 1/8	3	0.27	0-145	0-87	456 522	456 523	456 524	456 525
NPT 1/4	3	0.27	0-145	0-87	456 526	456 527	456 528	456 529
NPT 1/4	4	0.35	0-58	0-22	456 530	456 531	456 532	456 533

Plunger Operated 2/2 Way Solenoid Valve

NPT 1/4” - NPT 3/8”, 0-232 PSI

- Fluid temperature to 356 °F
- Integrated metallic body seal
- Wear resistant stainless steel seat



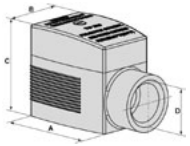
Shown with 2508 plug

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 (1470 PSI), and high temperature (482 °F) versions are also available.

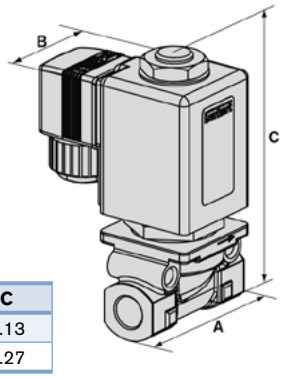
Technical Data

Pressure range	0-232 PSI, Max.
Temperature media	-40 °F ... +356 °F
Ambient temperature	131 °F, 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
Electrical Connection	2509 cable plug Form A (included)

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included
(see page 30)



Size	A	B	C
1/4"	2.93	1.79	4.13
1/2"	1.81	1.79	4.27

Options

- CSA/UR with 2508 conduit plug
- Cables plug with LED and/or varistor
- 1/2" body connection
- FM Class 1 Div 2
- UL listed version

Ordering Chart

Port connection	Orifice	Cv	Pressure range		Material	Item no. Voltage/Frequency [V/Hz]			
[inch]	[mm]		AC [PSI]	DC [PSI]	Seal	24/DC	24/60	120/60	240/60
Brass body									
NPT 1/4	3	0.29	232	145	PTFE	457 930	98106001	457 955	98106003
NPT 3/8	3	0.29	232	145	PTFE	92708665	98106010	98103383	98101951
NPT 1/4	4	0.58	145	58	PTFE	98106007	98102369	98101211	98102598
NPT 3/8	4	0.58	145	58	PTFE	98106011	98106012	452 890	98106014
NPT 1/4	6	0.93	55	14	PTFE	98100979	452 905	452 906	455 100
NPT 3/8	6	0.93	55	14	PTFE	98106015	98101571	454 181	98106016
Stainless steel body									
NPT 1/4	3	0.29	232	145	PTFE	98106004	98106005	452 886	98106006
NPT 1/4	4	0.58	145	58	PTFE	457 972	98106008	452 894	98106009
NPT 1/4	6	0.93	55	14	PTFE	98101693	98104267	452 909	455 101

ELEMENT Analytical Instruments

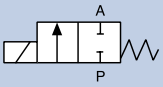
Our new dual output pH, ORP & conductivity transmitters are designed to make your life simpler. Now these field mount instruments can transmit both temperature and the desired analytical value simultaneously and the removable, backlit programming puck lets you upload and download parameters between devices.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

Pivot Operated 2/2 Way Solenoid Valve

0330

NPT 1/4", 0-145 PSI

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



Shown with 2508 plug

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.

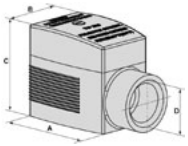
Technical Data

Pressure range	0-145 PSI, Max.
Temperature media	+14 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass or Stainless steel
Seal material	FKM
Coil material	Epoxy
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65
Electrical Connection	2509 cable plug Form A (included)
Accreditations	CSA, UL recognized, CE
Extras	Lockable manual override

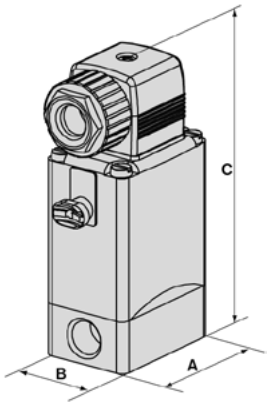
Options

- Three way versions (page 26)
- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Vacuum version
- Cable plug (2508)
- Cables plug with LED
- Cable plug with varistor
- Manifold mounting (Type 0331)
- CSA Class 1 Div 2
- FM Class 1 Div 1

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included (see page 30)



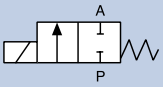
Size	A	B	C
1/4"	1.81	1.34	3.94

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [1] [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz	240 V/60 Hz
Brass valve body (normally closed)							
NPT 1/4	3	0.27	0 - 145	98104311	464 263	98110860	453 228
NPT 1/4	4	0.33	0 - 72	92708646	453 019	92708649	98100331
Stainless steel valve body (normally closed)							
NPT 1/4	3	0.27	0 - 145	92708647	464 264	92705193	464 265
NPT 1/4	4	0.33	0 - 72	92708648	453 022	92708650	464 266
Brass valve body (normally open)							
NPT 1/4	3	0.27	0 - 145	458 971	453 025	458 973	464 267
NPT 1/4	4	0.33	0 - 72	458 975	464 268	458 977	98106034
Stainless steel valve body (normally open)							
NPT 1/4	3	0.27	0 - 145	458 983	98108957	458 973	464 269
NPT 1/4	4	0.33	0 - 72	458 987	464 270	458 989	464 271

[1] Pressure range for DC valves is 25% less than stated in the table.

Supplied as shown



NPT 1/4”, 0-174 PSI

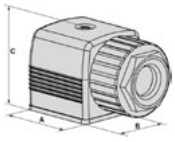
- Isolating separating diaphragm design
- Perfect for harsh chemicals
- Also available in manifold mount

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.

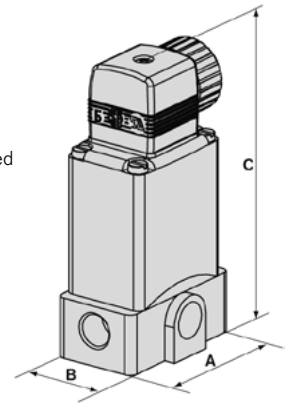
Technical Data

Pressure range	0-174 PSI, Max.
Temperature media	-22 °F ... +176 °F (EPDM) +32 °F ... +176 °F (FKM)
Ambient temperature	131 °F, Max.
Body material	PP or PVDF
Seal material	FKM
Coil material	Epoxy
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65
Electrical Connection	2508 cable plug Form A (included)
Accreditations	CE
Extras	Lockable manual override

Envelope Dimensions [inch] (see datasheet for details)



2508 cable plug Form A included (see page 30)



Size	A	B	C
1/4"	2.01	1.42	4.09

Options

- Normally 2/2 open, Universal 3/2 way, 3/2 way divert
- Electrical position feedback
- Impulse coil
- Manifold mounting (Type 0125)
- Range of diaphragm seals to suit aggressive media
- Vacuum version
- Cable plug with conduit entry (2509)
- Cables plug with LED
- Cable plug with varistor
- 5W coil

Ordering Chart

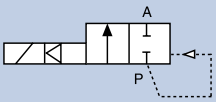
Port connection	Orifice [mm]	Cv	QNn value air [l/min]	Pressure range [PSI] 1)	Seal material	Item No. Voltage/Frequency [V/Hz] 24/DC	120/60
Polypropylene NPT 1/4	2	0.15	120	0 – 174	EPDM	457 472	457 473
					FKM	457 469	457 470
	3	0.29	250	0 – 115	EPDM	454 952	453 648
					FKM	451 963	454 841
	4	0.33	325	0 – 58	EPDM	452 810	452 799
					FKM	455 220	453 577
	5	0.47	440	0 – 43	EPDM	454 376	450 826
					FKM	455 558	453 369
PVDF NPT 1/4	2	0.15	120	0 – 174	EPDM	457 492	457 493
					FKM	457 489	457 490
	3	0.29	250	0 – 115	EPDM	450 922	450 924
					FKM	454 200	457 495
	4	0.33	325	0 – 58	EPDM	–	–
					FKM	089 611	454 285
	5	0.47	440	0 – 43	EPDM	–	450 935
					FKM	454 488	456 021

1) Pressure range for DC valves is 25% less than stated in the table.

Servo-Assisted Solenoid Valve with Plunger Pilot

NPT 1/2” - NPT 2”, 2.9-232 PSI

- Waterhammer-free
- Compact design with high flow rates
- Rugged molded diaphragm



Supplied as shown

Servo-assisted brass plunger piloted solenoid valve with un-coupled rugged diaphragm. This valve is designed for neutral gases and liquids where a rugged and reliable solution is required.

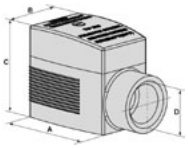
Technical Data

Pressure range	2.9-232 PSI, Max.
Temperature media	+14 °F ... +176 °F
Ambient temperature	131 °F, Max.
Body material	Brass
Seal material	NBR
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 21 VA (inrush), 12 VA (hold)
Protection class	IP65
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL Listed, FM Class 1, Div 2, CSA, CE

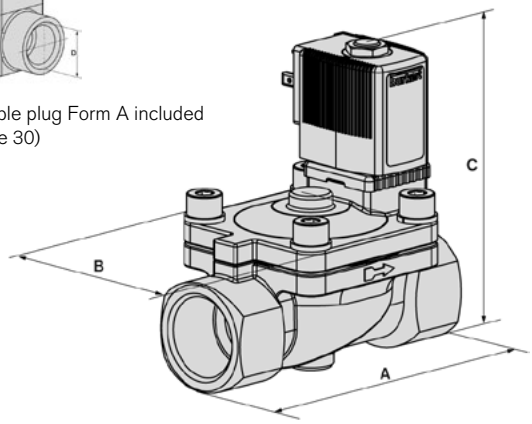
Options

- Normally open (0281B)
- Cables plug with LED
- Cable plug with varistor
- UL Recognized version with cable plug - Class 1, Div 1 FM & CSA

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included
(see page 30)



Size	A	B	C
1/2"	2.56	1.57	4.72
3"4"	3.94	2.36	5.02
1"	4.53	2.76	5.35
1 1/4"	4.96	3.35	5.77
1 1/2"	4.96	3.35	6.12
2"	6.46	4.53	6.98

Ordering Chart (normally closed)

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz	240 V/60 Hz
Brass							
NPT 1/2	13	4.66	2.9 - 232	457 395	457 396	457 397	457 398
NPT 3/4	20	5.83	2.9 - 232	457 399	457 400	457 401	457 402
NPT 1	25	11.65	2.9 - 232	457 403	457 404	457 405	457 406
NPT 1 1/4	32	23.30	2.9 - 232	457 407	457 408	457 409	457 410
NPT 1 1/2	40	23.30	2.9 - 232	457 411	457 412	457 413	457 414
NPT 2	50	46.60	2.9 - 232	457 415	457 416	457 417	457 418

Normally Open Servo-Assisted Solenoid Valve with Plunger Pilot

Supplied as shown

NPT 1/2" - NPT 2", 2.9-232 PSI

- Waterhammer-free
- Compact design with high flow rates
- High temperature coil

CE

Servo-assisted brass plunger piloted solenoid valve with un-coupled rugged diaphragm. This normally open valve is designed for neutral gases and liquids where a rugged and reliable solution is required.

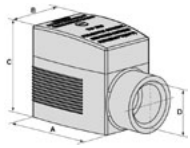
Technical Data

Pressure range	2.9-232 PSI, Max.
Temperature media	+14 °F ... +176 °F
Ambient temperature	131 °F, Max.
Body material	Brass
Seal material	NBR
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 21 VA (inrush), 12 VA (hold)
Protection class	IP65
Electrical Connection	2509 cable plug Form A (included)

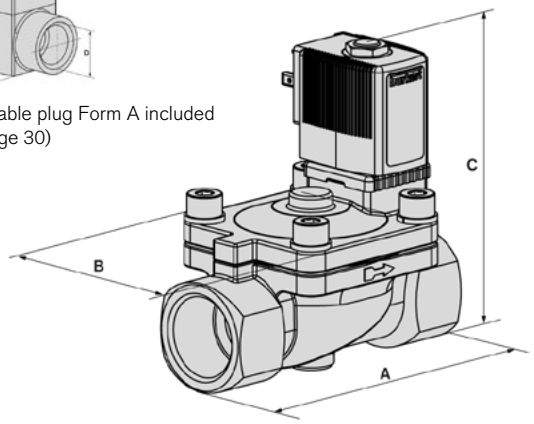
Options

- Normally closed (5281)
- Cables plug with LED
- Cable plug with varistor
- UL Recognized version with cable plug

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included
(see page 30)



Size	A	B	C
1/2"	2.56	1.57	4.72
3"4"	3.94	2.36	5.02
1"	4.53	2.76	5.35
1 1/4"	4.96	3.35	5.77
1 1/2"	4.96	3.35	6.12
2"	6.46	4.53	6.98

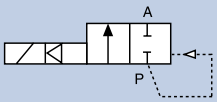
Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	120 V/60 Hz
Brass					
NPT 1/2	13	4.65	2.9 - 145	464 343	464 349
NPT 3/4	20	5.81	2.9 - 145	464 344	464 350
NPT 1	25	11.62	2.9 - 145	464 345	464 351
NPT 1 1/4	32	23.25	2.9 - 145	464 346	464 352
NPT 1 1/2	40	23.25	2.9 - 145	464 347	464 353
NPT 2	50	46.51	2.9 - 145	464 348	464 354

Servo-Assisted Solenoid Valve with Isolated Pilot

NPT 1/2" - NPT 2", 2.9-145 PSI

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



Supplied as shown (stainless steel version)

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.

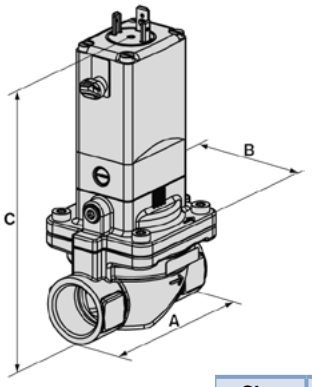
Technical Data

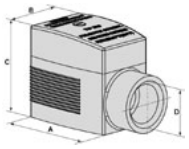
Pressure range	2.9-145 PSI, Max.
Temperature media	+32 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass or Stainless steel
Seal material	NBR with brass, FKM with Stainless
Coil material	Epoxy
Power consumption	DC: 8 W, AC: 21 VA (inrush), 12 VA (hold)
Protection class	IP65
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL listed, CSA

Options

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

Envelope Dimensions [inch] (see datasheet for details)



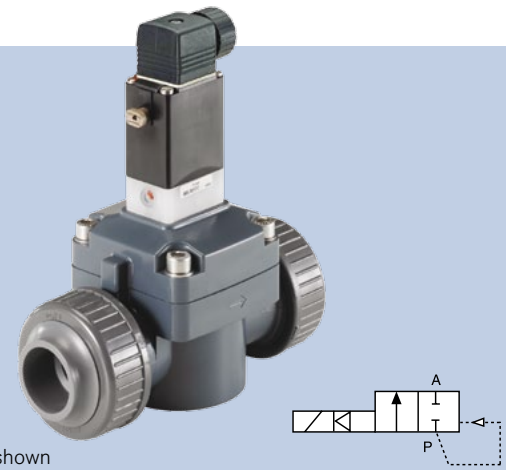


2509 cable plug Form A included (see page 30)

Size	A	B	C
1/2"	2.56	1.57	4.84
3/4"	3.94	2.36	5.16
1"	4.53	2.76	5.55
1 1/4"	4.96	3.35	5.79
1 1/2"	4.96	3.35	6.14
2"	6.46	4.53	6.97
2 1/2"	7.09	4.53	7.28

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	120 V/50-60 Hz
Brass					
NPT 1/2	13	4.66	2.9 - 145	457 870	457 872
NPT 3/4	20	5.83	2.9 - 145	457 874	457 876
NPT 1	25	11.65	2.9 - 145	457 878	457 880
NPT 1 1/4	32	23.30	2.9 - 145	457 882	457 884
NPT 1 1/2	40	23.30	2.9 - 145	457 886	457 888
NPT 2	50	46.60	2.9 - 145	457 890	457 892
Stainless steel					
NPT 1/2	13	4.66	2.8 - 145	457 894	457 896
NPT 3/4	20	5.83	2.8 - 145	457 898	457 900
NPT 1	25	11.65	2.8 - 145	457 902	457 904
NPT 1 1/4	32	23.30	2.8 - 145	457 906	457 908
NPT 1 1/2	40	23.30	2.8 - 145	457 910	457 912
NPT 2	50	46.60	2.8 - 145	457 914	457 916



Supplied as shown

1/2" - 2" UNION, 7-87 PSI

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

CE

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.

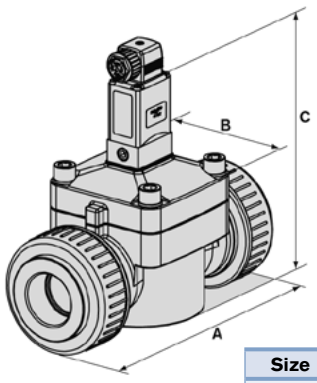
Technical Data

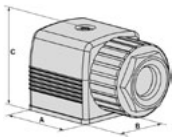
Pressure range	7-87 PSI, Max.
Temperature media	122 °F
Ambient temperature	104 °F Max. (PVC), 131 °F, Max. (PVDF)
Body material	PVC or PVDF
Seal material	EPDM or FKM
Coil material	Epoxy
Power consumption	DC: 5 W, AC: 20 VA (inrush), 11 VA (hold)
Protection class	IP65
Electrical Connection	2508 cable plug Form A (included)
Accreditations	CE

Options

- Normally open (reverse pilot)
- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Cable plug with conduit entry (2509)
- Cables plug with LED
- Cable plug with varistor
- CSA certification

Envelope Dimensions [inch] (see datasheet for details)





2508 cable plug Form A included (see page 30)

Size	A	B	C
1/2"	5.83	2.46	5.83
3/4"	6.06	2.46	5.83
1"	7.48	3.35	6.87
1 1/4"	7.80	3.35	6.87
1 1/2"	10.00	4.53	8.35
2"	10.55	0.00	8.35

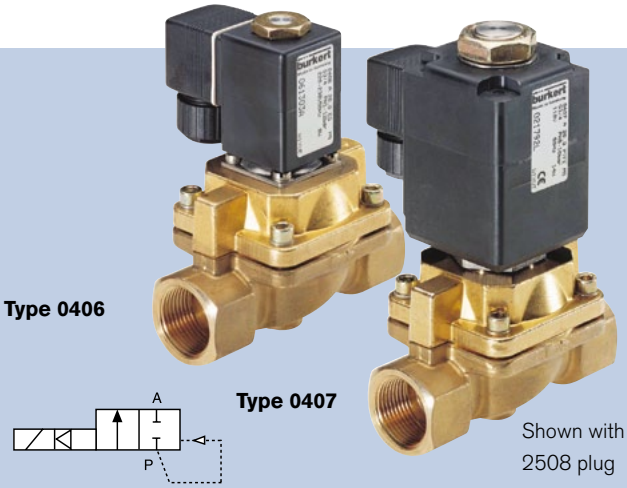
Ordering Chart

Port connection	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz	240 V/60 Hz
PVC Body, EPDM Seal							
NPT 1/2"	13	5.8	7-87	453 994	454 302	453 349	457 214
NPT 3/4"	20	7.0	7-87	453 988	453 987	453 350	98101215
NPT 1"	25	16.3	7-87	454 004	461 543	453 351	456 283
NPT 1 1/4"	32	18.6	7-87	98106217	–	454 102	98100283
NPT 1 1/2"	40	35.0	7-87	98100165	98101068	453 352	98101055
NPT 2"	50	41.9	7-87	98101634	98100574	453 353	98101454
PVDF body (metric fusion connection), FKM Seal							
20 mm	13	5.8	7-87	088 662	228 958	98105589	–
25 mm	20	7.0	7-87	088 661	150 496	126 550	–
31 mm	25	16.3	7-87	089 941	–	98104203	–
40 mm	32	18.6	7-87	089 946	–	–	–
50 mm	40	35.0	7-87	–	–	138 766	–
63 mm	50	41.9	7-87	–	–	126 549	–

Servo-Assisted Piston Solenoid Valves for 150# Steam

NPT 1/2" - NPT 1 1/2", 150#

- Fluid temperature to 356 °F
- 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).

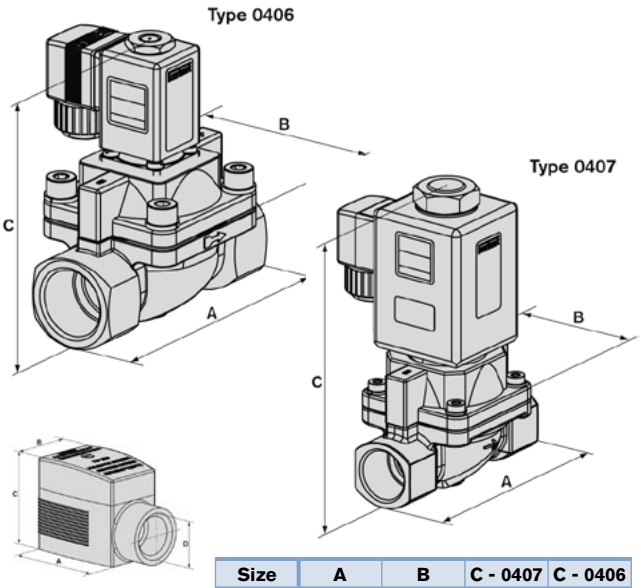
Technical Data

Pressure range	0-145 PSI, Max.
Temperature media	+32 °F ... +356 °F
Ambient temperature	131 °F, Max.
Body material	Brass with anti-wear stainless valve seat
Seal material	PTFE piston seal
Coil material	Epoxy
Power consumption	AC: 24-240 VA (inrush), 35 VA (hold)
Protection class	IP65
Electrical Connection	2509 Cable plug Form A (included)
Accreditations	CE (all sizes), UL Listed, FM Class 1: Div 2 and CSA (to 1")

Options

- Cables plug with LED
- Cable plug with varistor
- UL Recognized version with cable plug
- CSA and UL to 2" NPT connection

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug
Form A included
(see page 30)

Size	A	B	C - 0407	C - 0406
1/2"	2.56	1.57	5.00	4.30
3/4"	3.94	2.36	5.79	4.37
1"	4.53	2.76	6.18	4.76
1 1/4"	4.96	3.35	7.32	6.53
1 1/2"	4.96	3.35	7.68	6.89

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI] AC	Pressure range [PSI] DC	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz
Type 0406							
NPT 1/2	13	4.3	14-174	14-58	453 038	453 037	453 036
NPT 3/4	20	5.8	14-174	14-58	453 041	453 040	453 039
NPT 1	25	11.7	14-174	14-58	453 043	453 042	453 044
Type 0407							
NPT 1/2	13	4.31	0-145	–	–	453 046	453 045
NPT 3/4	20	5.83			–	453 048	453 047
NPT 1	25	11.65			–	453 050	453 049

Shown with 2508 plug

NPT 1/2" - NPT 1", 14-362 PSI

- 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.

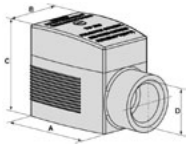
Technical Data

Pressure range	14-362 PSI, Max.
Temperature media	+14 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass
Seal material	PTFE
Coil material	Polyamide
Power consumption	DC: 8 W, AC: 21 VA (inrush), 12 VA (hold)
Protection class	IP65
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL recognized, CSA

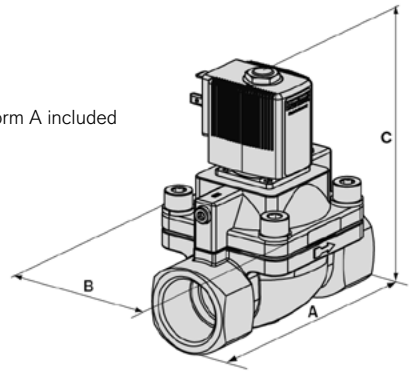
Options

- Normally open (5404B)
- Cables plug with LED
- Cable plug with varistor. Epoxy High Temperature Coils

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included
(see page 30)



Size	A	B	C
1/2"	2.56	1.26	3.80
3/4"	3.94	2.36	4.29
1"	4.53	2.76	4.69

Ordering Chart

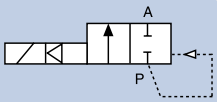
Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI] 1)		Item no. Voltage/Frequency [V/Hz]		
			Air	Liquids	24 V DC	24 V/60 Hz	120 V/60 Hz
NPT 1/2	12	2.33	14-362	14-362	457 858	457 859	457 860
NPT 3/4	20	5.83	14-362	14-362	457 862	457 863	456 864
NPT 1	25	11.65	14-362	14-362	457 866	457 867	457 868

1) Requires 14 PSI minimum differential pressure.

Assisted Soft-Coupled Solenoid Valve for Liquids

NPT 1/4" - NPT 2", 0-145 PSI

- Zero differential pressure
- Rolling diaphragm design
- Waterhammer-free



Shown with 2508 plug

Soft-coupled, normally closed solenoid valve with a plunger piloted rolling diaphragm seal for neutral liquids to 194 °F. Its high flow waterhammer-free design allows switching from 0 PSI. For complete opening, a differential pressure of at least 1.5 PSI is required.

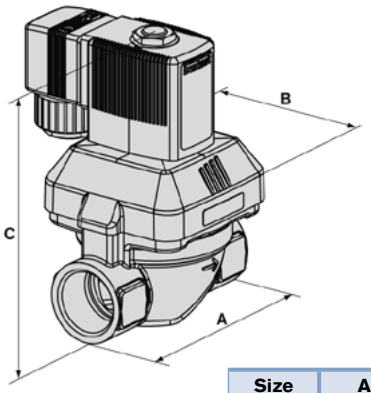
Technical Data

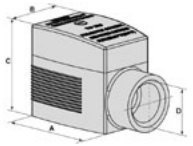
Pressure range	0-145 PSI, Max.
Temperature media	+14 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass or Stainless steel
Seal material	NBR with brass, FKM with Stainless
Coil material	Epoxy (Class H for UL, Class B for UR)
Consumption	DC: 8 W, AC: 21 VA (inrush), 12 VA (hold)
Protection class	IP65
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL Listed, FM Class 1, Div 2, CSA, CE

Options

- FKM seals on BR, NBR seals on SS
- Cables plug with LED
- Cable plug with varistor
- High performance version fully open at zero PSI differential

Envelope Dimensions [inch] (see datasheet for details)





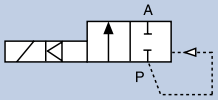
2509 cable plug Form A included (see page 30)

Size	A	B	C
3/8"	2.17	1.48	3.25
1/2"	2.56	1.77	3.76
3/4"	3.94	2.60	4.55
1"	3.94	4.11	6.24
1 1/4"	3.94	4.11	6.42
1 1/2"	5.20	4.11	7.07
2"	5.20	4.11	7.26

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI]	Power consumption			Item no. Voltage/Frequency [V/Hz]			
				Inrush [VA]	Hold [VA]	Hold [W]	24 V DC	24 V/60 Hz	120 V/60 Hz	240 V/60 Hz
Brass										
NPT 3/8	10	2.4	1.5 – 145	34	14	8	456 534	456 535	456 536	456 537
NPT 1/2	13	4.2	1.5 – 145	36	14	8	456 538	456 539	456 540	456 541
NPT 3/4	20	10.5	1.5 – 145	38	14	8	456 542	456 543	456 544	456 545
NPT 1	25	12.9	1.5 – 145	160	38	18	–	457 339	457 340	457 341
NPT 1 1/4	25	12.9	1.5 – 145	160	14	8	–	457 342	457 343	457 344
NPT 1 1/2	40	35.1	1.5 – 145	202	38	18	–	457 345	457 346	457 347
NPT 2	40	35.1	1.5 – 145	202	38	18	–	457 348	457 349	457 350
Stainless steel										
NPT 1/4	10	2.4	1.5 – 145	34	14	8	458 796	458 797	458 798	458 799
NPT 3/8	10	2.4	1.5 – 145	34	14	8	458 800	458 801	458 802	458 803
NPT 1/2	13	4.2	1.5 – 145	36	14	8	458 804	458 805	458 806	458 807
NPT 3/4	20	10.5	1.5 – 145	38	14	8	458 808	458 809	458 810	458 811
NPT 1	20	10.5	1.5 – 145	38	14	8	458 812	458 813	458 814	458 815

Shown with 2506 plug



NPT 3/8" - NPT 1", 7-145 PSI"

- Low power consumption
- Waterhammer-free
- Low weight

Servo-assisted plunger piloted solenoid valve with un-coupled rugged diaphragm. This quality brass valve is designed for neutral gases and liquids where a reliable low power solution is required.

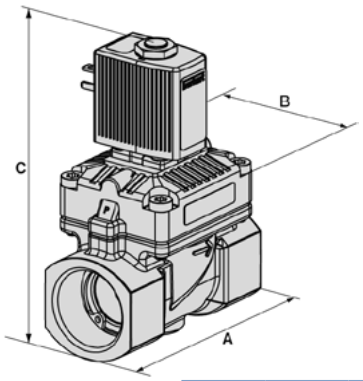
Technical Data

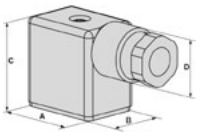
Pressure range	7 -145 PSI, Max.
Temperature media	+32 °F ... +158 °F
Ambient temperature	131 °F, Max.
Body material	Brass
Seal material	NBR
Coil material	Epoxy (Class B)
Power consumption	DC: 4 W, AC: 9 VA (inrush), 6 VA (hold)
Protection class	IP65
Electrical Connection	2507 cable plug Form B (included)
Accreditations	UL recognized, CSA

Options

- FKM or EPDM seals
- Cables plug with LED
- Cable plug with varistor. Polyamide coil (Class F)

Envelope Dimensions [inch] (see datasheet for details)





2507 cable plug
Form B included
(see page 30)

Size	A	B	C	Orifice
3/8"	2.17	3.21	1.26	10
1/2"	2.17	3.21	1.26	10
1/2"	2.56	3.46	1.57	13
3/4"	2.56	3.46	1.57	13
3/4"	3.94	4.00	2.36	20
1"	3.94	4.00	2.36	20

Ordering Chart

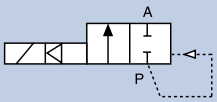
NPT Connection	Orifice [mm]	Cv	Pressure [PSI]	Item no. Voltage/Frequency [V/Hz] 24VDC	24/60	120/60	240/60
3/8"	10	2.23	7–145	461 688	461 689	461 690	461 691
1/2"	10	2.23	7–145	461 692	461 693	461 694	461 695
1/2"	13	4.23	7–145	461 716	461 717	461 718	461 719
3/4"	13	4.23	7–145	461 720	461 721	461 722	461 723
3/4"	20	9.76	7–145	461 740	461 741	461 742	461 743
1"	20	9.76	7–145	461 744	461 745	461 746	461 747

Servo-Assisted Hard-Coupled Solenoid Valve

0290

NPT 1/2" - NPT 2", 0-232 PSI

- True zero differential pressure
- Operates on vacuum
- Process proven rugged and reliable design



Shown with 2508 plug

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.

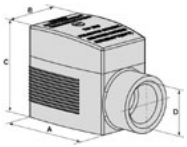
Technical Data

Pressure range	0-232 PSI, Max.
Temperature media	+14 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass or Stainless steel
Seal material	NBR with brass, FKM with Stainless
Coil material	Epoxy (Class H)
Protection class	IP65
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL Listed, FM Class 1, Div 2, CSA, CE

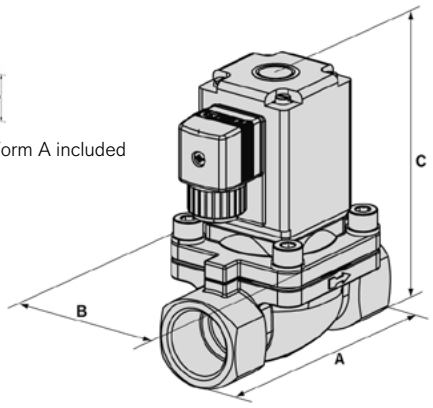
Options

- NBR and EPDM seals
- Cables plug with LED
- Cable plug with varistor
- 240 VAC UL recognized versions
- UL Recognized version with cable plug

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included
(see page 30)

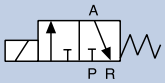


Size	A	B	C
1/2"	2.93	1.57	3.76
3/4"	3.94	2.36	4.80
1"	4.53	2.76	5.16

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv value water	Pressure range [PSI]	Power consumption Inrush [W]	Power consumption Hold [W]	Item no. Voltage/Frequency [V/Hz] 24 V AC/DC	Item no. Voltage/Frequency [V/Hz] 120 V/60 Hz
Brass							
NPT 1/2	12	3.3	0-232	100	25	452 746	453 058
NPT 3/4	20	5.8	0-232	120	32	453 181	453 182
NPT 1	25	11.7	0-232	120	32	452 862	453 185
Stainless steel							
NPT 1/2	12	3.3	0-232	100	25	453 179	452 819
NPT 3/4	20	5.8	0-232	120	32	453 184	452 747
NPT 1	25	11.7	0-232	120	32	453 187	453 188

Shown without plug



NPT 1/8”, 0-145 PSI

- 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.

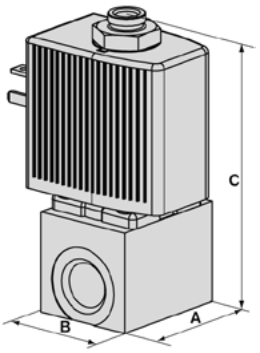
Technical Data

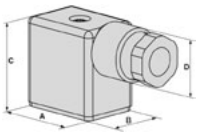
Pressure range	0-145 PSI, Max.
Temperature media	14 °F ... +212 °F
Ambient temperature	131 °F, Max.
Body material	Brass
Seal material	FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 4 W, AC: 9 VA (inrush), 6 VA (hold)
Protection class	IP65
Electrical Connection	2507 cable plug Form B (included)

Options

- Stainless steel body
- Universal 3/2 (T) configuration

Envelope Dimensions [inch] (see datasheet for details)





2507 cable plug Form B included (see page 30)

- Upper port is M5 fitting Add 92-708-424 for 1/8” NPT for circuit function D

Size	A	B	C
1/8"	0.98	0.79	2.22

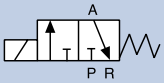
Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz	240 V/60 Hz
Circuit function C (3/2-way normally closed)							
NPT 1/8	1.2	0.053	0 – 145	461 811	461 812	461 813	461 814
NPT 1/8	1.6	0.07	0 – 87	461 815	461 816	461 817	461 818
Circuit function D (3/2-way normally open)							
NPT 1/8	1.2	0.053	0 – 145	461 835	461 836	461 837	461 838
NPT 1/8	1.6	0.07	0 – 87	461 839	461 840	461 841	461 842

Compact Plunger Operated 3/2 Valve

NPT 1/8" & NPT 1/4", 0-145 PSI

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



Shown with 2508 plug

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.

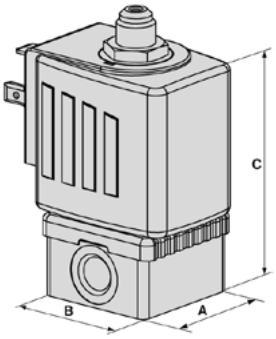
Technical Data

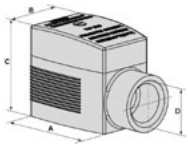
Pressure range	0-145 PSI, Max.
Temperature media	14 °F ... +212 °F
Ambient temperature	131 °F, Max.
Body material	Brass, stainless steel
Seal material	FKM
Coil material	Epoxy (Class H)
Power consumption	DC: 8 W, AC: 24 VA (inrush), 17 VA (hold)
Protection class	IP65, NEMA 4
Electrical Connection	2509 cable plug Form A (included)

Options

- Cables plug with LED
- Cable plug with varistor
- Hazardous area approvals
- Universal 3/2 (T) configuration

Envelope Dimensions [inch] (see datasheet for details)





2509 plug included
(see page 30)

G1/8 fitting
Add 98100003 (brass) or 98161022 (ss) for 1/8" NPT for circuit function D or T

Size	A	B	C
1/8"	1.26	1.38	2.89
1/4"	1.81	1.38	3.12

Ordering Chart

Port connection [inch]	Circuit function	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	120 V/60 Hz
Brass						
NPT 1/8	C (3/2-way normally closed)	1.5	0.08	0-232	456 570	456 572
NPT 1/8		2.0	0.13	0-145	456 574	456 576
NPT 1/4		2.0	0.13	0-145	456 578	456 580
NPT 1/8		2.5	0.18	0-87	456 582	456 584
NPT 1/4		2.5	0.18	0-87	456 586	456 588
NPT 1/8	D (3/2-way normally open)	1.5	0.08	0-232	456 594	456 596
NPT 1/8		2.0	0.13	0-145	456 598	456 600
NPT 1/4		2.0	0.13	0-145	456 602	456 604
NPT 1/8		2.5	0.18	0-87	456 606	456 608
NPT 1/4		2.5	0.18	0-87	456 610	456 612
NPT 1/8	T (universal)	1.5	0.08	0-101	456 618	456 620
Stainless steel						
NPT 1/8	C (3/2-way NC)	1.5	0.08	0-232	456 646	456 648
NPT 1/8		2.0	0.13	0-145	456 650	456 652
NPT 1/4		2.0	0.13	0-145	456 654	456 656
NPT 1/8	T (universal)	1.5	0.08	0-101	456 658	456 660

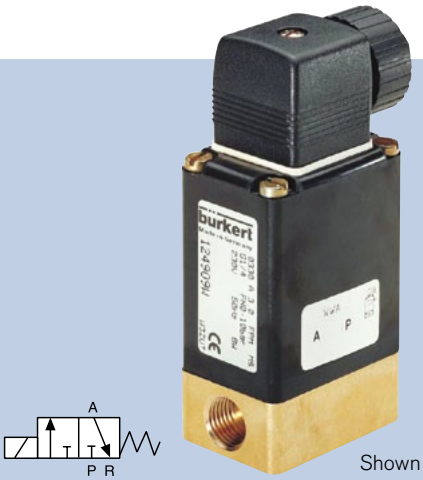
Intelligent | Integrated | Beautiful

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

NPT 1/4", 0-174 PSI

- Isolating separating diaphragm design
- Long service life
- Handles slightly contaminated fluids with ease



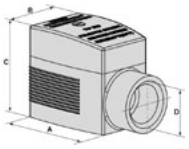
Shown in brass with 2508 plug
(stainless steel version available)

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.

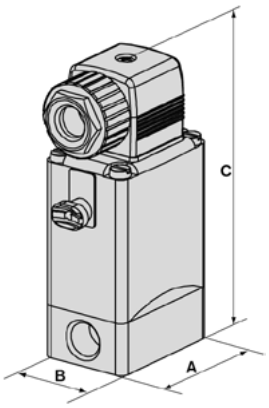
Technical Data

Pressure range	0-174 PSI, Max.
Temperature media	+32 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass (Stainless steel available)
Seal material	FKM
Coil material	Epoxy
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65, NEMA 4
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL Listed, FM Class 1, Div 2, CSA, CE
Extras	Manual override as standard

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug
Form A included
(see page 30)



Size	A	B	C
1/4"	1.81	1.34	3.94

Options

- Stainless steel body
- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Vacuum version
- Cable plug with conduit entry (2509)
- Cables plug with LED
- Cable plug with varistor
- Manifold mounting (Type 0331)
- Universal function (T - Class 1, Div 2 FM & CSA)

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [1] AC [PSI]	Pressure range [1] DC [PSI]	Voltage/Frequency [V/Hz] 24/DC	24/60	120/60	240/60
Normally closed 3 way configuration								
NPT 1/4	2	0.13	0-174	0-174	98104311	98106017	453 226	453 228
NPT 1/4	3	0.27	0-145	0-145	453 020	453 019	453 018	98100331
Normally open 3 way configuration								
NPT 1/4	2	0.13	0-174	0-174	453 242	98106022	453 246	98106023
NPT 1/4	3	0.27	0-145	0-145	453 023	453 022	453 021	98106027

[1] Pressure range for DC valves is 25% less than stated in the table.

Pivot Operated 3/2 Way Universal Solenoid Valve

Shown with 2508 plug

NPT 1/4”, 0-85 PSI

- Universal flow function
- Isolating separating diaphragm design
- Handles slightly contaminated fluids with ease

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.

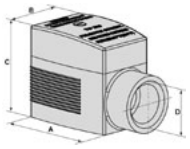
Technical Data

Pressure range	0-87 PSI, Max.
Temperature media	+32 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass or Stainless steel
Seal material	FKM
Coil material	Epoxy
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65, NEMA 4
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL Listed, FM Class 1, Div 2, CSA, CE
Extras	Manual override as standard

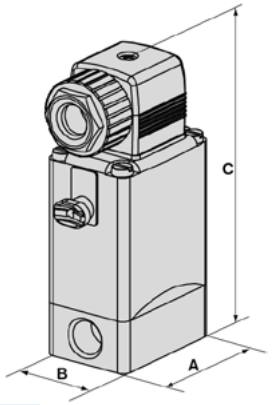
Options

- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit aggressive media
- Vacuum ring version
- Cable plug with conduit entry (2509)
- Cables plug with LED
- Cable plug with varistor
- Manifold mounting (Type 0331) - Class 1, Div 2 FM & CSA

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included (see page 30)



Size	A	B	C
1/4"	1.81	1.34	3.94

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [1] AC [PSI]	Pressure range [1] DC [PSI]	Voltage/Frequency [V/Hz] 24/DC	24/60	120/60	240/60
Brass valve body								
NPT 1/4	3	0.27	0-85	0-85	453 026	453 025	453 024	98106029
NPT 1/4	4	0.33	0-42	0-42	455 055	98106031	98103075	98106034
Stainless steel valve body								
NPT 1/4	3	0.27	0-85	0-85	98103061	98108957	453 558	98108956
NPT 1/4	4	0.33	0-42	0-42	98105692	98108955	453 634	98108954

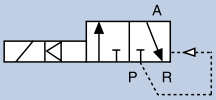
[1] Pressure range for DC valves is 25% less than stated in the table.

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

0340

NPT 1/4” - NPT 1”, 7-232 PSI

- Servo-Piston for large flow rates
- Pivoted armature isolated pilot
- Manual override as standard



Shown with 2508 plug

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.

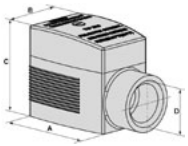
Technical Data

Pressure range	7-232 PSI, Max.
Temperature media	32 °F ... +194 °F
Ambient temperature	131 °F, Max.
Body material	Brass
Seal material	NBR
Coil material	Epoxy
Power consumption	DC: 8 W, AC: 30 VA (inrush), 15 VA (hold)
Protection class	IP65, NEMA 4
Electrical Connection	2509 cable plug Form A (included)
Accreditations	UL, CSA, CE
Extras	Manual override as standard

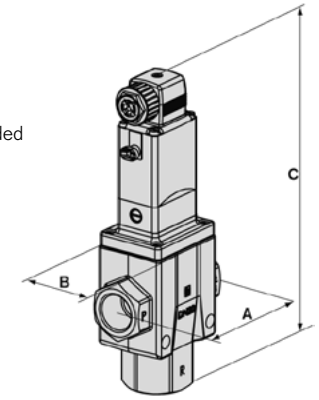
Options

- Electrical position feedback
- Impulse coil
- Range of diaphragm seals to suit difficult media
- Cables plug with LED
- Cable plug with varistor
- Class 1, Div 2 FM & CSA

Envelope Dimensions [inch] (see datasheet for details)



2509 cable plug Form A included
(see page 30)



Size	A	B	C
1/4"	2.56	1.30	6.08
3/8"	2.99	1.30	7.07
1/2"	2.99	1.30	7.07
3/4"	3.54	2.05	8.48
1"	4.33	2.36	9.35

Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	24 V/60 Hz	120 V/60 Hz
Circuit function C						
NPT 1/4	8	1.1	7-232	453 286	–	98101599
NPT 3/8	12	2.7	7-232	–	–	453 378
NPT 1/2	12	3.0	7-232	453 290	453 291	453 292
NPT 3/4	20	7.7	7-232	98100981	464 358	453 296
NPT 1	25	11.7	7-232	461 657	–	453 300
Circuit function D						
NPT 3/8	12	2.7	7-232	–	–	454 091
NPT 1/2	12	3.0	7-232	453 310	–	453 312

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 minimizes friction and stick-slip effects to provide unmatchable span, repeatability and sensitivity.

Cable plugs and Conduit Connection

0 to 250 VAC, DIN 43650

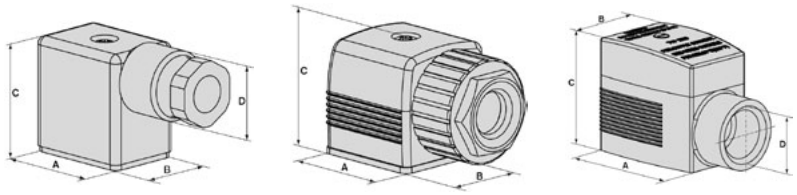
- Compact and simple to wire
- IP65 / NEMA 4X
- Also available with LED indicator
- Global Approvals

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 an AS-i versions (2510/2511). The flexible design allows 180° installation flexibility.

2509 - Plug on conduit connector for UL Listed valves and sensors. LED, rectifier, varistor models are also available. This connector is also employed in CSA and FM Class 1 Div 2 applications.

Envelope Dimensions [inch] (see datasheet for details)



Type	A	B	C
2507	2.01	0.82	1.26
2508	1.81	1.10	1.08
2509	2.32	1.28	1.28

Technical Data

Type	2507	2508	2509
Body material	Polyamide	Polyamide	Polyamide
Contacts	Silver plated copper alloy	Silver plated copper alloy	Silver plated copper alloy
Rotation	2 x 180 degrees	4 x 90 degrees	4 x 90 degrees
Cable diameter	0.2" - 0.27"	0.24" - 0.27"	≤ 0.118" through 1/2" NPT
Continuous temperature limit	194 °F	194 °F	131 °F
Rating	6 A	6 A	6 A
Nominal voltage	0-250V	0-250V	0-250V
Feedback of function	Optional Red LED	Optional Red LED	Optional Yellow LED
Protection	NEMA 4, IP65	NEMA 4, IP65	NEMA 4, IP65

Ordering Chart

Circuitry	Voltage	Max. current	Item no. 2507	Item no. 2508	Item no. 2509
Standard (without electronics)	0 – 250 V AC/DC	6 A	423 845	008 376	137 943
With LED	24 V AC/DC	6 A	423 849	–	–
With LED and varistor	24 V DC	1.5 A	423 851	–	–
With LED	12 - 24 V/AC/DC	6 A	–	008 360	–
With LED	100 - 120 V/AC/DC	6 A	–	008 361	–
With LED	200 - 240 V/AC/DC	6 A	–	008 362	–
With LED and varistor	12 – 24 V AC/DC	3 A	–	–	137 944
With LED and varistor	100 – 120 V AC/DC	3 A	–	–	137 945
With LED and varistor	200 – 240 V AC/DC	3 A	–	–	137 946
With LED, rectifier and varistor	12 – 24 V AC/DC	1 A	–	–	137 947
With LED, rectifier and varistor	100 – 120 V AC/DC	1 A	–	–	137 948
With LED, rectifier and varistor	200 – 240 V AC/DC	1 A	–	–	137 949

Type 1078-2
and 1077-2

Type 1078-1

0.5 s to 10 s up to 0.5 h...10 h

- Programmable alone or using separate operating unit
- Various switching functions
- Safety function

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

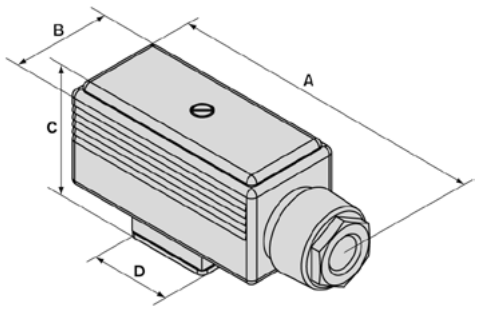
Time range	0.5 s...10 s up to 0.5 h...10 h
Display	LED-connected power supply, LED-energized load
Adjustment 1078-1	DIP-switches, precision adjustment of response times via potentiometers
Adjustment 1078-2	Two buttons via 1077-2 programmer (not included)
Switching functions	4 (1078-1), 8 (1078-2)
Body material	Polyamide
Operating voltages	See table
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	14 °F to 140 °F
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

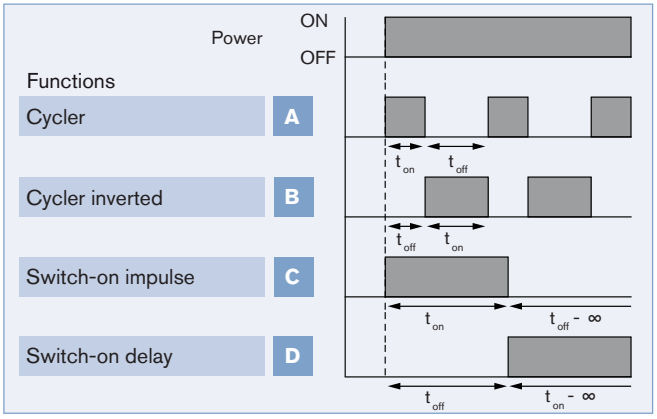
- 1078-2 without operating unit
- Unit for max time 100 h (option NA15)

Envelope Dimensions [inch] (see datasheet for details)



A	B	C
3.54	1.10	2.11

Functions



Ordering Chart

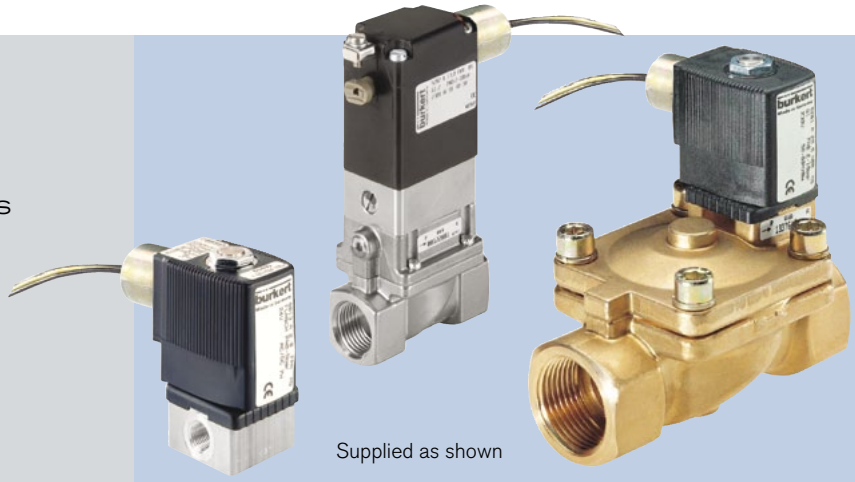
Type	Item no. Voltage/Frequency [V/Hz]		
	12 V DC	24-48 V/50-60 Hz	120-240 V/50-60 Hz
1078-1	456 180	456 179	456 178
1078-2	–	456 182	456 181

1077-2	Programming module	060 638

HazEx™ Solenoid Valves for Hazardous Locations

1/8" to 2"

- Valves designed exclusively for demanding Class 1 environments
- Fully Encapsulated Coils
- 1/2" NPT Conduit



Supplied as shown

Bürkert's worldwide certifications allow North American 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 HazEx™ locations. This page shows only a small example of the complete range.

Technical Data

	6013	5281	5282
Pressure range	0-355 PSI, Max.	2.9-232 PSI, Max.	2.9-145 PSI, Max.
Size range	1/8" and 1/4"	1/2" to 2"	1/2" to 2"
Temperature media	14 °F ... +212 °F	+14 °F ... +176 °F	+32 °F ... +194 °F
Surface temperature	T4 = 135 °C / 275 °F Max. Surface Temperature	T4 = 135 °C / 275 °F Max. Surface Temperature	T4 = 135 °C / 275 °F Max. Surface Temperature
Body material	Brass or Stainless steel	Brass	Stainless steel (Brass available)
Seal material	FKM	NBR	FKM
Power consumption	DC: 8 W	DC: 8 W	DC: 8 W
Protection class	IP65, NEMA4	IP65	IP65
Electrical Connection	Conduit	Conduit	Conduit
Accreditations	FM Class 1, 11, 111; Groups A, B, C, D, E, F and G; Div. 1 CSA Class 1, 11, 111; Groups A, B, C, D, E, F and G; Div. 1	FM Class 1, 11, 111; Groups A, B, C, D, E, F and G; Div. 1 CSA Class 1, 11, 111; Groups A, B, C, D, E, F and G; Div. 1	FM Class 1, 11, 111; Groups A, B, C, D, E, F and G; Div. 1 CSA Class 1, 11, 111; Groups A, B, C, D, E, F and G; Div. 2
Override	Optional	Optional	Manual override as standard

Ordering Charts

6013 HazEx™

Connection	Orifice [mm]	Cv	Material	DC PSI	AC PSI	Item no. 24 VDC	Item no. 120 VAC
1/8"	1.8	0.14	Brass	0-172	0-355	462 272	462 273
1/8"	1.8	0.14	Stainless	0-172	0-355	462 280	462 281
1/4"	1.8	0.14	Brass	0-172	0-355	462 274	462 275
1/4"	1.8	0.14	Stainless	0-172	0-355	462 282	462 283
1/8"	3.0	0.27	Brass	0-87	0-145	462 276	462 277
1/8"	3.0	0.27	Stainless	0-87	0-145	462 284	462 285
1/4"	3.0	0.27	Brass	0-87	0-145	462 278	462 279
1/4"	3.0	0.27	Stainless	0-87	0-145	462 286	462 287

Options

- **6013** - Normally open; Three way (6014)
- **5281** - Normally open (0281B); Brass body
- **5282** - Normally open; Three way (0340)

5281 HazEx™, brass, PSI 2.8 - 232

Connection	Orifice [mm]	Cv	Item no. 24 VDC	Item no. 120 VAC
1/2"	13	4.6	462 292	462 293
3/4"	20	5.8	462 294	462 295
1"	25	11.6	462 296	462 297
1-1/4"	32	23.3	462 298	462 299
1-1/2"	40	23.3	462 300	462 301
2"	50	46.6	462 302	462 303

5282 HazEx™, stainless steel, PSI 2.8 - 145

Connection	Orifice [mm]	Cv	Item no. 24 VDC	Item no. 120 VAC
1/2"	20	5.8	462 316	462 317
3/4"	20	5.8	462 318	462 319
1"	25	11.6	462 320	460 644
1-1/4"	32	23.3	462 321	460 645
1-1/2"	40	23.3	459 323	460 646
2"	50	46.6	462 322	462 323

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

When using a centralized 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 decentralize process control into the field.

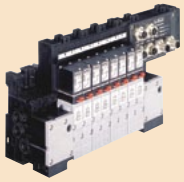
Decentralized Process Actuation & Control

8691
page 57

Cabinets and Control Solutions

Control cabinets

Valve Islands and Fieldbus



8640 Profibus
page 37

8644 Rockwell AirLINE
page 38

8650 AirLINE Ex

Valve Blocks and Manifolds

6014

8640 with 5470 valves

8640 with 6518/6519 valves

Single Pilot Valves

6012P
page 34

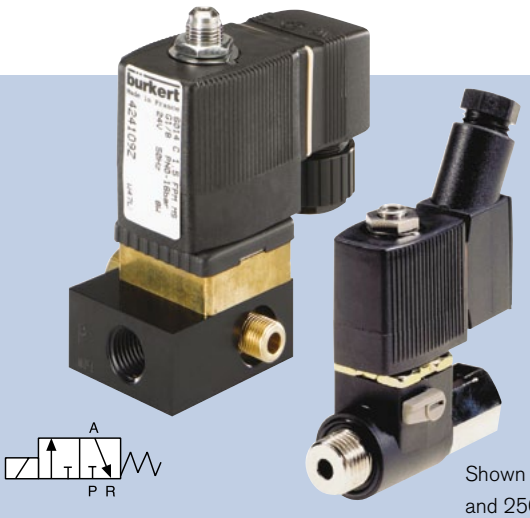
6014P
page 34

6519
page 35

Direct Mounting Pilot for Bürkert Process Valves

NPT 1/8” & NPT 1/4”, 0-232 PSI

- Simple to connect to valve and air supply
- Low power
- Tough and reliable



Shown with 2508 and 2506 plug

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

Technical Data

	6012 P	6014 P
Pressure range	0-145 PSI, Max.	0-232 PSI, Max.
Temperature media	14 °F ... +212 °F	14 °F ... +212 °F
Ambient temperature	131 °F, Max.	131 °F, Max.
Body material	Polyamide	Brass and aluminum
Banjo bolt material	Brass, nickel plated	Brass, nickel plated
Seal material	NBR	FKM
Coil material	Polyamide	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	IP65, NEMA 4
Electrical Connection	2507 cable plug Form B	2508 cable plug Form A

Options

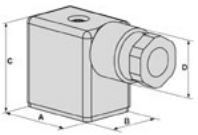
6012 P

- Normally open (function D)
- Cables plug with LED
- Cable plug with varistor
- 24 VAC and 240 VAC on request

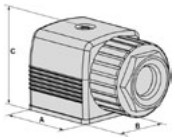
6014 P

- Normally open (function D)
- Cables plug with LED
- Cable plug with varistor
- Hazardous area approvals

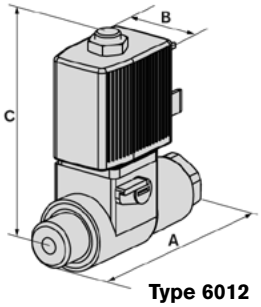
Envelope Dimensions [inch] (see datasheet for details)



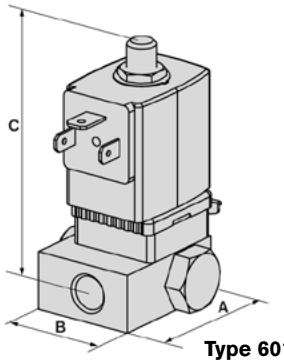
2507 cable plug
Form B included
(see page 30)



2508 cable plug
Form A included
(see page 30)



Type 6012

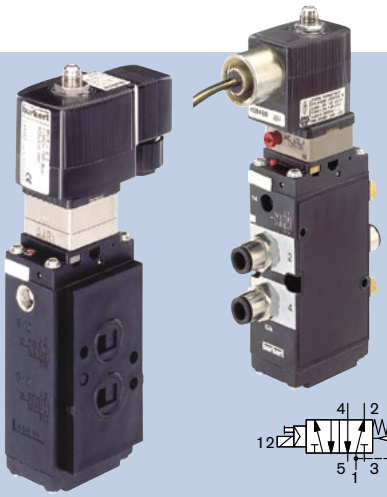


Type 6014

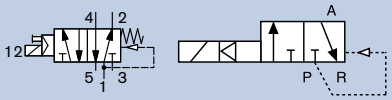
Type	A	B	C
6012 P	2.24	0.79	3.15
6014 P	2.13	1.77	3.50

Ordering Chart

Connection Actuator/Air	Orifice [mm]	Cv	Pressure range [PSI]	Item no. Voltage/Frequency [V/Hz] 24 V DC	120 V/60 Hz
6012 P					
1/8” BSP / 1/4” NPT	1.2	1.7	0-145	552 275	552 277
1/4” BSP / 1/4” NPT				552 279	552 281
6014 P					
1/8” BSP / 1/4” NPT	1.6	0.08	0-230	429 142	429 144
1/4” BSP / 1/4” NPT	1.6	0.08	0-230	429 130	429 132
1/8” BSP / 1/4” NPT	2.0	0.13	0-140	429 146	429 148
1/4” BSP / 1/4” NPT	2.0	0.13	0-140	429 134	429 136



Shown with optional accessories



5/2-3/2-Way, NPT 1/4”-NAMUR, 28-115 PSI

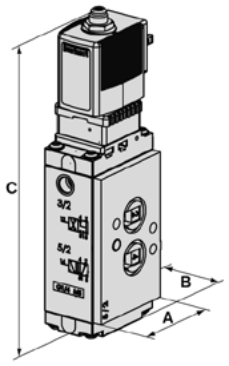
- 5/2 and 3/2-way functions in one delivery
- Extreme switch reliability
- Premium corrosion resistant construction

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	28 -115 PSI
Temperature media	-13 °F ... +140 °F
Ambient temperature	+140 °F, Max.
Manual override	Yes
Body material	Polyamide
Connections	NPT 1/4" (nickel plated brass) x NAMUR Nickel plated brass or Stainless steel
Orifice	6mm
Cv	0.9
Seal material	PB (NBR and PUR)
Coil material	Polyamide
Power consumption	2 W (for AC and DC)
Protection class	NEMA 4 (IP65) (standard
Electrical Connection	See table below
Accreditations	FM, UL Listed, UL Recognized, FM Class 1, Div 1 or Div 2, CSA, CE , ATEX, IEC per chart below

Envelope Dimensions [inch] (see datasheet for details)



For plug details please see page 30 and table below. Class 1 Div I valves are supplied with flying leads and conduit connector

Size	A	B	C
1/8"	1.26	1.38	2.89
1/4"	1.81	1.38	3.12

Options

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

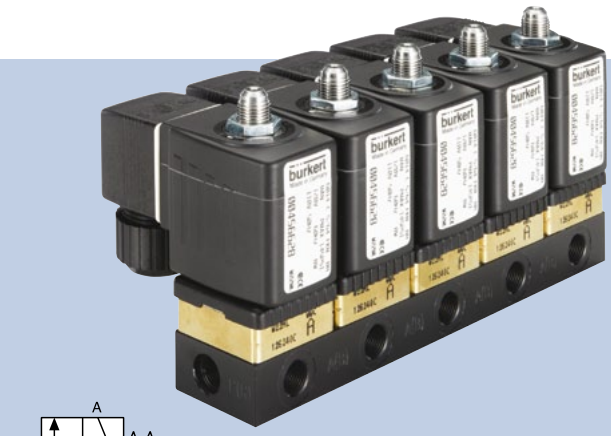
Ordering Chart

Type	Connections mechanical / electrical	Approvals	Item nos. 24/DC	Item nos. 120/60
Standard	NPT1/4” Nickel-plated / 2508 plug	UR	132 727	420 844
Standard	NPT1/4” Nickel-plated / 2509 conduit plug	UL	433 788	433 790
HazEx™	NPT1/4” Stainless / conduit with 18” flying leads	FM, CSA Class I, Div 1	459 232	459 233
EEx i	NPT1/4” Stainless / 2508 plug (blue)	FM	166 252	–

Heavy Duty 3/2 Way Pilot Valve Blocks

NPT 1/4", 0-145 PSI

- Extremely rugged
- Slip over coil design
- Manual override



Shown with 2508 plugs

Plug and play, pre-assembled and tested manifold solutions featuring our direct-acting 3/2 way normally closed solenoid valve. The valves are plunger operated and designed to work in process environments with double FKM seals and a strong 32mm coil. These small flexible systems are engineered specifically for process compressed air however Bürkert specializes in custom manifolds to suit any fluid purpose from 0.05mm to 4".

Technical Data

Pressure range	0-145 PSI, Max.
Temperature media	14 °F ... +212 °F
Ambient temperature	131 °F, Max.
Manual override	Yes
Body material	Brass
Manifold material	Anodized aluminum
Connections	NPT 1/4"
Valves	24 VDC (456 634) or 120 VAC (456 636)
Orifice	2 mm
Cv	0.13
Seal material	FKM
Coil material	Epoxy
Power consumption	DC: 8 W, AC: 24 VA (inrush), 17 VA (hold)
Protection class	IP65, NEMA 4
Electrical Connection	2509 Cable plug Form A (included)
Accreditations	UL Listed, FM Class 1, Div 2, CSA, CE

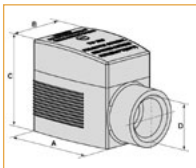
Options

- Manifolds of many engineering materials
- Intrinsically safe range (1 option shown in table as example)

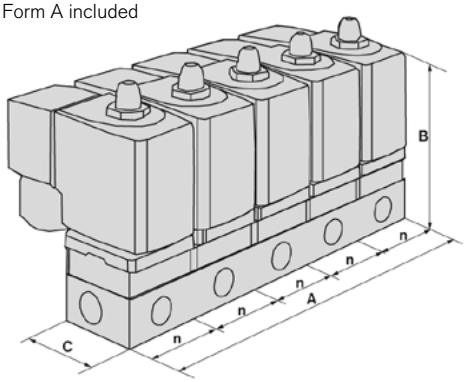
Ordering Chart for manifold mount valves

Voltage	Item no. standard	Item no. with manual override
24 VDC	456 626	456 634
120 VAC	456 628	456 636

Envelope Dimensions [inch] (see datasheet for details)



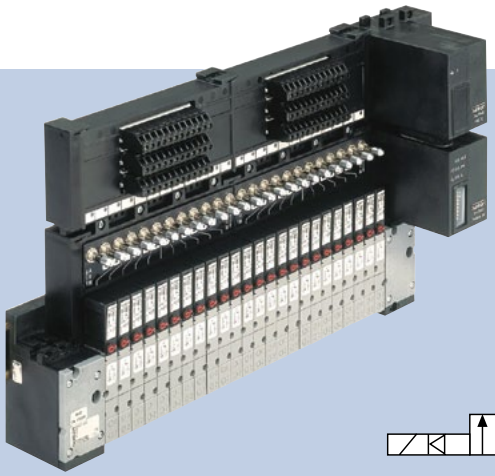
2509 cable plug Form A included
(see page 30)



No. of blocks	A	B	C
2	2.56	1.77	3.30
3	3.86	1.77	3.30
4	5.16	1.77	3.30
5	6.46	1.77	3.30
6	7.76	1.77	3.30
7	9.06	1.77	3.30
8	10.35	1.77	3.30
9	11.65	1.77	3.30
10	12.95	1.77	3.30

Ordering Chart for manifold

Positions	Item no.
2	006 104
3	613 828
4	006 106
5	613 829
6	613 598
8	613 831
10	613 833



5/2, 3/2 way or 5/2 way valves, bus or conventional communication

- Simple to configure and use
- DIN rail mounted
- DeviceNet or Profibus compatible

CE

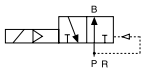
This process valve island offers many combinations of valve function together with fieldbus connectivity in an extremely compact envelope.

Technical Data

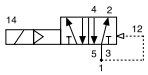
Body material	PA (polyamide)
Seal material	FKM, NBR
Media	Lubricated and non-lubricated dry air, neutral gases (5 µm-Filter)
Manual override	Yes
Voltage 24 V DC	24 V DC
Nominal power	2 x 1 W
Duty cycle	Continuous operation (100% ED)
Cv	0.28 / QNn = 300l/min
Pilot method	Flipper pilot
Circuit function	C 3/2 way normally closed
Pressure range	36.25 - 145 PSI
Orifice size	4 mm
Pneumatic outlet	Push in 1/4" tube

Options

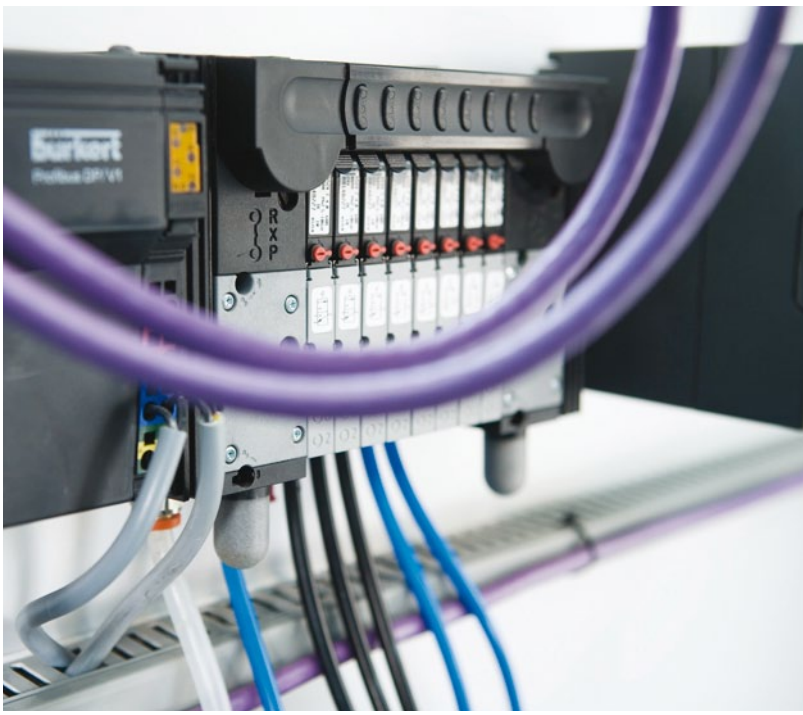
- Further valves
- Further input/output slots
- Circuit function D (normally open 3/2 way valves)



- Circuit function H (5/2 way valves)



- 16mm wide valves with Cv of 0.64 / 600l/min
- Cover plates for open slots
- Fully installed in one piece cabinet
- RIO Interface to allow hundreds of valves and feedbacks on one bus node



Ordering Chart

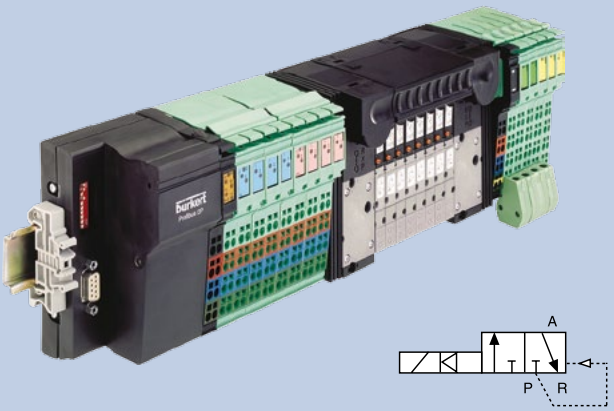
Communication	Item no. 16 valves (8 x (2 x 3/2 way))	Item no. 24 valves (12 x (2 x 3/2 way))
Individually wired (common ground)	217 928	217 934
Multipole 25 pin connector	217 930	217 935
DeviceNet	217 931	217 936
Profibus DPV 1	217 932	217 937

This chart shows only 8 simple configurations. The 8640 can be configured in a vast array of possibilities. Please visit the website for the configurators or call our experienced technical support.

3/2 way or 5/2 way valves plus analog and digital I/O, bus or conventional communication

- Combines fieldbus, I/O and pneumatic pilots
- Extreme application flexibility

CE



Stemming from our expertise in the supervision and control of complete loops AirLINE is more than a valve island. It accepts a wide array of digital and analogue field inputs and sends digital and analogue outputs for exact control where it matters.

This unique device marries virtually any combination of valve island functionality and electronic signals to the widest range of fieldbus connectivity.

AirLINE leaves the freedom to choose between electronic modules as it creates a fully integrated fieldbus communication, process valve actuation and control platform.

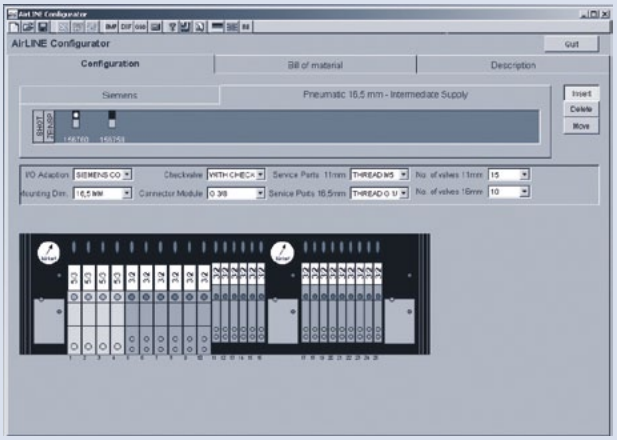
Special features make Bürkert AirLINE unique:

- Bürkert's exceptional process pneumatics designed and manufactured in Germany for valve actuation in the process environment
- Our ground-breaking modular system fit in your world and in your cabinet
- AirLINE with WAGO I/O System 750 and AirLINE with Siemens ET 200S can be used in hazardous applications in Zone 2
- With integrated P shut-off you are able to replace a valve even during operation
- Additional integrated check valves give a better protection for your installation
- Perfect process pneumatics with multiple communication possibilities

Technical Data

Body material	PA (polyamide)
Seal material	FKM, NBR
Media	Lubricated and non-lubricated dry air, neutral gases (5 µm-Filter)
Manual override	Yes
Voltage 24 V DC	24 V DC
Nominal power	2 x 1 W
Duty cycle	Continuous operation (100% ED)
Cv	0.28 / QNn = 300l/min
Pilot method	Flipper pilot
Circuit function	C 3/2 way normally closed
Pressure range	36.25 - 145 PSI
Orifice size	4 mm
Pneumatic outlet	Push in 1/4" tube

Configuration Software



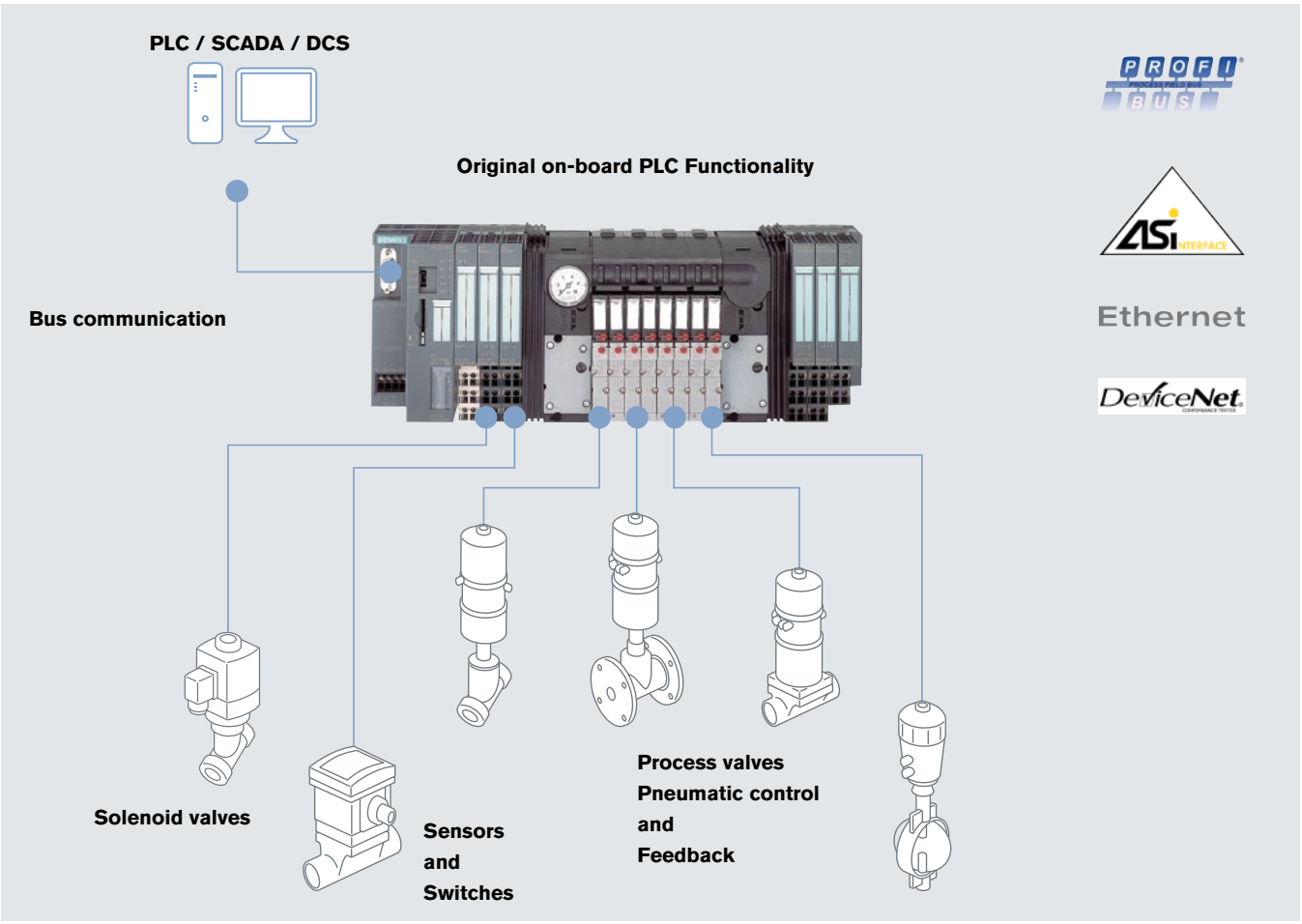
AirLINE is a system of modular design which is precisely adapted to the specific requirements of the customer. Bürkert offers a software programme, the simple, precise generation of the required configuration of each AirLINE system.

The Bürkert Configurator defines
- Number and types of valves
- Type of (intermediate) supplies
- Combination of Fieldbus, pilot valves and I/O modules

The results supplied by the Configurator
- Bill of materials, incl. list prices
- Illustration
- Drawings

Options

- Further valves
- Further digital and analog input/output slots
- Allen Bradley, Wago, Phoenix Contact, Siemens compatible islands
- Circuit function D (normally open 3/2 way valves)
- Circuit function H (5/2 way valves)
- 16mm wide valves with Cv of 0.64 / 600l/min
- Cover plates for open slots
- Fully installed in one piece cabinet



Ordering Chart

Communication	Item no. 16 valves (8 x (2 x 3/2 way)) 16 digital inputs	Item no. 24 valves (12 x (2 x 3/2 way)) 24 digital inputs
AB	219 284	219 285
Siemens	218 197	218 198
Wago	218 194	218 196
Phoenix	218 193	218 192

This chart shows only 8 simple configurations. The 8644 can be configured in a vast array of possibilities. Please visit the website for the configurators or call our experienced technical support

Network your ideas... quicker than ever

Bürkert connects a world of process solutions to work efficiently. Across U.S. and 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-ionized water to hydrochloric acid to offer peace of mind with the sure knowledge you have chosen experience and quality.

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Control and Communication

Manual
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Rotary
page 56

Classic
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ELEMENT
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Operators

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Globe
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Diaphragm
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Diaphragm
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Ball
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Valve Bodies

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

NPT 1/2" - NPT2 1/2", 0-232 PSI

- Superior performance over ball valves
- Worldwide benchmark for quality and reliability
- Waterhammer-free

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	0-232 PSI, Max.
Temperature media	14 °F ... +356 °F
Ambient temperature Max.	140 °F
Body material	Bronze, stainless steel
Seal material	PTFE
Actuator Material	Polyamide (optional PPS)
Control medium	Instrument air at 80 PSI
Flow direction	Under seat anti water-hammer
Port connection	NPT
Safe position	Normally closed or normally open

Options

- Normally open
- Double acting
- Solenoid pilot valves (see page 34)
- Vacuum version
- Feedback switches
- Steam version (see page 46)
- Cleaned for oxygen service
- 2 1/2" valve with overseat PPS actuator

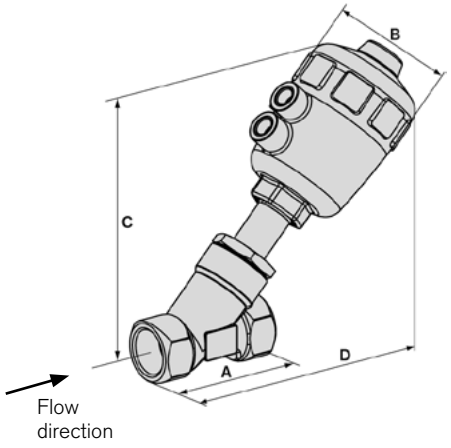
Accessories for 2100

8690 Control Top

8691 Control Top with superBRIGHT feedback

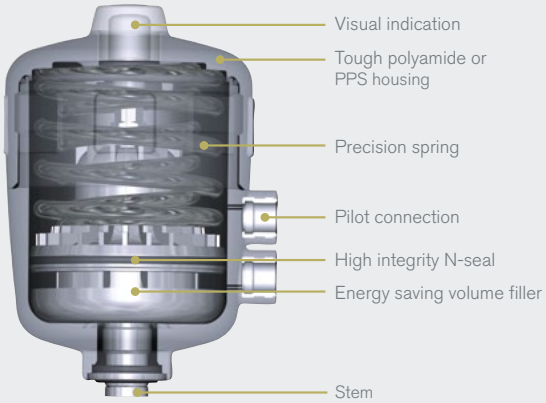
6012P pilot valve

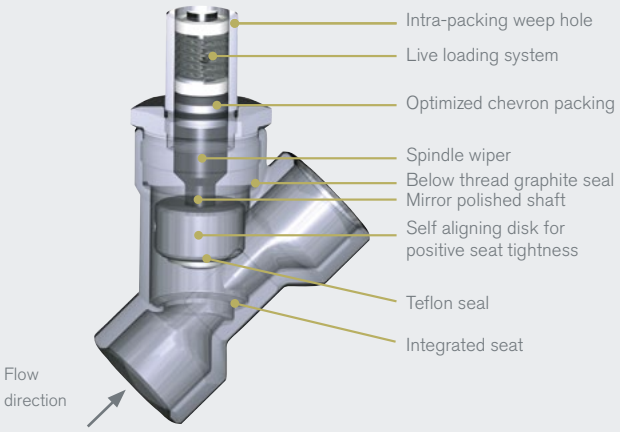
Envelope Dimensions [inch] (see datasheet for details)



Size	A	B	C	D
1/2"	2.56	2.09	4.45	5.39
1/2"	2.56	2.52	5.35	6.42
3/4"	2.95	2.52	5.67	6.57
3/4"	2.95	3.15	6.65	7.68
1"	3.54	3.15	6.69	7.83
1"	3.54	3.98	7.56	8.70
1 1/4"	4.33	3.98	8.27	10.04
1 1/2"	4.72	3.98	8.39	9.80
1 1/2"	4.72	5.00	10.24	11.81
1 1/2"	4.72	6.02	11.34	12.91
2"	5.91	5.00	10.71	12.48
2"	5.91	6.02	11.89	13.66
2 1/2"	7.28	5.00	11.30	13.54
2 1/2"	7.28	6.02	12.48	14.72

Sectional Drawings





Ordering Charts

Standard PA Actuator

2000 for liquids	Actuator	CV	Pressure	Bronze	Stainless Steel
Normally Closed					
1/2"	40	4.3	–	463 570	463 612
1/2"	50	4.9	232	463 571	463 613
3/4"	50	9.3	160	463 572	463 614
3/4"	63	11.6	232	463 573	463 615
1"	63	22.0	160	463 574	463 616
1"	80	23.2	232	463 575	463 617
1 1/4"	80	31.3	218	463 576	463 618
1 1/2"	80	32.5	150	463 577	463 619
1 1/2"	100	44.1	181	464 014	464 015
1 1/2"	125	44.1	232	463 578	463 620
2"	100	63.8	104	454 610	454 624
2"	125	63.8	150	454 785	454 789
2 1/2"	125	104.4	75	454 611	454 625
2 1/2"	125	104.4	102	462 656	462 657
Normally Open					
1/2"	40	4.4	–	463 579	463 621
1/2"	50	4.9	232	463 580	463 622
3/4"	50	9.3	232	463 581	463 623
1"	50	11.6	232	463 582	463 624
1 1/4"	63	22.0	232	463 583	463 625
1 1/2"	63	23.2	232	463 584	463 626
1 1/2"	80	31.3	232	464 016	464 017
2"	63	32.5	188	454 617	454 602
2"	80	63.8	232	454 787	454 791
2 1/2"	80	63.8	217	454 618	454 603

PPS Actuator for high temperatures and severe washdown environment

2000 for liquids	Actuator	Cv	Pressure	Bronze	Stainless Steel
Normally Closed					
1/2" NPT	40	4.3	218	463 592	463 634
1/2" NPT	50	4.9	232	463 593	463 635
3/4" NPT	50	9.3	160	463 594	463 636
3/4" NPT	63	16.8	232	463 595	463 637
1" NPT	63	31.3	160	463 596	463 638
1" NPT	80	40.6	232	463 597	463 639
1 1/4" NPT	80	40.6	203	463 598	463 640
1 1/2" NPT	80	56.8	145	463 599	463 641
2" NPT	100	60.3	105	464 018	464 019
2" NPT	125	89.3	145	457 285	464 020
Normally Open					
1/2" NPT	40	4.3	232	463 600	463 642
1/2" NPT	50	4.9	232	463 601	463 643
3/4" NPT	50	9.3	232	463 602	463 644
1" NPT	50	16.8	232	463 603	463 645
1 1/4" NPT	63	31.3	232	463 604	463 646
1 1/2" NPT	63	40.6	232	463 605	463 647
2" NPT	63	56.8	188	464 021	464 022
2" NPT	80	60.3	218	464 023	464 024

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

1/2" - 2", 0-362 PSI

- Perfect for clean applications
- Wide range of accessories
- FreshAIR control function with ELEMENT Control Tops

ELEMENT angle seat valves with OD tube weld ends 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

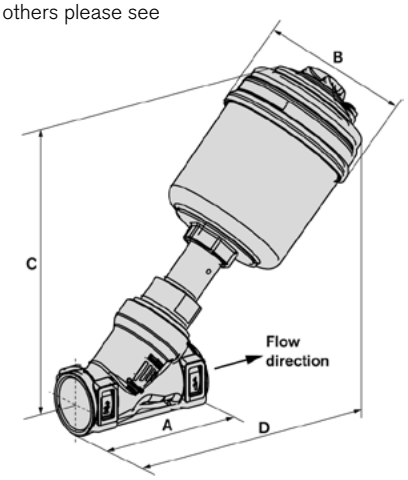
Angle Seat	2100 ELEMENT
Pressure range	0-362 PSI, Max.
Temperature media	14 °F ... +356 °F (150# steam)
Ambient temperature Max.	194 °F, Max.
Body material	316L stainless steel
Seal material	PTFE
Actuator Material	Stainless steel/PPS
Control medium	Instrument air at 80 PSI
Flow direction	Under seat anti water-hammer
Port connection	NPT
Safe position	Normally closed

Options

- Normally open
- Double acting
- Solenoid pilot valves (see page 37)
- Vacuum version
- Feedback switches
- Cleaned for oxygen service

Envelope Dimensions [inch] (see datasheet for details)

Dimensions shown for threaded version for others please see datasheet

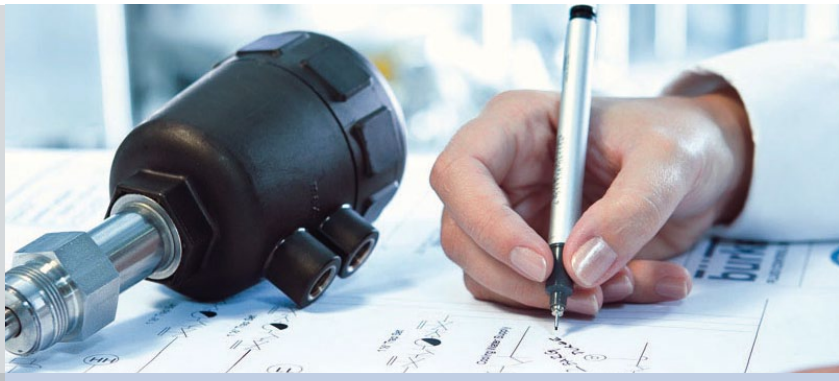


Port Connection	Actuator (mm)	A	B	C	D
1/2"	50	2.56	2.54	6.22	7.28
3/4"	70	2.95	3.58	7.13	8.31
1	70	3.54	3.58	7.36	8.66
1 1/4"	70	4.33	3.58	7.68	9.25
1 1/2"	70	7.72	3.58	7.75	9.29
2"	90	5.91	4.72	10.04	11.85

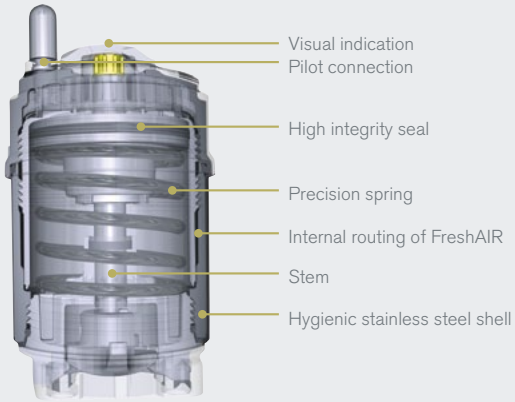
Accessories for 2100

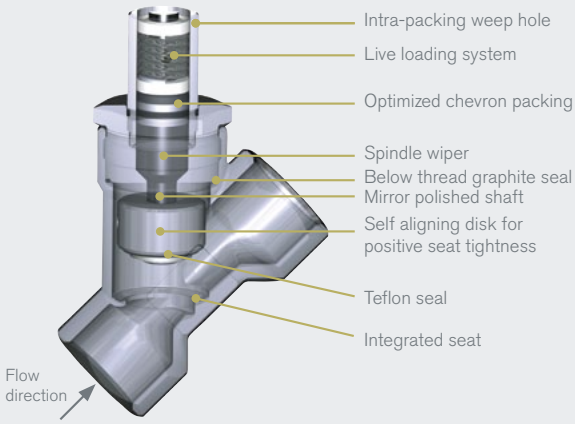
8690 Control Top

8691 Control Top with superBRIGHT feedback



Sectional Drawings





Ordering Charts

Stainless Steel 316L, NPT Threaded						
Size	**Orifice [mm]**	**Actuator**	**Pressure [PSI]**	**Cv**	**Item no. long body** (till end 2011)	**Item no. short body**
1/2"	13	50	362	5.8	187 053	213 652
1/2"	13	70	362	5.8	188 634	213 653
3/4"	20	70	290	12.8	188 635	213 654
1"	25	70	232	20.9	188 636	213 655
1 1/4"	32	70	123	31.4	188 637	213 656
1 1/4"	32	90	232	32.6	188 638	213 657
1 1/2"	40	70	87	44.2	188 639	213 658
1 1/2"	40	90	232	46.5	188 640	213 659
2"	50	90	145	64.0	188 641	–
2"	50	130	232	72.1	–	188 649

Stainless Steel 316L, Weld End OD Tube					
Size	**Orifice [mm]**	**Actuator**	**Pressure [PSI]**	**Cv**	**Item no.**
1/2"	15	50	362	5.8	187 077
1/2"	15	70	362	5.8	188 726
3/4"	20	70	290	12.8	188 727
1"	25	70	232	20.9	188 728
1 1/2"	40	70	87	44.2	188 729
1 1/2"	40	90	232	46.5	188 730
2"	50	90	145	64.	188 731

Stainless Steel 316L, Hygienic Clamp					
Size	**Orifice [mm]**	**Actuator**	**Pressure [PSI]**	**Cv**	**Item no.**
1"	15	50	25	3.6	187 103
1"	15	70	25	3.6	188 806
1"	20	70	20	8.6	188 807
2"	25	70	16	17.2	188 808
2"	40	70	6	32.7	188 809
2"	40	90	16	34.4	188 810
2 1/2"	50	90	10	45.6	188 811

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

2000

NPT 1/2" - NPT 2 1/2",
0-232 PSI or 150#

- Worldwide benchmark for quality and reliability
- PPS head for hot environments
- Self adjusting double packing

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.

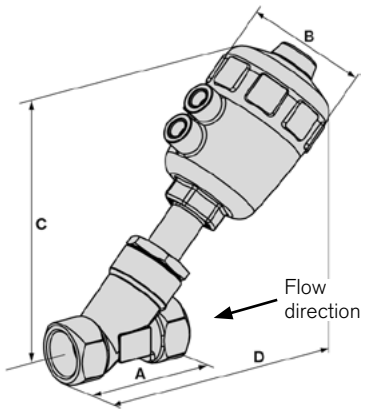
Technical Data

Pressure range	0-232 PSI, Max.
Temperature media	14 °F ... +356 °F
Ambient temperature Max.	PA actuator 14-140 °F PPS actuator 40-80 284 °F, 100-125 194 °F
Body material	Bronze, stainless steel
Seal material	PTFE
Actuator Material	Polyamide or PPS
Control medium	Instrument air at 80 PSI
Flow direction	Over seat to minimize actuator size
Port connection	NPT
Safe position	Normally closed

Ordering Chart

Connection	Actuator [mm]	Cv	Bronze	Stainless Steel
Normally closed polyamide head				
1/2" NPT	50	4.9	463 585	463 627
3/4" NPT	40	8.1	463 586	463 628
3/4" NPT	50	9.8	463 587	463 629
1" NPT	50	11.6	463 588	463 630
1" NPT	63	20.8	463 589	463 631
1 1/4" NPT	63	28.9	463 590	463 632
1 1/2" NPT	63	40.5	463 591	463 633
Normally closed, high ambient temperature PPS actuator				
1/2" NPT	50	4.9	463 606	463 648
3/4" NPT	50	9.3	463 607	463 649
1" NPT	50	22.0	463 608	463 650
1" NPT	63	20.8	463 609	463 651
1 1/4" NPT	63	31.3	463 610	463 652
1 1/2" NPT	63	40.6	463 611	463 653

Envelope Dimensions [inch] (see datasheet for details)

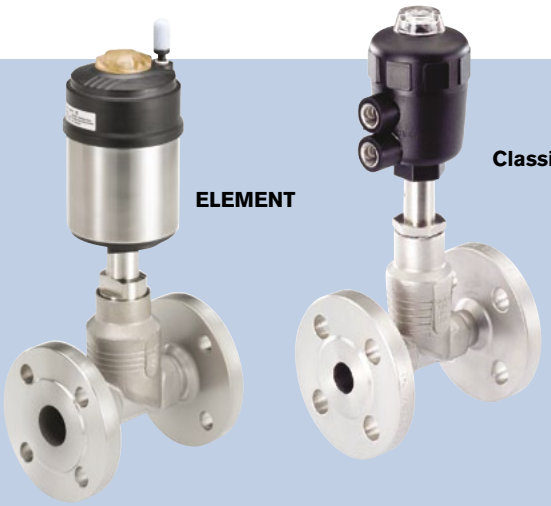


Size	A	B	C	D
1/2"	2.56	2.52	5.35	6.42
3/4"	2.95	2.52	5.67	6.57
1"	3.54	2.52	5.71	6.89
1"	3.54	3.15	6.69	7.83
1 1/4"	4.33	3.15	7.32	8.90
1 1/2"	4.72	3.15	7.44	9.02

Options

- Normally open
- Double acting
- Solenoid pilot valves (see page 34)
- Vacuum version
- Feedback switches
- High temperature actuator in PPS
- Chemically resistant actuator
- Cleaned for oxygen service
- Stroke limiter

On-Off Pneumatically Operated 2/2 Way Globe Valves with ANSI Flanges



1/2” - 4”, 0-232 PSI

- Accurate, quiet and reliable
- Perfect replacement for flanged ball valves
- Superior lifetime

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 North American standards.

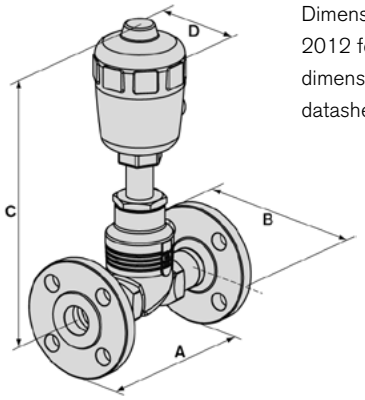
Technical Data

Pressure range	0-232 PSI, Max.
Temperature media	-10 °F ... +356 °F
Ambient temperature	131 °F, Max.
Body material	Stainless steel
Seal material	PTFE
Actuator Material	Polyamide (optional PPS for high temperature)
Control medium	Instrument air (see pressure below)
Flow direction	Under seat anti water-hammer
Port connection	ASME B16.5 Class 150 RF, ISA face-face

Options

- Normally open
- Double acting
- Solenoid pilot valves (see page 34)
- Vacuum version
- Feedback switches
- High temperature actuator
- Chemically resistant actuator
- Stroke limiter
- Cleaned for oxygen service
- JIS and DIN flanges

Envelope Dimensions [inch] (see datasheet for details)



Dimensions shown for 2012 for exact 2101 dimensions please see datasheet

Size	A	B	C	D
1/2"	7.24	3.50	8.31	2.52
3/4"	7.24	3.90	9.72	3.15
1"	7.24	4.25	10.75	3.98
1 1/2"	8.74	5.00	15.63	6.18
2"	10.00	6.00	15.83	6.18
2 1/2"	10.87	7.00	16.93	6.18
3"	11.73	7.50	19.61	8.31
4"	13.86	9.02	20.00	8.31

Ordering Chart

Port Connection flange [inch]	Actuator [mm] 2012	2101	Cv	Minimum pilot pressure CFA [PSI]	Maximum operating pressure (PSI)	Item no. Classic, Type 2012	Item no. ELEMENT, Type 2101
1/2”	50	50	5.5	57	232	146 258	203 095
3/4”	63	70	9.4	61	232 / 290	146 294	203 097
1”	80	70	15.1	73	232	146 572	203 098
1 1/2”	125	90	36	47	232	146 338	203 101
2”	125	130	52.2	47	145 / 232	146 356	218 419
2 1/2”	125	130	84.7	82	174	152 742	219 535
3”	175	–	127.6	65	145	152 778	–
4”	175	–	179.8	65	102	152 814	–

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

2002

1/2” - 2” UNION x NPT, 0-232 PSI

- Superior performance over 3/2 ball valves
- Ready for installation with unions
- Long life actuator

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 bronze 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.

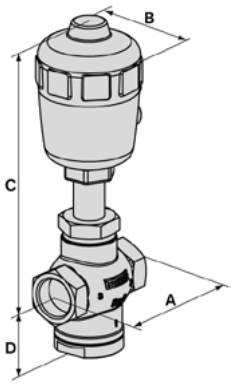
Technical Data

Pressure range	0-232 PSI, Max.
Temperature media	14 °F ... +356 °F
Ambient temperature Max.	140 °F
Body material	Bronze
Seal material	PTFE
Actuator Material	Polyamide (optional PPS)
Control medium	Instrument air at 80 PSI
Port connection	Metric (also stocked with adaption)
Safe position	Normally closed or normally open

Options

- Universal version normally open (Operation D)
- Double acting
- Solenoid pilot valves (see page 34)
- Vacuum version
- Feedback switches
- High temperature actuator in PPS
- Chemically resistant actuator
- Cleaned for oxygen service
- Stroke limiter

Envelope Dimensions [inch] (see datasheet for details)



Size	A	B	C
1/2”	2.95	2.52	8.98
1/2”	2.95	3.15	10.31
3/4”	2.95	2.52	8.98
1”	3.54	3.15	10.57
1 1/4”	4.72	3.98	11.93
1 1/4”	4.72	6.18	15.83
1 1/2”	4.72	3.98	11.93
1 1/2”	4.72	6.18	15.83
2”	6.30	6.18	17.13

Ordering Chart

Thread	Actuator	Cv 1 to 2	Cv 2 to 3	Metric Thread	With NPT Kit (1 x union and 2 x adapter)
1/2”	50	8.1	5.2	002 131	98124851
1/2”	63	10.5	6.4	002 300	98124852
3/4”	50	10.3	7.3	002 132	98124853
3/4”	63	12.2	7.6	002 301	98124854
1”	63	19.8	12.8	002 133	98124855
1 1/4”	80	37.2	25.6	002 134	98124858
1 1/4”	125	44.2	27.9	002 302	98124859
1 1/2”	80	39.5	27.9	002 135	98124860
1 1/2”	125	46.5	30.2	002 303	98124861
2”	125	64.0	43.0	002 136	98124862

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.

Manually Operated 2/2 Way Diaphragm Valve

3232

DN 1/2” - 2”, 0-145 PSI

- For aggressive media
- Flow optimized body
- Tough, durable PPS handwheel

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	0-145 PSI, Max.
Temperature media	See chart
Ambient temperature	131 °F, Max.
Body material	PVC (alternatively PP or PVDF)
Seal material	EPDM, PTFE/EPDM (FKM on request)
Handwheel / Bonnet	PPS / PPS
Process connection	True Union with solvent connection included

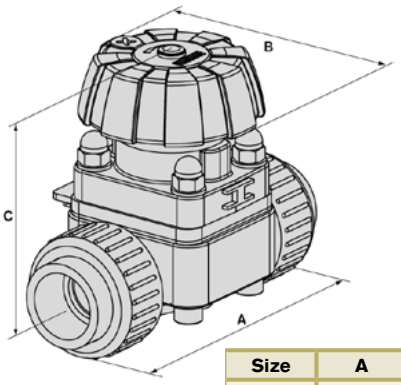
Options

- Pneumatic actuation (see page 51)
- Feedback switches
- PVDF body
- PP body

Ordering chart

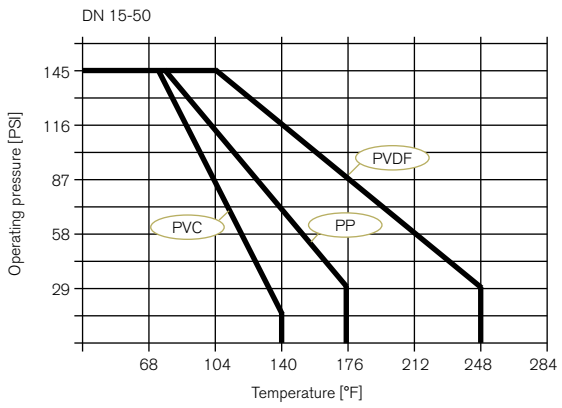
PVC	Cv	Pressure range	Item no.	
			EPDM	PTFE
1/2”	3.0	0 - 10	144 758	144 764
3/4”	6.2	0 - 10	144 759	144 765
1”	4.3	0 - 10	144 760	144 766
1 1/4”	16.3	0 - 10	144 761	144 767
1 1/2”	24.1	0 - 10	144 762	144 768
2”	34.4	0 - 7	144 763	144 769

Envelope Dimensions [inch] (see datasheet for details)



Size	A	B	C
1/2"	5.04	3.39	3.62
3/4"	5.98	3.39	4.02
1"	6.54	3.39	4.25
1 1/4"	7.56	4.49	5.47
1 1/2"	8.74	4.49	5.87
2"	10.47	4.49	6.69

Pressure-temperature compatibility chart



On-Off Pneumatically Operated 2/2 Way Diaphragm Valve

DN 1/2” - 2”, 0-145 PSI

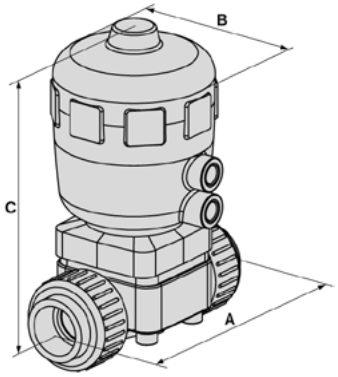
- Chemical environment valve
- Engineered Plastic Body
- Removable ASTM true union connections

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	0-145 PSI, Max.
Temperature media	14 °F ... +212 °F
Ambient temperature	131 °F, Max.
Body material	Brass, stainless steel
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)

Envelope Dimensions [inch] (see datasheet for details)



Size	A	B	C
1/2"	5.04	3.15	5.47
3/4"	5.98	3.98	6.81
1"	6.54	3.98	6.93
1 1/4"	7.56	5.00	9.09
1 1/2"	8.74	6.02	10.91
2"	10.47	6.02	11.18

Ordering chart

Orifice [DN]	True U. [inch]	Cv	Max. operating pressure [PSI]		Required minimal control pressure [PSI]	Actuator Size Ø [mm]	Item-No.	
			PTFE	EPDM			PTFE	EPDM
15	1/2	4.1	145	145	65.8	63	98103013	141 450
20	3/4	8.4	145	145	63.0	80	98103014	141 459
25	1	14.6	108	145	63.0	80	98103015	141 468
32	1 1/4	24.5	116	145	56.0	100	98103016	141 475
40	1 1/2	32.6	145	145	64.4	125	98103017	141 483
50	2	47.8	100	116	64.4	125	98103018	141 490

Manually Operated 2/2 Way Forged Diaphragm Valve

3233

1/2” - 2”, 0-145 PSI

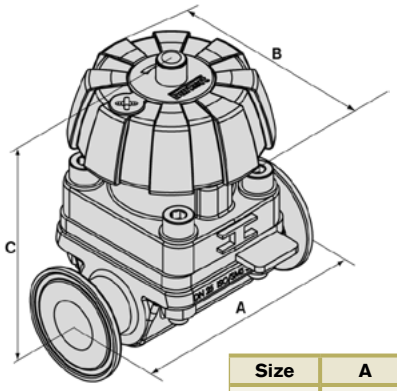
- Hermetic separation of fluids from operator
- Standard and customized variations available quickly
- Certifications for hygienic processing applications

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 favorable flow characteristics, its cleanability and its zero dead volume design.

Technical Data

Pressure range	0-145 PSI, Max.
Temperature media	-14 °F ... +212 °F
Ambient temperature	131 °F, Max.
Body material	Forged 316L ASME BPE specification
Internal finish	20Ra (internal)
External finish	Ra = 0.8 (external)
Seal material	EPDM, PTFE/EPDM (FKM on request)
Handwheel / Bonnet	PPS / PPS
Process connection	Hygienic clamp or OD Tube
Length	BPE (long or short)

Envelope Dimensions [inch] (see datasheet for details)



Size	A	B	C
1/2"	5.04	3.39	3.62
3/4"	5.98	3.39	4.02
1"	6.54	3.39	4.25
1 1/4"	7.56	4.49	5.47
1 1/2"	8.74	4.49	5.87
2"	10.47	4.49	6.69

Options

- All mechanical and electropolished finishes a standard
- Pneumatic actuation (see page 53)
- Feedback switches
- Locking function
- Other configurations
- Multi-port valve blocks
- CRN Approval with stainless flange

Ordering chart

Size	Orifice [mm]	PSI (EPDM)	PSI (PTFE)	CV	Clamp (EPDM)	Clamp (PTFE)	OD tube (EPDM)	OD tube (PTFE)
1/4”	8mm	150	150	0.8	445 858	445 823	447 935	447 955
3/8”	10mm	150	150	0.8	445 863	445 828	447 940	447 960
1/2”	15mm	150	150	6.9	445 868	445 833	445 573	445 608
3/4”	20mm	150	150	13.9	445 873	445 838	445 578	445 613
1”	25mm	150	110	18.5	445 878	445 843	445 583	445 618
1 1/2”	40mm	150	150	33.5	445 883	445 848	445 588	445 623
2”	50mm	101	101	62.4	445 888	445 853	445 593	445 628
2 1/2”	50mm	101	101	62.4	551 454	551 460	224 070	551 115
3”	80mm	72	72	185.0	551 347	551 377	449 821	550 633
4”	100mm	72	72	306.4	224 076	224 077	449 822	550 634

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

1/2" - 2", 0-145 PSI

- Beautiful look and feel
- Interface to feedback and control options
- FreshAIR control function with ELEMENT Control Tops

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

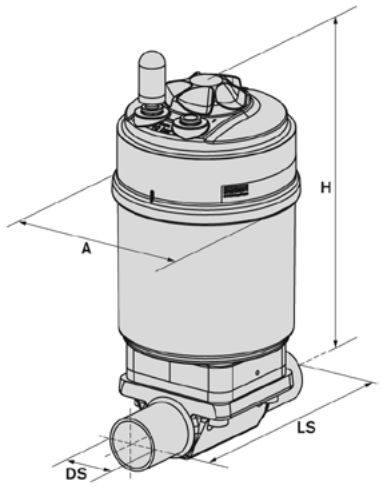
Technical Data

Pressure range	0-145 PSI, Max.
Temperature media	14 °F ... +212 °F
Ambient temperature	140 °F, Max.
Body material	Forged 316L stainless steel
Internal finish	25 Ra (others on request)
External finish	As milled
Seal material	PTFE or EPDM
Actuator Material	Polished 316L stainless steel / PPS
Control medium	Instrument air up to 140 PSI
Flow direction	Bidirectional
Connections	Weld end tube: hygienic clamp
Pilot connections	1/4" tube
Norms	FDA compliant , CRN available, 3A

Options

- BN2 material
- Block and weld bodies
- Any standard surface finish
- Classic actuator for sizes above 2"
- Intelligent positioner (see page 54)

Envelope Dimensions [inch] (see datasheet for details)



Orifice	Ø Actuator [mm]	Ø A	Ø DS	LS	H
1/4"	50	2.54	0.25	3.07	5.08
3/8"	50	2.54	0.38	4.25	5.67
1/2"	70	3.58	0.5	4.25	6.34
3/4"	70	3.58	0.75	4.61	6.73
1"	70	3.58	1	5	6.85
1 1/2"	130	6.26	1.5	6.26	11.34
2"	130	6.26	2	7.48	12.25

Ordering chart

Size	PSI (EPDM)	PSI (PTFE)	CV	CLAMP (EPDM)	CLAMP (PTFE)	OD tube (EPDM)	OD tube (PTFE)
1/4"	145	145	1.2	218 085	218 092	218 033	218 041
3/8"	145	145	1.2	218 070	218 078	218 034	218 042
1/2"	145	145	5.8	218 071	218 079	218 035	218 043
3/4"	145	145	10.4	218 072	218 080	218 036	218 044
1"	145	116	13.9	218 074	218 082	218 038	218 046
1 1/2"	145	145	37.0	218 075	218 083	218 039	218 047
2"	101	101	54.3	218 076	218 084	218 040	218 048

8802

2/2 way Continuous Control, 1/2" to 4"

- High Control Accuracy
- Stainless IP65 and 67, NEMA4 protection
- Simple to install and commission

ELEMENT Control Valves

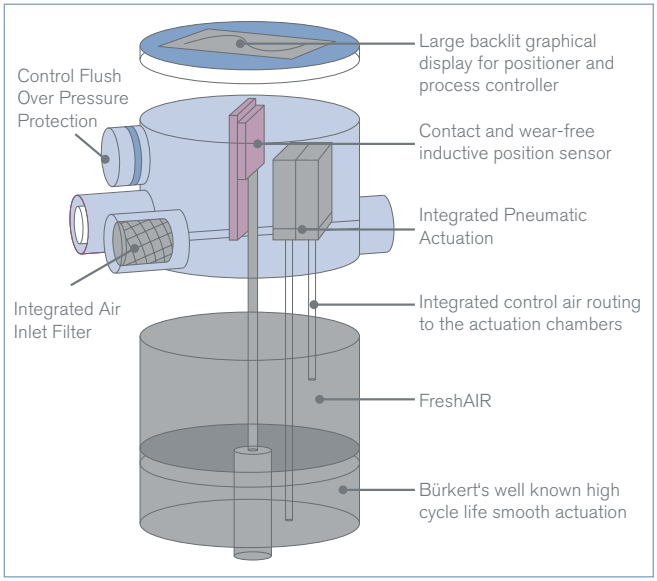
As part of a remarkable range of attractive and process control components our hardworking angle control valves offer high flows for large capacity heat exchange operations while our globe valves offer extreme precision and quiet operation. Both can be incorporated in the superlative 8802 control valve 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 EDEDG design standards and IP65/IP67/NEMA 4X
- Unrivalled control characteristics
- Positive positioner pressure and overpressure relief
- Unmatched Resistance to cleaning materials
- FreshAIR innovation eliminates corrosion of the spring chamber
- Security code lock
- Digital calibration
- Diagnostic tools
- PC interface set up tools
- DTMs
- Superb graphic backlit display
- Contactless, wear-free analog displacement transmitter
- Simple and reliable drive adaptation by automatic TEACH
- On board air filter
- ProcessTUNE
- Close tight cut off, inversion, free customized 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.

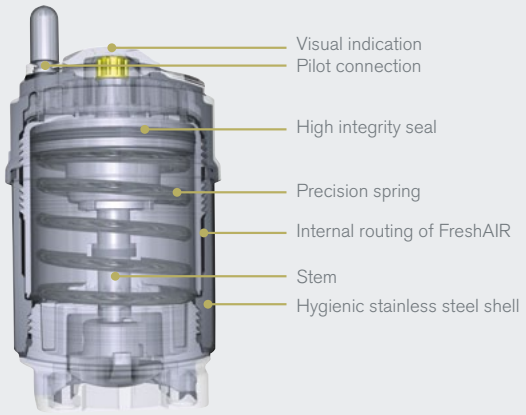
Truly Intelligent, Integrated and Beautiful.

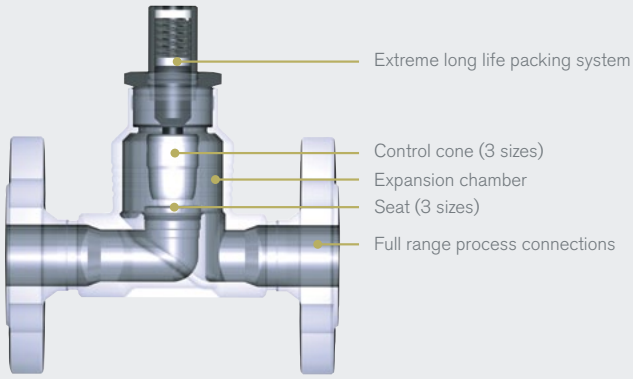


Technical Data

Angle Seat	2100 ELEMENT
Pressure range	0-362 PSI, Max.
Temperature media	14 °F ... +356 °F
Ambient temperature Max.	194 °F, Max.
Body material	316L stainless steel
Seal material	PTFE
Actuator Material	Stainless steel/PPS
Control medium	Instrument air at 80 PSI
Flow direction	Under seat anti water-hammer
Port connection	NPT
Safe position	Normally closed

Sectional Drawings





Ordering charts

Angle Control Valve (2300 + 8694/3)

Size	Orifice	Cv	Actuator	Pressure	with 8694 Positioner	with 8693 Process Controller
NPT Connection (new short body)						
1/2"	13	5.8	70	232	463 963	224 036
3"4"	20	11.6	70	232	463 964	463 990
1"	25	18.6	90	232	464 368	464 369
1 1/4"	32	26.7	90	232	464 370	464 371
1 1/2"	40	41.9	130	232	463 967	463 992
2"	50	61.6	130	232	463 966	463 993
OD Tube Connection						
1/2"	15	5.8	70	232	223 888	463 994
3"4"	20	11.6	70	232	223 890	463 996
1"	25	18.6	90	232	463 372	464 373
1 1/2"	32	41.9	130	232	223 919	463 995
2"	50	61.6	130	232	223 920	463 997

Globe Control Valve (2301 + 8694/3)

OD Tube Connection						
1/2"	10	2.4	70	232	223 926	464 000
3/4"	13	5.0	70	232	223 927	464 002
1"	20	8.3	70	232	464 011	464 003
1 1/2"	32	20.7	90	232	224 033	224 034
2"	40	27.7	130	232	224 027	224 032
Flange Connection						
1/2"	4	0.6	50	232	463 973	–
1/2"	6	1.4	50	232	463 974	–
1/2"	8	2.4	50	232	463 975	–
1/2"	10	3.6	70	232	463 976	464 005
1/2"	15	5.0	70	232	463 981	464 006
3/4"	20	8.3	70	232	463 984	464 007
1"	25	10.3	90	232	464 374	464 375
1 1/2"	40	20.5	130	232	463 988	464 010
2"	50	31.8	130	232	463 989	464 001
* 2.5"	65	44.7	130	232	463 999	464 009

* preliminary data, not released yet.

Act.Size	Head	Item No.
50mm	Positioner is 8696, no feedback	227 450
70/90mm	Positioner is 8694, no feedback	227 407
	Process controller is 8693 binary in/out + feedback	227 380
130mm	Positioner is 8694, no feedback	227 428
	Process controller is 8693, binary in/out + feedback	227 357

Accessories	Item No.
M12 8-pole 2 meter cordset	919 061
M12 4-pole 2 meter cordset	918 038
M8 4-pole 2 meter cordset	918 718
8696 and 8694 requires only M12 8-pole cordset while 8693 will require all listed cordsets above	

On-Off and V Port Ball Control Valve Packages

NPT 1/2" - NPT 4", 800-1000 PSI

- Fully integrated system
- Plug and play
- Tested and Ready to Install

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 a full process controller package. The full process controller places the intelligence and responsibility in the field at the point of control. Simple set up through intuitive menu guided HMI or PC interface makes this an easy choice for complex loops which need critical tuning.

Technical Data

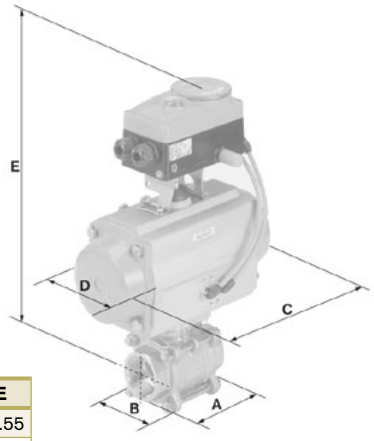
Pressure range	800-1000 PSI, max. at 140°F (>140°F see datasheet)
Temperature media	Up to 350'F (see datasheet for P & T relationship)
Body material	Stainless steel
Seal material	PTFE, (RPTFE and Advanced PTFE available)
Port connection	NPT (or ASME B16.5 Class 150 RF)
Bore	Full / V-Port on control valve package

Ordering chart

Control Valve with 60° Vball, NPT 3pc, PTFE with 8793 Process Controller			
Size (NPT)	**Cv 60% open**	**Cv Full Open**	**System Order Code**
1/2"	1.2	7.8	98124532
3/4"	2.7	17.5	98124533
1.0"	4.9	31	98124534
1.25"	7.8	60	98124535
1.5"	10	73	98124536
2.0"	17	129	98124537
3.0"	46	313	98124538
4.0"	82	558	98124539
ON/OFF Actuated Ball Valves, NPT 3 pc, PTFE with 6519 24 VDC			
Size (NPT)	**Cv 60% open**	**Cv Full Open**	**System Order Code**
1/2"	not applicable	28	98124510
3/4"	not applicable	64	98124511
1.0"	not applicable	115	98124512
1.25"	not applicable	160	98124513
1.5"	not applicable	210	98124514
2.0"	not applicable	375	98124515
3.0"	not applicable	844	98124516
4.0"	not applicable	1500	98124517

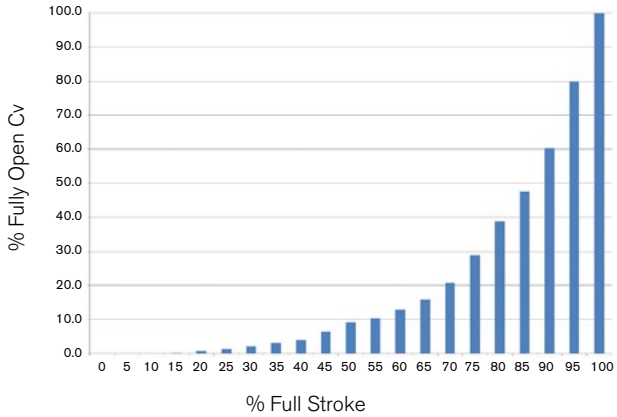
Envelope Dimensions [inch]

(see datasheet for details)



Size	A	C	D	E
1/2"	2.5	7.66	3.2	10.55
3/4"	3	7.66	3.2	10.67
1.0"	3.4	7.66	3.2	10.99
1.25"	3.8	8.09	3.74	11.95
1.5"	4.4	9.84	4.69	13.25
2.0"	5	9.84	4.69	13.59
3.0"	6.6	16.61	7.29	16.93
4.0"	8.4	16.61	7.29	18.11

Typical Cv for 60° V-Port control valve



Control Tops and Feedback Packages for Pneumatically Actuated Valves

- Extreme modularity
- Fit all Bürkert actuators
- Reliable and simple to adapt

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.

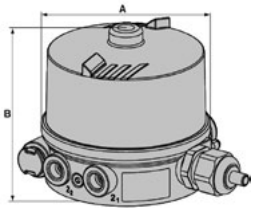
Technical Data

	8690	8691
Pilot valve	24 VDC ±10%, residual ripple 10% (no technical direct current); 1W	24 VDC ±10%, residual ripple 10% (no technical direct current); 2W
Micro switch	Max. 24 VDC, Max. 2A	
Initiator	10 to 24 VDC, Max. 100mA ext. load per initiator	PNP, 10 to 24 VDC, 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	3-7barG	3-7barG
Accreditations	IP65/67 NEMA 4X, CE, (CSA pending)	IP65/67 NEMA 4X, CE, CSA (pending)
Operating temperature	+32 °F to 131 °F	+32 °F to 131 °F
Ambient temperature	+32 °F to 131 °F	+32 °F to 131 °F

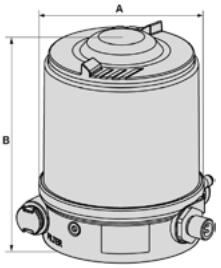
Envelope Dimensions [inch]

(see datasheet for details)

Type 8690



Type 8691



Type	A	B
8690	3.58	3.39
8691	3.58	4.69

Options

8690

- Versions for double acting actuators

8691

- Versions for double acting actuators
- AS-i version
- DeviceNet version

Please call customer service or see data-sheet for adaption to Classic valves.

Ordering chart - 8690

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 for ELEMENT Valves			665 720	

Ordering chart - 8691

Type	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

A Complete World of Sensor Solutions

Flow, Batch and Ratio

Paddle wheel (pulse output)
page 59

Paddle wheel transmitter
page 62

Insertion magmeter
page 68 and 69

Full bore magmeter
page 67

Batch controller
page 66

Level

Ultrasonic

Radar
page 71

Guided microwave
page 75

Tuning fork switch
page 70

Tuning fork switch
page 70

pH/ORP

Transmitter
page 80

Conductivity

Conductive Transmitter
page 81

Inductive Transmitter
page 83

Pressure

Switch/display
page 77

Blind Transmitter

Temperature

PT100 Switch/Display
page 78

Transmitters and Controllers

Single channel universal controller

Positioners and process controllers

Dual channel analysis controller
page 79

1/2” to 2”, 0-232 PSI

- Turn & Lock bayonet fitting isolates sensor from media
- Direct interface with PLC´s
- Multiple material choices

Please add fitting 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 or a coil sensor produces a sine wave output.

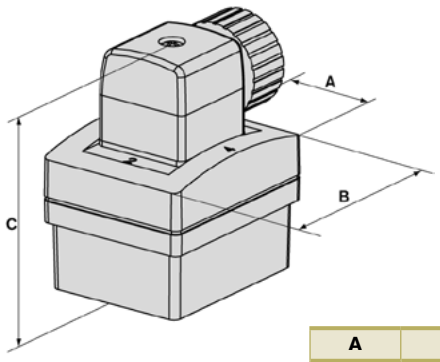
Technical Data

SE30 Housing material	Polycarbonate
Ambient temperature	5 °F - 140 °F
Voltage supply / Current	12…36 VDC ≤ 30 mA
Max. cable length	164‘ shielded
Electrical connections	Cable plug
Outputs	Transistor PNP and NPN, Max. 100mA
Protection and Approvals	IP65, CE
Sensor size range	1/2” to 2” with bayonet fitting
Measuring ranges	1 to 33 fps
Measuring error (stand. k-factor)	≤ ±(0.5% o.FS + 2.5% o.R)
Linearity, Repeatability	≤ ± 0.5% o.FS (at 33fps), 0.4% o.R.
Fitting Materials	Brass, Stainless* (NPT), PVC (ASTM Union)
Sensor materials	PVDF paddle wheel with ceramic bearings
O-rings	FKM
Max. Fluid Temperature	212 °F (Metallic), 122 °F (PVC),
Max. fluid pressure	232 PSI (metal), 145 PSI (PVC)

Options

- EaseOn cable plug 2511 (on request)
- AS-i Connection (on request)
- Hygienic clamp and ASME weld end connections
- ANSI flange connection
- PVDF and PP fittings. High temperature version to 125 °C/257 °F
- Low flow fittings down to 6 mm
- High flow fittings (8020) to 16”
- Cable plug 2509, 1/2” conduit
- Various sealing materials
- Individual calibration certificate

Envelope Dimensions [inch] (see datasheet for details)



A	B	C
3.58	2.13	2.60

Ordering chart SE30

Description	Item no.
NPN/PNP TO PLC	423 913
Hall [1]	423 914
Fitting	see page 65

[1] for use with Burkert electronics only.

In-Line Flow Switch for Monitoring, Switching and Display

1/2” to 2”, 0-232 PSI

- Monitor, switch and transmit functions
- Large display
- Turn & Lock bayonet fitting isolates sensor from media

Please add fitting 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.

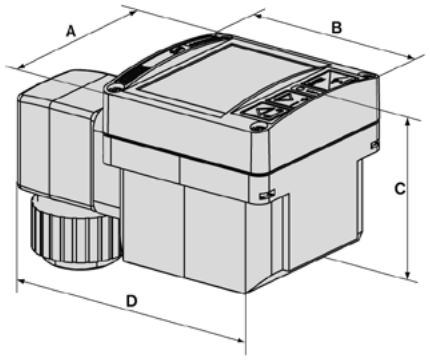
Technical Data

SE32 Housing material	PC+20% glass fibre
Ambient temperature	32 °F - 140 °F
Voltage supply / Current	12…30 VDC, 80 mA (no Load)
Electrical Protection	Short circuit and reversed polarity
Max. cable length	328.1’ shielded
Electrical connections	Cable plug and M12
Outputs	NPN and PNP 5…30 VDC, 700 mA Relay 3 A/250 VAC, or 3 A/30 VDC; frequency 0…200 Hz 4 … 20 mA
Switching accuracy (teach-in)	± 1% at 33 fps
Switching accuracy (standard)	± 1% o.FS +3% o.R.
Ingress protection	IP65
Approvals	UL Recognized, CSA, CE
Size range	1/2” to 2” with bayonet fitting
Measuring ranges	1 to 33 fps
Linearity /Repeatability	≤ ± 0.5% o.FS (at 33fps), 0.4% o.R.
Fitting Materials	Brass, Stainless (NPT), PVC (ASTM Union)
Sensor Materials	PVDF paddle wheel with ceramic bearings
O-rings	FKM
Max. Fluid Temperature	212 °F (metal), 122 °F (PVC)
Max. fluid pressure	232 PSI (metal), 145 PSI (PVC)

Options

- EaseOn cable plug 2511 (on request)
- AS-i Connection (on request)
- Hygienic clamp and ASME weld end connections
- ANSI flange connection
- PVDF and PP fittings
- Low flow fittings down to 6 mm
- Cable plug 2509, 1/2” conduit
- Various sealing materials
- Individual calibration certificate, 4...20 mA output

Envelope Dimensions [inch] (see datasheet for details)



A	B	C	D
2.13	2.13	1.97	3.70

Ordering chart

Output	Connection	Approvals	Item no.
NPN and PNP	M12 (5-pin)	–	98108570
NPN and PNP	M12 (5-pin)	UR/CSA approved	98109678
Relay	M12 (5-pin) and Conduit	–	98108569
Fittings	see page 65		

Accessories	Item no.
M12 5-pin with 6’ cable	438 680
M12 8-pin with 6’ cable	444 800
M12 5-pin connector	917 116
M12 8-pin connector	444 799

More Versions	Item no.
Transmitter Version is also available with 4 ... 20 mA output in 8 pin M12 (please see datasheet for details)	98108566

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 2”

1/2” to 2”, 0-232 PSI

- Turn & Lock
- Direct interface with PLC´s
- Brass and stainless

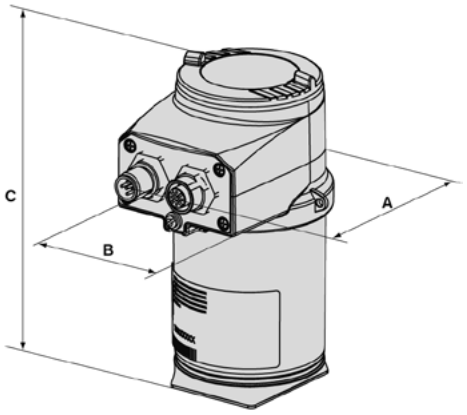
Please add fitting from page 65

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 makes the system adds more value as it can program multiple transmitters.

Technical Data

Electronic module	
Housing material	Stainless steel, PPS, PC
Display	Removable dot matrix 128 x 64 with backlight
Ambient temperature	32 °F - 140 °F
Voltage supply	14...36 VDC 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 < 610 Ω at 24 V < 180 Ω at 14 V
Ingress protection	IP65 and 67, NEMA4X
Approvals	UL Recognized, CSA through cURus, CE
Integrated sensor and fitting module	
Size range	1/2” to 2” with bayonet fitting
Measuring ranges	1 to 33 fps
Measuring error (teach in)	≤ ± 1% o.FS (at 33fps)
Measuring error (Std. k-factor)	≤ ±(0.5% o.FS + 2.5% o.R)
Linearity	≤ ± 0.5% o.FS (at 33fps)
Repeatability	0.4% o.R.
Fitting Materials	PVC, PVDF, PP, Brass, Stainless, Stainless HT
Paddle wheel	PVDF
Axis and bearing	Ceramic
O-rings	FKM
Max. Fluid Temperature	212 °F (metal), 122 °F (PVC)
Ambient temperature range	0 to 140 °F
Max. fluid pressure	232 PSI (metal), 145 PSI (PVC)

Envelope Dimensions [inch] (see datasheet for details)



A	B	C
3.82	2.56	5.16

Options

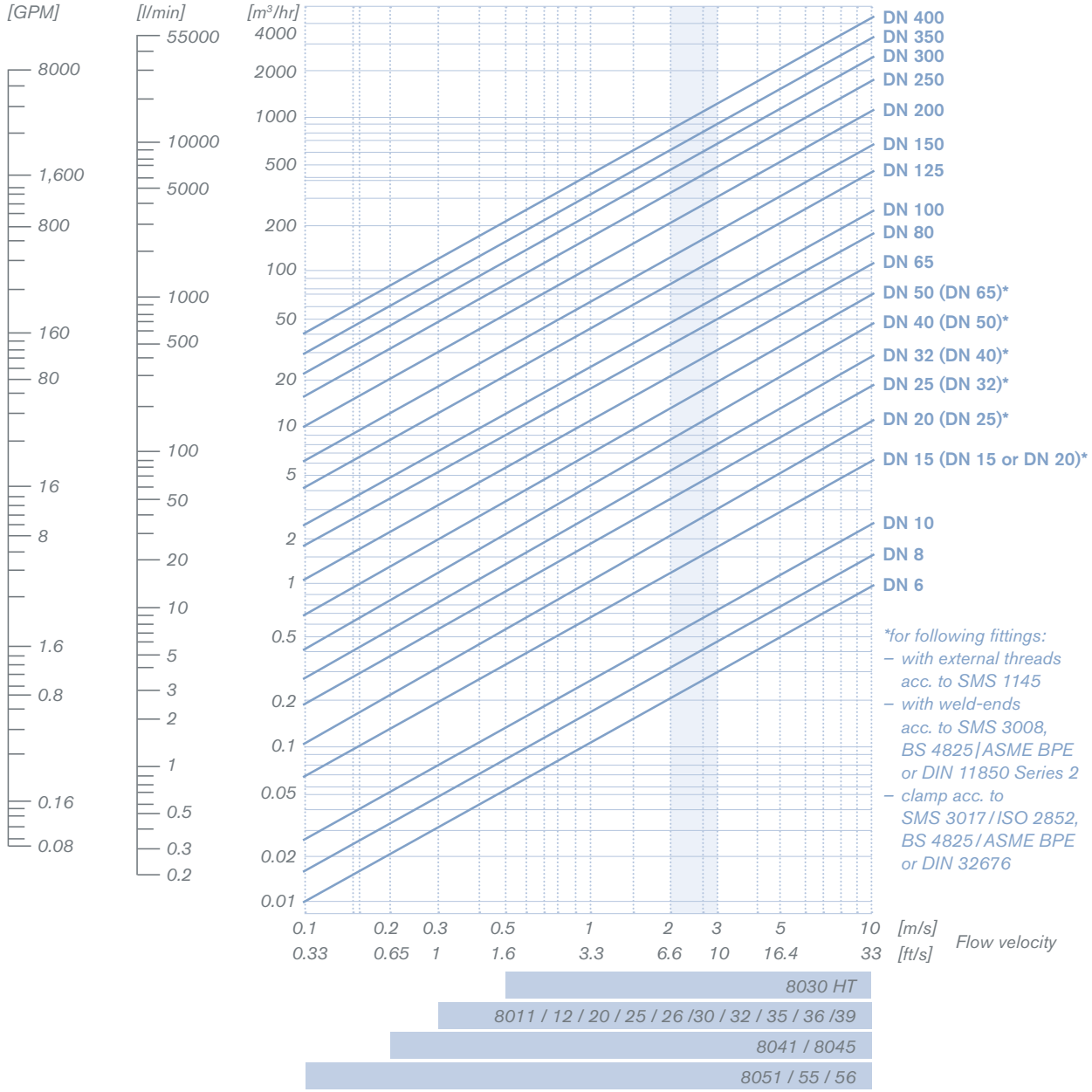
- Hygienic clamp and ASME weld end connections
- ANSI flange connection
- PVDF and PP fittings
- Low flow fittings down to 6 mm
- High flow fittings (8036) to 16”
- Various sealing materials
- Individual calibration certificate
- Pre-wired cordsets and M12 connectors and cables
- Display unit only (item number 559 168)

Ordering Chart for compact transmitter Type SE36

Specifications	Voltage supply	Output	Electrical connection	UL Approval	Item no. without display	Item no. with display
2 outputs	14-36 V DC	1 x transistor + 1 x 4-20 mA (2-wire)	5-pin M12 male fixed connector	No	560 880	561 880
				Recognized	560 883	561 883
3 outputs	14-36 V DC	2 x transistors + 1 x 4-20 mA (2-wire)	5-pin M12 male fixed connector	No	560 881	561 881
				Recognized	560 884	561 884

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 2”

2” plus, 0-145 PSI

- For Pipe Sizes above 2”
- Direct interface with PLC´s
- Brass and stainless

Please add fitting from page 65

Insertion style flow meter constructed from SE26 transmitter provides a two-wire 4-20 mA directly proportional to flow. A range of fittings from weldolets to saddles makes these ELEMENT style transmitters perfect for neutral, solid free liquids. A backlit removable display with joystick programming makes commissioning a breeze.

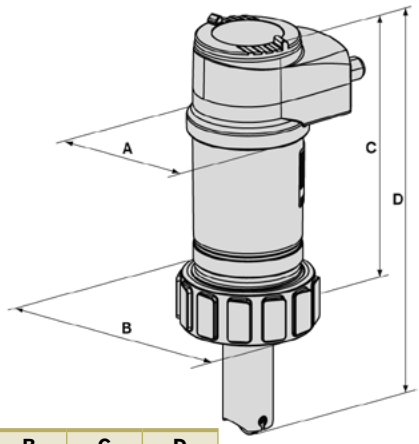
Technical Data

Insertion Flow Meter	
Size range	2" - 16"
Display	Removable dot matrix 128 x 64 with backlight
Measuring ranges	1 to 33 fps
Measuring error (teach in)	≤ ± 1% o.FS (at 33fps)
Measuring error (std. k-factor)	≤ ±(0.5% o.FS + 2.5% o.R)
Linearity	≤ ± 0.5% o.FS (at 33fps)
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	212 °F (also depends on piping material)
Ambient temperature range	14 °F to 140 °F
Max. fluid pressure	145 PSI
Voltage supply	14...36 VDC 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 < 610 Ω at 24 V < 180 Ω at 14 V
Ingress protection	IP65 and 67, NEMA4X Accreditations CE, CSA, UR

Options

- PVDF and PP fittings
- Various sealing materials
- Individual calibration certificate
- Without display

Envelope Dimensions [inch] (see datasheet for details)



	A	B	C	D
Short	2.56	2.95	5.94	9.06
Long	2.56	2.95	5.94	10.57

Ordering Chart

with display		
Output	**Item no. short**	**Item no. long**
4...20 mA with 1 transistor	561 863	561 873
4...20 mA with 2 transistor	561 864	561 874
without display		
Output	**Item no. short**	**Item no. long**
4...20 mA with 1 transistor	560 863	560 673
4...20 mA with 2 transistor	560 864	560 874

Accessories	**Item no.**
display only	559 168
M12 5-pin with 6’ cable	438 680
M12 5-pin connector	917 116

1/2” to 14”, 0-232 PSI

- Straight thru tube assures maximum accuracy
- Wide range of materials and connections
- Unique INLINE version isolates medium from measuring device

Ordering Chart

S030 (for SE30, SE32, SE36)

Connection	PVC (ASTM)	Brass NPT	Stainless NPT	PVDF	SS Hygienic Clamp	SS OD Tube	ANSI B16-5
1/2"	423 950	423 986	424 010	423 968	–	–	424 046
3/4"	423 951	423 987	424 011	423 969	443 395	443 369	424 047
1"	423 952	423 988	424 012	423 970	443 396	443 370	424 048
1 1/4"	423 953	423 989	424 013	423 971	–	–	424 049
1 1/2"	423 954	423 990	424 014	423 972	443 397	443 372	424 050
2"	423 955	423 991	424 015	423 973	443 398	443 373	424 051
2 1/2"	–	–	–	–	443 399	443 374	–

Ordering Chart

S020 (for 8026, 8041, 8045) - Short sensor **Long sensor**

Connection	PVC (ASTM)	Brass NPT	Stainless NPT	SS weldolet	Steel saddle	Steel weldolet	PVC saddle
1/2”	428 682	428 718	428 742				
3/4”	428 683	428 719	428 743				
1”	428 684	428 720	428 744				
1 1/4”	428 685	428 721	428 745				
1 1/2”	428 686	428 722	428 746				
2”	428 687	428 723	428 747	418 111	98146031	98146032	
2 1/2”				418 112		98146034	413 469
3”				418 113	98146024	98146035	413 470
4”				418 114	98146025	98146020	98146019
5”				418 115			
6”				418 116	98146026	98146021	98146017
8”				418 117	98146027	98146022	98146030
10”				418 756	98146028	98146023	
12”				420 070	98146029	98146036	
14”				416 637	98109612		

Batch Controller with switch, selector and PLC connectivity

7 batch sizes, 2 relay outputs

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

Please add fitting from page 65

(Panel version)

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

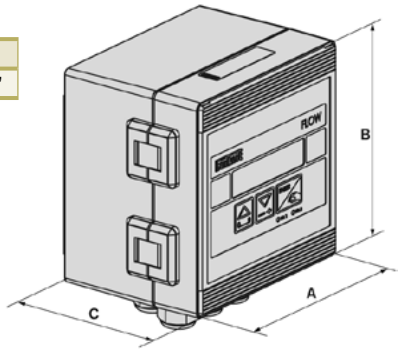
Housing material	ABS, PC*
Front panel foil	Polyester
Screws	Stainless Steel
Cable plug / gland	PA
Ambient temperature	32 °F to 140 °F
Display	15 x 60mm, 8–digit LCD, alphanumeric, 15 segments, 9mm high
Voltage supply	12–30 VDC or 115/230 VAC, 50-60 Hz
Current consumption Max.	≤ 70 mA without consumption of inputs/outputs
Electrical Protection	Reversed polarity of DC protected
Accreditations	UL recognized, CSA (panel version only)
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
Outputs	2 relays, freely programmable, 3A, 230V
Flow input frequency	2.5 Hz up to 700 Hz
Sensor power supply	12...30, or 0...18 VDC, 100 mA Max. (24V Version); +15 V or + 27V , 25 mA Max. (115V version)
Ingress protection	IP65

* Panel mount version.

Envelope Dimensions [inch] (see datasheet for details)

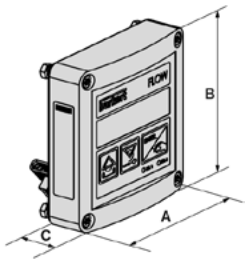
Wall Mount

A	B	C
4.72”	4.72”	3.54”



Panel Mount

A	B	C
3.46”	3.46”	0.98”



Options

- Compact inline mount

Ordering Chart

Description	Totalizers	Relays	Connection	12-30 VDC	115-230 VAC
Wall mount	2	2 x 3 A	3 x PG 13.5 cable gland	433 740	433 741
Panel mount (CSA)	2	2 x 3 A	Terminal strip	419 536	–

Shown are blind flanged version and hygienic clamp version

1/2” to 6”, Up to 232 PSI

- Full bore section
- High frequency sampling
- Flow or Batch Control

(special inspection)

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.

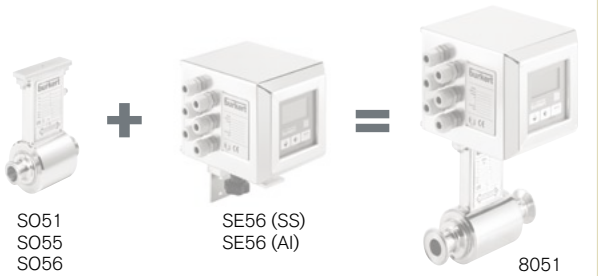
Technical Data

Housing material	Die cast aluminum or 304 Stainless steel
Ambient temperature	-4 °F to 140 °F
Voltage supply	90...265 VAC
Electrical connections	PG glands
Outputs	1 x 4-20mA 2 x transistor (40VDC, 100mA, Fmax=1250Hz) Standard input 1 x digital (0 up to 40 VDC)
Ingress protection	IP65 and 67, NEMA4X
Approvals	CE
Size range	1/2" to 6"
Measuring ranges	1 to 33 fps
Measuring error (teach in)	± 0.2% of Reading (for liquid velocity > 3 ft/s)
Measuring error (std. k-factor)	± 0.2% of Reading (for liquid velocity > 3 ft/s)
Linearity	≤ ± 0.5% o.FS (at 33fps)
Repeatability	Repeatability better than 0.1%
Electrode material	SS 316L (optional 3 x SS 316L or 4 x Hastelloy C / Titanium / Tantal / Platinum - Rhodium)
Axis and bearing	Minimum conductivity 5 µS/cm
O-rings	FKM
Max. Fluid Temperature	212 °F (PTFE lining), 140 °F (PP lining)
Ambient temperature range	0 to 140 °F
Max. fluid pressure	Fluid pressure Max. 232 PSI

Options

- Various sealing materials
- Larger sizes are available as standard
- Individual calibration certificate
- Other options Remote versions (10/20m cable, IP68), blind version
- SS body and 300# flanges for S055
- PTFE lining and PN40 pressure class for S051 and S055
- 2 relay outputs NO/NC 2A-250VAC, 60W 125VA
- Hart, Profibus, RS232, RS485

System Architecture



SO51
SO55
SO56

SE56 (SS)
SE56 (Al)

8051
8055
8056

For dimensions please see datasheet

Ordering Chart

Transmitter / Batch Controller Electronics - SE56				Item no.
Stainless steel				558 306
Aluminum				558 747
INLINE Flow Meter				
Connection	**Orifice [mm]**	**Flow Rate [GPM]**	**Lining**	**Item no.**
NPT INLINE Meter Fittings - S051				
1/4”	3	0.04 - 1.10	PTFE	554 213
3/8”	6	0.17 - 4.40	PTFE	555 892
1/2”	10	0.53 - 13.20	PTFE	555 111
3/4”	15	1.05 - 26.4	PTFE	557 659
1”	20	2.2 - 55.00	PTFE	553 663
ANSI 150# INLINE Meter Fittings - S055				
1”	25	3.17 - 79.25	PP	554 353
2”	50	12.7 - 317.00	PP	554 354
3”	80	31.7 - 792.52	PP	554 351
4”	100	49.31 - 1232.80	PP	554 352
6”	150	112.7 - 2817.8	PP	561 426
Hygienic Clamp INLINE Meter Fittings - S056				
1/2”	3	0.04 - 1.10	PTFE	559 786
1/2”	6	0.17 - 4.40	PTFE	553 325
1/2”	10	0.53 - 13.20	PTFE	554 350
3/4”	15	1.05 - 26.4	PTFE	553 533
1”	20	2.2 - 55.00	PTFE	553 534
1”	25	3.17 - 79.25	PTFE	553 535
1 1/2”	40	7.92 - 198.13	PTFE	553 536
2”	50	12.7 - 317.00	PTFE	553 537
2 1/2”	65	21.13 - 528.34	PTFE	553 538
3”	80	31.7 - 792.52	PTFE	559 791

Blind Insertion Magmeter in PVDF

8041

1/2” to 16”, Up to 145 PSI

- Solid state technology
- Direct interface with PLC´s
- Range of fitting materials

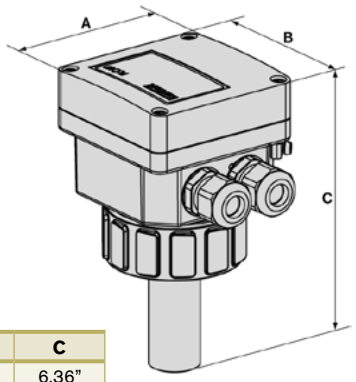
Please add fitting from page 65

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	1/2” - 16”
Measuring ranges	0.7 - 33 ft/s
Measuring error (teach in)	≤ ±2% o.R. (3.28-32.81 ft/s)
Measuring error (standard k-factor)	≤ ±4% o.R. (3.28-32.81 ft/s)
Linearity	≤ ±(1% o.R. + 0.1% o.FS)
Repeatability	±0.25% o.R.
Housing material	PC+20% glass fibre
Electrode Material	316L SS
Mag-sensor Material	PVDF
O-rings	FKM
Max. Fluid Temperature	176 °F
Ambient temperature range	14 °F to 140 °F
Max. fluid pressure	145 PSI
Fluid conductivity	> 20 µS (Micro-Siemens)
Storage temperature	-4 °F to 140 °F
Voltage supply	18…36 VDC
Current consumption Max.	≤ 220 mA
Electrical Protection	Short circuit protection Reversed polarity of DC protected
Electrical connections	M20 cable glands (optional 1/2” conduit)
Outputs	4 … 20 mA Transistor, Max. 100mA, frequency 0…240 Hz Relay output 3 A/250 VAC
Output Load	Max. 1100 Ω at 36 V Max. 330 Ω at 18 V
Ingress protection	IP65

Envelope Dimensions [inch] (see datasheet for details)



	A	B	C
Short	3.48”	3.48”	6.36”
Long	3.48”	3.48”	7.80”

Options

- Stainless steel finger for 302 °F and 145 PSI 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 and 1 relay connection kit 552 812 are supplied with each transmitter.

1/2” to 16”, Up to 232 PSI

- Simple to read display
- Direct interface with PLC´s
- Easy push button menu

Please add fitting 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.

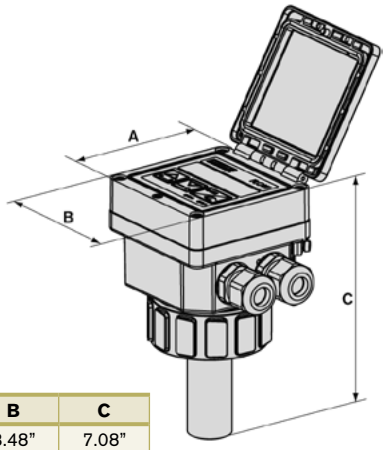
Technical Data

Size range	1/2" - 16"
Measuring ranges	0.7 - 33 ft/s
Measuring error (teach in)	≤ ±2% o.R. (3.28-32.81 ft/s)
Measuring error	≤ ±4% o.R. (3.28-32.81 ft/s)
Linearity	≤ ±(1% o.R. + 0.1% o.FS)
Repeatability	±0.25% o.R.
Housing material	PPA
Electrode Material	316L SS
Mag-sensor Material	316L SS (FDA compliant)
O-rings	FKM
Max. Fluid Temperature	212 °F
Ambient temperature range	14 °F to 140 °F
Max. fluid pressure	232 PSI (depending on fitting)
Fluid conductivity	> 20 µS (Micro-Siemens)
Voltage supply	18…36 VDC
Current consumption Max.	≤ 300 mA
Electrical Protection	Short circuit and reversed polarity protected
Electrical connections	M20 cable glands (optional 1/2" conduit)
Outputs	4 … 20 mA Transistor, Max. 100mA, frequency 0…240 Hz Relay output 3 A/250 VAC
Output Load	Max. 1300 Ω at 36 V Max. 700 Ω at 18 V
Ingress protection	IP65

Options

- PVDF finger for 176 °F and 87 PSI with PC housing
- Hastelloy electrodes

Envelope Dimensions [inch] (see datasheet for details)



	A	B	C
Short	3.48”	3.48”	7.08”
Long	3.48”	3.48”	8.64”

Ordering Chart for transmitter 8045

Relays	Sensor	Connector	Item no.
No	Short	2 cable glands M20	449 670
	Long	2 cable glands M20	449 672
2	Short	2 cable glands M20	449 671
	Long	2 cable glands M20	449 673

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

Tuning-Fork Level Switch

3/4” and 1”, Up to 900 PSI

- For universal use as overfill or dry run protection system
- Hygienic surface finish
- Extension length in stock

(special inspection)

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	3/4" NPT, 1" NPT or 1" hygienic clamp	3/4" NPT, 1" NPT or 1" hygienic clamp
Max. Fluid Temperature	212 °F NPT 302 °F Clamp	302 °F NPT 302 °F Clamp
Materials	Stainless / PBT housing Stainless steel forks Klingersil seal	Stainless / PEI housing Stainless steel forks Klingersil seal
Max. fluid pressure	928 PSI	928 PSI
Voltage supply	10...55 VDC / Max. 0.5 W	20...253 VAC (5 A), 50-60 Hz, or 20...72 VDC
Electrical connections	M12	M20 cable glands (optional 1/2" conduit)
Outputs	Transistor output PNP, 250 mA	Relay (DPDT), 2 floating SPDTs
Ingress protection	IP66 and 67, NEMA 4X	IP66 and 67, NEMA4X

Options

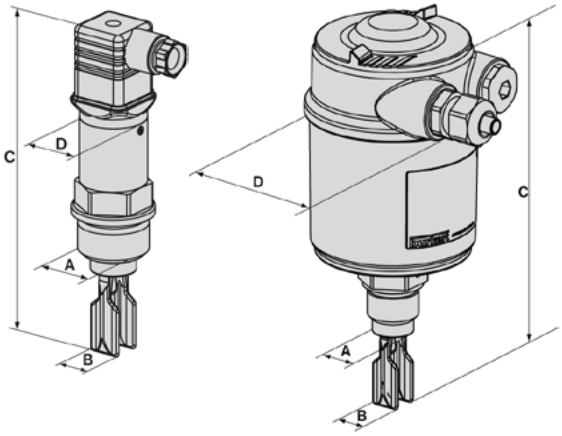
8110

- DIN 11851, Flange, SMS, BioControl connections
- ECTFE, enamel, Hastelloy C4 or PFA
- Higher temperatures on request

8111

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

Envelope Dimensions [inch] (see datasheet for details)



Type	A	B	C	D
8110	3/4” NPT	0.6”	6.24”	1.25”
	1” NPT	0.6”	6.36”	1.25”
	2” clamp	0.6”	6.48”	1.25”
8111	3/4” NPT	0.6”	8.28”	5.34”
	1” NPT	0.6”	8.40”	5.34”
	2” clamp	0.6”	8.40”	5.34”

Ordering Chart

Process connection	Electrical connection	Item no.
8110		
3/4” NPT	Multipin M12	557 154
1” NPT	Multipin M12	557 155
2” Clamp	Multipin M12	555 294
8111		
3/4” NPT	2 x M20 Cable glands	558 111
1” NPT	2 x M20 Cable glands	558 113
2” Clamp	2 x M20 Cable glands	558 114

Extension tubes are available from stock (see datasheet 8112).

Type 8137

Type 8138

To 100', NPT or flange connection

- Measures up to 100 feet
- High Pressure Version
- Two-wire

(special inspection)

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.

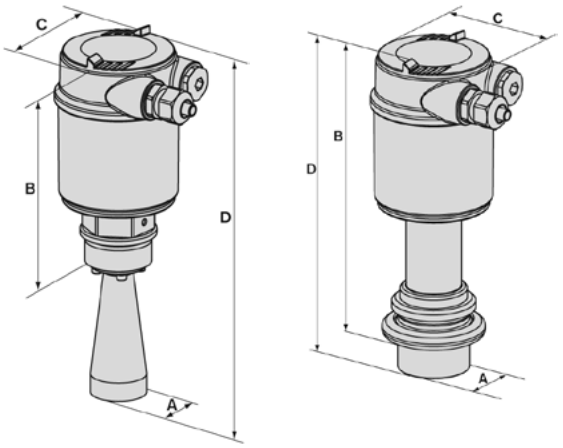
Technical Data

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), Advanced PTFE-PTFE (8138) / PTFE (Advanced PTFE 1600 PTFE) (8137)
Seal (antenna system)	FKM
Display	LCD in full dot matrix
Ambient temperature	-40 to 176 °F
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
Output Load Max.	See datasheet
Dead zone	2'
Measuring range (40mm antenna)	2" to 30'
Accuracy	± 3 mm
Min. Dielectric	εr > 1.6
Temperature coefficient	0.03%/10K
Ingress protection	IP66, IP67, NEMA4X
Approvals	CSA, CE, Optional EEx ia IIC T6

Options

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

Envelope Dimensions [inch] (see datasheet for details)



Type	A	B	C	D
8137	1.5" NPT	6.18	3.17	10.98
8138	2" CLAMP	8.58	3.17	8.90

Ordering Chart

Area	Connection	Fluid temperature	Fluid pressure	Item no.
8137				
Standard	NPT 1 1/2"	-40 to 266 °F	vac. to 580 PSI	560 159
Standard	Flange 2" ANSI B16.5	-40 to 266 °F	vac. to 580 PSI	560 163
Ex	NPT 1 1/2"	-40 to 266 °F	vac. to 580 PSI	560 160
Ex	Flange 2" ANSI B16.5	-40 to 266 °F	vac. to 580 PSI	560 164
8138				
Standard	2" clamp	-40 to 302 °F	vac. to 232 PSI	560 169
Ex	2" clamp	-40 to 302 °F	vac. to 232 PSI	560 170

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 work in concert 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 for example, within 24 hours. 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.

1-33', NPT 2" connection

- Large display
- Simple setup and installation
- Remote tankside display available

General purpose non-contact level transmitter with chemically resistant PVDF antenna measures from 1 to 33 feet. Output is normally 4-20mA. Output with optional 3 A relays.

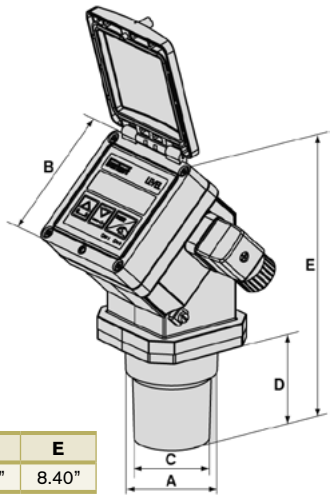
Technical Data

Housing / Cover / Probe	PVDF / PC / PVDF
Display	8-digit LCD display
Ambient temperature	-4 to +140 °F
Voltage supply	3-wire, 18 to 32 V DC (or 115 VAC)
Current consumption Max.	200 mA
Electrical connections	NPT 1/2 conduit, or DIN plug
Outputs	4...20 mA
Output Load Max.	1300 Ohms at 32 VDC, 550 Ohms at 18 VDC, 1100 Ohms at 115/230 VAC
Dead zone	1'
Measuring range	1.0' to 32.8'
Beam angle	8°
Accuracy	± 0.25% of the measurement range
Process pressure	≤ 29 PSI
Ingress protection	IP65, IP67 (sensor)
Approvals	CE

Options

- 3 A Relay outputs
- Remote display
- Two wire version (8176)

Envelope Dimensions [inch] (see datasheet for details)



A	B	C	D	E
2" NPT	3.48"	1.92"	2.76"	8.40"

Ordering Chart

Voltage	Output	Connection	Item no.
18 - 32 VDC	4...20 mA	1 x DIN Plug	430 827
18 - 32 VDC	4...20 mA	1 x 1/2" Conduit	430 828
18 - 32 VDC	4...20 mA + 2 relays	2 x 1/2" Conduit	430 829
115/230 V AC	4...20 mA	1 x 1/2" Conduit	430 830
115/230 V AC	4...20 mA + 2 relays	2 x 1/2" Conduit	430 831

Ultrasonic Level Transmitter for General Application

To 26', NPT connection

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

(special inspection)

Type 8176

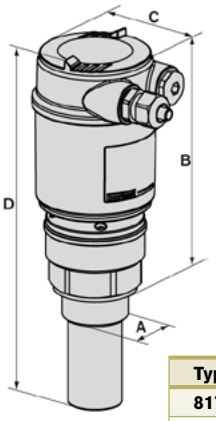
Type 8177

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	-4 to 158 °F
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
Output Load Max.	See datasheet
Beam angle	11°
Accuracy	< 0.2% or ± 4 mm
Process temperature	-40 to 176 °F
Temperature coefficient	0.06%/10K
Ingress protection	IP66, IP67, NEMA4X
Approvals	CSA, CE, Optional EEx ia IIC T6

Envelope Dimensions [inch] (see datasheet for details)



Type	A	B	C	D
8176	1.5" NPT	7.36	3.17	10.83
8177	1.5" NPT	7.48	3.17	10.79

Options

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

Ordering Chart

Type	Port Connection	Output	Measuring length	Connector	Item no.
8176 Standard	NPT 1 1/2"	4-20 mA/HART	0.82' to 16.4'	Cable gland M 20 x 1.5	558 221
8176 Ex	NPT 1 1/2"	4-20 mA/HART	0.82' to 16.4'	Cable gland M 20 x 1.5	558 222
8177 Standard	NPT 2"	4-20 mA/HART	1.31' to 26.25'	Cable gland M 20 x 1.5	558 225
8177 Ex	NPT 2"	4-20 mA/HART	1.31' to 26.25'	Cable gland M 20 x 1.5	559 245

Microwave Level Transmitter for General Application

Type 8185

Type 8186

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

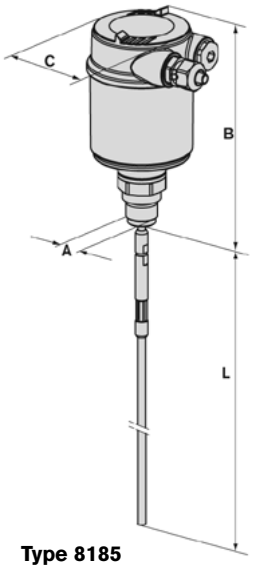
(special inspection)

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 316Ti/316L (1.4571/1.4435)
Conductor	Stainless steel 316L / PTFE (Advanced PTFE 1600 PTFE)
Display	LCD in full dot matrix
Ambient temperature	-4 to 158 °F
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
Output Load Max.	See datasheet
Dead zone	From top of the probe: 3" (6" with Cable ; From bottom of the probe :0" (10" with cable)
Measuring range	12" to 13' with 8185 rod 3' to 105' with 8185 cable 3" to 13' with 8186
Accuracy	± 3mm (See drawing in datasheet)
Min. Dielectric	εr > 1.6
Process temperature	-40 to 302 °F
Temperature coefficient	0.06% /10K
Ingress protection	IP66, IP67, NEMA4X
Approvals	CSA, CE, Optional EEx ia IIC T6

Envelope Dimensions [inch] (see datasheet for details)



Type 8185

Type	A	B	C	L
8185	4.84"	3.17"	3.58"	*
8186	2" Clamp	7.48	3.17	*

* see ordering chart

Options

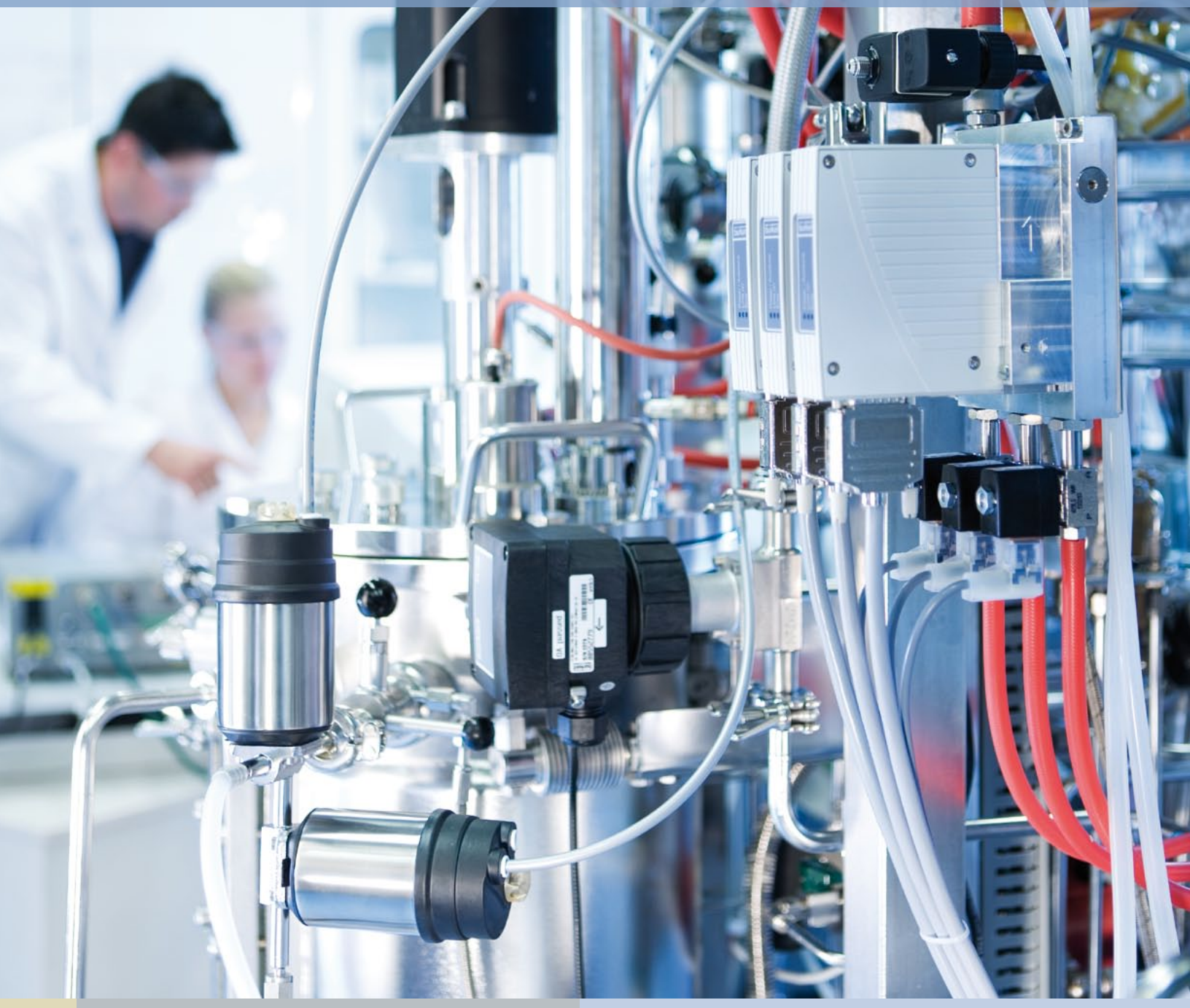
- Ex versions (part numbers are shown, please see datasheets for details)
- Other hygienic fittings

Ordering Chart

Type	Location	Features	Type	Length *	Item no.
8185	General area	NPT 3/4" mounting thread 14-36 V DC 4-20 mA/HART	Rod	1m (3.3')	558 230
	General area	NPT 3/4" mounting thread 14-36 V DC 4-20 mA/HART	Rod	2m (6.6')	558 234
	General area	NPT 3/4" mounting thread 14-36 V DC 4-20 mA/HART	Cable	5m (16')	558 242
	General area	NPT 3/4" mounting thread 14-36 V DC 4-20 mA/HART	Cable	10m (33')	558 246
	General area	NPT 1" mounting thread 14-36 V DC 4-20 mA/HART	Rod	1m (3.3')	558 232
	General area	NPT 1" mounting thread 14-36 V DC 4-20 mA/HART	Rod	2m (6.6')	558 236
	General area	NPT 1" mounting thread 14-36 V DC 4-20 mA/HART	Cable	5m (16')	558 244
	General area	NPT 1" mounting thread 14-36 V DC 4-20 mA/HART	Cable	10m (33')	558 248
Ex versions also available					
8186	General area	2" Clamp	Rod	1m (3.3')	558 253
	General area	2" Clamp	Rod	2m (6.6')	558 255
	Ex	2" Clamp	Rod	1m (3.3')	558 257
	Ex	2" Clamp	Rod	2m	558 259

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 optimize 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.



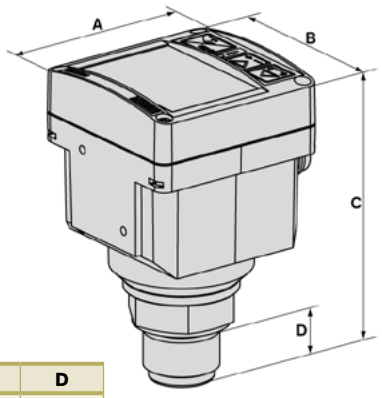
- Accurate, reliable pressure switching
- Switch for alarm or event logging
- Bar graph display for local monitoring

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	To 725 PSI
Switching accuracy ±.09 °F (0...176 °F)	±1.5% FS
Medium temperature	-4 °F to 212 °F (212 °F for an ambient temperature of Max. 104 °F)
Repeatability	0.25% FS
Housing, cover	PC+20% grass fiber
Sensor element	Ceramic
Wetted parts (NPT seal)	316L stainless steel, ceramic/FKM (EPDM optional)
Ambient temperature range	-0 °F...+140 °F
Ingress protection	IP65
Voltage supply	12…30 VDC
Protection	Reversed polarity of DC protected
Current consumption Max.	750 mA max (with load - PNP output configuration)
Electrical Protection	Short circuit protection
Max. cable length	164' shielded
Electrical connections	Cable plug Multipin 5 pin, M12
Output	Transistor output NPN and PNP 5…30 VDC, 700 mA

Envelope Dimensions [inch] (see datasheet for details)



A	B	C	D
2.16"	2.16"	3.6"	0.72"

Options

- Cable plug 2508, DIN 43650A 1/2" conduit
- Outputs: Relay 3 A/250 or 3 A/30 VDC
- 4...20 mA output
- Two-wire loop powered

Ordering Chart

Pressure range	Electrical connection	Output	Burst Pressure [PSI]	Max. Pressure [PSI]	Item no.
0-30	M12 plug	NPN/PNP	102	58	98108565
0-73	M12 plug	NPN/PNP	174	145	98108558
0-145	M12 plug	NPN/PNP	363	290	98108551

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

More Versions	Pressure [PSI]	Item nos.
Transmitter Version is also available with 4 ... 20 mA output in 8 pin M12 (please see datasheet for details)	0-30	444 640
	0-73	444 641
	0-145	444 642

Intelligent Sensor

- Accurate, reliable temperature switching
- Switch for alarm or event logging
- Bar graph display for local monitoring

Temperature sensor with switching and optional transmitting functions. Programmable switching points with large display and bar graph. Connection to the process is made with standard NPT thread.

Technical Data

Measuring range (ambient 32 °F - 104 °F)	-40 °F...+257 °F
Switching accuracy ±.09 °F (0...176 °F)	±.09 °F (0...176 °F)
Switching activity	±2.7 °F
Repeatability	0.40%
Housing material, cover	PC+20% grass fiber
Sensor element	Pt100
Wetted parts (NPT seal)	316L stainless steel, FKM
Ambient temperature range	-0 °F...+140 °F
Ingress protection	IP65
Voltage supply	12…30 VDC
Protection	Reversed polarity of DC protected
Current consumption Max.	80 mA (no Load)
Max. cable length	328.1' shielded
Electrical connections	Cable plug Multipin 5 pin, M12
Output	Transistor output NPN and PNP open collector 5…30 VDC, 700 mA

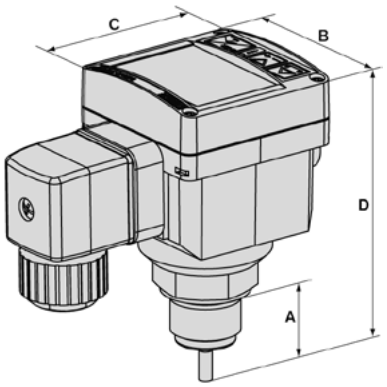
Ordering Chart

8400 Sensor/Switch for sensor connection NPT 1/2	Item no.
NPN and PNP M12 plug 5 pin	98108577

Accessory for ON/OFF Temperature Control System 8400	Item no.
M12 female cable connector with plastic threaded locking ring	917 116
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 in 8 pin M12 (please see datasheet for details)	98108573
Relay version is available (please see datasheet for details)	98108576

Envelope Dimensions [inch] (see datasheet for details)



A	B	C	D
1.2"	2.16"	2.16"	4"

Options

- Outputs : Relay 3 A/250 or 3 A/30 VDC; 4-20mA optional

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 customized 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 Burkert innovation for your process world.

pH Transmitter

- Beautiful process oriented design
- Accepts all standard pH probes
- Removable programming puck

Please add fitting from page 84

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.

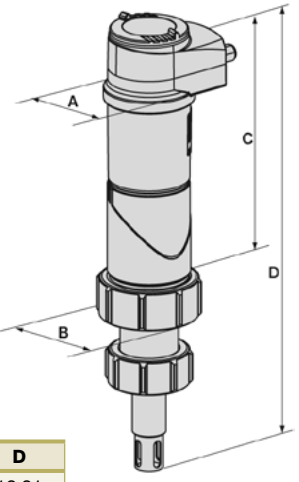
Technical Data

Measuring range	2 ... 16pH
Measuring error	± 0.02pH
Temperature compensation	Automatic via integrated temperature sensor
Temperature Performance (via integrated Pt1000)	Measuring range -40...+266 °F Measuring error ± 1.8 °F
Available Fitting Materials	Stainless, PP, PVC
Housing material	Stainless steel, PPS, PC
Insertion finger	PVDF
Gasket seal	EPDM
Max. Fluid Temperature	-40 °F...+266 °F (depending on fitting)
Max. fluid pressure	232 PSI
Ambient temperature	14 °F to 140 °F
Storage temperature	14 °F to 140 °F (without probe)
Ingress protection	IP65, IP67, NEMA4X
Voltage supply	14...36 VDC for 2-wire models 12...36 VDC for 3-wire models
Protection	Reversed polarity of DC and peak protected
Current consumption Max.	1 A Max. (with transistor load)
Electrical connections	1 x 5pin M12 male (2-wire) 1 x 5pin 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)

Envelope Dimensions [inch] (see datasheet for details)



A	B	C	D
2.56	2.95	8.27	13.31

Ordering Chart

Transmitter				
Wiring	**Outputs**	**Nut**	**M12**	**Item no.**
2-wire	2 x transistors + 1 x 4-20 mA	PVC	5-pin male	559 634
2-wire	2 x transistors + 1 x 4-20 mA	PVDF	5-pin male	559 636
3-wire	2 x transistors + 2 x 4-20 mA	PVC	5-pin male + female	559 635
3-wire	2 x transistors + 2 x 4-20 mA	PVDF	5-pin male + female	559 637

Electrodes (many more available from stock for other applications)	**Item no.**
pH electrode 0... 130 °C, 0... 6 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 (for 8202 pH and 8222 conductivity)	**Item no.**
display (programming puck) only	559 168
M12 5-pin female with 6' cable	438 680
M12 5-pin female connector	917 116
M12 5-pin male with 6' cable	559 177
M12 5-pin male connector	560 946

- Beautiful process oriented design
- Intuitive menu structure
- Removable programming puck

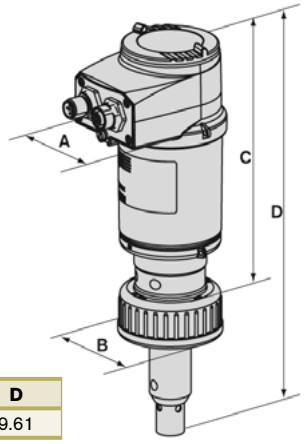
Please add fitting from page 84

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.

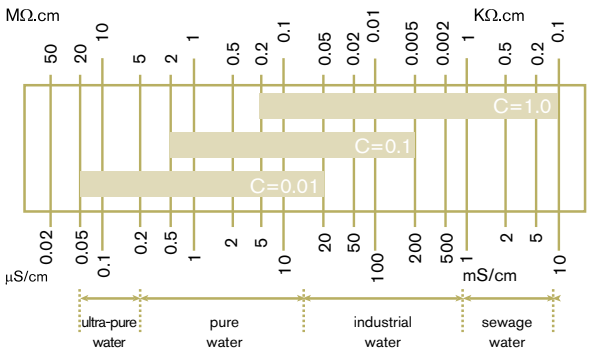
Technical Data

Measuring range	0.05 µS/cm ... 10 mS/cm , -4 ... +266 °F
Measuring error	± 3% of measured value, ± 1.8 °F
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/SS for 0.01 or 0.1; graphite for 1.0
O-rings	EPDM
Fluid Temperature	-4 °F...+212 °F (depending on fitting) (PVC 32 ... 122 °F)
Max. fluid pressure	232 PSI (depending on fitting)
Ambient temperature	14 °F to 140 °F
Storage temperature	14 °F to 140 °F (without probe)
Ingress protection	IP65, IP67, NEMA4X
Voltage supply	14...36 VDC for 2-wire models 12...36 VDC for 3-wire models
Protection	Reversed polarity of DC and peak protected
Accreditations	UL Recognized
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 [inch] (see datasheet for details)



A	B	C	D
2.56	2.95	6.54	9.61



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

Ordering Chart

Voltage supply	Output	Sensor version	Item no. PVC	Item no. PVDF
14-36 V DC	2 x transistors + **single** 4-20 mA for process conductivity only 5-pin M12 male fixed connector	C = 0.01	562 394	562 396
		C = 0.10	559 624	559 626
		C = 1.00	559 638	559 622
12-36 V DC	2 x transistors + **dual** 4-20 mA for both temperature and conductivity, 5-pin M12 male and 5-pin M12 female fixed connectors	C = 0.01	562 395	562 397
		C = 0.10	559 625	559 627
		C = 1.00	559 639	559 623

Accessories (see previous page)

1/4" DIN Panel Mount

- Flexible analytical and flow transmitter
- Unique flexibility
- Intuitive programming

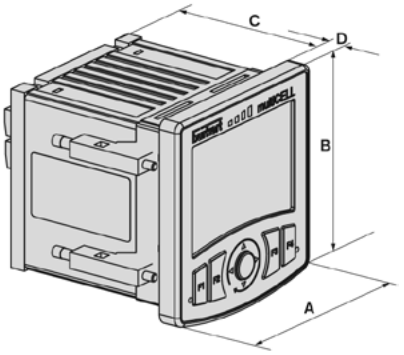
Bürkert's 8619 transmitter/controller is the latest addition to Bürkert's process control program. The 1/4DIN panel mounted controller incorporates a large backlit LCD display for viewing up to 6 possible process variables including up to two analytical instruments, two temperatures and up to 3 hall flow sensors. Additional input and output modules can be added to further enhance the controller's capabilities with additional 4-20mA and binary inputs and outputs. An SD card is standard for data logging and up/down loading of parameterization files.

Technical Data

pH input	-2.00...+16.00 (-600...+6000 mV)
ORP 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, 2 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	14 to 140 °F - Limited at 32 to 140 °F if memory card is used
Ingress protection	IP65, NEMA 4X
Storage temperature	-4 to 140 °F
Voltage supply	12...36 VDC
Protection	Reversed polarity of DC and peak protected
Accreditations	UL Recognized (cURus)
Current consumption	100 mA at 12 V DC 50 mA at 24 V DC
Data logging	SD Card
Data retention	EEPROM, Real time clock

UL Recognized (cURus) pending (consult Bürkert for details).

Envelope Dimensions [inch] (see datasheet for details)



A	B	C	D
4.02	4.21	4	0.43

Ordering Chart

Description	Digital Inputs	Raw signals	RTD	Digital Outputs	Analog	Item no.
BASE unit				2	2	560 213
pH/ORP transmitter	2	1 (pH/ORP)	1	2	2	560 208
pH/ORP transmitter	2	2 (pH/ORP)	2	4	4	560 210
CONDUCTIVITY transmitter	2	1 (Cond.)	1	2	2	560 209
CONDUCTIVITY transmitter	2	2 (Cond.)	2	4	4	560 211
pH/ORP and CONDUCTIVITY transmitter	2	1 (pH/ORP) + 1 (Cond.)	2	4	4	560 212

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

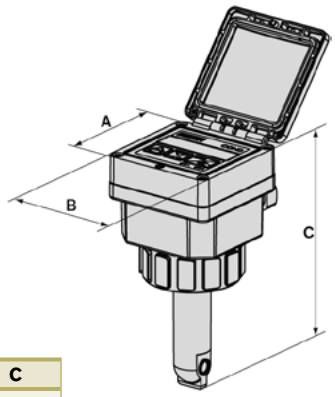
Please add fitting from page 65

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. Standard version is PVDF with PEEK version available for harsh CIP solutions.

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+20% glass fibre (PVDF sensor); PPA glass reinforced fibre (PP sensor)
Insertion finger	PVDF or PP
O-rings	FKM or EPDM
Max. Fluid Temperature	4 °F...+248 °F (depending on fitting)
Max. fluid pressure	87 PSI (also depending on fitting / temp)
Ambient temperature	14 °F to 140 °F
Storage temperature	14 °F to 140 °F
Ingress protection	IP65
Voltage supply	12...30 VDC or 115 VAC
Protection	Reversed polarity of DC and peak protected
Accreditations	CE
Outputs	4 ... 20 mA
Output Load	< 1000 Ω at 30 V < 800 Ω at 24 V < 450 Ω at 15 V < 330 Ω at 12 V

Envelope Dimensions [inch] (see datasheet for details)



A	B	C
3.48	3.48	7.48

Options

- Relay output: 2 relays, 3 A / 230 V
- PEEK insertion finger for harsh CIP conditions
- 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	Relays	Gasket	Electrical connection	Voltage	Item no.
PVDF	4-20mA	without relay	FKM	2508 plug (see page 30)	12 –30 VDC	431 673
				2x Cable gland	115 –230 VAC	431 677
		with 2 relays		2x Cable gland	12 –30 VDC	431 679
				2x Cable gland	115 –230 VAC	431 681
PEEK	4-20mA	without relay	EPDM	2508 plug (see page 30)	12 –30 VDC	440 321
				2x Cable gland	115 –230 VAC	440 323
		with 2 relays		2x Cable gland	12 –30 VDC	440 324
				2x Cable gland	115 –230 VAC	440 325

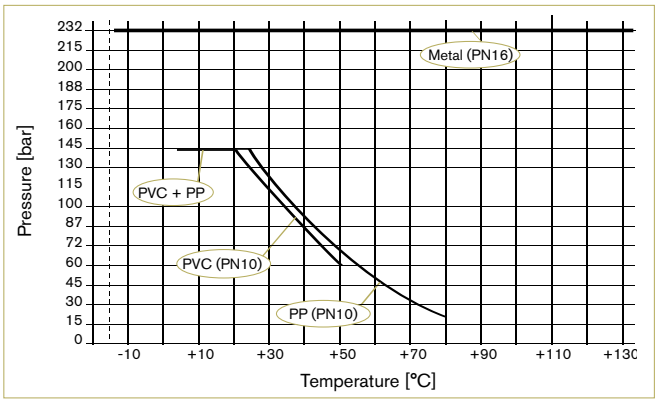
Fittings for 8202 & 8222 pH and Conductivity Sensors

1” - 3” pipe and tank mount fittings

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

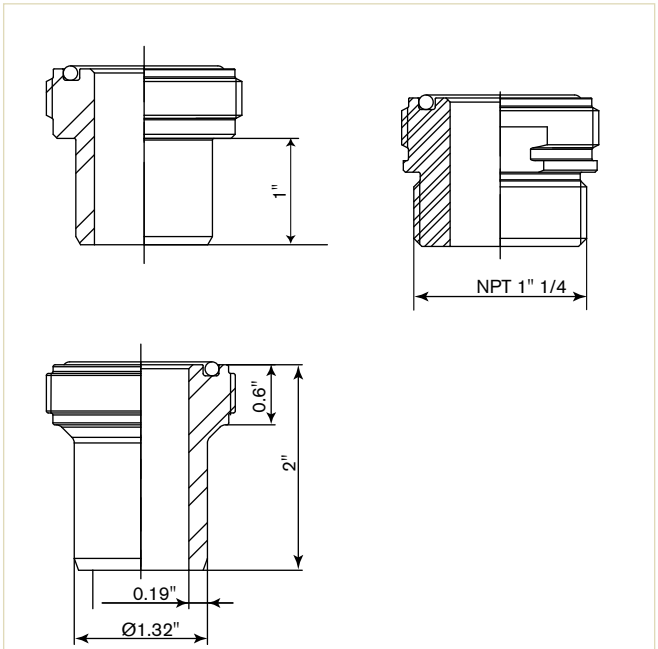
Fittings to connect the compact analytical transmitters to the media. Materials included are PVC-U, PP, Stainless steel, and PVC thread. For chemical resistance details please download our chemical resistance booklet from our website www.burkert-usa.com

Pressure / temperature chart



Note: Always take lowest Max. medium temp. of both adapter and used ELEMENT transmitter.

Envelope Dimensions [inch] (see datasheet for details)



Adaptation overview

Adaptor S022	Piping systems	DN	Description	Materials Body / Seal	Type of Installation	Item no.
 PVC-U, PP metric or ASTM		32 up to 110 (06 up to 25 with reduction)	ASTM solvent adaptor with G1 1/2” external threaded for ELEMENT transmitter connection	PVC-U / FKM, EPDM	Solvent weld on 1”x1” to 3”x1” Tee fitting	561 227
 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
 PVC-U, G or NPT 1 $^{1}/_{4}$”screw-on		Respect recommendations of installation	NPT 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	561 228

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

Order Form

Current pricing and availability is always available on-line at our convenient friendly e-shop which can be found at http://store.burkert.us

Please fax to 949-223-3198 or email to select-usa@burkert.com

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Name	
Telephone	
Email Address	

	Bill to:	Ship to: Same as bill to ☐
Company		
Attention		
Street		
City		
State		
ZIP		

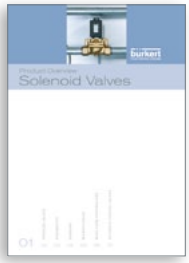
Part # (e.g. 742 611, 98112345, 00467123)	**Quantity**	**Price** (not required if unknown)

Shipping Method		**Priority**	
UPS	☐	Overnight	☐
FedEx	☐	2-day	☐
		Ground	☐

For security purposes, you will receive a phone call or email from a Bürkert representative requesting your credit card information. Please do not include it in this form.

Where applicable, Resale Cert. or Tax Exempt Form must be included as a second page if tax exemption status is desired for this request.

Bürkert Product Program



Bürkert offers a remarkable range of servo-assisted and direct-acting solenoid valves. Read more about them in this brochure.

Bürkert offers unlimited modularity for process control with angle-seat, globe and diaphragm valves in the widest range of configurations.

Here you can find our product range of pneumatic valves, valve units and automation systems as well as information on our control cabinet building.

Here you can find our sensors, transmitters and controllers for measuring and controlling flow, temperature, pressure, level, pH/ORP and conductivity.

The brochure contains an overview of Bürkert miniature valves and micro pumps, which allow for precise and safe handling of small volumes of liquids.

This brochure provides technical background information as well as a detailed product overview for the mass flow controller and meter product range.

This brochure presents our solenoid control valves including their respective features, functions and typical applications.

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