

2/2-way Globe Valve for media up to +180 °C, DN 10-100



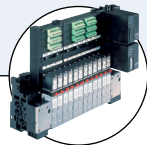
- Compact globe valve version
- Flange, threaded and welded ports as standard
- Stainless steel 316L valve body
- Available with flow direction below and above seat

Type 2012 can be combined with...



Typ 8697

Electrical position feedback



Type 8640/8644

Valve block



Type 6012/6014 P

Pilot valve



Type 5470

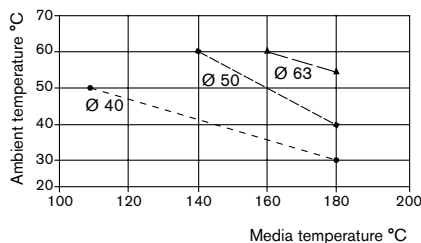
Solenoid valve

For process valves with decentralized automation see ELEMENT Type 2101



The externally piloted globe valve consists of a pneumatically operated piston actuator and a 2/2-way valve body. The actuator is made of PA or, for special operating conditions, PPS. The reliable self-adjusting packing gland provides high sealing integrity. These maintenance-free and robust valves can be retro-fitted with a comprehensive range of accessories for position indication, stroke limitation or manual override.

²⁾ **Note:** For PA actuators in the sizes 40, 50 and 63, the combination of max. media temperature and max. ambient temperature is as shown in the following chart:



Technical data	
Orifice	DN 10-100
Body material	Cast stainless steel 316L
Actuator material	PA, PPS
Seal material	PTFE (NBR, FKM and EPDM on request)
Medium	Water, alcohol, oils, fuel, salt solution, alkali solutions, organic solvents, steam
Viscosity	Max. 600 mm ² /s
Packing gland (with silicone grease)	PTFE
Nominal pressure	PN 25 (body)
Medium temperature ²⁾	14 to 356 °F with PTFE seal
Ambient temperature PA actuator ¹⁾	
Actuator sizes up to Ø 125	14 to 140 °F
Actuator sizes Ø 175-225	14 to 122 °F
PPS actuator	
Actuator sizes Ø 40-80	41 to 284 °F
Actuator sizes Ø 100-125	41 to 194 °F
Installation	As required, preferably with actuator in upright position
Control medium	Neutral gases, air
Max. pilot pressure	
Actuator size Ø 40 - 80	PA and PPS 145 psi
Actuator size Ø 100	PA 145 psi
Actuator size Ø 100	PPS 100 psi
Actuator size Ø 125	PA and PPS 100 psi
Actuator size Ø 175-225	PA 87 psi

Content



Valve specifications

Type 2012

Technical data & ordering info. p. 1-14



System spec. On/Off Classic

Type 8801-GA

Ordering info. & technical data p. 15-16

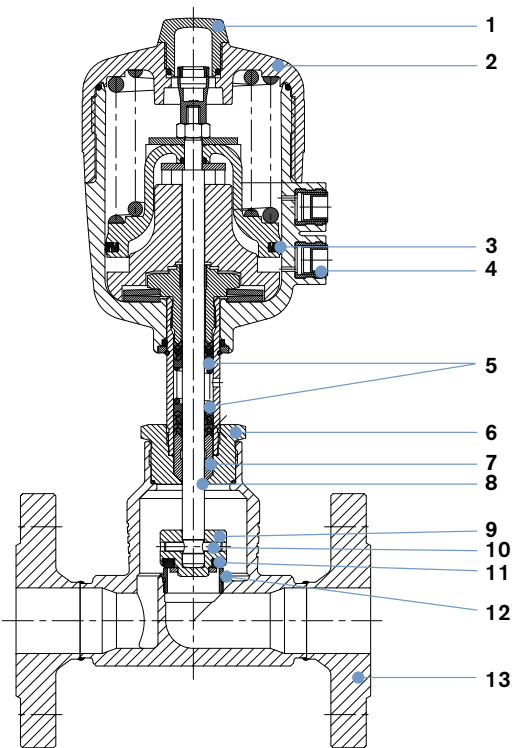
Request for quotation

Type 8801-GA

p. 17

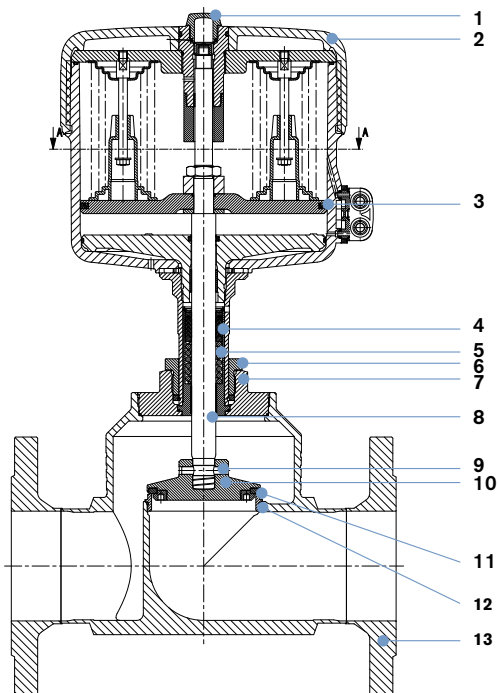
Materials

Actuator size 40-125 mm



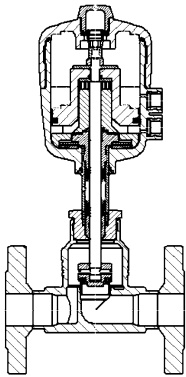
- | | | | |
|----|----|-----------------|--|
| 1 | 1 | Transparent cap | PC, PSU |
| 2 | 2 | Actuator | PA, PPS |
| 3 | 3 | Cylinder seal | NBR, FKM |
| 4 | 4 | Pilot air ports | Stainless steel 1.4305 |
| 5 | 5 | V-seals | PTFE, FKM |
| 6 | 6 | Nipple | Stainless steel 1.4401 |
| 7 | 7 | Wiper | - PTFE |
| 8 | 8 | Spindle | - PEEK Actuator size 100 mm and 125 mm
Stainless steel 1.4401 |
| 9 | 9 | Swivel plate | Stainless steel 1.4401 |
| 10 | 10 | Pin | Stainless steel 1.4401 |
| 11 | 11 | Seal | PTFE (NBR, FKM, EPDM on request) |
| 12 | 12 | Valve seat | Stainless steel 1.4571 |
| 13 | 13 | Valve body | Stainless steel 316L |

Actuator size 175 and 225mm



- | | | | |
|----|----|-----------------|----------------------------------|
| 1 | 1 | Transparent cap | PC |
| 2 | 2 | Actuator | PA |
| 3 | 3 | Cylinder seal | NBR |
| 4 | 4 | V-seals | PTFE |
| 5 | 5 | Spring | Stainless steel 1.4568 |
| 6 | 6 | Screw | Stainless steel 1.4305 |
| 7 | 7 | Nipple | Stainless steel 1.4404 |
| 8 | 8 | Spindle | Stainless steel 1.4401 |
| 9 | 9 | Pin | Stainless steel 1.4404 |
| 10 | 10 | Swivel plate | Stainless steel 1.4404 |
| 11 | 11 | Seal | PTFE (NBR, FKM, EPDM on request) |
| 12 | 12 | Valve seat | Stainless steel 1.4571 |
| 13 | 13 | Valve body | Stainless steel 316L |

Technical data for valves with flow direction below the seat



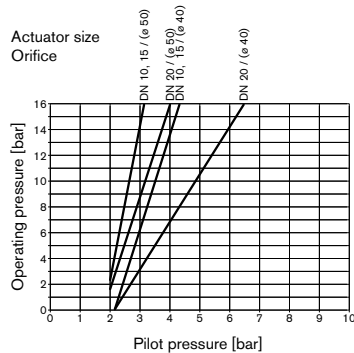
Flow direction below seat
Type 2012 with flange port connection

Orifice [mm]	Actuator size [mm]	CV value Water [GPM]	Minimum pilot pressure CFA [PSI]	Maximum operating pressure up to 365°F		Weight with CFA Flange [lb]	Threaded port and weld end [lb]
				CFA [PSI]	CFB [PSI]		
10	40	5.5	58	218	232	5.1	1.8
	50	5.5	57	232	232	5.29	2
15	40	5.5	58	218	232	5.1	1.8
	50	5.5	57	232	232	5.29	2
20	40	9.4	58	95	232	2.2	2
	50	9.4	58	145	232	5.6	2.4
	63	9.4	65	232	-	8.1	3.3
25	63	15.1	65	160	232	10.1	4.4
	80	15.1	73	232	-	11.9	6.2
32	63	22.6	65	87	232	-	6.4
	80	22.6	73	218	-	-	8.2
40	80	36	73	145	232	18.5	9.3
	125	36	47	232	-	30.6	21.4
50	100	52	64	105	232	29.8	17
	125	52	46	145	-	34.4	21.6
65	125	84.4	82	174	232	44.5	28.4
	175	84.4	65	232	-	57.3	41.2
80	125	127.2	81	109	203	54	35.5
	175	127.2	65	145	-	66.1	47
	225	127.2	48	232	-	78.3	59.3
100	125	191.8	81	73	131	72.5	45.4
	175	179.3	65	102	203	83.6	56.4
	225	179.3	70	232	-	95.9	46.7

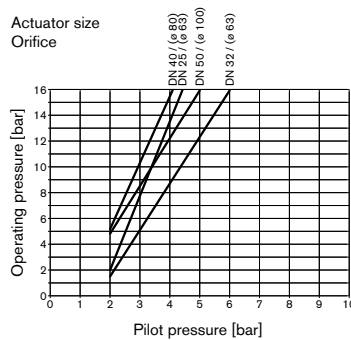
* acc. to the Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 4, paragraph (1), c), i), first dash)

Pressure charts for control function B and flow direction below the seat

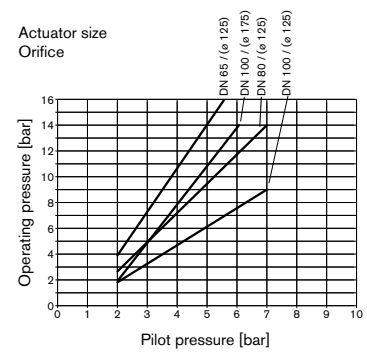
DN 10-20



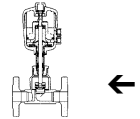
DN 25-50



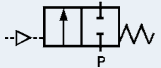
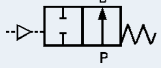
DN 65-100



Ordering chart for valves with flow direction below the seat (other versions on request)



Valves with stainless steel body and flange connection according to ANSI B16.5, flow below seat

Control function	Orifice [mm]	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to 356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
A  2/2-way valve, NC by spring action	1/2" [15]	40	5.5	58	218	146 246	-
		50	5.5	57	232	146 258	-
	3/4" [20]	40	9.4	58	95	146 270	-
		50	9.4	58	145	146 282	-
		63	9.4	65	232	146 294	-
		80	15.1	73	232	146 571	465 445
	1" [25]	63	15.1	73	232	146 572	-
		80	15.1	73	145	146 326	260 968
	1-1/2" [40]	80	36.0	73	145	146 326	260 968
		125	36.0	47	232	146 338	465 506
		100	52.0	64	105	146 344	365 017
		125	52.0	46	145	146 356	261 227
	2" [50]	100	52.0	46	145	146 356	261 227
		125	52.0	46	145	146 356	261 227
		125	84.4	82	174	152 742	-
		175	84.4	65	232	152 760	-
2-1/2" [65]	125	84.4	65	232	152 760	-	
	175	84.4	65	232	152 760	-	
	125	127.2	81	109	155 526	-	
	175	127.2	65	145	152 778	-	
3" [80]	125	127.2	65	145	152 778	-	
	175	127.2	65	145	152 778	-	
	225	127.2	48	232	152 796	-	
	125	191.8	81	73	155 545	-	
4" [100]	125	191.8	81	73	155 545	-	
	175	179.3	65	102	152 814	-	
	175	179.3	65	102	152 814	-	
	225	179.3	70	232	152 832	-	
B  2/2-way valve, NO by spring action	1/2" [15]	40	5.5	see charts page 3	232	146 252	-
		50	5.5		232	146 264	-
	3/4" [20]	40	9.4		232	146 276	-
		50	9.4		232	146 288	-
	1" [25]	63	15.1		232	146 304	464 427
		80	36.0		232	146 332	464 526
	1-1/2" [40]	80	36.0		232	146 332	464 526
		100	52.0		232	146 350	464 227
	2" [50]	100	52.0		232	146 350	464 227
		125	84.4		232	152 751	-
	2-1/2" [65]	125	84.4		232	152 751	-
		125	127.2		203	152 769	-
	3" [80]	125	127.2		203	152 769	-
		125	190.8		131	152 805	-
	4" [100]	125	190.8		131	152 805	-
		175	179.2		203	152 823	-

* acc. to the Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 4, paragraph (1), c), i), first dash)

 Further versions on request

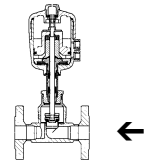
Port connections
 Flange acc. to ANSI, JIS
 Clamp

Approvals
 GL, EC Gas Appliances Directive (previously DVGW), SIL

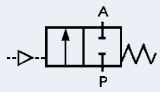
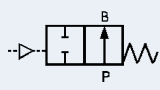
Control function
 I (double-acting actuator)

Mediums temperature
 Valves for mediums temperature up to +200 °C or down to -40 °C

Ordering chart for valves with flow direction below the seat (other versions on request), *cont.*




Valves with stainless steel body and threaded port connection, flow below seat

Control function	Orifice [mm]	Threaded port connection NPT	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to 356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
A  2/2-way valve, NC by spring action	15	3/8"	40	5.4	58	218	461 551	-
			50	5.4	57	232	461 552	-
	15	1/2"	40	5.4	58	218	461 553	-
			50	5.4	57	232	461 554	-
	20	3/4"	40	9.4	58	94	461 555	-
			50	9.4	58	145	461 556	-
			63	9.4	65	232	461 557	-
	25	1"	63	15.0	65	160	461 558	-
			80	15.0	73	232	461 559	-
	32	1-1/4"	63	22.6	65	87	461 560	-
			80	22.6	73	218	461 561	-
	40	1-1/2"	80	35.9	73	145	461 562	-
125			35.9	46	232	461 563	-	
50	2"	100	52.0	64	104	461 564	-	
		125	52.0	46	145	461 565	-	
65	2-1/2"	125	75.2	81	174	152 746	-	
		175	75.2	65	232	152 764	-	
B  2/2-way valve, NO by spring action	10	3/8"	40	5.4	see charts page 3	232	-	-
			50	5.4		232	-	298 297
	15	1/2"	40	5.4	232	-	-	
			50	5.4	232	-	-	
	20	3/4"	40	9.4	232	-	-	
			50	9.4	232	274 395	-	
	25	1"	63	15.0	232	-	-	
	32	1-1/4"	63	22.6	232	-	-	
	40	1-1/2"	80	35.9	232	-	-	
	50	2"	100	52.0	232	-	-	
	65	2-1/2"	125	75.2	232	-	-	
			152 755	-	-			


* acc. to the Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 4, paragraph (1), c), i), first dash)

i Further versions on request

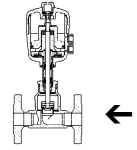
 **Port connections**
Threaded port NPT, Rc
Clamp

 **Control function**
I (double-acting actuator)

 **Approvals**
GL, EC Gas Appliances Directive (previously DVGW), SIL

 **Mediums temperature**
Valves for mediums temperature up to +200 °C or down to -40 °C

Ordering chart for valves with flow direction below the seat (other versions on request), *cont.*



Valves with stainless steel body and weld end according to ASME BPE, flow below seat

Control function	Orifice [mm]	Weld end ASME BPE external Ø x Ws [mm]	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to 356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
<p>2/2-way valve, NC by spring action</p>	1/2" [15]	12.7 x 1.65	40	5.4	58	218	151 831	-
			50	5.4	57	232	151 832	-
	3/4" [15]	19.05 x 1.65	40	5.4	58	218	151 833	-
			50	5.4	57	232	151 834	-
	1" [20]	25.4 x 1.65	63	9.4	65	232	146 303	464 150
	1-1/2" [32]	38.1 x 1.65	63	22.6	65	87	146 331	-
			80	22.6	73	218	146 343	464 151
	2" [40]	50.8 x 1.65	80	35.9	73	145	146 349	-
			125	35.9	46	232	146 361	-
	2-1/2" [50]	63.5 x 1.65	125	52.0	46	145	152 750	464 152
	3" [65]	76.2 x 1.65	125	84	65	174	155 544	-
			175	84	65	232	152 786	-
4" [100]	101.6 x 2.11	125	191	81	73	155 553	-	
		175	179	65	180	152 822	-	
		225	179	70	232	152 840	-	
<p>2/2-way valve, NO by spring action</p>	1/2" [15]	12.7 x 1.65	40	5.4	see charts page 3	232	151 835	-
			50	5.4		232	151 836	-
	3/4" [15]	19.05 x 1.65	40	5.4	232	151 837	-	
			50	5.4	232	151 838	-	
	1" [20]	25.4 x 1.65	63	9.4	232	146 309	465 396	
	1-1/2" [32]	38.1 x 1.65	63	22.6	232	146 337	-	
	2" [40]	50.8 x 1.65	80	35.8	232	146 355	-	
	2-1/2" [50]	63.5 x 1.65	125	52	232	152 759	-	
	3" [65]	76.2 x 1.65	125	84	232	152 777	-	
	4" [100]	101.6 x 2.11	125	191	131	152 813	-	
			175	179	203	152 831	-	

* acc. to the Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 4, paragraph (1), c), i), first dash)

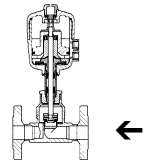
i Further versions on request

Port connections
Weld end O.D.
Clamp

Control function
I (double-acting actuator)

Approvals
GL, EC Gas Appliances Directive (previously DVGW), SIL

Mediums temperature
Valves for mediums temperature up to +200 °C or down to -40 °C

Ordering chart for valves with flow direction below the seat (other versions on request), *cont.*

Valves with stainless steel body and weld end according to BS 4825, flow below seat

Control function	Orifice [mm]	Weld end BS 4825 external Ø x Ws [mm]	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to 356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
 2/2-way valve, NC by spring action	1/2" [15]	12.7 x 1.2	40	5.4	58	218	146 275	-
			50	5.4	57	232	146 287	-
	3/4" [15]	19.05 x 1.2	40	5.4	58	218	461 066	-
			50	5.4	57	232	461 068	-
	1" [20]	25.4 x 1.65	63	9.3	65	232	146 303	464 150
			63	22.6	65	87	146 331	-
	1-1/2" [32]	38.1 x 1.65	80	22.6	73	218	146 343	464 151
			80	35.8	73	145	146 349	-
	2" [40]	50.8 x 1.65	125	35.8	47	232	146 361	-
			125	52.0	47	145	152 750	464 152
	2-1/2" [50]	63.5 x 1.65	175	84.4	65	232	152 786	-
			175	84.4	65	232	152 786	-
3" [65]	76.2 x 1.65	125	190.8	81	73	155 553	-	
		175	179.2	65	102	152 822	-	
4" [100]	101.6 x 2.11	225	179.2	70	232	152 840	-	
		225	179.2	70	232	152 840	-	
 2/2-way valve, NO by spring action	1/2" [15]	19 x 1.5	40	5.4	see charts page 3	232	146 257	-
			50	5.4	232	146 269	-	
	3/4" [15]	23 x 1.5	40	5.4	232	146 281	-	
			50	5.4	232	146 293	-	
	1" [20]	29 x 1.5	63	9.3	232	146 309	465 396	
			63	22.6	232	146 337	-	
	1-1/2" [32]	41 x 1.5	80	35.8	232	146 355	-	
			80	35.8	232	146 355	-	
	2" [40]	53 x 1.5	125	52.0	232	152 759	-	
			125	52.0	232	152 759	-	
	2-1/2" [50]	70.0 x 2.0	175	84.4	232	152 777	-	
			175	84.4	232	152 777	-	
3" [65]	85.0 x 2.0	125	190.8	131	152 813	-		
		125	190.8	131	152 813	-		
4" [100]	104.0 x 2.0	175	179.2	203	152 831	-		
		175	179.2	203	152 831	-		

* acc. to the Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 4, paragraph (1), c), i), first dash)

Further versions on request



Port connections
Weld end O.D.
Clamp



Approvals
GL, EC Gas Appliances Directive (previously DVGW), SIL

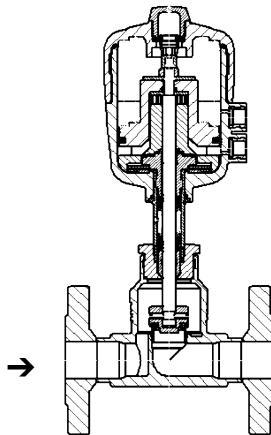


Control function
I (double-acting actuator)



Mediums temperature
Valves for mediums temperature up to +200 °C or down to -40 °C

Technical data for valves with flow direction above the seat



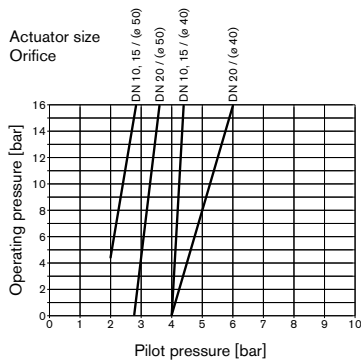
Flow direction above seat
Type 2012 with flange connection

Technical data	Flow direction above the seat
Medium	Gaseous medium and steam
Other technical data	Please see technical data for flow direction below seat

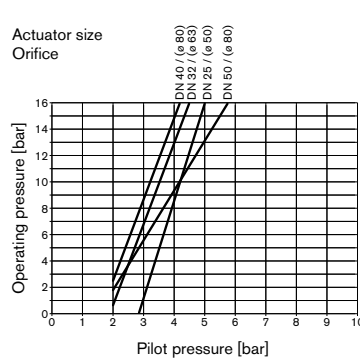
Orifice [mm]	Actuator size [mm]	CV value water [GPM]	Operating pressure up to 356° F [PSI]	Weight with flange [lb]	Threaded port and weld end [lb]
10	40	3.5	232	5.1	1.8
	50	3.5	232	5.3	2
15	40	5.4	232	5.1	1.8
	50	5.4	232	5.3	2
20	40	9.4	232	6.8	2
	50	9.4	232	7.3	2.4
25	50	15.0	232	8.8	3.1
32	63	22.6	232	14.6	6.4
40	80	35.9	232	18.5	9.3
50	80	52.0	232	25.1	12.3
65	125	84.4	145	44.5	28.4
80	125	127.2	145	54.0	35.5
100	125	190.8	87	72.5	45.4

Pressure charts

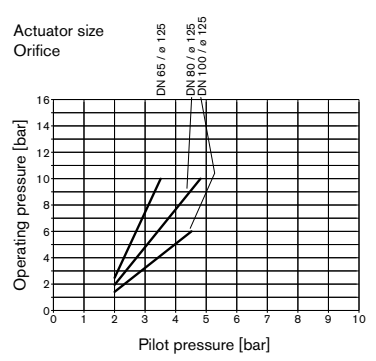
DN 10-20



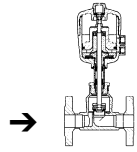
DN 25-50



DN 65-100



Ordering chart valves with flow direction above the seat (other versions on request)



Valves with stainless steel body and flange connection according to ANSI B16.5, flow above seat

Control function	Orifice [mm]	Connection	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to +356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
<p>2/2-way valve, NC by spring action</p>	1/2" [15]	Flange	40	5.4	see charts page 8	232	146 436	-
			50	5.4		232	146 442	-
	3/4" [20]	Flange	40	13.9		232	146 447	-
			50	9.4		232	146 453	-
	1" [25]	Flange	50	13.9		232	146 459	-
	1-1/2" [40]	Flange	80	35.9		232	146 475	-
	2" [50]	Flange	80	52.0		232	146 486	-
	2-1/2" [65]	Flange	125	84.4		145	152 841	-
	3" [80]	Flange	125	127		145	152 850	465 731
4" [100]	Flange	125	191	87	152 859	-		

Valves with stainless steel body and threaded port connection, flow above seat

Control function	Orifice [mm]	Connection NPT	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to +356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
<p>2/2-way valve, NC by spring action</p>	10	3/8"	40	5.4	see charts page 8	232	-	-
			50	5.4		232	-	-
	15	1/2"	40	5.4		232	-	-
			50	5.4		232	-	-
	20	3/4"	40	9.4		232	-	-
			50	9.4		232	274 357	-
	25	1"	50	15.0		232	-	-
	32	1-1/4"	63	22.6		232	-	-
	40	1-1/2"	80	35.9		232	-	-
50	2"	80	52.0	232	-	-		
65	2-1/2"	125	75.2	145	-	-		

Attention!

Valves with flow direction above the seat are only conditionally usable for liquid media.

Waterhammer will occur! For flange and threaded port connections pilot pressures, please refer to Charts on page 8.

i Further versions on request
**Port connections**

Flange acc. to ANSI, JIS
Threaded port NPT, Rc
Clamp

**Control function**

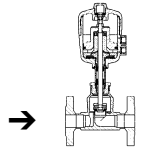
I (double-acting actuator) and B (spring-return normally-open)

**Approvals**

GL, EC Gas Appliances Directive (previously DVGW), SIL

**Medium temperature**

Valves for mediums temperature up to +200 °C or down to -40 °C

Ordering chart valves with flow direction above the seat (other versions on request), *cont.*

Valves with stainless steel body and weld end according to ASME BPE, flow above seat

Control function	Orifice [mm]	Weld end external Ø x Ws [mm]	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to +356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
<p>2/2-way valve, NC by spring action</p>	1/2" [15]	12.7 x 1.65	40	5.4	see charts page 8	232	151 839	-
			50	5.4		232	151 840	-
	3/4" [15]	19.05 x 1.65	40	5.4		232	151 851	-
			50	5.4		232	151 852	-
	1" [20]	25.4 x 1.65	50	9.4		232	461 149	-
	1-1/2" [32]	38.1 x 1.65	80	22.6		232	146 474	-
	2" [40]	50.8 x 1.65	80	35.9		232	146 485	-
	2-1/2" [50]	63.5 x 1.65	125	52.0		232	152 849	-
	3" [65]	76.2 x 1.65	125	84.4		232	152 858	-
4" [100]	101.6 x 2.11	125	190.8	87	152 867	-		

Valves with stainless steel body and weld end according to BS 4825, flow above seat

Control function	Orifice [mm]	Weld end external Ø x Ws [mm]	Actuator size Ø [mm]	CV value water [GPM]	Minimum pilot pressure [PSI]	Operating pressure up to +356 °F [PSI]	Item no. PA actuator	Item no. PPS actuator
<p>2/2-way valve, NC by spring action</p>	1/2" [15]	12.7 x 1.2	40	5.4	see charts page 8	232	146 441	-
			50	5.4		232	146 458	149 349
	3/4" [15]	19.05 x 1.2	40	5.4		232	146 452	-
			50	5.4		232	461 080	-
	1" [20]	25.4 x 1.65	50	9.4		232	461 149	-
	1-1/2" [32]	38.1 x 1.65	63	22.6		232	146 474	-
	2" [40]	50.8 x 1.65	63	35.9		232	146 485	-
	2-1/2" [50]	63.5 x 1.65	125	52.0		232	152 849	-
	3" [65]	76.2 x 1.65	125	84.4		232	152 858	-
4" [100]	101.6 x 2.11	125	190.8	87	152 867	-		

Attention!

Valves with flow direction above the seat are only conditionally usable for liquid media. Waterhammer will occur! For weld ends according to EN ISO 1127/ISO 4200 and DIN 11850 Series 2 pilot pressures, please refer to Charts page 8.

i Further versions on request

Port connections
Weld end, O.D.
Clamp



Control function
I (double-acting actuator) and B (spring-return normally-open)



Approvals
GL, EC Gas Appliances Directive (previously DVGW), SIL



Mediums temperature
Valves for mediums temperature up to +200 °C or down to -40 °C

Ordering chart for accessories

3/2-way pilot valves with banjo bolts

Seal material valve FKM, seal material banjo bolt NBR

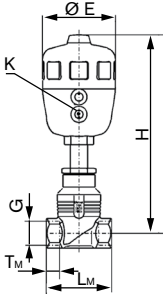
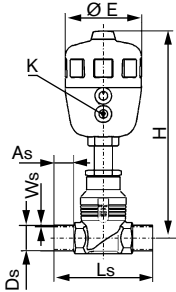
Valve for actuator size [Ø mm]	Type	Pressure inlet P (valve body)	Service port A (banjo bolt)	Orifice [mm]	Qn value air [l/min]	Pressure range [bar]	Electrical coil connection Ind. Std.	Power consumption [W]	Item no. Voltage/frequency [V/Hz]	
									024/DC	230/50
40	6012P	1/4" NPT	G 1/8	1.2	0.052	0-145	Form C	4	427 923	428 551
40	6012P	1/4" NPT	G 1/8	1.2	0.052	0-145	Form B	4	552 275	552 277
40	6014P	1/4" NPT	G 1/8	2	0.127	0-145	Form A	4	429 146	429 148
50-63	6012P	1/4" NPT	G 1/4	1.2	0.052	0-145	Form C	4	428 565	428 567
50-125	6014P	1/4" NPT	G 1/4	2	0.127	0-145	Form A	8	429 134	429 136

For further accessories see Type 8697, or the accessories datasheet Type 2XXX for the full options programme.

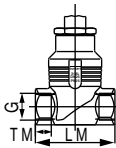
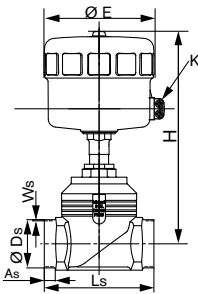
Note: For design reasons, some of the accessories cannot be supplied for actuator size Ø 40, 175 and 225 mm. Please request the accessories datasheet Type 2XXX.

Dimensions [inch]

Threaded and weld end
DN 10-50

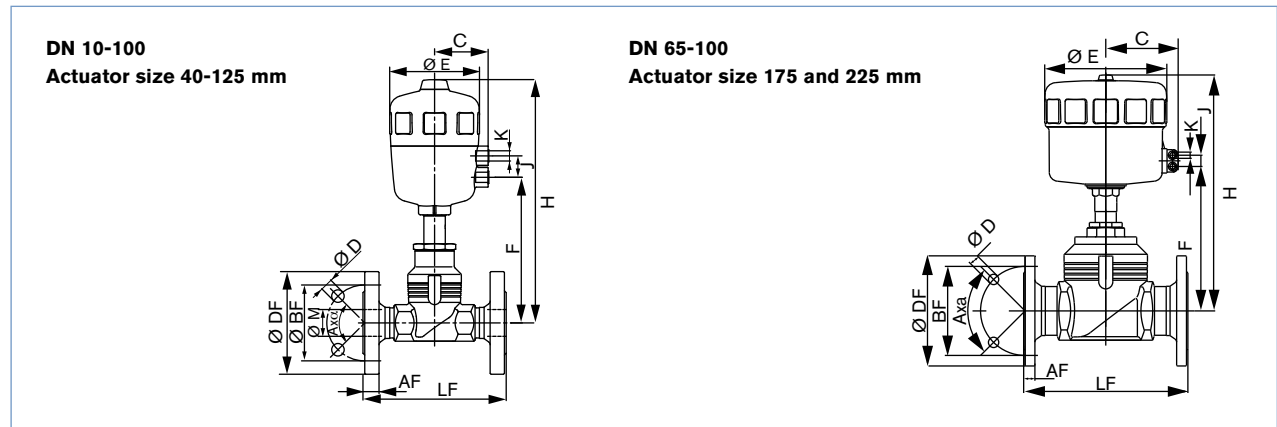
<p>With threaded port connection</p> 					<p>With weld end acc. to ASME BPE or BS4825</p> 										
All bodies					Threaded port body			Weld end bodies ASME BPE or BS4825				Weld end bodies BS4825			
DN	Actuator size Ø[mm]	E Ø	H	K	G	LM	TM	As	Ds	Ls	Ws	As	Ds	Ls	Ws
10	40	2.087	7.283	G 1/8	3/8"NPT	2.559	0.406	-	-	-	-	-	-	-	-
	50	2.520	8.308	G 1/4											
15	40	2.087	7.283	G 1/8	1/2"NPT	2.953	0.539	0.787	0.500	3.543	0.065	0.787	0.500	3.543	0.047
	50	2.520	8.308	G 1/4											
20	40	2.087	6.693	G 1/8	3/4"NPT	2.953	0.551	0.787	0.750	3.543	0.065	0.787	0.750	3.543	0.047
	50	2.520	8.386	G 1/4											
	63	3.150	9.724												
25	50	2.520	8.661	G 1/4	1"NPT	3.543	0.661	0.787	1.000	3.937	0.063	0.787	1.000	3.937	0.063
	63	3.150	9.882												
	80	3.976	10.748												
32	63	3.150	10.669	G 1/4	1 1/4"NPT	4.331	0.681	-	-	-	-	-	-	-	-
	80	3.976	11.575												
40	80	3.976	11.772	G 1/4	1 1/2"NPT	4.724	0.681	1.024	1.500	5.512	0.063	1.024	1.500	5.512	0.063
	100	5.000	14.567												
	125	6.181	15.827												
50	80	6.181	16.929	G 1/4	2"NPT	5.906	0.693	1.024	2.000	5.906	0.063	1.024	2.000	5.906	0.063
	100	6.181	17.323												
	125	6.181	17.717												

DN 65-100

<p>With threaded port connection</p> 					<p>With weld end acc. to ASME BPE or BS4825</p> 										
All bodies					Threaded port body			Weld end bodies ASME BPE				Weld end bodies BS4825			
DN	Actuator size Ø	E Ø	H	K	G	LM	TM	As	Ds	Ls	Ws	As	Ds	Ls	Ws
65	125	6.181	16.929	G 1/4	2 1/2" NPT	7.283	0.933	1.024	2.500	6.890	0.063	1.024	2.500	6.890	0.063
	175	8.307	19.331												
80	125	6.181	17.323	G 1/4	-	-	-	1.024	3.000	8.268	0.063	1.024	3.000	8.268	0.063
	175	8.307	19.606												
	225	10.276	19.449												
100	125	6.181	17.717	G 1/4	-	-	-	1.024	4.000	10.236	0.079	1.024	4.000	10.236	0.079
	175	8.307	20.000												
	225	10.276	19.843												

Dimensions [mm], *continued*

Flange connection



All bodies								DIN flange							JIS flange						
DN	Actuator	C	ØE	F	H	K	J	ØDF	LF	ØBF	AF	ØD	AxØ	ØM	ØDF	LF	ØBF	AF	ØD	AxØ	ØM
10	40	33	53	116	185	G1/8	16.5	90	130	60	16	14	4x90°	14	-	-	-	-	-	-	-
	50	44	64	131	211	G1/4	24	90	130	60	16	14	4x90°	14	-	-	-	-	-	-	-
15	40	33	53	116	185	G1/8	16.5	95	130	65	16	14	4x90°	18	95	108	70	12	15	4x90°	18
	50	44	64	131	211	G1/4	24	95	130	65	16	14	4x90°	18	95	108	70	12	15	4x90°	18
20	40	33	53	118	187	G1/8	16.5	105	150	75	18	14	4x90°	24	100	117	75	14	15	4x90°	24
	50	44	64	135	213	G1/4	24	105	150	75	18	14	4x90°	24	100	117	75	14	15	4x90°	24
	63	52	80	155	247	G1/4	24	105	150	75	18	14	4x90°	24	100	117	75	14	15	4x90°	24
25	50	44	64	140	220	G1/4	24	115	160	85	18	14	4x90°	30	125	127	90	14	19	4x90°	30
	63	52	80	159	251	G1/4	24	115	160	85	18	14	4x90°	30	125	127	90	14	19	4x90°	30
	80	60	101	164	273	G1/4	24	115	160	85	18	14	4x90°	30	125	127	90	14	19	4x90°	30
32	63	52	80	179	271	G1/4	24	140	180	100	18	18	4x90°	38	135	140	100	16	19	4x90°	38
	80	60	101	184	294	G1/4	24	140	180	100	18	18	4x90°	38	135	140	100	16	19	4x90°	38
40	63	52	80	184	276	G1/4	24	150	200	110	18	18	4x90°	44	140	165	105	16	19	4x90°	44
	80	60	101	189	299	G1/4	24	150	200	110	18	18	4x90°	44	140	165	105	16	19	4x90°	44
	100	73	127	214	366	G1/4	30	150	200	110	18	18	4x90°	44	140	165	105	16	19	4x90°	44
	125	86	157	220	397	G1/4	30	150	200	110	18	18	4x90°	44	140	165	105	16	19	4x90°	44
50	63	52	80	195	287	G1/4	24	165	230	125	20	18	4x90°	56	155	203	120	16	19	4x90°	56
	80	60	101	199	309	G1/4	24	165	230	125	20	18	4x90°	56	155	203	120	16	19	4x90°	56
	100	73	127	218	370	G1/4	30	165	230	125	20	18	4x90°	56	155	203	120	16	19	4x90°	56
	125	86	157	225	402	G1/4	30	165	230	125	20	18	4x90°	56	155	203	120	16	19	4x90°	56
65	125	86	157	254	430	G1/4	30	185	290	145	22	18	8x45°	66	175	216	140	18	19	4x90°	72
	175	130	211	289	491	G1/4	24	185	290	145	22	18	8x45°	66	175	216	140	18	19	4x90°	72
80	125	86	157	264	440	G1/4	30	200	310	160	24	18	8x45°	81	185	241	150	18	19	8x45°	84
	175	130	211	296	498	G1/4	24	200	310	160	24	18	8x45°	81	185	241	150	18	19	8x45°	84
	225	155	261	299	494	G1/4	24	200	310	160	24	18	8x45°	81	185	241	150	18	19	8x45°	84
100	125	86	157	274	450	G1/4	30	235	350	190	24	22	8x45°	100	210	292	175	18	19	8x45°	109
	175	130	211	306	508	G1/4	24	235	350	190	24	22	8x45°	100	210	292	175	18	19	8x45°	109
	225	155	261	309	504	G1/4	24	235	350	190	24	22	8x45°	100	210	292	175	18	19	8x45°	109

Dimensions [inch], *continued*

Flange connection

All bodies								ANSI flange						
DN	Actuator	C	ØE	F	H	K	J	ØDF	LF	ØBF	AF	ØD	AxD	ØM
1/2"	40	1.299	2.087	4.567	7.283	G1/8	0.650	3.504	7.244	2.382	0.441	0.618	4x90°	0.630
	50	1.732	2.520	5.157	8.307	G1/4	0.945	3.504	7.244	2.382	0.441	0.618	4x90°	0.630
3/4"	40	1.299	2.087	4.646	6.693	G1/8	0.650	3.898	7.244	2.752	0.500	0.618	4x90°	0.827
	50	1.732	2.520	5.315	8.386	G1/4	0.945	3.898	7.244	2.752	0.500	0.618	4x90°	0.827
	63	2.047	3.150	6.102	9.724	G1/4	0.945	3.898	7.244	2.752	0.500	0.618	4x90°	0.827
1"	50	1.732	2.520	5.512	8.661	G1/4	0.945	4.252	7.244	3.118	0.559	0.618	4x90°	1.063
	63	2.047	3.150	6.260	9.882	G1/4	0.945	4.252	7.244	3.118	0.559	0.618	4x90°	1.063
	80	2.362	3.976	6.457	10.748	G1/4	0.945	4.252	7.244	3.118	0.559	0.618	4x90°	1.063
1 1/2"	63	2.047	3.150	7.244	10.866	G1/4	0.945	5.000	8.740	3.882	0.689	0.618	4x90°	1.614
	80	2.362	3.976	7.441	11.772	G1/4	0.945	5.000	8.740	3.882	0.689	0.618	4x90°	1.614
	100	2.874	5.000	8.425	14.409	G1/4	1.181	5.000	8.740	3.882	0.689	0.618	4x90°	1.614
	125	3.386	6.181	8.661	15.630	G1/4	1.181	5.000	8.740	3.822	0.689	0.618	4x90°	1.614
2"	63	2.047	3.150	7.677	11.299	G1/4	0.945	5.984	10.000	4.752	0.752	0.752	4x90°	2.087
	80	2.362	3.976	7.835	12.165	G1/4	0.945	5.984	10.000	4.752	0.752	0.752	4x90°	2.087
	100	2.874	5.000	8.583	14.567	G1/4	1.181	5.984	10.000	4.752	0.752	0.752	4x90°	2.087
	125	3.386	6.181	10.000	16.929	G1/4	1.181	7.008	10.866	5.500	0.878	0.752	4x90°	2.480
2 1/2"	125	3.386	6.181	10.000	16.929	G1/4	1.181	7.008	10.866	5.500	0.878	0.752	4x90°	2.480
	175	5.118	8.307	11.378	19.331	G1/4	0.945	7.008	10.866	5.500	0.878	0.752	4x90°	2.480
3"	125	3.386	6.181	10.394	17.232	G1/4	1.181	7.480	11.732	6.000	0.941	0.752	4x90°	3.071
	175	5.118	8.307	11.654	19.606	G1/4	0.945	7.480	11.732	6.000	0.941	0.752	4x90°	3.071
	225	6.102	10.276	11.772	19.449	G1/4	0.945	7.480	11.732	6.000	0.941	0.752	4x90°	3.071
4"	125	3.386	6.181	10.787	17.717	G1/4	1.181	9.016	13.858	7.500	0.941	0.752	8x45°	4.016
	175	5.118	8.307	12.047	20.000	G1/4	0.945	9.016	13.858	7.500	0.941	0.752	8x45°	4.016
	225	6.102	10.276	12.165	19.843	G1/4	0.945	9.016	13.858	7.500	0.941	0.752	8x45°	4.016

Ordering information for valve system On/Off CLASSIC Type 8801-YA

An **globe valve Type 2012** can be combined with the **feedback Type 8697** to form a **valve system On/Off CLASSIC**.

The valve system On/Off CLASSIC is composed of:

- a feedback **Type 8697** (see separate datasheet)
- a globe valve **Type 2012** (see ordering chart p. 4)

More
info.

For the configuration of further valve systems please use the "Request for quotation" on p. 17 [go to page](#)

You order two components and receive a complete assembled and certified valve.

Globe valve Type 2012

with required port connection



Feedback

Type 8697

Electrical position feedback

More
info.



Type 8697

Actuator size 40 to 225

The position feedback Type 8697 is designed for integrated mounting on CLASSIC series 20XX process valves suiting the requirements of hygienic process environment. Mechanical or inductive limit switches register the position of the valve.

Features

- Compact design
- LED position indicator
- Mechanical or inductive limit switches for end position registering
- Easy to clean chemically resistant housing featuring IP65 / IP67, 4X Rating
- Optional intrinsically safe version acc. to ATEX

Benefits

- Easy and quick installation
- High level of signal reliability thanks to self adjusting limit switches
- Signal safety through the automatic adjustment of the limit switches
- Minimised space requirement in the plant piping for more flexibility in plant design

Valve System On/Off CLASSIC

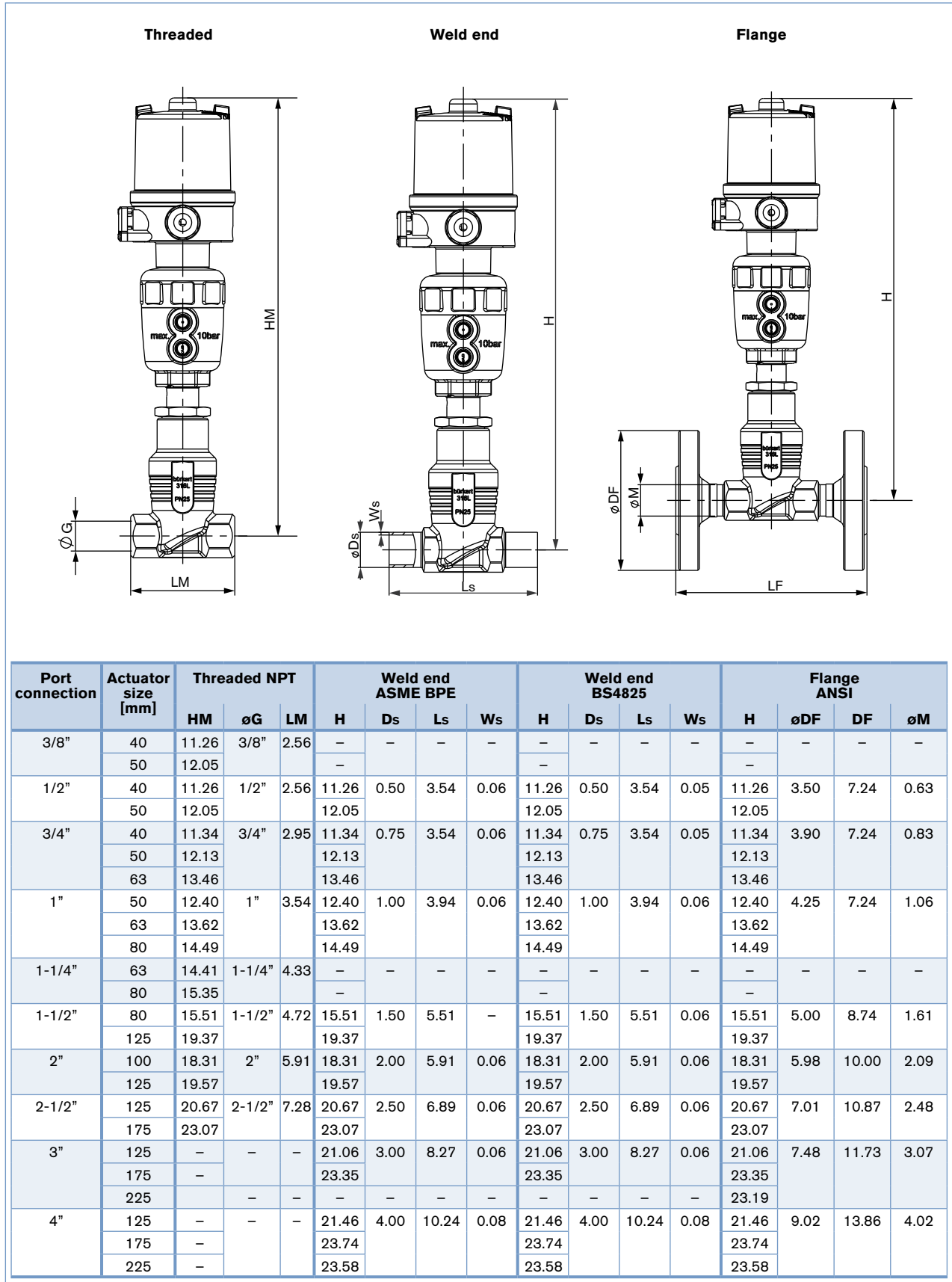


**Type 8801-GA-U
2012 + 8697**

Click on the orange box „More info“... you will come to our website for the resp. product where you can download the data sheet.

Dimensions for valve system On/Off Classic Type 8801-GA [inch]

Dimensions valve system On/Off Classic Type 8801-GA with electrical position feedback Type 8697



Note

You can fill out the fields directly in the PDF file before printing out the form.

Valve system On/Off Classic Type 8801-GA – request for quotation

Please fill out and send to your nearest Bürkert facility* with your inquiry or order

Company	Contact person
Customer no.	Department
Address	Tel./Fax
Postcode/town	E-Mail

= mandatory fields to fill out

Quantity

Required delivery date

Operating data

Pipeline	DN	<input type="text"/>	PN	<input type="text"/>
Pipe material	<input type="text"/>			
Process medium	<input type="text"/>			
Type of medium	<input type="checkbox"/> Liquid	<input type="checkbox"/> Steam	<input type="checkbox"/> Gas	
	standard	unit		
Flow rate (Q, Q _N , W) ¹⁾	<input type="text"/>	<input type="text"/>		
Temperature at valve inlet	<input type="text"/>	<input type="text"/>		
Absolute pressure at valve inlet	<input type="text"/>	<input type="text"/>		

¹⁾ standard unit: Liquid Q = m³/h; Steam W = kg/h; Gas Q_N = Nm³/h

Valve features

Actuator material	<input type="checkbox"/> PA	<input type="checkbox"/> PPS
Body material	<input type="checkbox"/> Stainless steel	<input type="checkbox"/> Gunmetal
Seat sealing material	<input type="checkbox"/> PTFE <input type="checkbox"/> NBR	<input type="checkbox"/> Other <input type="text"/>
Nominal pressure	PN <input type="text"/>	
Nominal size	DN <input type="text"/>	
Type of connection	<input type="checkbox"/> Welded <input type="checkbox"/> Internal thread <input type="checkbox"/> Clamp	
Standard connection	<input type="checkbox"/> ISO <input type="checkbox"/> DIN <input type="checkbox"/> ANSI <input type="checkbox"/> JIS <input type="checkbox"/> Other <input type="text"/>	
Function	<input type="checkbox"/> NC ²⁾ <input type="checkbox"/> NO ²⁾ <input type="checkbox"/> Double-acting	
Pilot pressure	<input type="text"/> min.	<input type="text"/> max.

²⁾ NC: normally closed by spring action; NO: normally open by spring action

Automation unit features

Click on the orange box „More info“... you will come to our website for the resp. product where you can download the data sheet.

Electrical position feedback

Type 8697
For actuator size 40 to 225



- LED position indicator
- Mechanical or inductive limit switches for end position registering
- Housing with IP65/IP67, 4X rating protection
- Optional intrinsically safe version acc. to ATEX / IECEx

Position feedback switches

- Micro switch 24V DC
- Micro switch 50 – 225 V DC/AC
- Inductive switch 3-wire PNP
- Inductive switch 2-wire NAMUR
- Inductive switch 2-wire 24V DC

Electrical connection

- Cable gland
- M12 connector
(applicable only with inductive switch 3-wire PNP)

Number of Position feedback switches

- 2x

Approval

- ATEX cat. 3GD, IECEx
- ATEX cat. 2DG, IECEx
- without

Valve system On/Off Classic Type 8801-GA – request for quotation, *continued*

Valve accessories	
Pilot valve	Stroke limitation
<input type="checkbox"/> Pilot valve	<input type="checkbox"/> Stroke limitation
Power supply <input type="text"/>	<input type="checkbox"/> Min./max. stroke limitation , with visual position indicator
	<input type="checkbox"/> Max. stroke limitation , without visual position indicator
Please specify item no. if known: <input type="text"/>	Please specify item no. if known: <input type="text"/>

Certifications
<input type="checkbox"/> Attestation of compliance with the order EN-ISO 10204 2.1
<input type="checkbox"/> Test report EN-ISO 10204 2.2
<input type="checkbox"/> Certification of Conformity for Raw Material EN-ISO 10204 3.1
<input type="checkbox"/> EN161 (EC Gas Appliances Directive)

Comment / sketch

DTS 1000082557 EN Version: A Status: RL (released | freigegeben | validé) printed: 09.11.2017

*To find your nearest Bürkert facility, click on the orange box → www.burkert.com