

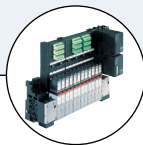
Pneumatically operated 3/2 way seat valve CLASSIC



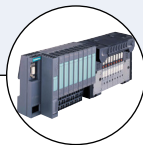
Type 2006 can be combined with...



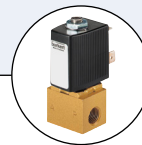
Type 8697
Feedback unit



Type 8640
Valve block



Type 8644
Valve block



Type 6012
Pilot valve



Type 6014
Pilot valve



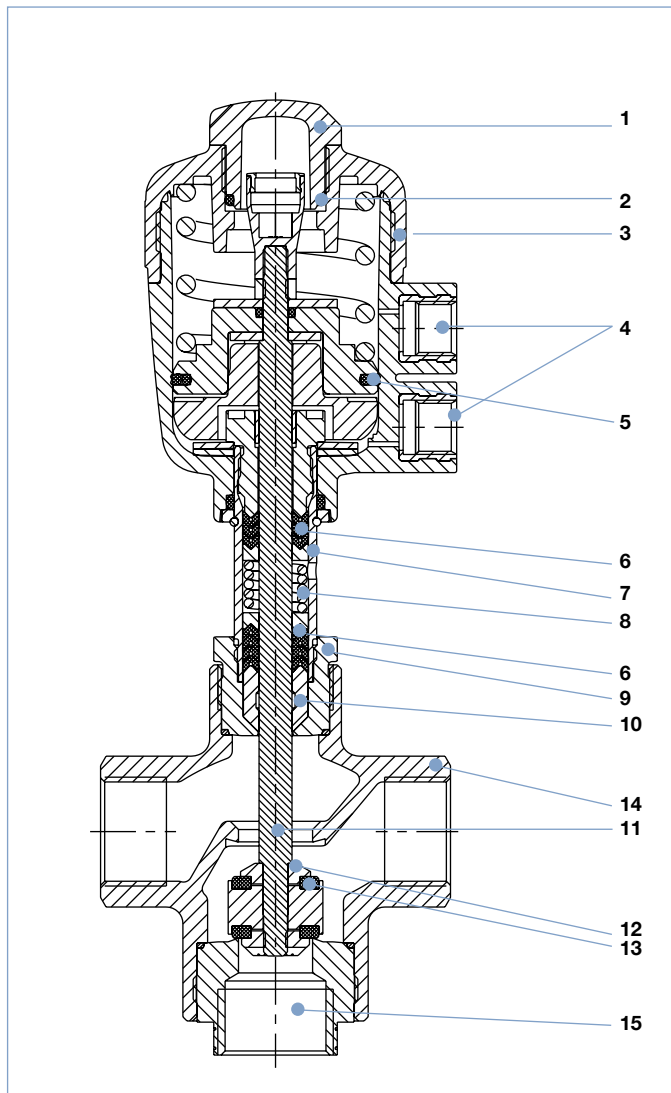
Type 8840



The Bürkert 3/2 way seat valve, Type 2006, consists of a pneumatically operated CLASSIC actuator and a 3 way valve body. The actuator is available in two different materials, PA or PPS, depending on the ambient temperature. Interchanging of pressure and service ports enables different fluidic circuit functions, such as the mixing or distributing of mediums. The flow-optimized valve body of Type 2006 allows excellent flow rates. The tried and tested self-adjusting gland secures a high level of tightness and thus ensures reliable operation over years. The 3 way valve Type 2006 is controlled by a pilot valve, or by centralized automation using a valve island. It can be equipped easily with an electrical position indicator. For the user, the compact Type 2006 is thus often an economic alternative instead of two single shut-off valves.

Technical data	
Orifice	DN15 ... 50
Body materials	Stainless steel 316L
Nominal pressure	PN16 (body)
Actuator material	PA (PPS on request)
Seal material	PTFE
Media	Water, alcohol, oils, fuels, hydraulic fluid, alkaline solutions, salt solution, organic solutions, hot water, steam
Viscosity	Max. 600 mm ² /s
Packing gland (with silicone grease)	PTFE V-rings with spring compensation
Media temperature	- 10 to + 180 °C
Ambient temperature	- 10 to + 60 °C
PA actuator	
PPS actuator	
Actuator sizes Ø 50 ... 80	+ 5 to + 140 °C
Actuator sizes Ø 125	+ 5 to + 90 °C, (up to 140 °C for a short period)
Installation	As required, preferably with actuator in upright position
Control medium	Neutral gases, air
Max. pilot pressure	10 bar 7 bar with actuator Ø 125
Port connections	G thread acc. to EN ISO 228-1 NPT thread acc. to ANSI B 1.20.1 (RC thread on request)
Approval and Conformity	EGV 1935/2004 (optional) FDA (optional)

Materials



Description	Material
1 Transparent cap	Polycarbonate (PC) (with PPS - actuator PSU)
2 O-Ring	FKM
3 Actuator	Polyamide (PPS)
4 Pilot air ports G 1/4	Stainless steel 1.4305
5 Cylinder seal	NBR (with PPS - actuator FKM)
6 Spindle seal	PTFE
7 Tube ²⁾	Stainless steel 1.4401 / 316 Stainless steel 1.4404 / 316L ³⁾
8 Tension spring	Stainless steel 1.4310
9 Nipple ²⁾	Stainless steel 1.4401 / 316 Stainless steel 1.4404 / 316L ³⁾
10 Wiper	PTFE PEEK ¹⁾
11 Spindle	Stainless steel 1.4404 / 316L
12 Plug	Stainless steel 1.4404 / 316L
13 Seals	PTFE
14 Valve body	Stainless steel 1.4404 / 316L
15 Seat nipple	Stainless steel 1.4404 / 316L

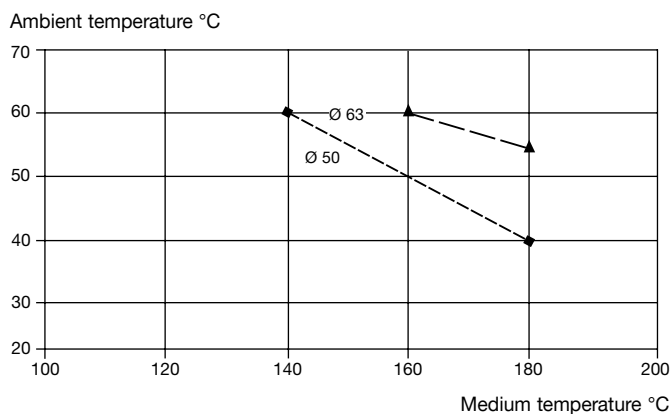
¹⁾ For actuator size 125 mm

²⁾ One-piece with the drive sizes 63 mm to 125 mm

³⁾ For actuator sizes 63 mm to 125 mm

Temperature chart

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

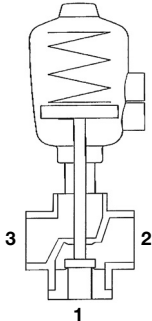


Connections for fluidic circuit functions C, D, E and F

Actuator with control function A
When de-energised port connection 1 is closed with spring

Fluidic circuit function	Connection - port		
	1	2	3
C	P	A	R
D	R	A	P
E	P1	A	P2
F	A	P	B

A, B service ports
P, P1, P2 pressure ports
R exhaust port



C

When de-energised, pressure port 1 closed, service port 2 exhausted

D

When de-energised, pressure port 3 connected to service port 2, exhaust port 1 closed

E

Mixer valve
When de-energised, pressure port 3 connected to service port 2, pressure port 1 closed

F

Distributor valve
When de-energised, pressure port 2 connected to service port 3, service port 1 closed

Dimensions [mm]

Orifice	Actuator size Ø	Port connection D	A	E	H	T
15	50	G ½	85	64	178	54
	63			80	220	54
20	50	G ¾	85	64	178	54
	63			80	220	54
25	63	G 1	105	80	220	54
32	80	G 1 ¼	130	101	249	68
	125			158	345	68
40	63	G 1 ½	130	80	226	68
	80			101	249	68
	125			158	345	68
50	125	G 2	150	158	352	72

Ordering chart for valves with port 1 closed by spring action (other versions on request)

Threaded connection acc. to EN ISO 228-1

Control function	Port connection	Orifice [mm]	Actuator size Ø [mm]	K _v value water [m³/h]		Min. pilot pressure [bar]	Max. operating pressure to 180 °C [bar]		Weight [kg]	Item no. PA actuator	Item no. PPS actuator
				1 → 2	2 → 3		1 → 2	2 → 3 2 → 1			
A 3/2 way, normally closed (NC) (port1)	G ½	15	50	7	4.5	4.4	11	16	1.3	287191	287202
			63	8	4.5	4.7	16	16	1.6	287192	287203
	G ¾	20	50	9	6.2	4.4	11	16	1.3	287193	287204
			63	11	5.6	4.7	16	16	1.6	287194	287205
	G 1	25	63	17	11	4.9	10	16	2.1	287195	287206
	G 1 ¼	32	80	32	21	6.0	9	16	4.3	287196	287207
			125	35	24	3.4	14	16	8.1	287197	287208
	G 1 ½	40	80	35	24	6.0	9	16	4.3	287199	287210
			125	35	24	3.4	14	16	8.1	287200	287211
	G 2	50	125	51	35	4.3	10	16	9.5	287201	287212

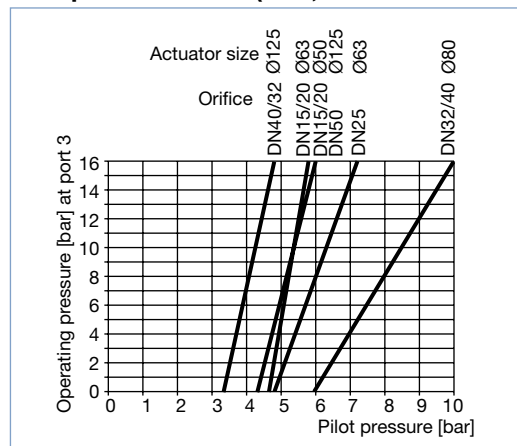
Threaded connection with NPT thread acc. to ANSI B 1.20.1

Control function	Port connection	Orifice [mm]	Actuator size Ø [mm]	K _v value water [m³/h]		Min. pilot pressure [bar]	Max. operating pressure to 180 °C [bar]		Weight [kg]	Item no. PA actuator	Item no. PPS actuator
				1 → 2	2 → 3		1 → 2	2 → 3 2 → 1			
A 3/2 way, normally closed (NC) (port1)	NPT ½	15	50	7	4.5	4.4	11	16	1.3	292542	292553
		15	63	8	4.5	4.7	16	16	1.6	292543	292554
	NPT ¾	20	50	9	6.2	4.4	11	16	1.3	292544	292555
		20	63	11	5.6	4.7	16	16	1.6	292545	292556
	NPT 1	25	63	17	11	4.9	10	16	2.1	292546	292557
	NPT 1 ¼	32	80	32	21	6.0	9	16	4.3	292547	292558
		32	125	35	24	3.4	14	16	8.1	292548	292559
	NPT 1 ½	40	80	35	24	6.0	9	16	4.3	292550	292560
		40	125	35	24	3.4	14	16	8.1	292551	292561
	NPT 2	50	125	51	35	4.3	10	16	9.5	292552	292562

Further versions on request

 **Port connection**
RC thread

Pilot pressure chart (CFA, flow direction 3 → 2)



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]	Q _{Nn} 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	
50 ... 63	6012P	Tube fitting Ø6 mm	G 1/4	1.2	48	0 ... 10	Form B	4	552283	552286
50 ... 125	6014P	G 1/4	G 1/4	2	120	0 ... 10	Form A	8	424103	424107

Cable plug Type 2507, Form B or Type 2508, Form A

	Item no.
Type 2507, Form B Industrial standard, 0 ... 250 V without circuitry (Type 6012 P)	423845
Type 2508, Form A acc. DIN EN 175 301-803, 0 ... 250 V without circuitry (Type 6014 P, Type 0331P)	008376

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

Type 8697 Pneumatic feedback unit

End position feedback											
Inductive Switch 3-wire PNP	Inductive Switch 2-wire NAMUR	Inductive Switch 2-wire 24 V DC	Micro Switch 24 V DC	Micro Switch 50 ... 250 V AC/DC	Feed-back status LEDs	Electrical connection	ATEX / IECEX Cat. 3D/G Zone 22/2 ²⁾	ATEX / IECEX Cat. 2D/G Zone 21/1 ³⁾	ATEX/ IECEX Cat. 2G Zone 1 ⁴⁾	cULus	Item no. Actuator series CLASSIC Types 20XX
Feedback (without pilot valve)											
2					yes	Cable gland				yes	248827 
2					yes	Cable gland	yes				255851 
2					yes	M12 connector	yes				255858 
2					yes	M12 connector				yes	250472 
	2				yes	Cable gland		yes			248831 
	2				yes	Cable gland			yes		255863 
		2			yes	Cable gland				yes	248826 
		2			yes	Cable gland	yes				255850 
			2			Cable gland				yes	248833 
				2		Cable gland				yes	248825 

Note: cULus only valid for versions without ATEX approval²⁾ II 3D Ex tc IIC T135 / II 3G Ex nA IIC T4 Gc³⁾ II 2D Ex ia IIC T135 °C IP64 / II 2G Ex ia IIC T4 Gb⁴⁾ II 2G Ex ia IIC T4 Gb

Adapter kit

Description	Actuator size	Control function	Item no.
Feedback	Ø50/63/80 mm	universal	682264
Feedback	Ø125 mm	universal	682265

Weitere Informationen siehe Datenblatt Typ 8697

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