



Type 2000 can be combined with...



Typ 8691

Control head



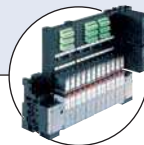
Typ 8690

Pneum. control unit
with feedback



Type 1062

Electrical position
feedback



Type 8640/8644

Valve block



Type 6012/6014 P

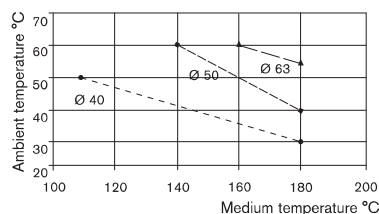
Pilot valve

- High flow rate
- Long life cycle
- NC and NO universal actuators with modular universal accessory program up to control heads
- Deliverable with flow direction below or above seat
- Simple conversion of the control function

The externally piloted angle-seat valve is operated with a single or double-acting piston actuator. The actuator is available in two different materials, PA and PPS depending on the ambient temperature. The reliable self-adjusting packing gland provides high sealing integrity. High flow rates are attained with the gunmetal or cast stainless steel 2-way body. These maintenance-free and robust valves can be retrofitted with a comprehensive range of accessories for position indication, stroke limitation or manual override.

For valves with port connection clamp and weld end please see separate datasheets.

¹⁾ **Note:** For PA actuators in the sizes 40, 50 and 63, the combination of max. medium temperature and max. ambient temperature is as shown in the following chart



Technical data	
Orifice	DN 13 to 65
Body materials	Gunmetal, cast stainless steel 316L
Actuator material	PA or PPS
Seal material	PTFE (NBR, FKM, EPDM on request)
Medium	Water, alcohol, oils, fuel, hydraulic fluids, salt solution, alkali solutions, organic solvents, steam
Viscosity	max. 600 mm ² /s
Packing gland (with silicone grease)	PTFE V-rings with spring compensation
Medium temperature¹⁾	-10 to +180 °C with PTFE seal
Ambient temperature	
PA actuator ¹⁾	-10 to +60 °C
PPS actuator ¹⁾ Ø 40-80	+5 to +140 °C
PPS actuator ¹⁾ Ø 100-125	+5 to +90 °C, briefly up to +140 °C
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 10 bar
Actuator size Ø 100	PA 10 bar
Actuator size Ø 100	PPS 7 bar
Actuator size Ø 125	PA and PPS 7 bar
Port connection	G 3/8 to G 2 1/2 (NPT on request)

Content



Valve specifications

Type 2000 threaded port

Technical data & ordering info.

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System spec. On/Off Classic

**Type 8801-YA/
8803-YA**

Ordering info. & technical data

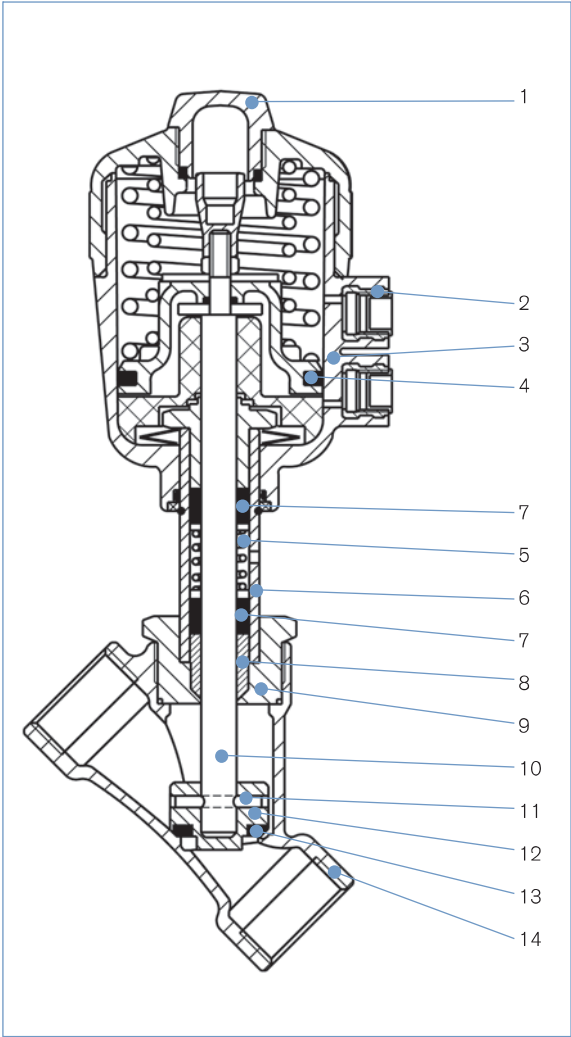
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Request for quotation

**Type 8801-YA/
8803-YA**

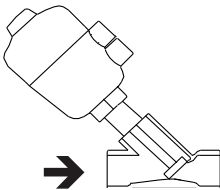
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Materials Type 2000 threaded port



	Gunmetal body	Cast stainless steel body
1	Transparent cap PC (with PPS actuator; PSU)	PC (with PPS actuator; PSU)
2	Pilot air ports Brass	Stainless steel 1.4305
3	Actuator PA, PPS	PA, PPS
4	Piston seal NBR (with PPS actuator; FKM)	NBR (with PPS actuator; FKM)
5	Spring Stainless steel 1.4310	Stainless steel 1.4310
6	Tube Brass CuZn39Pb3	Stainless steel 1.4401
7	V-Seals PTFE (FKM on request)	PTFE (FKM on request)
8	Wiper PTFE	PTFE
9	Nipple Brass CuZn	Stainless steel 1.4401
10	Spindle Stainless steel 1.4021	Stainless steel 1.4401
11	Pin Stainless steel 1.4401	Stainless steel 1.4401
12	Swivel plate Brass CuZn36Pb1.5	Stainless steel 1.4401
13	Seal PTFE (NBR, FKM, EPDM on request)	PTFE (NBR, FKM, EPDM on request)
14	Valve body Gunmetal GCuSn5ZnPb2%Ni	Stainless steel 316L

Technical data Type 2000 threaded port, flow direction above seat (only for gas and steam)



Flow direction above seat

Attention!
Valves with flow direction above the seat are only conditionally usable for liquid medium. There is a danger of waterhammer!

Orifice [mm]	Actuator size [mm]	Kv value water (m³/h)	Max. operating pressure up to 180° C	Weight [kg]
13	40	3.7	16	0.8
	50	4.2		0.8
20	40	7.9	16	0.9
	50	8.0		1.0
25	50	14.5	16	1.2
	63	19.0		1.8
32	63	27.0	16	2.2
40	63	35.0	16	2.7
	80	38.0		3.5
50	63	49.0	16	4.0
	80	52.0		4.8
65	80	77.0	14	6.4
	100	90.0	15	8.6

Kv value water [m³/h]: Measured at +20 °C, 1 bar pressure at valve inlet and free outlet
Pressure values [bar]: Measured as overpressure to the atmospheric pressure

Technical data	Flow direction above seat (only for gases and steam)
Medium	Gaseous medium and steam
Further technical data	Please see information Technical data on page 1

Pilot pressure diagram with control function A and flow direction above seat

Diagram 3

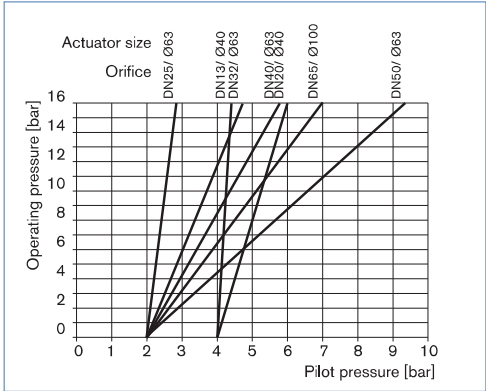
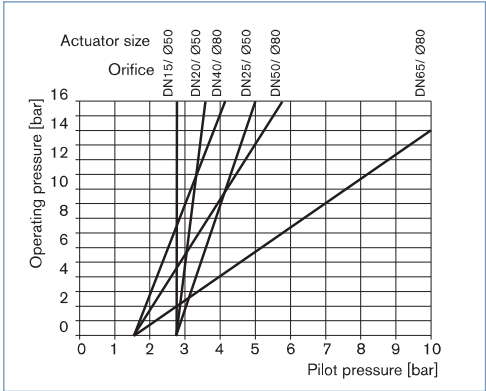


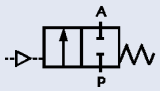
Diagram 4



Ordering chart Type 2000 threaded port, flow direction above the seat (only for gas and steam)

Various actuator and body materials

Minimum pilot pressure depending on operating pressure, please see diagram 3 and 4 on previous page

Control function	Port connection	Orifice [mm]	Actuator size Ø [mm]	Kv value water [m³/h]	Max. operating pressure to 180°C [bar]	Gunmetal body		Stainless steel body	
						Item no. PA actuator	Item no. PPS actuator	Item no. PA actuator	Item no. PPS actuator
A 2/2-way, normally closed (NC) 	G 3/8	13	40	3.7	16	186 588	■	142 615	■
	G 1/2		50	4.2	16	183 939	186 106	186 376	186 467
	G 3/4	20	40	7.9	16	186 822	■	187 672	■
			50	8.0	16	185 356	180 374	185 304	180 375
	G 1	25	50	14.5	16	186 380	187 556	186 729	187 872
			63	18.0	16	178 860	178 859	178 857	178 856
	G 1 1/4	32	63	25.0	16	178 855	178 854	178 893	178 892
	G 1 1/2	40	63	35.0	16	178 896	178 897	178 895	178 894
	G 2	50	63	49.0	16	001 251	002 149	001 401	002 158
	G 2 1/2	65	80	77.0	14	001 398	002 151	001 402	002 160
			100	90.0	15	130 332	186 344	130 333	—

■ on request

i Further versions on request

**Material**

Seal: NBR, FKM, EPDM

**Control function**

Double-acting actuator

**Port connections**

Clamp, weld end (see separate datasheets)

**Approvals**

GL, 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]
50-63	6012P	Tube fitting ø6 mm	G 1/4	1.2	48	0-10	Form B	4	552 283 552 286
40	6012P	G 1/4	G 1/8	1.2	48	0-10	Form B	4	552 295 552 298
50-125	6014P	G 1/4	G 1/4	2	120	0-10	Form A	8	424 103 424 107

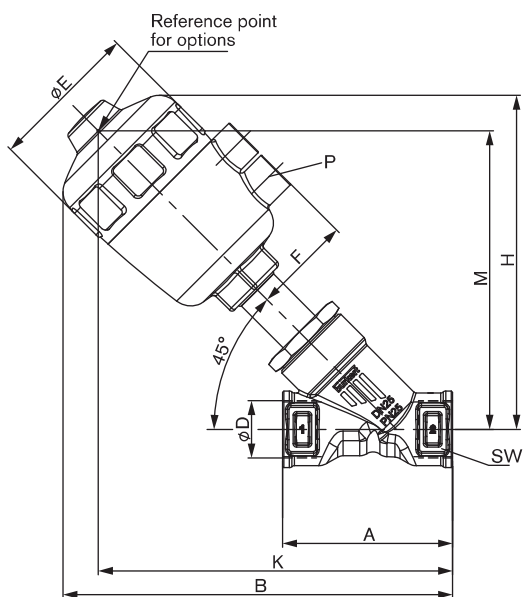
Cable plug Type 2507, Form B or Type 2508, Form A

	Item no.
Type 2507, Form B Industrial standard, 0 to 250 V without circuitry (Type 6012 P)	423 845
Type 2508, Form A acc. DIN EN 175301-803, 0 to 250 V without circuitry (Type 6014 P, Type 0331P)	008 376

For further accessories see datasheet for Type 1062 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 mm. Please request the accessories datasheet Type 2XXX.

Dimensions Type 2000 threaded port [mm]



Orifice	Actuator size $\varnothing$	Port connection D	A	B	$\varnothing E$	H	K	M	P	SW
13	40	G 3/8	65	139	53	115	125	100	G 1/8	27
		G 1/2		139	53	115	125	100	G 1/8	
	50	G 3/8		163	64	140	147	123	G 1/4	
		G 1/2		163	64	140	147	123	G 1/4	
20	40	G 3/4	75	147	53	120	133	106	G 1/8	34
	50			171	64	144	155	129	G 1/4	
	63			198	80	171	179	152	G 1/4	
25	50	G 1	90	181	64	152	166	136	G 1/4	41
	63			206	80	177	188	158	G 1/4	
	80			228	101	198	204	173	G 1/4	
32	63	G 1 1/4	110	219	80	183	200	164	G 1/4	50
	80			240	101	205	217	180	G 1/4	
	100			292	127	255	261	226	G 1/4	
40	63	G 1 1/2	120	222	80	188	203	170	G 1/4	55
	80			244	101	209	220	185	G 1/4	
	100			295	127	260	264	230	G 1/4	
	125			324	153	289	287	253	G 1/4	
50	63	G 2	150	249	80	204	230	185	G 1/4	70
	80			270	101	225	246	201	G 1/4	
	100			317	127	272	287	242	G 1/4	
	125			347	153	302	310	265	G 1/4	
65	63	G 2 1/2	185	275	80	218	256	199	G 1/4	85
	80			296	101	239	272	215	G 1/4	
	100			344	127	287	314	257	G 1/4	
	125			374	153	317	337	280	G 1/4	

2000 threaded port System On/Off Classic 8801-YA/8803-YA

bürkert

Ordering information for valve system On/Off Classic Type 8801-YA/8803-YA

A valve system On/Off Classic Type 8801-YA/8803-YA consists of an angle-seat valve **Type 2000** and a valve actuation system control head **Type 8691**, a pneumatic control unit **Type 8690** or an electrical position feedback **Type 1062** (see separate datasheets).

For the configuration of further valve systems please use the "Request for quotation" on p. 12 [go to page](#)

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

Ordering the valve system On/Off Classic Type 8801-YA/8803-YA

Angle-seat valve Type 2000 threaded port



Control units



8691
(for actuator
sizes 50-125 mm)



8690
(for actuator
sizes 50-125 mm)



1062

Angle-seat valve with desired control unit

For port connections weld end and
clamp, see separate datasheets



Valve system
On/Off Classic
Type 8801-YA-H
2000 + 8691



Valve system
On/Off Classic
Type 8801-YA-K
2000 + 8690



Valve system
On/Off Classic
Type 8803-YA
2000 + 1062

When you click on the orange box "More info." below, you will come to our website for the resp. product where you can download the datasheet.

Control head Type 8691



The new generation of integrated control heads for combination with actuators from the process valve series Type 20xx/21xx is specially designed for the requirements of hygienic process environments. The intelligent control head, Type 8691, detects the valve position by means of a contact-free analog position sensor circumventing excessive wear of mechanical parts. Single or double-acting actuators are controlled via the integral pilot valve. Communication interfaces AS-Interface and DeviceNet are available as options.

Main customer benefits:

- Automatic setting of the control head at the push of a button
- Even under dirty or dark environments, a clearly visible status display due to powerful LEDs
- Monitoring and diagnosis: Process valve systems with field bus interface used in modern plant processes
- Integrated pilot valve with manual actuation
- Air intake filter enhances the process valve system availability
- Simple and reliable actuator adaptations allowing additional actuators of the process valve series, Type 20xx or actuators from other manufacturers to be used

More
info.

Pneumatic control unit Type 8690



The new generation of integrated controllers for combination with actuators from the process valve series Type 20xx/21xx is specially designed for the requirements of hygienic process environments. The pneumatic control unit Type 8690 combines electrical position feedback and pneumatic control for single or double-acting actuators, and is also optionally available as an intrinsically safe model to ATEX.

Main customer benefits:

- Integrated pilot valve with manual actuation
- Air intake filter enhances the process valve system availability
- Simple and reliable actuator adaptations allowing additional actuators of the process valve series, Type 20xx or actuators from other manufacturers to be used

More
info.

Electrical Position Feedback Type 1062



Positions are electrically signalized according to switch type:

- open,
- closed or
- open and closed.

LEDs provide optical position indication (except for Namur Ex-version). Mechanical or inductive switches are housed in a compact splash-proof enclosure. The position indicator can be rotated 360° and is easily fitted to the valve. Trip cams do not require adjustment. The unit only needs to be screwed on and connected to be ready for operation.

More
info.