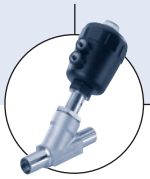
Accessories for pneumatic stroke and rotary actuators

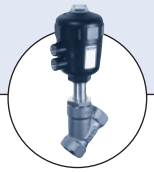


- Complete modularly designed accessory program
- More for less - optimal configuration costs
- Easy maintenance and commissioning
- Increase system and operational safety

Type 2XXX can be combined with...



Type 2000
Angle-seat valve



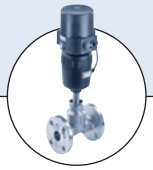
Type 2002
Compact angle-seat valve



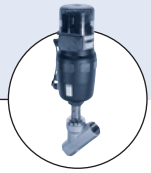
Type 2030
Plastic diaphragm valve



Type 2031
Diaphragm valve



Type 2012
Globe valve



Type 8631
Angle-seat valve, Type 2000

The modular designed accessory option package is the comprehensive addition to the Bürkert process valves with pneumatic, linear or quarter-turn actuator (Types 2000, 2002, 2012, 2030, 2031, 2031K, 2050, 2652, 2655, 2658, 2672, 2675). The flexible, easily accessible concept of modular accessories has been designed to cover individual application requirements in a cost-effective way.

The design has been optimized for easy installation (retro-fitting), commissioning and operation.

Technical data	
Type 1062 Electrical position feedback (Actuator Ø 40-125)	Mechanical limit switches Inductive limit switches in 3 wire technology Inductive limit switches acc. to DIN 19234 (NAMUR), EExi LED display
Type 8631 Electrical position feedback (Actuator Ø 80-225)	Mechanical limit switches Inductive limit switches
Type 1060 Position feedback (Actuator Ø 50-225)	Change-over contact
Type 1071 External magnet inductive position feedback (Actuator Ø 50-125)	PNP
Stroke limitation (Actuator Ø 50-225)	Max. upper stroke limitation, without optical position indicator Max. and Min. stroke limitation, with optical position indicator
Manual override (Actuator Ø 50-125)	With visual position indication for valve operation when pressure drops
NAMUR-Adapter (Actuator Ø 50-125)	Adapter plate with screw connection for pilot valve

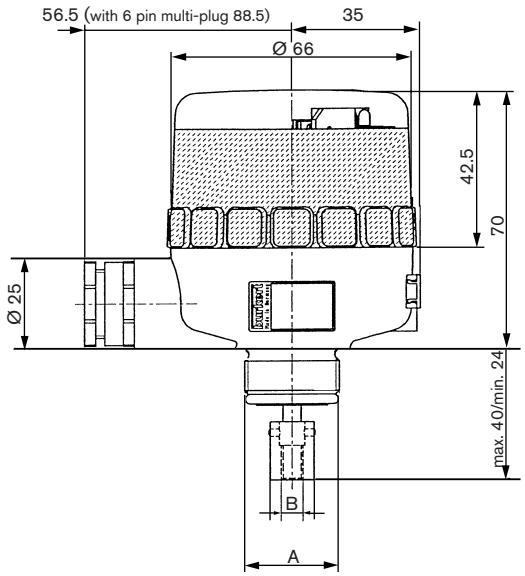
Type 1062, electrical position feedback



The electrical position feedback, Type 1062 indicates the status of the valve's position (off/on) of process valves with pneumatic stroke or rotary drive of the series 20XX and 26XX. The position of the valve is indicated by LEDs

Technical data	
Material	
Body	Polyamide
Cover	Polycarbonate
Ambient temperature	0 bis +60 °C
LED-display	
green	Valve opened
red	Valve closed
yellow	Operating voltage
Electrical connection	
external	PG11 cable gland
internal	Screw terminals Ø up to 1.5 mm²
Protection class	IP65
Approval	Limit switches acc. to VDE, IEC, UL, CSA, inductive limit switches. Limit switches in EExi (intrinsically safe) acc. to II 2 GD EEx ia II C On request: Limit switches acc. to EEx II 3 G/D T4
Mounting	On piston actuator with Ø 40-125 mm
Installation	As required
Mechanical switch	
Version	Change-over contact
Operating voltage	12-24 V AC/DC 110-250 V AC/DC
on request	48-110 V AC/DC
Load current	see table
Inductive limit switch with 3-wire technology	
Version	normally open contact (PNP)
Operating voltage	10-30 V DC
Power consumption	≤ 25 mA
Acceptable current load	≤ 200 mA
Output resistance	4.7 kΩ
Inductive limit switch acc. to DIN 19234 (NAMUR), EExi	
Operating voltage	8 V DC
Power consumption	
damped	≤ 1 mA
undamped	≤ 3 mA
Note	Isolating barrier must be used

Dimensions [mm]



Electrical specification for mechanical switches

Voltage [V]	Maximum Inductive load [A]	Maximium resistance load [A]
125/250 AC	5	5
24 DC	5	5
30 DC	2	5
50 DC	0.7	1
74 DC	0.25	0.6
125 DC	0.03	0.4
250 DC	0.02	0.25

Actuator size	A	B
Ø 40	M24 x 1.5	M5
Ø 50, 63 and 80	M26 x 1.5	M6
Ø 100 and 125	M36 x 2	M10

Ordering chart for electrical position feedback, Type 1062 (for actuator size 40 to 125mm)

Feedback with mechanical switches (Change-over contact for UC)

		for pneumatic stroke actuator			for pneumatic rotary actuator	
Status	**Actuator size Ø [mm]**	**Item no.** (12-48 V UC)	**Item no.** (110-250 V UC)	**Actuator size Ø [mm]**	**Item no.** (12-48 V UC)	**Item no.** (110-250 V UC)
on	40	444 182	444 185			
off	40	444 181	444 184			
off/on	40	444 183	444 186			
on	50-80	007 461	005 409	63	431 477	431 489
off	50-80	007 462	005 415	63	431 476	431 488
off/on	50-80	007 463	005 416	63	431 478	431 490
on	100-125	007 464	007 458	100	431 480	431 492
off	100-125	007 465	007 459	100	431 479	431 491
off/on	100-125	007 466	007 460	100	431 481	431 493

Feedback with induction switches (normally open contacts for DC)

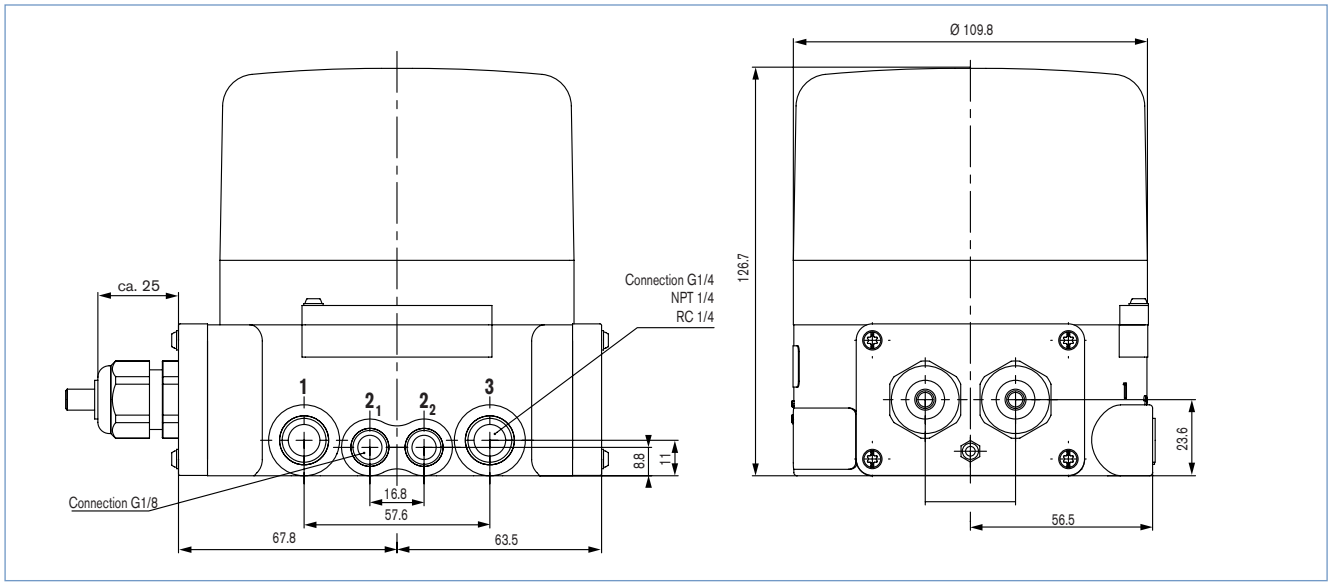
		for pneumatic stroke actuator			for pneumatic rotary actuator	
Status	**Actuator size Ø [mm]**	**Item no.** Standard 10-30 V DC	**Item no.** NAMUR (EEx i) 8 V DC	**Actuator size Ø [mm]**	**Item no.** Standard 10-30 V DC	**Item no.** NAMUR (EEx i) 8 V DC
on	40	552 077	444 191			
off	40	552 080	444 190			
off/on	40	552 074	444 938			
on	50-80	552 078	007 470	63	431 501	431 519
off	50-80	552 081	007 471	63	431 500	431 518
off/on	50-80	552 075	007 472	63	431 502	431 520
on	100-125	552 079	007 473	100	431 504	431 522
off	100-125	552 082	007 474	100	431 503	431 521
off/on	100-125	552 076	007 475	100	431 505	431 523

Type 8631, electrical positon feedback (for actuator size 80 - 225mm)



Technical data	
Material Body Cover Device variants	 PPE/PA PSU (transparent) For single and double actuated actuators
Ambient temperature	-10 to +50 °C
Electrical connection	M16 x 1.5 bushing by means of screw clamps
Protection class	IP65 acc. to EN 60529
Mounting	On piston actuator with Ø 80 - 225mm
Installation	As required
Operating voltage Mechanical limit switches Inductive limit switches	 max. 230 V AC / max. 1 A 8…30 V DC / max. 100 mA
Position feedback 24 V version 24 V or 230 V version	 inductive limit switch (proximity switch), position feedback via binary outputs (NO) mechanical limit switch, position feedback via binary outputs (NO or NC)
Communication circuit option	ASI /AS interface) Device Net
Further Options	NAMUR Limit switches acc. to II 2G EEx ia IIC (ATEX); Limit switches acc. to II 3G/D EEx T4 (on request)

Dimensions [mm]



Ordering chart (other versions on request)

Type of feedback	Switches	Electric connection	Communication	II 2G EEx ia IIC	Item no.
inductive	1	Cable connection	-	-	154 354
inductive	2	Cable connection	-	-	154 353
mechanical	1	Cable connection	-	-	169 187
mechanical	2	Cable connection	-	-	146 643
inductive	2	Multipol M12	ASI	-	146 642
inductive NAMUR	1	Cable connection	-	with	169 579

Adapterset for actuator 80mm	648 755
Adapterset for actuator 100mm	648 756
Adapterset for actuator 125mm	648 757
Adapterset for actuator 175 und 225mm	655 596

Note: Available also as control head with integrated pilot valve

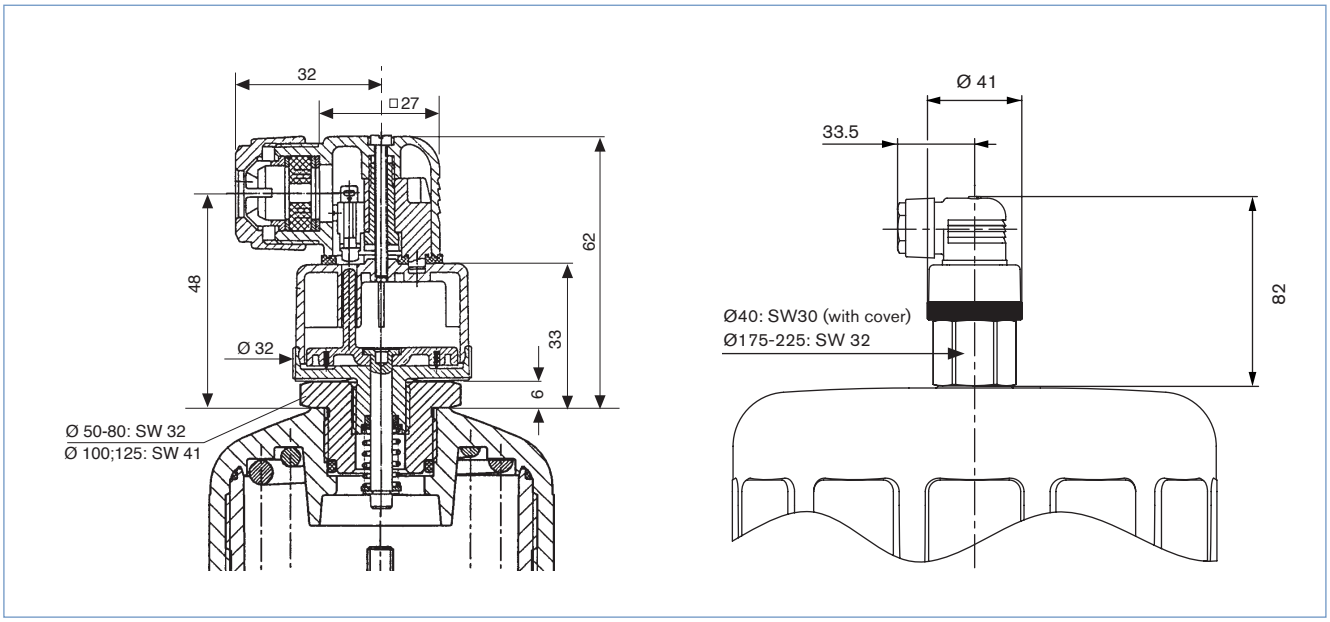
Type 1060, electrical position feedback



Technical data	
Material	plastic
Electrical connection	solder connections, cable entry sealed by gland with cable grip to suit cable Ø 5-9 mm
Protection class category	IP65
Max. continuous temperature	+125 °C
Micro switch	change-over contact
Contact rating Max. 250 V AC Max. 250 V DC	 Max. 5 A resistance or inductive load current 0.25 A resisitance or 0.02 A inductive load current
Installation	screwed in instead of the visual position indicator

The electrical positon feedback is screwed in, instead of the visual position indicator. While the valve is opening, the piston of the actuator lifts a palm-button. This button actuates a micro switch with change-over contact, which gives the electrical feedback of the valve position. The palm-button also acts as an optical position indicator.

Dimensions [mm]



Ordering chart

Actuator size Ø	Item no.
40 (Seat valve)	158 244
40 (Diaphragm valve)	158 220
50-80	701 515
100, 125	701 516
175, 225	655 696

Type 1071, external magnetic inductive position feedback

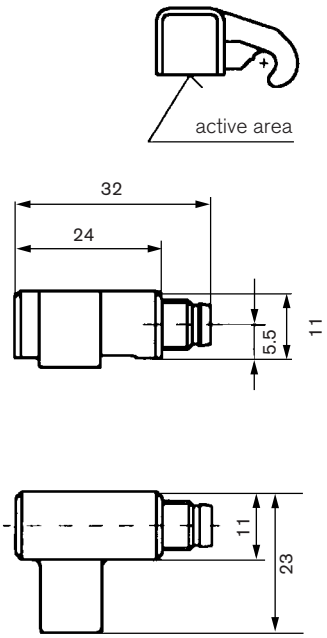


The magnetic-inductive sensors react to the approach of the magnetic piston of the series 2XXX piston operated seat or diaphragm valves. Thus, the piston position can be optically and electrically displayed with an LED. In addition it permits the use of a stroke limiter or manual override.

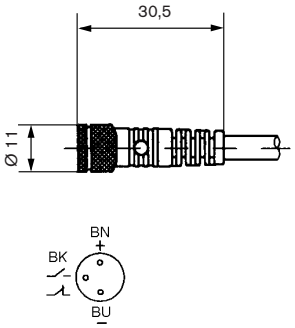
Technical data	
Material sensor body fixing bracket	 PBTP (GF-reinforced) Pressure casting, stainless steel
Ambient temperature	-20 to+70 °C
Electrical connection	Plug connection or cable (3m long)
Protection class	IP67
Mounting	by means of fixing brackets at piston actuator (see drawing)
Version	PNP
Operating voltage	10…30 V DC
Power consumption damped undamped	 ≤ 12 mA ≤ 10 mA
Nominal field strength	$\lvert H_n \rvert$ = 1.2 kA/m
Working field strength	$\lvert H_a \rvert \geq$ kA/m
Hysteresis	≤ 45 % of H_n
Temperature drift of switch-on point	≤ 0.3 %/°C
Ripple	≤ 15 %
Acceptable current load	Max. 200 mA
Acceptable capacitive load	≤ 1 µF
Voltage drop U_d	≤ 2.5 V
Turn on time	≤ 0.5 ms
Switch-off time	20 to 50 ms
Weight	6g

Dimensions [mm]

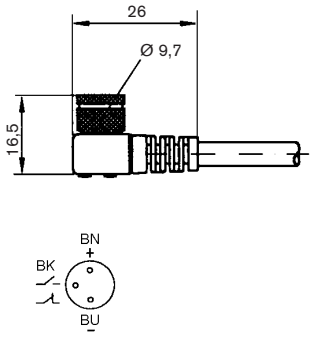
Sensor Type 1071 with plug connector, IP 67



Plug connector, straight, without LED, cable 3m



Elbow plug connector, with LED, cable 3m



Ordering charts for external magnetic inductive position feedback, Type 1071

Required individual parts: magnetic piston, fixing bracket, sensor, plug

Magnetic piston

Actuator size Ø [mm]	Item no.
50	630 063
63	630 064
80	630 065
100	630 066
125	630 067

Complete sensor bracket

Actuator size Ø	Item no.
all actuators	636 239

Fixing bracket

Material	Item no.
Stainless steel	636 241
Pressure casting	780 558

Sensor

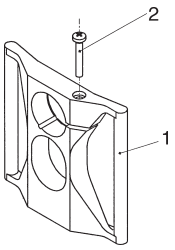
Version	Item no.
with plug connection	780 110
with 3m cable (without LED)	780 111

Plug

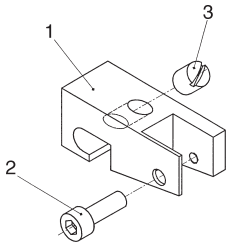
Version	Item no.
angled, with 3m cable (with LED)	780 112
straight, with 3m cable (without LED)	780 111

Mounting information

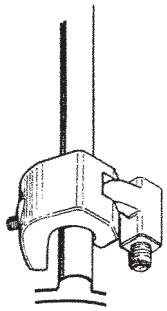
Sensor bracket
1 bracket
2 screw



Elbow joint
1 elbow joint
2 screw
3 Pin



Mount sensor to elbow joint and sensor bracket



Mounting note magnetic piston
To mount the magnet piston the use of a special key is necessary to open the actuator cover. (Ordering information on page 9)

Stroke limiter for stroke actuators

Ø 50-125 [mm]



Ø 175-225 [mm]



Technical data	
Max. stroke limition	
Special feature	without visual position indicator (upper strolke limitation only)
Mounting	screw in stroke limiter (instead of the transparent cover for the visual position indicator)

Ø 50-125 [mm]

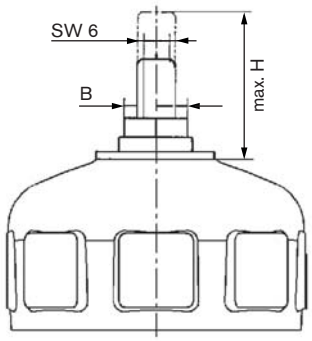


Ø 175-225 [mm]

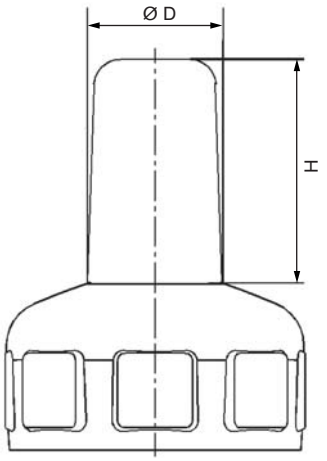


Max./min. stroke limitation	
Special feature	Max. & min. flow setting (upper and lower stroke limitation) with visual position indicator
Mounting	Actuator cover must be removed on mounting, to do this a special key is required (see page 9)

Dimensions [mm]



Actuator size Ø	B	H
50, 63, 80	SW 17	40
100, 125	SW 19	55
175, 225	SW24	97



Actuator size Ø	Ø D	H
50, 63, 80	39	50
100, 125	53	73
175, 225	86	172

Ordering chart

Max. stroke limitation without visual position indicator
(single version)

Actuator size Ø [mm]	Item no.
40 (incl. actuator cover)	444 890
50-80	637 866
100	637 867
125	637 868
175-225	655 600

Min./Max. stroke limitation with visual position indicator

Actuator size Ø [mm]	Item no.
50-80	636 820
100	636 821
125	640 703
175-225 (diaphragm valve)	655 631
175 (globe valve)	659 038
225 (globe valve)	659 423

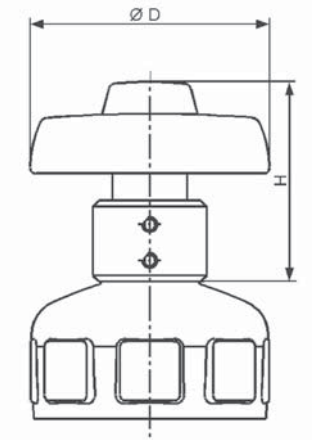
Manual override for stroke actuator (with visual position indicator)



Manual override with visual position indicator for manual valves when pressure drops

Technical data	
Version	Manual opening (only for control function A, i.e. unpressurised closed)

Dimensions [mm]



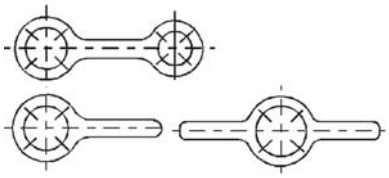
Actuator size Ø	Ø D	H
50, 63, 80	80	56
100, 125	150	70

Ordering chart (with visual position indicator)

Actuator size Ø [mm]	Item no.
50-80	636 822
100, 125	636 823

Ordering chart for mounting key (for actuator cover)

Actuator size Ø [mm]	Item no.
40 and 50	639 175
63	639 170
80	639 171
100	639 172
125	639 173

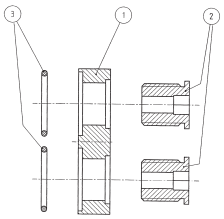


NAMUR-Adapter for pilot valve



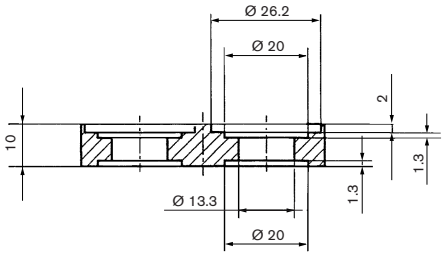
Mounting for NAMUR-Adapter

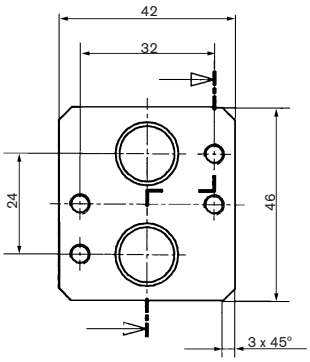
1 Plate
2 Hollow screw
3 O-rings

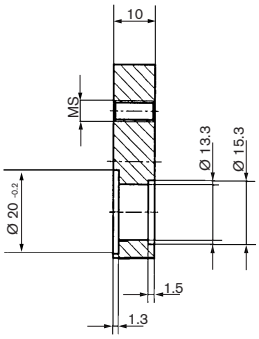


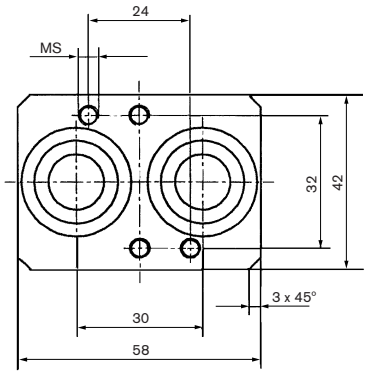
Technical data	
Material plate and hollow screw	Steel 1.4021 or CuZn39 Pb3 F44
Seal O-rings	NBR 75

Dimensions [mm]









Version 1
Namur-Adapter for **stroke actuator**
Ø 50 to 80 for angle seat and globe valve
Ø 63 to100 for diaphragm valve
NAMUR adapter for **rotary actuator**
Ø 63 on request

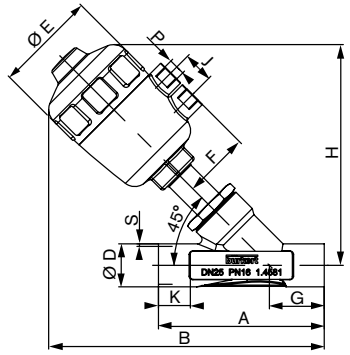
Version 2
Namur-Adapter für **stroke actuator**
Ø 100 and125 for angle seat and globe valve
Ø 125 for diaphragm valve
NAMUR adapter for **rotary actuator**
Ø 100

Ordering chart

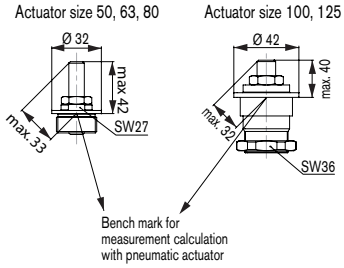
Actuator size Ø [mm]	Material	Item no.
Version 1	Stainless steel	632 974
Version 2	Stainless steel	634 275
Version 1	Brass	637 113
Version 2	Brass	637 114

Dimensions for Type 2000

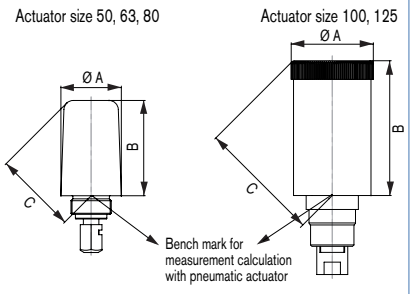
Weld end body acc. to EN ISO1127/ ISO4200 and DIN 11850 Series 2



Max. Stroke limiter (singel version)

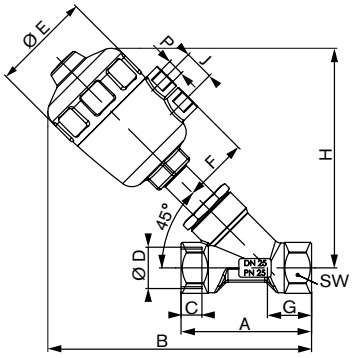


Min/Max. Stroke-limiter

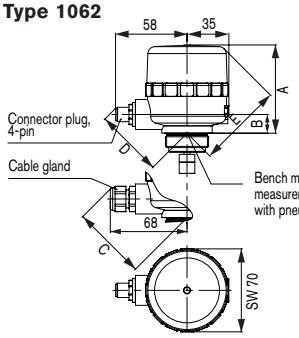


Actuator size	ØA	B	C
50, 63, 80	39	62	54
100, 125	53	87	80

Threaded body

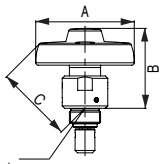


Electrical position indicator Type 1062



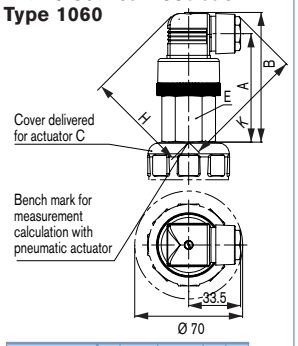
Actuator size	A	B	C	D	E
40	86	28	71	65	80
50, 63, 80	71	13	60	55	70
100, 125	74	16	62	57	72

Hand wheel



Actuator size	ØA	B	C
50, 63, 80	80	66,7	64,9
100, 125	150	83,9	96,3

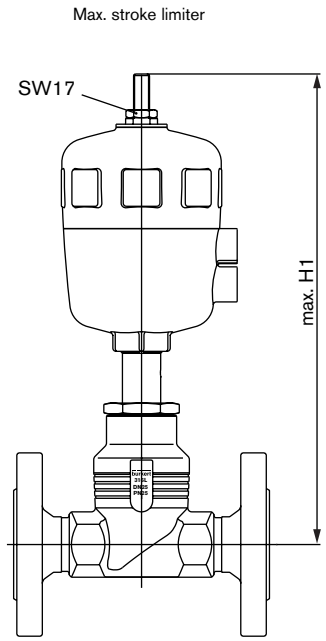
Optical position indicator with electrical feedback Type 1060

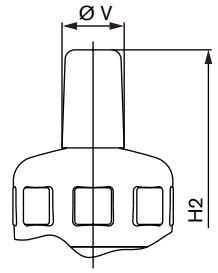


Actuator size	A	B	E	H	K
40	70	84	SW30	65	80
50, 63, 80	44	58,5	SW32	47	62
100, 125	44	58,5	SW41	47	62

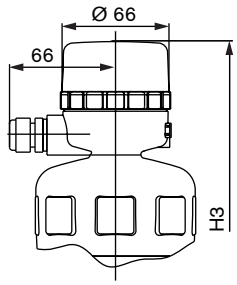
All bodies						All weld end bodies				Weld end bodies acc. to EN ISO 1127/ ISO 4200			Weld end bodies acc. to DIN11850 Series 2			Threaded body						
DN	Actuator size Ø	Ø E	F	P	J	B	H	A	G	K	Ø D	S	K	Ø D	S	B	H	A	C	ØD	G	SW
13	40	53	33	G 1/8	16.5	–	–	–	–	–	–	–	–	–	–	137	113	65	12	G 3/8	24	27
13	40	53	33	G 1/8	16.5	–	–									146	115	85	14	G 1/2	31	27
	50	64	44	G 1/4	24	–	–									170	140					
	63	80	52	G 1/4	24	–	–									203	172					
	80	101	60	G 1/4	24	–	–									224	193					
15	40	53	33	G 1/8	16.5	148	114	100	34	20	21.3	1.6	20	19	1.5	–	–	–	–	–	–	–
	50	64	44	G 1/4	24	174	137									–	–					
	63	80	52	G 1/4	24	–	–									–	–					
	80	101	60	G 1/4	24	–										–	–					
20	40	53	33	G 1/8	16.5	158	119	115	39	25	26.9	1.6	25	23	1.5	155	120	95	16	G 3/4	35	32
	50	64	44	G 1/4	24	181	145									179	144					
	63	80	52	G 1/4	24	209	170									206	171					
	80	101	60	G 1/4	24	–	–	–	–	–	–	–	–	–	–	225	190					
25	40	53	33	G 1/8	16.5	–	–	–	–	–	–	–	–	–	–	160	126	105	18	G 1	35.5	41
	50	64	44	G 1/4	24	191	148	130	43	30	33.7	2	30	29	1.5	188	152					
	63	80	52	G 1/4	24	217	173									213	177					
	80	101	60	G 1/4	24	238	195									234	198					
32	63	80	52	G 1/4	24	230	186	145	45	30	42.4	2	30	35	1.5	224	183	120	20	G 11/4	41	50
	80	101	60	G 1/4	24	259	210									246	205					
	100	127	73	G 1/4	30	301	256									296	255					
40	63	80	52	G 1/4	24	238	189	160	49	30	48.3	2	30	41	1.5	227.3	188	130	22	G 11/2	40	55
	80	101	60	G 1/4	24	258	213									249	209					
	100	127	73	G 1/4	30	309	260									299.3	260					
	125	158	86	G 1/4	30	337	288									329	289					
50	63	80	52	G 1/4	24	255	205	175	50	30	60.3	2.6	30	53	1.5	249	204	150	24	G 2	45	70
	80	101	60	G 1/4	24	275	225									270	225					
	100	127	73	G 1/4	30	327	271									317	272					
	125	158	86	G 1/4	30	351	301									347	302					
65	63	80	52	G 1/4	24	271	221	210	50	26	76.1	2.3	26	70	2.0	275	218	185	26	G 21/2	57	85
	80	101	60	G 1/4	24	292	242									296	239					
	100	127	73	G 1/4	30	340	290									344	287					
	125	158	86	G 1/4	30	370	320									374	317					

Dimensions for Type 2012

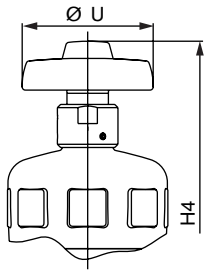




Min. / Max. stroke limiter

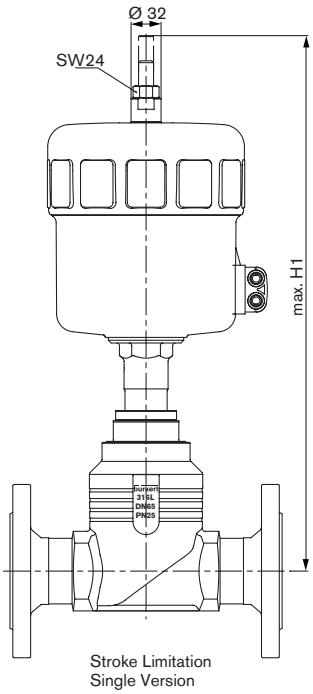


Electrical position feedback, Type 1062

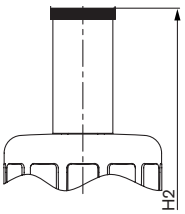


Hand wheel

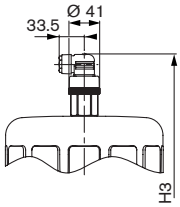
DN	Actuator size	H1	H2	H3	H4	ØV	ØU
10	50	234	260	272	267	39	80
15	50	234	260	272	267	39	80
20	50	236	262	274	269	39	80
20	63	269	296	308	303	39	80
25	50	243	269	281	276	39	80
25	63	273	300	312	307	39	80
25	80	295	322	334	329	39	80
32	63	293	320	332	327	39	80
32	80	316.5	343	355	350	39	80
40	63	298	325	337	332	39	80
40	80	321.5	348	360	355	39	80
40	125	425	470	456	467	53	150
50	80	331.5	358	370	365	39	80
50	100	397.5	443	429	440	53	150
50	125	430	475	461	472	53	150



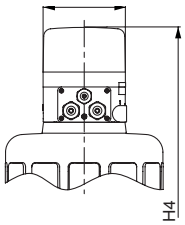
Stroke Limitation
Single Version



Min. / Max. Stroke Limitation



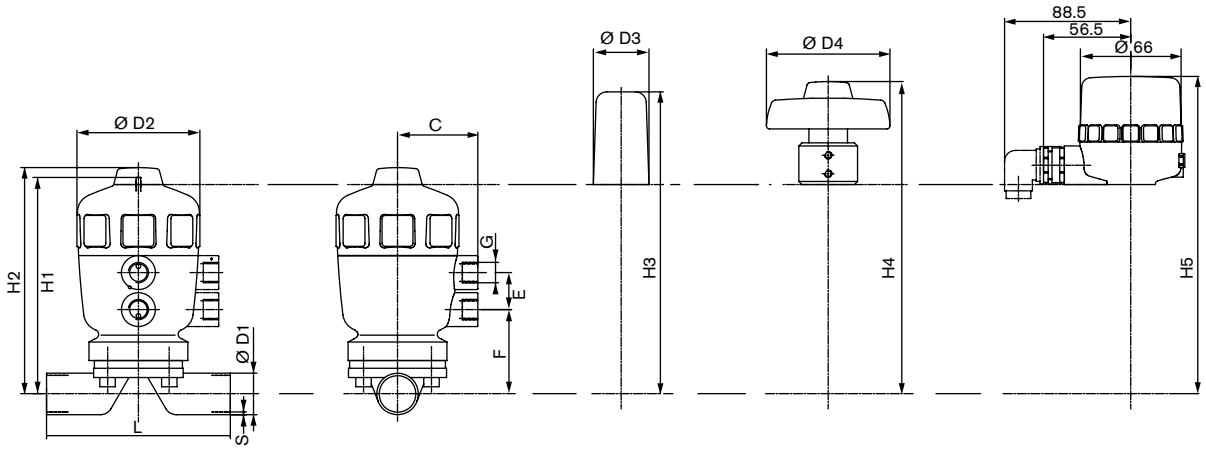
Electrical
Position Feedback
Type 1060



Electrical
Position Feedback
Type 8631

DN	Actuator size	H1	H2	H3	H4
65	K (175)	571.7	647.5	561.5	619
80	K (175)	581	656	569	626.5
80	L (225)	576.5	651.5	564.5	622
100	L (225)	586.5	661.5	574.5	632

Dimensions for Type 2030



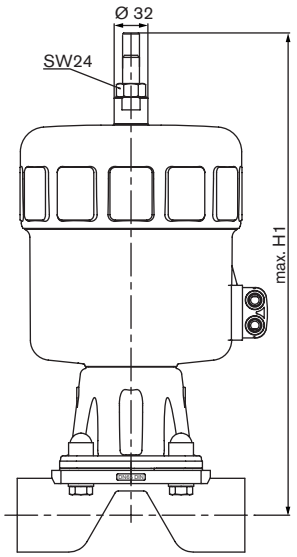
Standard version
body with weld end

Options: Stroke limiter

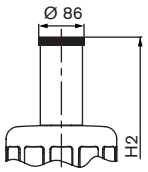
Manual override

Electrical position feedback,
Type 1062

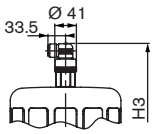
DN	Act. size (Ø)	C	ØD1	ØD2	ØD3	ØD4	E	F	G	H1	H2	H3	H4	H5	L	S
8	C (40)	34	13.5	53			20	30	G1/8	85					90	1.6
15	D (50)	39	21.3	64	39	80	20	48	G1/8		122	172	178	181	110	1.6
15	E (63)	52	21.3	80	39	80	24	47	G1/4		139	189	195	198	110	1.6
20	E (63)	52	26.9	80	39	80	24	56	G1/4		148	198	204	207	119	1.6
20	F (80)	60	26.9	101	39	80	24	64	G1/4		174	224	230	233	119	1.6
25	E (63)	52	33.7	80	39	80	24	65	G1/4		157	207	213	216	129	2
25	F (80)	60	33.7	101	39	80	24	67	G1/4		177	227	233	236	129	2
32	G (100)	73	42.4	127	53	150	24	82	G1/4		230	303	300	286	148	2
40	G (100)	73	48.3	127	53	150	24	88	G1/4		235	308	305	291	161	2
40	H (125)	86	48.3	153	53	150	30	96	G1/4		274	347	344	330	161	2
50	G (100)	73	60.3	127	53	150	24	97	G1/4		244	317	314	300	192	2
50	H (125)	86	60.3	153	53	150	30	100	G1/4		278	351	348	334	192	2



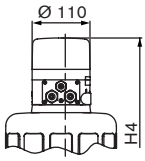
Stroke Limitation
Single Version



Min. / Max. Stroke
Limitation



Electrical
Position Feedback
Type 1060



Electrical
Position Feedback
Type 8631

DN	Actuator size	H1	H2	H3	H4
65	K (175)	462.3	543.5	457.6	514.1
80	K (175)	480	555	468	525.5
80	L (225)	476.4	550.7	463.7	521.2
100	L (225)	486.9	563.5	476.5	534

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