



## 2/2-way Butterfly Valve with plastic body and electric actuation

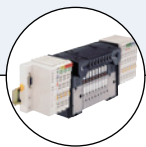
- Rugged one-piece construction
- For aggressive & pure process media
- Abrasion resistant double lip seal
- Actuator with on/off or control function

Type 2671 can be combined with...



**Type 3004**

Heavy duty 3004 actuator, Ex



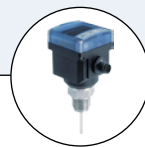
**Type 8644**

Electropneumatic control system



**Type 2655**

Pneumatic SS ball valve



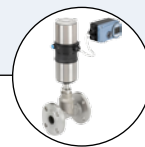
**Type 8400**

Temperature transmitter



**Type 2000**

Classic angle seat valve



**Type 8802**

ELEMENT control valve & positioner

A modular butterfly valve system, Type 2672 offers electrical control for butterfly valves. This datasheet refers to the assembly of an electric quarter turn actuator Type 3003 and plastic (PVC standard) valve. The connection between the actuator and the ball valve takes place via an ISO interface (flange connection), which is standard for all Bürkert quarter turn valves.

Electric actuator Type 3003 is available with on/off and modulating control functionality, with a heavy duty industrial model Type 3005 (3004 for hazardous areas).

The compact, electrically actuated butterfly valve can be employed for a wide range of applications, even under heavy-duty, slightly aggressive conditions. Both the actuator and the valve are highly chemical resistant as well as light in weight.

Other valve and actuator types and assemblies available, please call.

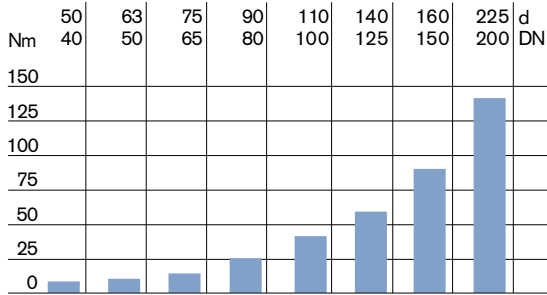
### Applications

- Water & wastewater applications
- Food & beverage
- Chemical & petrochemical
- General manufacturing

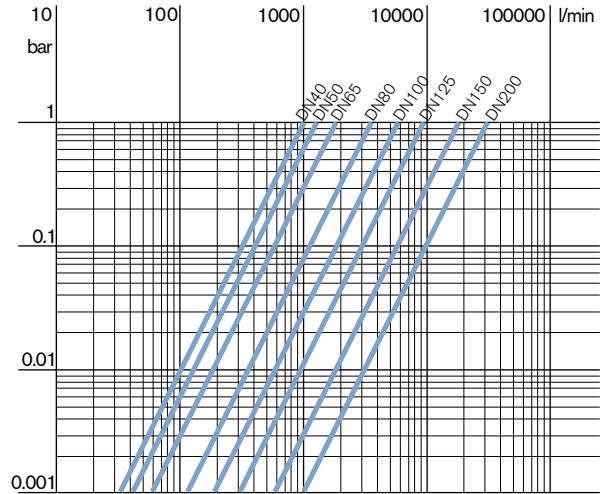
Technical data	
<b>Orifice</b>	DN 65 - 200 standard range (other sizes on request)
<b>Body Material</b>	PVC (PP, PVDF and other thermoplastics on request)
<b>Valve seal material</b>	PTFE (many thermoplastic seal types on request)
<b>Material (Actuator)</b> cover housing axis/screws gear unit	ABS PA Stainless steel Steel, PC
<b>Media</b>	Gaseous and liquid media, consistent with the chemically resistant plastics of the valve
<b>Media temperature</b>	-10 to +60°C [-10 to +120°C PVDF]
<b>Ambient temperature</b>	-10 to +60°C
<b>Operating voltage</b>	24 V AC/DC, 100-240 V AC/50-60 Hz (other voltages on request)
<b>Voltage tolerance</b>	DC: +/-20%; AC: +/-10%
<b>Duty rating</b>	At max. torque: 50% of the time
<b>Electrical connection</b>	2 cable glands ISO M20 (cable plug EN175301-803 on request)
<b>Limit switches</b>	4 adjustable (2 for motor and 2 additional for feedback) max. 250 V AC/1.5 A
<b>Protection class</b>	IP65
<b>Port connection</b>	Wafer body with four oval holes Other sizes & port types on request
<b>Connection between actuator and ball valve</b>	Flange acc. to ISO 5211 or DIN 3337
<b>Installation</b>	As required, preferably with actuator in upright position

Technical data

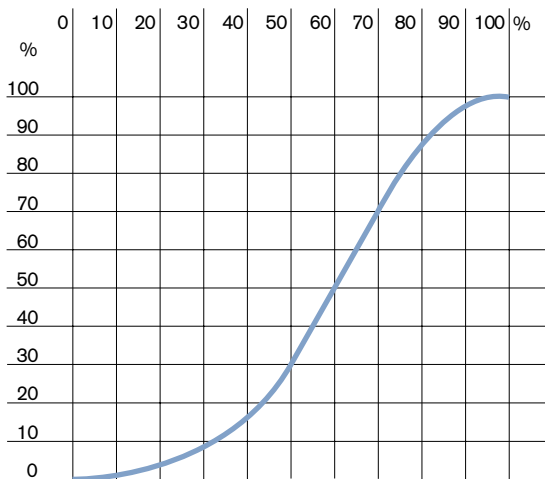
Maximum Torque at Maximum Working Pressure



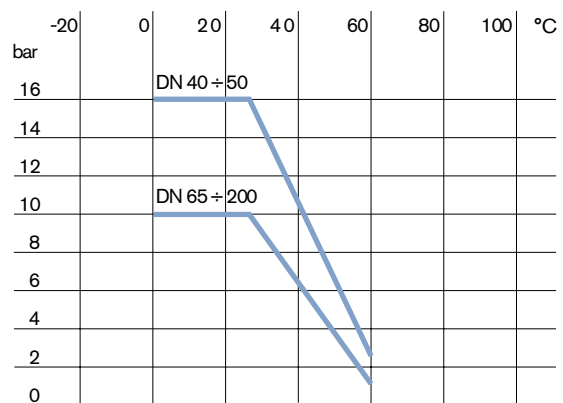
Pressure Loss Chart



Relative Flow Chart



Pressure/Temperature Rating

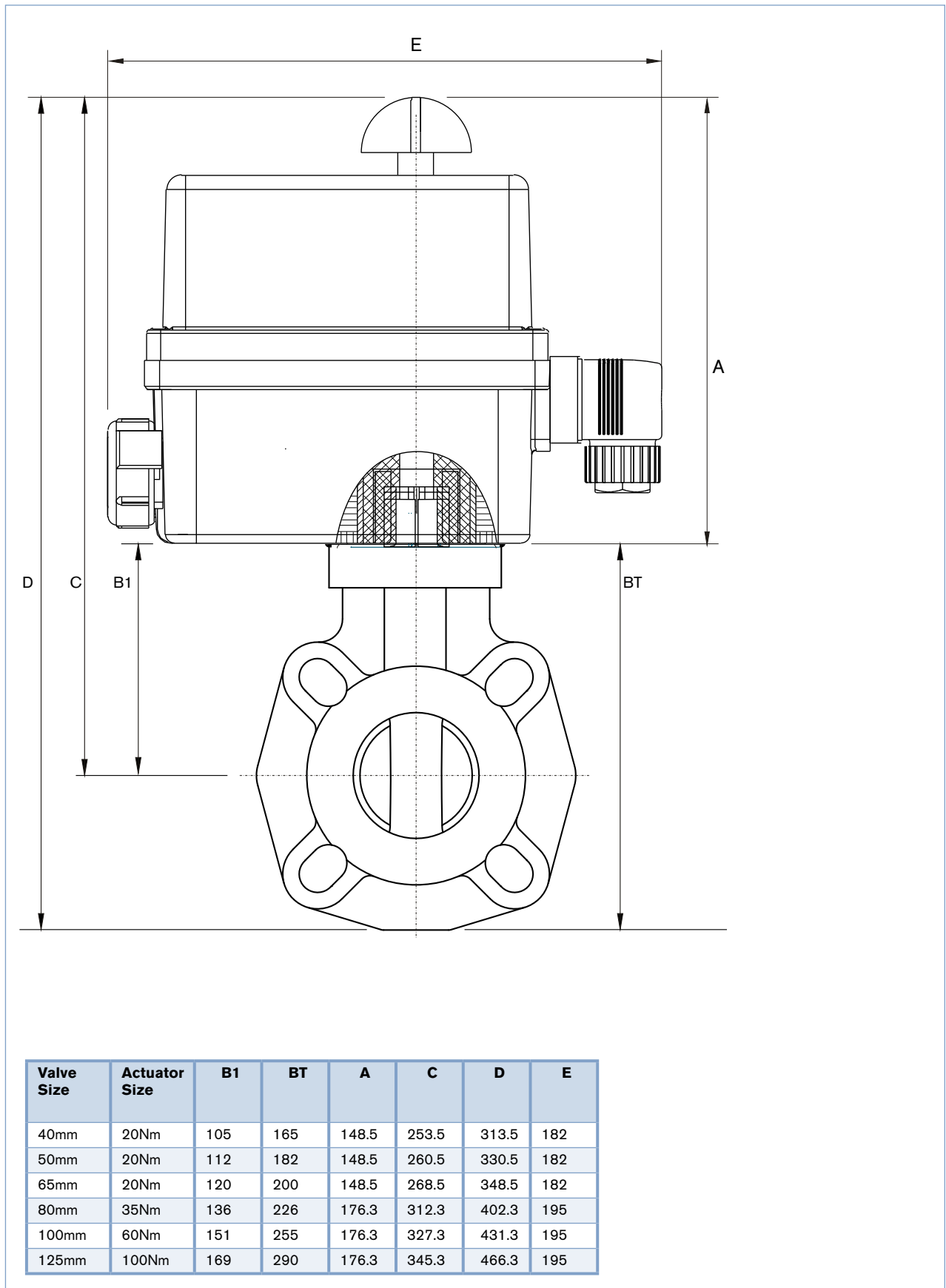


Flow Coefficient  $K_{V100}$

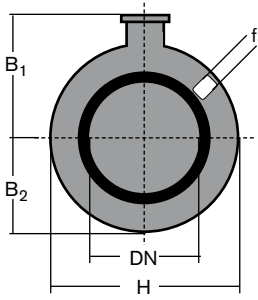
d	50	63	75	90	110	140	160	225
D	40	50	65	80	100	125	150	200
$K_{V100}$	1,000	1,285	1,700	3,550	5,900	9,850	18,700	30,500

Flow coefficient  $K_{V100}$  is the number of litres per minute of water (at a temperature of 20 degrees C) that will flow through a valve with one bar pressure differential at a specified rate. The  $K_{V100}$  values shown in the table are calculated with the valve completely open.

## Dimensions [mm], PVC valve with Type 3003 electric actuator

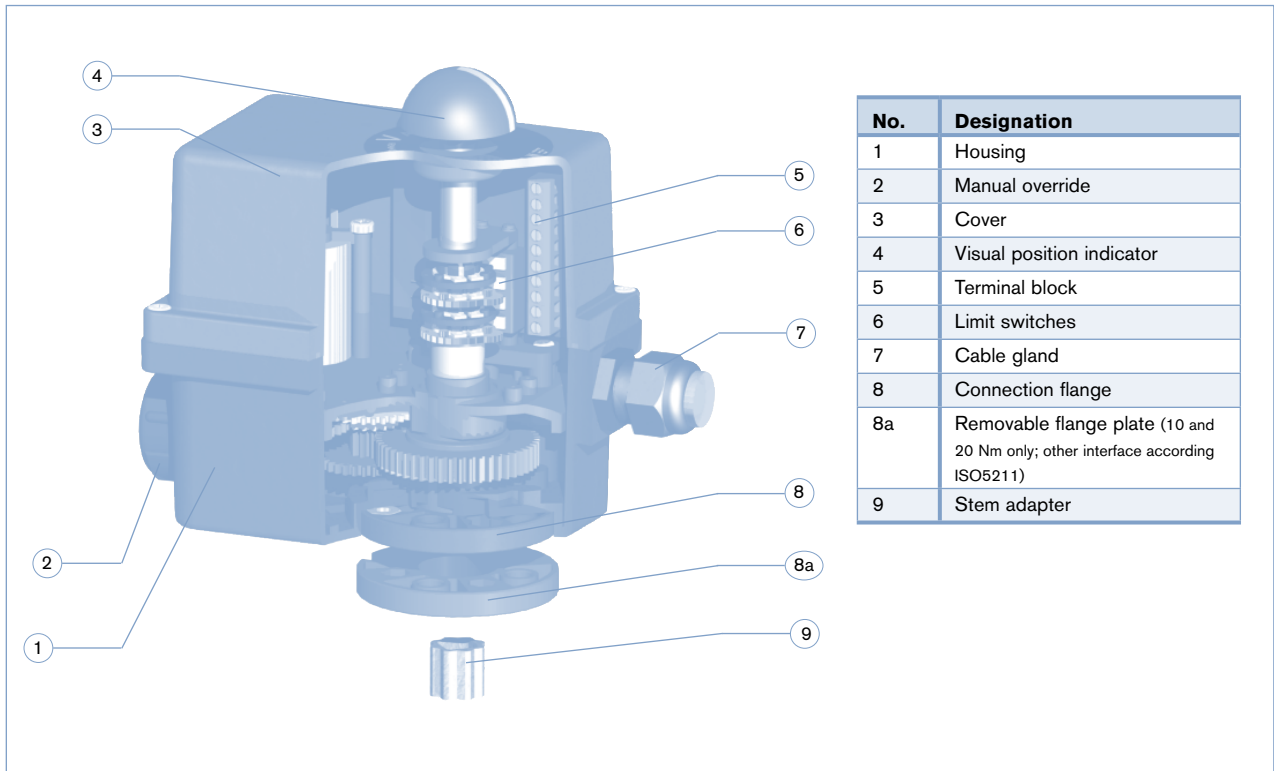


Dimensions [mm], PVC valve

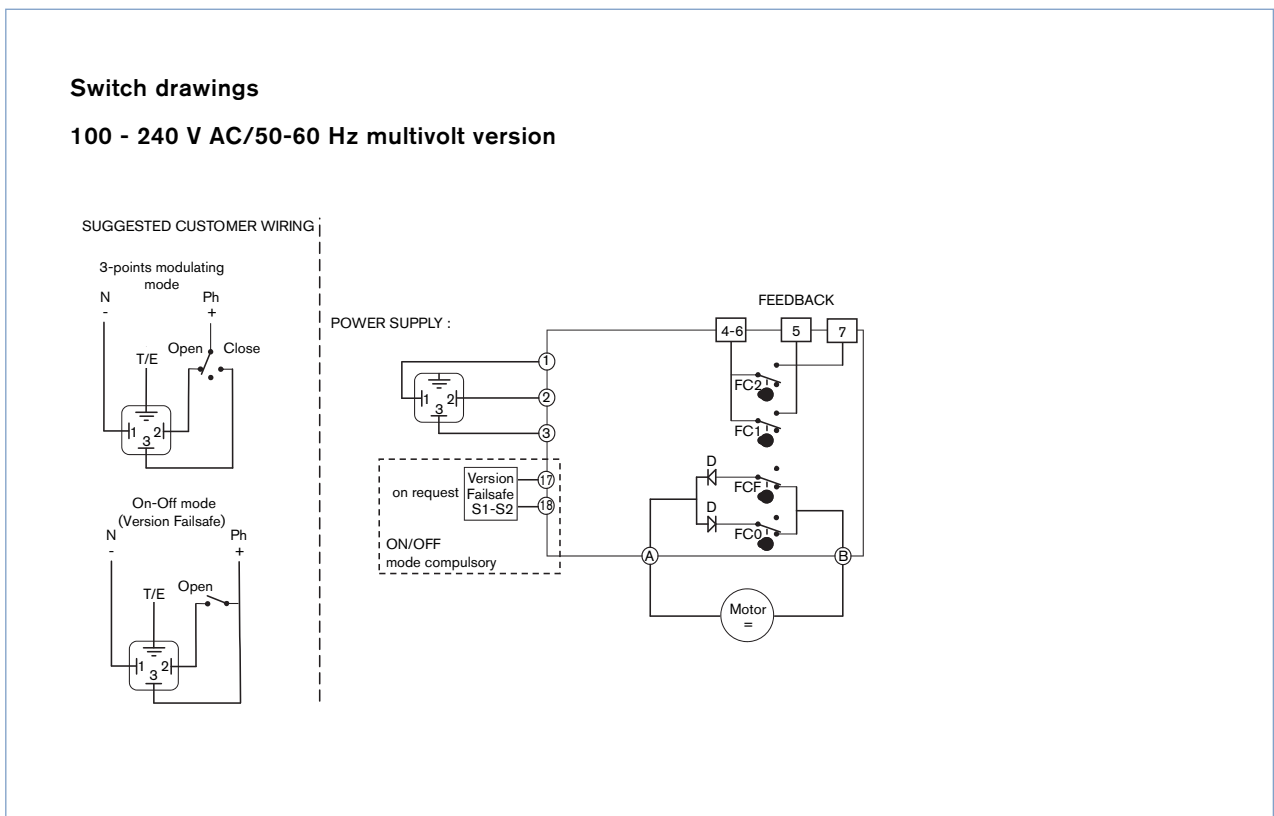


d	DN	PN [bar]	B1	B2	H	Depth (face to face)	f	No Holes	Weight [Kg]
50	40	16	60	136	132	33	19	4	0.827
63	50	16	70	143	147	43	19	4	1.012
75	65	10	80	168	165	46	19	4	1.42
90	80	10	90	182	130	49	19	4	1.64
110	100	10	105	196	150	56	19	4	1.99
125	125	10	121	215	185	64	23	4	3.03
140	125	10	121	215	185	64	23	4	3.03
160	150	10	132	229	210	70	23	4	3.73
200	200	10	161	309	325	71	23	8	8.24
225	200	10	161	309	325	71	23	8	8.24

Actuator Type 3003: exploded view

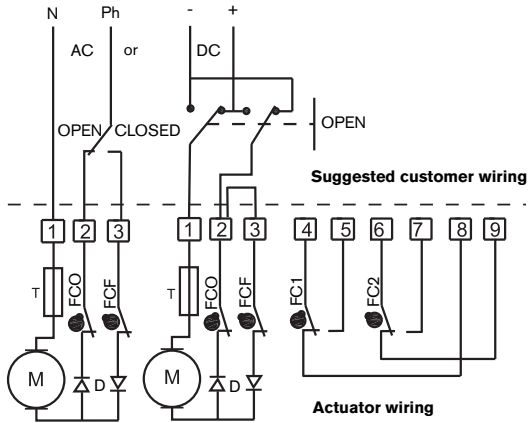


Actuator Type 3003: electrical connection



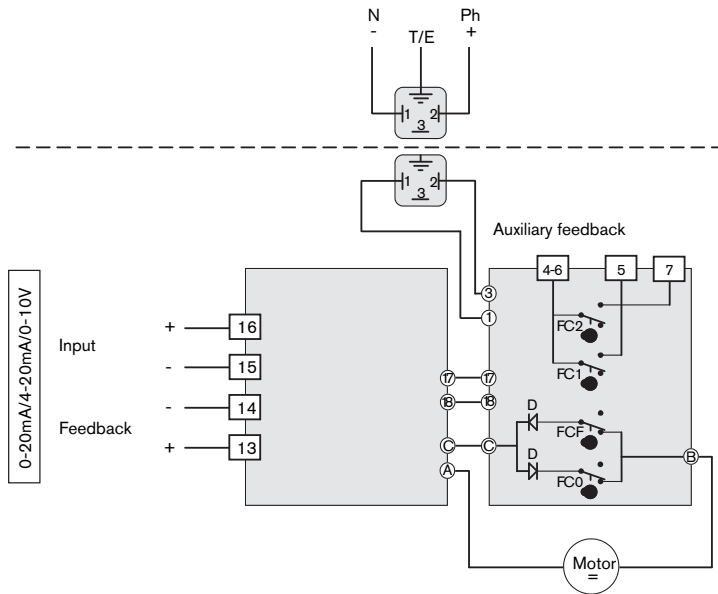
Actuator Type 3003: electrical connection, continued

24 V AC/DC standard version



100 - 240 V AC and 24 V AC/DC

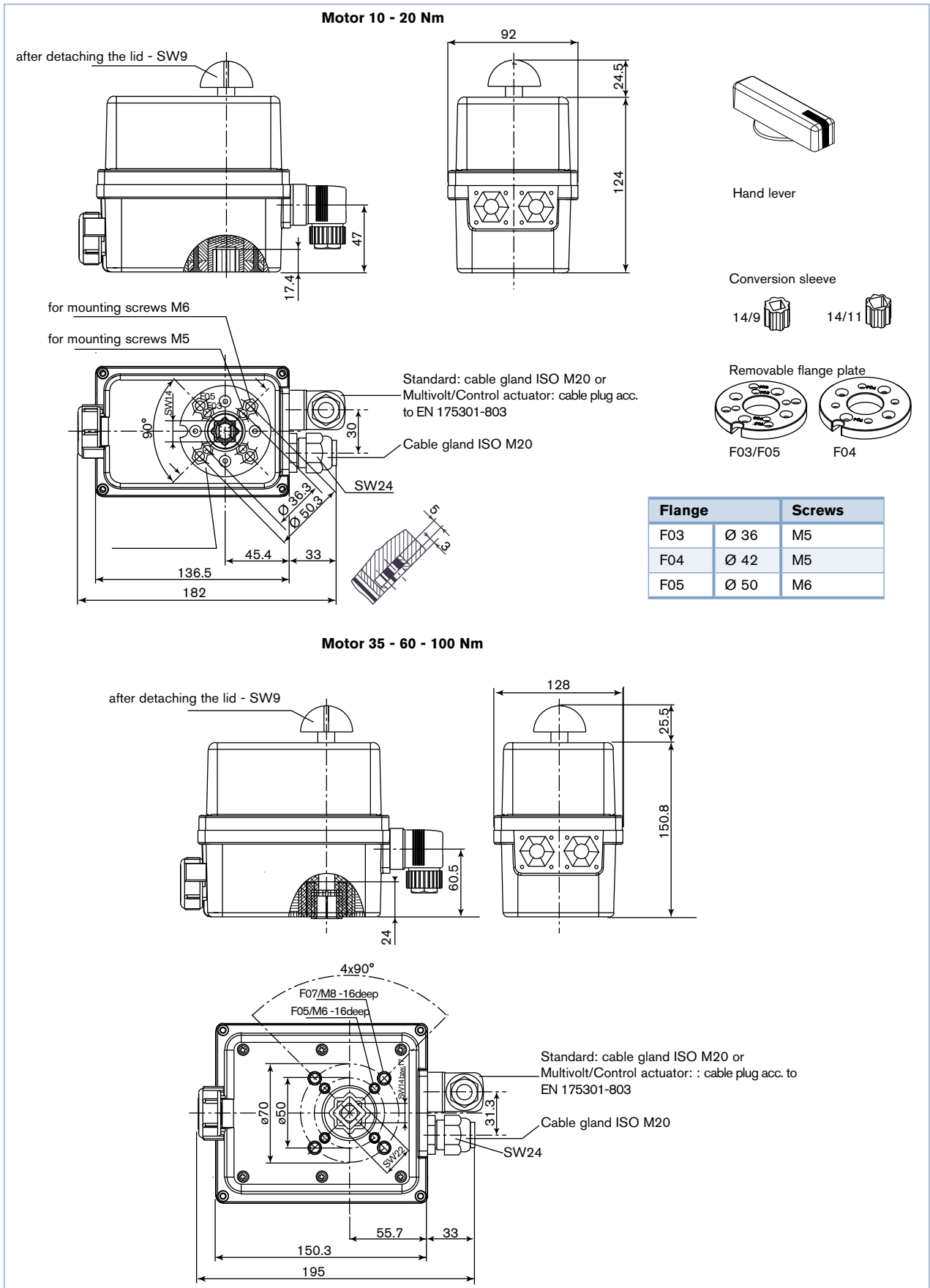
Version with analog input signal (on request)



Symbol	Description
FCO	Open limit switch
FCF	Close limit switch
FC1	Auxiliary 1 limit switch
FC2	Auxiliary 1 limit switch
M	Motor
T	Thermal fuse


Symbol	Description
D	Diode
C	Capacitor
P	Potentiometer
H	Heating resistor
J7	Heating resistor connection
J8	Potentiometer connector

Actuator Type 3003: dimensions




Ordering chart for valves (other versions on request)

Electrically actuated butterfly valve with on/off function

	Function	Orifice	Control function	Pressure range	Power supply	Body material	Seal material	ID no.
	<b>Wafer NO/NC; On/Off control function</b>	65	NC/NO	10 bar	240V AC	PVC	EPDM	AU55128
		65	NC/NO	10 bar	24V DC	PVC	EPDM	AU55129
		80	NC/NO	10 bar	240V AC	PVC	EPDM	AU55130
		80	NC/NO	10 bar	24V DC	PVC	EPDM	AU55132
		100	NC/NO	10 bar	240V AC	PVC	EPDM	AU55133
		100	NC/NO	10 bar	24V DC	PVC	EPDM	AU55134
		125	NC/NO	10 bar	240V AC	PVC	EPDM	AU55135
		125	NC/NO	10 bar	24V DC	PVC	EPDM	AU55136
		150	NC/NO	10 bar	240V AC	PVC	EPDM	AU55137
		150	NC/NO	10 bar	24V DC	PVC	EPDM	AU55138
		200	NC/NO	10 bar	240V AC	PVC	EPDM	AU55139
200	NC/NO	10 bar	24V DC	PVC	EPDM	AU55140		

Ordering chart for valves (other versions on request)

Electrically actuated butterfly valve with modulating control function

	Function	Orifice	Control function	Pressure range	Power supply	Body material	Seal material	ID no.
	<b>Wafer 4 .. 20mA Modulating control function</b>	80	4 .. 20mA	10 bar	24V DC	PVC	EPDM	AU33304
		80	4 .. 20mA	10 bar	240V AC	PVC	EPDM	AU33305
		100	4 .. 20mA	10 bar	24V DC	PVC	EPDM	AU33308
		100	4 .. 20mA	10 bar	240V AC	PVC	EPDM	AU33309
		125	4 .. 20mA	10 bar	24V DC	PVC	EPDM	AU33313
		125	4 .. 20mA	10 bar	240V AC	PVC	EPDM	AU33314
		150	4 .. 20mA	6 bar	24V DC	PVC	EPDM	AU33318
		150	4 .. 20mA	6 bar	240V AC	PVC	EPDM	AU33319
		200	4 .. 20mA	6 bar	24V DC	PVC	EPDM	AU33323
		200	4 .. 20mA	6 bar	240V AC	PVC	EPDM	AU33324