

PRODUCT CATALOGUE

24-Volt DC valve actuators

for spindle valves, pressure reducers, ball valves and butterfly valves

- Innovative and user-friendly
- Simplest form of actuation through integrated motor controls
- Possibility of manual and / or automatic actuation using commercially available controllers
- Special controllers are not required
- Possibility of accurate and repeatable metering even in cut-off range using suitable valves
- The valve actuators can be delivered as different prototypes and many product versions that could be ordered.

Stainless steel flow control / metering and cut-off valve

for gases and liquids

- Different Cv values for the same product size
- Non-rotating stem tip for long standby times
- Specially designed for actuated operation



Version 2010

Comments:

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Function, design and technical data

Model N802 for valve stems and pressure reducers

- Simplest form of actuation through integrated motor controls
- Possibility of manual and / or automatic actuation using commercially available controllers
- Special controllers are not required
- Accurate control of OPEN / OFF / CLOSE-functions in the smallest intervals up to a max. of 20 rotations
- Internal end position disabling and feedback
- GULEX valves or commercially available valves up to DN 20 can be combined with the actuators
- Possibility of accurate and repeated metering even in cut-off range using suitable valves
- The valve actuators can be delivered as different prototypes and many product versions that could be ordered

Dimensions:	Ø 75 x 160 mm, excluding extension elements and valve
Weight:	approx. 1300 g
Cycle time:	either 4 to 12 s/360° or variable cycle times upon request
Rotations:	max. 20 rotations
Operation time:	approx. 80 % of maximum operation time
Ambient temperature:	- 30° C to + 85° C
Wiring:	2 m free cable end or length according to customer specifications or 12 pole male socket with angled connector
Type of protection:	IP 67
Housing:	aluminium (anodised), steel (chrome-plated)
Assembly:	the actuator can be fitted in all positions via 2 M5 fastening thread at the lower side of the actuator head
Overload:	adjustable slip clutch (mechanical) thermostatic switch with green operation lamp (electric)
Torque:	4 Nm, briefly 8 Nm
Voltage supply:	24-Volt DC
Actuation:	+ 5 to + 24 Volt DC or 4 - 20 mA or 2 - 10 Volt DC
Valve end position feedback:	potential-free changeover contacts
Positioning signal:	4 - 20 mA, 2 - 10 Volt DC or potentiometer outlet
Position hysteresis:	< 3°
Positioning accuracy:	0.25 %
Load current:	0.3 to 1.0 A
Rest current:	approx. 60 mA

Frontal view and dimensions



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Function, design and technical data

Model TA70/.. /EEX for valve stems and pressure reducers

- Simplest form of actuation through integrated motor controls
- Possibility of manual and / or automatic actuation using commercially available controllers
- Special controllers are not required
- Accurate control of OPEN / OFF / CLOSE-functions in the smallest intervals up to a max. of 20 rotations
- Internal end position disabling and feedback
- GULEX valves or commercially available valves up to DN 30 can be combined with the actuators
- Possibility of accurate and repeated metering even in cut-off range using suitable valves
- The valve actuators can be delivered as different prototypes and many product versions that could be ordered

Dimensions:	Ø 118 x 150 mm, without extension elements and valve
Weight:	approx. 2200 g
Cycle time:	either 7 to 44 s/360° or variable cycle times upon request
Rotations:	max. 20 rotations
Operation time:	approx. 80 % maximum operation time
Ambient temperature:	- 30° C to + 85° C (- 20° C to + 40° C)
Wiring:	2 m free cable end or length according to customer specifications
Type of protection:	II 2G EEx d IIC T6
Housing:	aluminium, steel (painted) or stainless steel
Assembly:	the actuator can be fitted in all positions via 2 M5 fastening thread at the lower side of the actuator head
Overload:	adjustable slip clutch (mechanical)
Torque:	17 to 32 Nm
Voltage supply:	24-Volt DC
Actuation:	+ 5 to + 24 Volt DC or 4 - 20 mA or 2 - 10 Volt DC
Valve end position feedback:	potential-free operating contacts
Positioning signal:	4 - 20 mA, 2 - 10 Volt DC or potentiometer outlet
Position hysteresis:	< 3°
Positioning accuracy:	0.25 %
Load current:	1.5 to 2.5 A
Rest current:	approx. 60 mA

Frontal view and dimensions



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Type classification and torque

TA70 TA70/SS-316				
Gears	2	3	4	5
Torque Nm	17	20	25	32
Cycle time s/360°	7	12	24	44

Order code TA70

TA70 / 2 / EEX / ..

Model TA70
 (Aluminium/steel design)
 Model TA70/SS-316
 (Stainless steel design)

Gears
 Selectable from 2, 3, 4 or 5
 (refer to above table)

Type of protection
 II 2G EEx d II C T6
 ATEX 100a

Control electronics P3, P4 etc.
 (refer to following pages)

N802 and TA70/./EEX

Order code

	N802	/	0	/	16U	/	6s	/	K
Model N802									
Model TA70/./EEX									
For valve stems: 0									
For pressure reducers: DR									
Selectable from 1 to 20 rotations									
Selectable from 4 to 12 s/360°									
Built-in socket with cable box: E 2 m cable end (standard): K (Not applicable to Model TA70/./EEX)									

- Select the actuator according to the order code
- DR in order code: Actuator without slip clutch
- K in order code: Actuator with 2 m cable end or length according to customer specifications

- **OPTION 1**
Variable positioning times of 2 to 55 s/360°
(depending on the gear ratio)

Wiring plan

12 pole built-in socket		Free cable end		
PIN		Colour		
A	=	White	= +	24-Volt DC operating voltage Operation time (OT) = 100 % of max. operation time
B	=	Brown	= -	
C	=	Green	= +	Control input CLOSE (+ 5 to + 24-V DC) OT = 80 %
D	=	Yellow	= +	Control input OPEN (+ 5 to + 24-V DC) OT = 80 %
E	=	Grey	=	Valve end position feedback CLOSE potential-free changeover contacts (relay), max. 24-Volt DC 1 A
F	=	Pink	=	
G	=	Blue	=	Valve end position feedback OPEN potential-free changeover contacts (relay), max. 24-Volt DC 1 A
H	=	Red	=	
J	=	Black	= NC	
K	=	Purple	= NC	
L	=	White-brown	= NC	
M	=	White-green	= NC	

N802/P3 and TA70/./EEX/P3

Order code

	N802/P3	/	12U	/	6s	/	5K	/	K
Model N802/P3									
Model TA70/./EEX/P3									
Selectable from 1 to 20 rotations									
Selectable from 4 to 12 s/360°									
Feedback potentiometer value Either 1, 5 or 10 kΩ									
Built-in socket with cable box: E 2 m cable end (standard): K (Not applicable to Model TA70/./EEX/P3)									

- Select the actuator according to the order code
- K in order code: Actuator with 2 m cable end or length according to customer specifications

- **OPTION 1**
Variable positioning times from 2 to 55 s/360° (depending on the gear ratio)

Wiring plan

12 pole built-in socket		Free cable end	
PIN		Colour	
A	=	White	= +
B	=	Brown	= -
C	=	Green	= +
D	=	Yellow	= +
E	=	Grey	=
F	=	Pink	=
G	=	Blue	=
H	=	Red	=
J	=	Black	= 1
K	=	Purple	= 2
L	=	White-brown	= 3
M	=	White-green	= NC

24-Volt DC operating voltage
Operation time (OT) = 100 % Max. operation time

Control input CLOSE (+ 5 to + 24-V DC) OT = 80 %

Control input OPEN (+ 5 to + 24-V DC) OT = 80 %

Valve end position feedback CLOSE
potential-free changeover contacts (relay), max. 24-Volt DC 1 A

Valve end position feedback OPEN
potential-free changeover contacts (relay), max. 24-Volt DC 1 A

Potentiometer output as positioning signal
1, 5 or 10 kΩ
(Note rating plate of the actuator)

N802/P4 and TA70/.. /EEX/P4

Order code

	N802/P4	4-20	12U	6s	5K	K
Model N802/P4 Model TA70/.. /EEX/P4						
Actuation 4 - 20 mA or 2 - 10 Volt D.C.						
Selectable from 1 to 20 rotations						
Selectable from 4 to 12 s/360°						
Feedback potentiometer value Either 1, 5 or 10 kΩ						
Built-in socket with cable box: E 2 m cable end (standard): K (Not applicable to Model TA70/.. /EEX/P4)						

- Select the actuator according to the order code
- K in order code: Actuator with 2 m cable end or length according to customer specifications
- Approx. 120 reproducible switching points per rotation is possible, assuming a max. of 20 rotations with standard gear 6 s/360°.
- **OPTION 1**
Variable positioning times from 2 to 55 s/360° (depending on the gear ratio)

Wiring plan

12 pole built-in socket	Free cable end		
PIN	Colour		
A	White	= +	24-Volt DC operating voltage Operation time (OT) = 100 % Max. operation time
B	Brown	= -	
C	Green	= +	Control input 4 - 20 mA (500 Ω) or 2 - 10 Volt DC (1 kΩ) OT = 80% (Note rating plate of the actuator)
D	Yellow	= -	
E	Grey	=	Valve end position feedback CLOSE potential-free changeover contacts (relay), max. 24-Volt DC 1 A
F	Pink	=	
G	Blue	=	Valve end position feedback OPEN potential-free changeover contacts (relay), max. 24-Volt DC 1 A
H	Red	=	
J	Black	= 1	Potentiometer output as positioning signal 1, 5 or 10 kΩ (Note rating plate of the actuator)
K	Purple	= 2	
L	White-brown	= 3	
M	White-green	= NC	

N802/P5 and TA70/.. /EEX/P5

Order code

	N802/P5	/	20U	/	6s	/	4-20	/	K
Model N802/P5	[Line connects to N802/P5]								
Model TA70/.. /EEX/P5	[Line connects to TA70/.. /EEX/P5]								
Selectable from 1 to 20 rotations	[Line connects to 20U]								
Selectable from 4 to 12 s/360°	[Line connects to 6s]								
Positioning signal output 0 - 20 mA or 4 - 20 mA	[Line connects to 4-20]								
Built-in socket with cable box: E 2 m cable end (standard): K (Not applicable to Model TA70/.. /P5)	[Line connects to K]								

- Select the actuator according to the order code
- K in order code: Actuator with 2 m cable end or length according to customer specifications
- **OPTION 1**
Variable positioning times from 2 to 55 s/360° (depending on the gear ratio)

Wiring plan

12 pole built-in socket		Free cable end	
PIN		Colour	
A	=	White	= +
B	=	Brown	= -
C	=	Green	= +
D	=	Yellow	= +
E	=	Grey	=
F	=	Pink	=
G	=	Blue	=
H	=	Red	=
J	=	Black	= + 
K	=	Purple	= -
L	=	White-brown	= NC
M	=	White-green	= NC

24-Volt DC operating voltage
Operation time (OT) = 100 % Max. operation time

Control input CLOSE (+ 5 to + 24-V DC) OT = 80 %

Control input OPEN (+ 5 to + 24-V DC) OT = 80 %

Valve end position feedback CLOSE
potential-free changeover contacts (relay), max. 24-Volt DC 1 A

Valve end position feedback OPEN
potential-free changeover contacts (relay), max. 24-Volt DC 1 A

Measurement output
4 - 20 mA or **2 - 10 Volt DC** (500 Ω)
(Note rating plate of the actuator)


N802/P7 and TA70/.. /EEX/P7

Order code

	N802/P7	/	4-20	/	20U	/	6s	/	4-20	/	K
Model N802/P7 Model TA70/.. /EEX/P7											
Actuation 4 - 20 mA or 2 - 10 Volt DC											
Selectable from 1 to 20 rotations											
Selectable from 4 to 12 s/360°											
Positioning signal output 4 - 20 mA or 2 - 10 Volt DC											
Built-in socket with cable box: E 2 m cable end (standard): K (Not applicable to Model TA70/.. /EEX/P7)											

- Select the actuator according to the order code
- K in order code: Actuator with 2 m cable end or length according to customer specifications
- Approx. 120 reproducible switching points per rotation is possible, assuming a max. of 20 rotations with standard gear 6 s/360°.
- **OPTION 1**
Variable positioning times from 2 to 55 s/360° (depending on the gear ratio)

Wiring plan

12 pole built-in socket		Free cable end	
PIN		Colour	
A	=	White	= +
B	=	Brown	= -
C	=	Green	= +
D	=	Yellow	= -
E	=	Grey	=
F	=	Pink	=
G	=	Blue	=
H	=	Red	=
J	=	Black	= + 
K	=	Purple	= -
L	=	White-brown	= NC
M	=	White-green	= NC

24-Volt DC operating voltage

Operation time (OT) = 100 % Max. operation time

Control input

4 - 20 mA (500 Ω) or 2 - 10 Volt DC (1 kΩ) OT = 80%
(Note rating plate of the actuator)

Valve end position feedback CLOSE

potential-free changeover contacts (relay), max. 24-Volt DC 1 A

Valve end position feedback OPEN

potential-free changeover contacts (relay), max. 24-Volt DC 1 A

Measurement output

4 - 20 mA or 2 - 10 Volt DC (500 Ω)
(Note rating plate of the actuator)

Function, design and technical data Model K8 for ball and butterfly valves up to DN 20

- Simplest form of actuation through integrated motor controls
- Possibility of manual and / or automatic actuation using commercially available controllers
- Special controllers are not required
- The actuators are internally electronically controlled and reversibly shifted to the positions 1, 2, 3 and 4 with the help of the path recorder
- Only 1 changeover contact and 1 pulse of min. 1 ms is needed for actuation per switching position. Permanent contact allocation is also possible
- Internal end position disabling and feedback
- Pulse-controlled rotation (clock pulse) in OPEN or CLOSE position for prevention of pressure impulses is possible as an option
- Special angle of rotation upon request
- Commercially available valves up to DN 20 could be combined with the actuators
- The valve actuators can be delivered as different prototypes and many product versions that could be ordered

Dimensions:	Ø 75 x 160 mm, without extension elements and valve
Weight:	approx. 1300 g
Cycle time:	either 1 to 5 s/90° or variable cycle times upon request
Rotations:	max. 20 rotations
Operation time:	approx. 80 % of max. operation time
Ambient temperature:	- 30° C to + 85° C
Wiring:	2 m free cable end or length according to customer specifications or 12 pole male socket with angled connector
Type of protection:	IP 67
Housing:	aluminium (anodised), steel (chrome-plated)
Assembly:	the actuator can be fitted in all positions via 2 M5 fastening thread at the lower side of the actuator head
Overload:	thermostatic switch with green operation lamp (electric)
Torque:	4 Nm, briefly 8 Nm
Voltage supply:	24-Volt DC
Actuation:	changeover contacts
Valve end position feedback:	potential-free changeover contacts
Position hysteresis:	< 3°
Positioning accuracy:	0.25 %
Load current:	0.3 to 1.0 A
Rest current:	approx. 60 mA

Frontal view and dimensions



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Function, design and technical data

Model TA70/.. /EEX for ball and butterfly valves up to DN 32

- Simplest form of actuation through integrated motor controls
- Possibility of manual and / or automatic actuation using commercially available controllers
- Special controllers are not required
- The actuators are internally electronically controlled and reversibly shifted to the positions 1, 2, 3 and 4 with the help of the path recorder
- Only 1 changeover contact and 1 pulse of min. 1 ms is needed for actuation per switching position. Permanent contact allocation is also possible
- Internal end position disabling and feedback
- Pulse-controlled rotation (clock pulse) in OPEN or CLOSE position for prevention of pressure impulses is possible as an option
- Special angle of rotation upon request
- Commercially available valves up to DN 20 could be combined with the actuators
- The valve actuators can be delivered as different prototypes and many product versions that could be ordered

Dimensions:	Ø 118 x 150 mm, without extension elements and valve
Weight:	approx. 2200 g
Cycle time:	either 2 to 11 s/90° or variable cycle times upon request
Operation time:	approx. 80 % of max. operation time
Ambient temperature:	- 30° C bis + 85° C (- 20° C bis + 40° C)
Wiring:	2 m free cable end or length according to customer specifications
Type of protection:	II 2G EEx d IIC T6
Housing:	aluminium, steel (painted) or stainless steel
Assembly:	the actuator can be fitted in all positions via 2 M5 fastening thread at the lower side of the actuator head
Overload:	1.5 A fuse (external)
Torque:	17 to 32 Nm
Voltage supply:	24-Volt DC
Actuation:	changeover contacts
Valve end position feedback:	potential-free changeover contacts
Position hysteresis:	< 3°
Positioning accuracy:	0.25 %
Load current:	1.5 to 2.5 A
Rest current:	approx. 60 mA

Frontal view and dimensions



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Type classification and torque

TA70 TA70/SS-316				
Gears	2	3	4	5
Torque Nm	17	20	25	32
Cycle time s/90°	2	3	6	11

Order code

TA70 / 2 / EEX / ..

Model TA70
(Aluminium/steel design)
Model TA70/SS-316
(Stainless steel design)

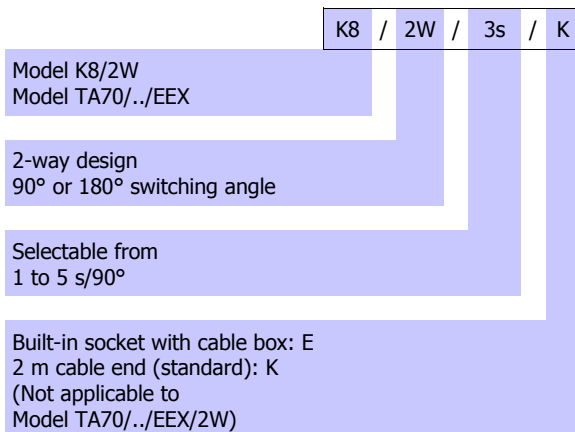
Gears
Selectable from 2, 3, 4 or 5
(refer to above table)

Type of protection
II 2G EEx d II C T6
ATEX 100a

Control electronics 2W, 3W, 4W
(refer to following pages)

K8/2W and TA70/./EEX/2W

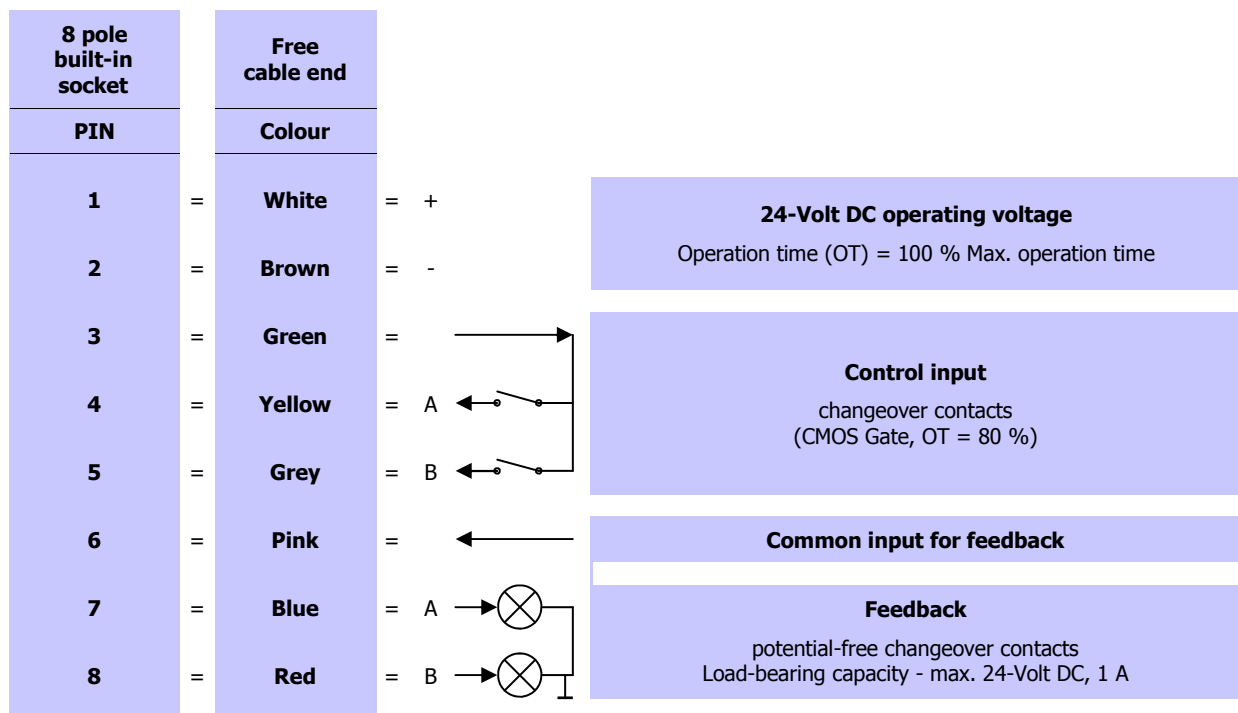
Order code



- Select the actuator according to the order code
- K in order code: Actuator with 2 m cable end or length according to customer specifications

- Valves of other manufacturers have to be sent to us for assembly
- The torque of valves to be delivered should be approx. 20 - 25 % below the max. torque of the actuators

Wiring plan



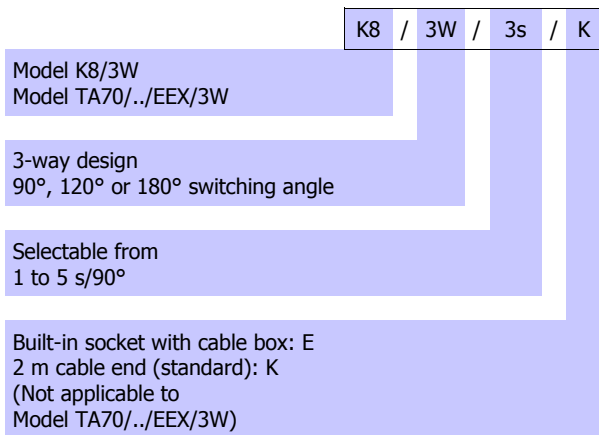
- The actuator rotates to the position A (valve CLOSE) ex factory after interruption in power supply
The position B (valve OPEN) can likewise be set ex factory upon request

Additional options (upon request)

- Clocked switching times, e.g. from direction of rotation CLOSE to OPEN in approx. 55 s/90° to avoid pressure impulses; wherein the normal rotational speed is maintained from the OPEN to CLOSE position.
- Special angle of rotation e.g. 120°
- Emergency manual switching that can be released (only TA70/./EEX models)

K8/3W and TA70/./EEX/3W

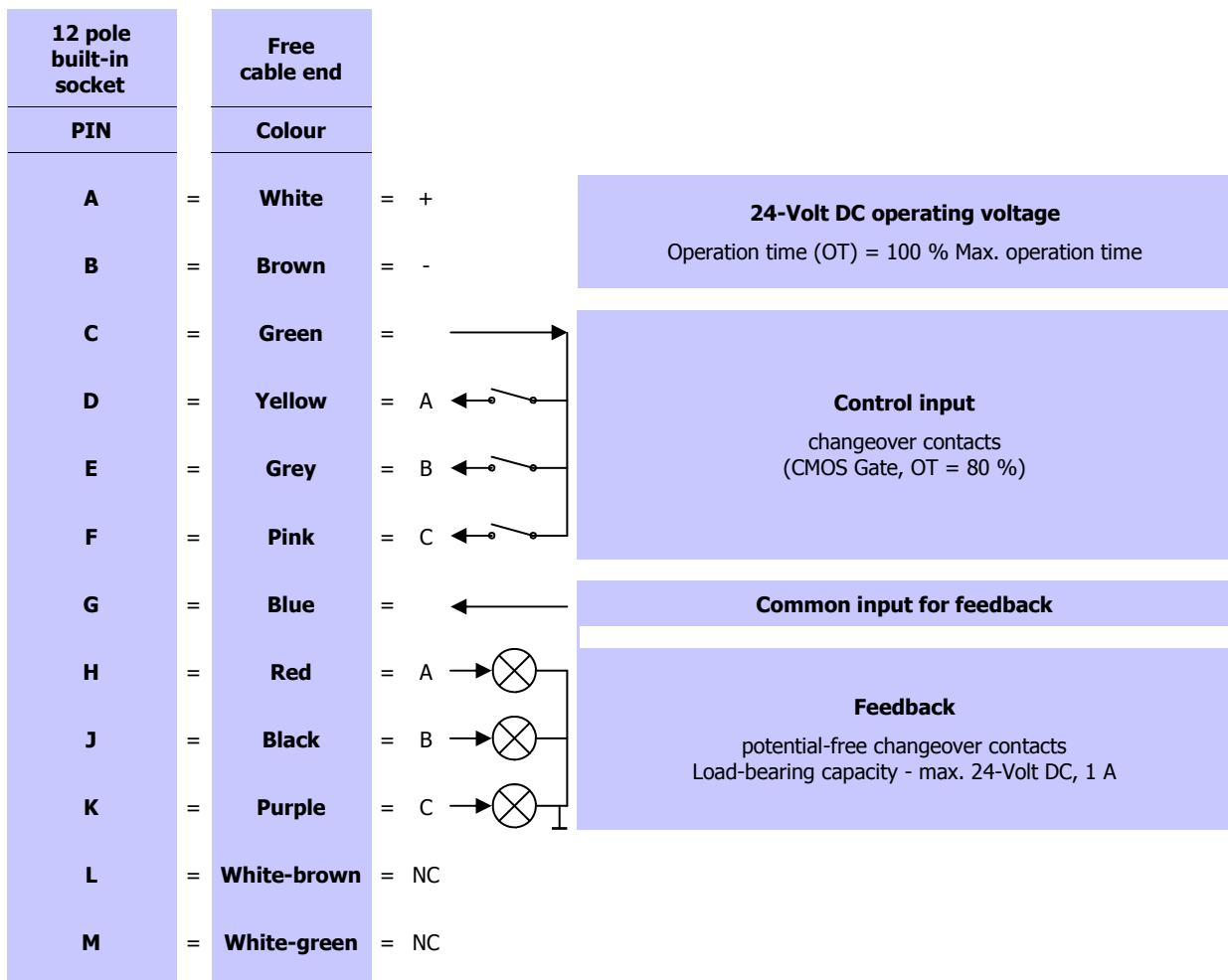
Order code



- Select the actuator according to the order code
- K in order code: Actuator with 2 m cable end or length according to customer specifications

- Valves of other manufacturers have to be sent to us for assembly
- The torque of valves to be delivered should be approx. 20 - 25 % below the max. torque of the actuators

Wiring plan



- The actuator rotates to the position B (valve CLOSE) ex factory after interruption in power supply
The positions A or C (valve OPEN) can likewise be set upon request

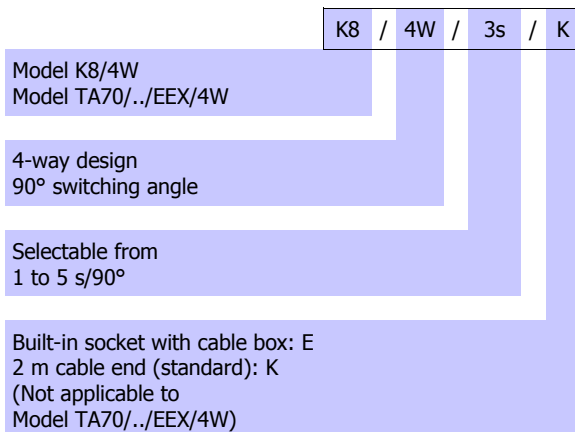
Additional options (upon request)

- Special angle of rotation e.g. 120°
- Emergency manual switching that can be released (only TA70/./EEX models)

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K8/4W und TA70/./EEX/4W

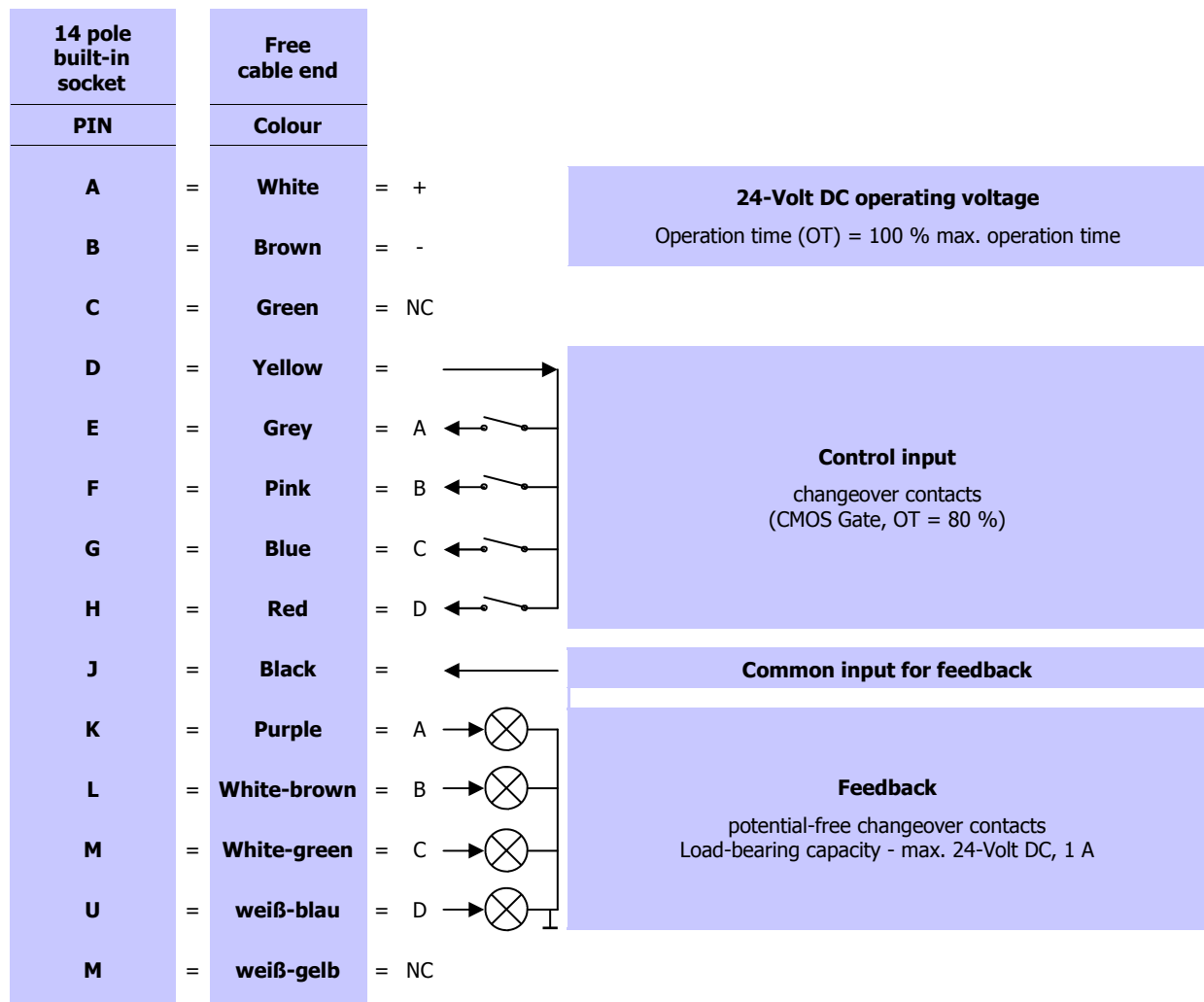
Order code



- Select the actuator according to the order code
- K in order code: Actuator with 2 m cable end or length according to customer specifications

- Valves of other manufacturers have to be sent to us for assembly
- The torque of valves to be delivered should be approx. 20 - 25 % below the max. torque of the Actuators

Wiring plan



- The actuator rotates to the position D ex factory after interruption in power supply. By contacting of an arbitrary control input, e.g. PIN O and PIN P with a 100 nF capacitor, the actuator rotates in to the position A etc.

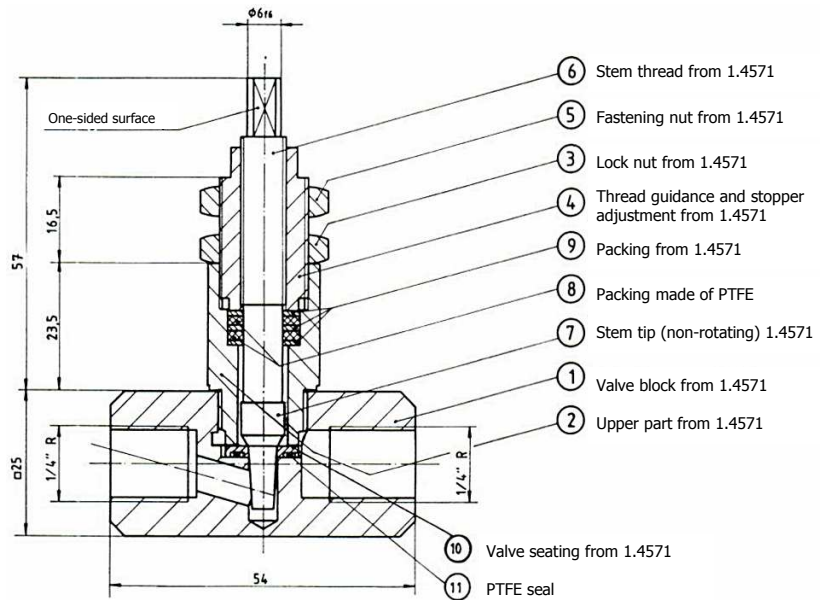
Additional options (upon request)

- Emergency manual switching that can be released (only TA70/./EEX models)

Stainless steel flow control / metering and cut-off valves for gases and liquids Model DN 1 - DN 6 with max. 20 rotations

Regulation of greater volumes of gases or liquids also with minimum pressure and reproducible with a sensible flow curve is required time and again. The standby time of a valve with regard to an actuator should also be guaranteed for some years. Most often this requirement is not met by the commercially available valves. Due to these reasons, our valves are equipped with the following features:

- Operating pressure: 350 bar at 20° C
- Operating temperature: -30° C to +200° C
- Non-rotating stem tips prevent wear and tear in valve seating and guarantee long standby times
- Resistant against corrosive gases and liquids during metering and cut-off
- The long spherical stem tips allow gradual increase of flow rate upon opening of the valves. This facilitates accurate metering and flow control across the entire path of the valves
- A spaciouly dimensioned stem thread guidance facilitates long standby time, especially if the valves are operated with actuators
- Post-adjustable packing made of PTFE below the stem thread prevents the lubrication from being washed off as well as wear and tear of the thread due to the medium
- Can be delivered for actuated operation or manual operation with rotatable handle



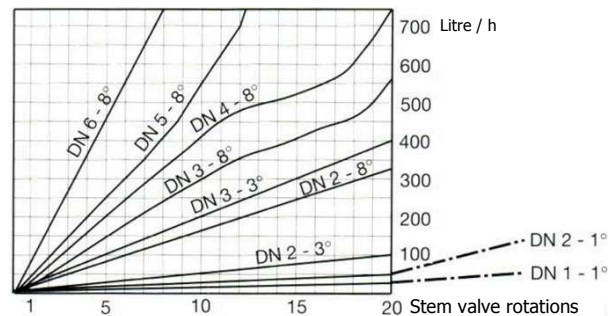
9 different Cv values for the same product size

Kv= 0.86 Cv
Cv= 1.17 Kv

Seating hole	Needle	Kv value in [m ³ /h] [bar]	Cv value in [gpm] [psi]
DN 1	1°	0.01	0.01
DN 2	1°	0.04	0.05
DN 2	3°	0.07	0.08
DN 2	8°	0.12	0.14
DN 3	3°	0.17	0.20
DN 3	8°	0.23	0.27
DN 4	8°	0.40	0.47
DN 5	8°	0.59	0.70
DN 6	8°	0.79	0.92

Flow coefficients

Metering water at 4 bar input pressure and pressure loss to the atmosphere

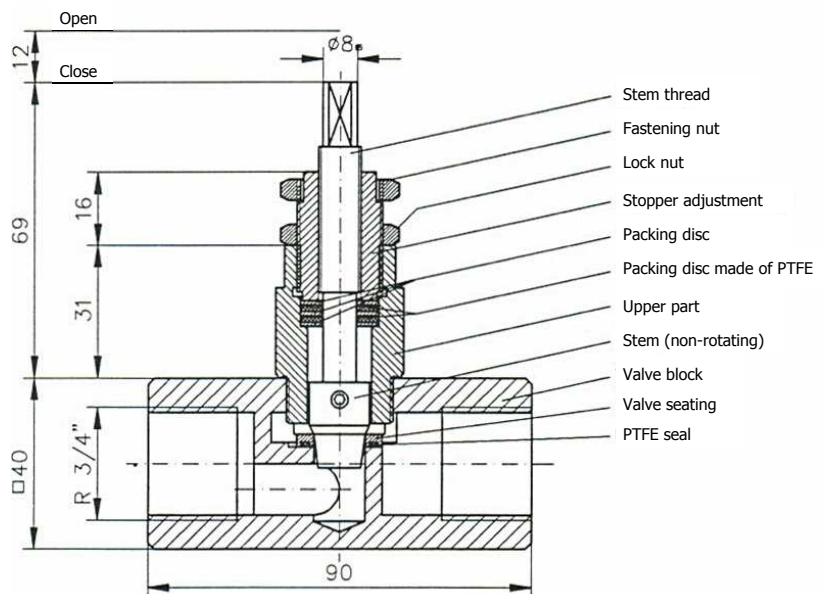


- Please indicate seating hole and needle in the order

Stainless steel flow control / metering and cut-off valves for gases and liquids Model DN 7 - DN 12 with max. 10 rotations

Regulation of greater volumes of gases or liquids also with minimum pressure and reproducible with a sensible flow curve is required time and again. The standby time of a valve with regard to an actuator should also be guaranteed for some years. Most often this requirement is not met by the commercially available valves. Due to these reasons, our valves are equipped with the following features:

- Operating pressure: 200 bar at 20° C
- Operating temperature: -30° C to +200° C
- Non-rotating stem tips prevent wear and tear in valve seating and guarantee long standby times
- Resistant against corrosive gases and liquids during metering and cut-off
- The long spherical stem tips allow gradual increase of flow rate upon opening of the valves. This facilitates accurate metering and flow control across the entire path of the valves
- A spaciouly dimensioned stem thread guidance facilitates long standby time, especially if the valves are operated with actuators
- Post-adjustable packing made of PTFE below the stem thread prevents the lubrication from being washed off as well as wear and tear of the thread due to the medium
- Can be delivered for actuated operation or manual operation with rotatable handle



6 different Cv values for the same product size

Kv= 0.86 Cv

Cv= 1.17 Kv

Seating hole	Needle	Kv value in [m ³ /h] [bar]	Cv value in [gpm] [psi]
DN 7	7°	0.90	1.05
DN 8	7°	1.20	1.40
DN 9	7°	1.70	1.99
DN 10	7°	2.10	2.46
DN 11	7°	2.40	2.81
DN 12	7°	2.80	3.28

- **Please indicate seating hole and needle in the order**

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Disclaimer

The entire selection of the actuator/ valve combination must be considered for guaranteeing safe and problem-free functionality. Valve function, material compatibility, pressure and temperature areas, proper assembly, operation and maintenance are the responsibility of the system designer and the user.

The performance data, technical data, dimensions and weights specified in this catalogue correspond to state of the art at the time of this publication. The illustrations are non-binding.

We reserve the right to design modifications. Such changes, errors and misprints do not result in claim for compensation of damages.

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