



ELECTRIC ACTUATORS

ball valves, butterfly valves and damperlerin on-off veya oransal kontrolü













TREA40 Electric Actuators Standard Features

General Features

- Specifically designed for ball valve, butterfly valve and dampers control
- Small, light and compact design.
- Elecrostatic powder coated aluminium body
- 40 Nm torque value
- Easy mounting with ISO5211 standards
- Hand control unit
- Standard 2 pieces output limit switches
- Valve position indicator
- Long lasting
- For TREA40; 85-265 V AC and 24 V DC can be used.
- Working Rate: S2: % 100 max. 30 min.

On-Off Electric Actuator (TREA 40)

Body : Aluminium injection, electrostatic powder coated

Torque Output Value : 40 Nm **Body Enclosure** : IP67

Hand Control Unit : It is on the actuator body and make on/off

Supply Voltage : 85-265 V AC ve 24 V DC Open-Close Time : 14 sn (50 .. 60Hz, 90' turn)

Motor : 24 V DC motor **Environment Temperature**: -20 °C ... 60 °C

Cable Connection Entry : 0.5x11C - 1 meter assembled cable

Valve Connection Flange : ISO5211 standard F03/F05

Limit Switches : 2x Open/Close SPDT, Max 250VAC 5A

Auxiliary Limit Switches : 2x Open/Close SPDT, Max 250VAC 5A



TREA 40



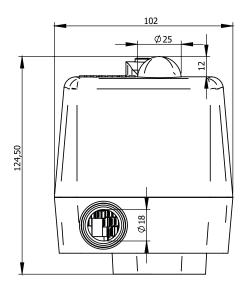


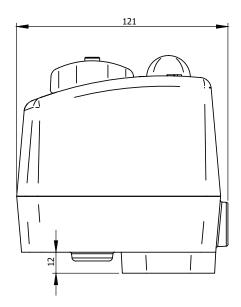




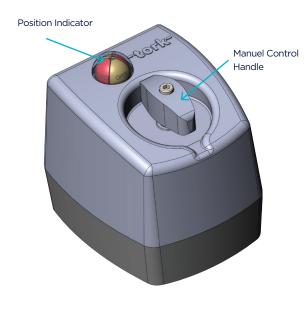


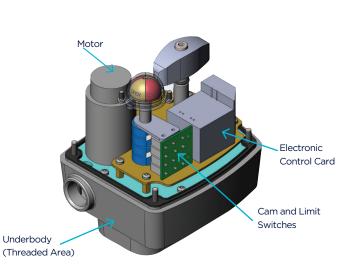
Sizes





Product and Piece Pictures







TREA60 and TREA80 Electric Actuator Standard Features

General Features

- Specifically designed for ball valve, butterfly valve and dampers control.
- Elecrostatic powder coated aluminium body
- 60 Nm and 80 Nm torque value options
- Water and dust insulation is generally produced with IP67 with O-ring structure.
 IP68 is optional.
- Easy mounting wit h ISO5211 standard
- · Hand control unit
- Standard 2 pieces output limit switches
- Automatic de-clutch output when motor is energized
- Moisture resistance heater (5 watts)
- Valve position indicator
- Long lasting
- Working Rate: S2: % 100 max. 30 min. (For open/close models)
 S4: %70, 1000 Start/Hour (For proportional models)

Optional Features

- · Proportional working with PCU card
- On Open/Close models 230 VAC or 24 VDC supply voltage on propotional models 85-265 VAC or 24 VDC supply voltage
- IP 68 (10mt 72 hour)
- Suitable for ZONE 1 and ZONE 2 Atex environment

On-Off and Proportional Electric Actuator

Body : Aluminium injection, electrostatic powder coated

If ATEX, TEXN829 E/P BRIGHT Black Special Painted

Torque Output Value : 60 Nm and 80 Nm

Body Enclosure : IP67

IP68 (10 m (10 m depth 72 hour)

Suitable for Atex (Ex II 2G Ex IIC T4 Gb) ZONE 1 and

Handle Control Unit : On actuator body and for open / close.

Supply Voltage : For On-Off TREA60 and TREA80, 230 used V AC or 24 V DC

For Proportional TREA60 and TREA80, 85-265 V AC or 24 V DC

Open Close Time : 14- 16 sec

Motor : Reversible motor, it can rotate in two directions.

Limit Switches : 2x Open/Close SPDT, Max 250VAC 5A

Auxiliary Limit Switches : 2x Open/Close SPDT, Max 250VAC 5A

: 2x Open/Close SPDT, Max 250VAC 5A

Environment Temperature : -20 °C ... 60 °C **Cable Connection Entrance**: M20x1.5 Coupling

Valve Connection Flange : ISO5211 standard F03/F05/F07

Optional : Proportional control unit 4-20 mA input / 4-20 mA output signal

1-5 V DC input / 1-5 V DC output signal









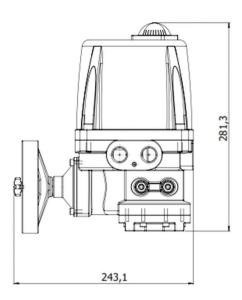


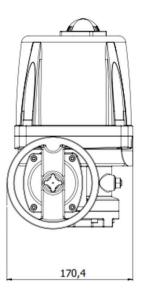




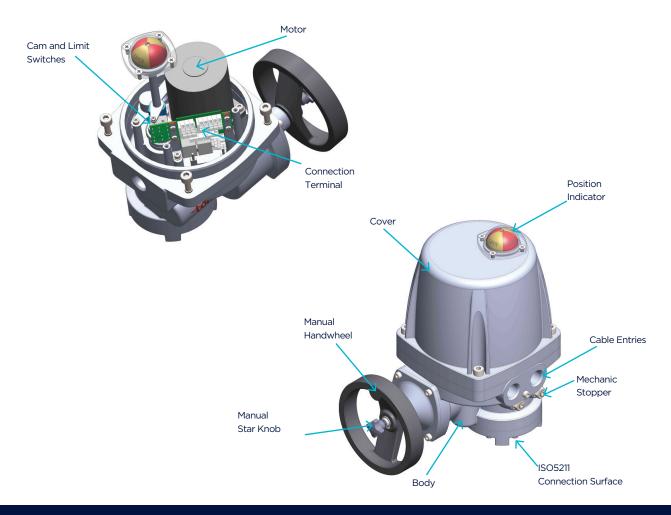


Sizes





Product and Pieces Pictures





TREAE60 Elektric Actuator Standard Features

General Features

- Specifically designed for ball valve, butterfly valve and dampers control.
- Economic structure
- 60 Nm torque value
- Waterproof and dustproof IP65 with O-ring structure
- ISO5211 standard and easy mounting
- · Hand control unit
- Standard 2 piece output limit switches
- Valve position indicator
- Long lasting

Optional Features

• TREAE60 için 100-240 V AC or 24 V DC/AC

On-Off Electric Actuator

Body : Plastic injection

Torque Output Value : 60 Nm **Body Enclosure** : IP65

Handle Control Unit : It is near the actuator body and make opening / closing

Supply Voltage :100-240 V AC or 24 V DC/AC

Open Close Time : 14 sn

Motor : Reversible DC Motor, it can rotate in two directions.

Limit Switches : 2x Open/Close SPDT, Max 250VAC 5A

Auxiliary Limit Switches : 2x Open/Close SPDT, Max 250VAC 5A

Environment Temperature: -20 °C ... 60 °C **Cable Connection Entrance**: M20x1.5 coupling

Valve Connection Flange: ISO5211 standard F03/F05/F07

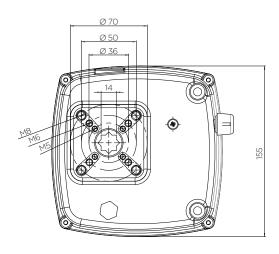


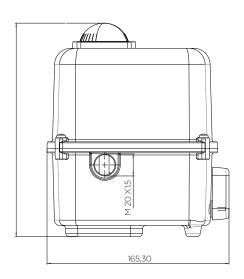




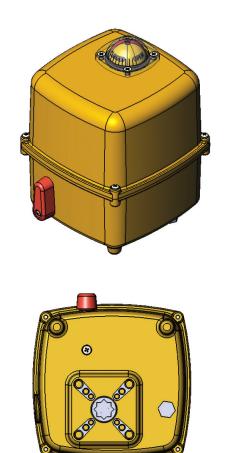


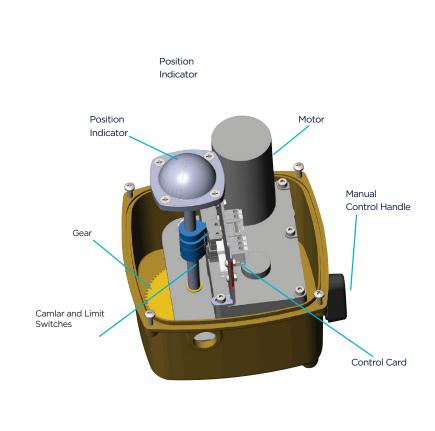
Sizes





Product and Pieces Pictues







REA40 and REA60 Electric Actuator Standard Features

General Features

- Specifically designed for ball valve, butterfly valve and dampers control.
- · Small, light and compact design, with high torqu output, different control options
- · Corrosion resistant polyester painted body
- Various output torque value from 40 Nm to 60 Nm
- Water and dust insulation with O-ring structure IP67
- ISO5211 standard and easy mounting
- · Hand control unit
- Standard 4 pieces limit switches
- Space heater with thermostat far preventing overheat (On REA60 models)
- Valve position indicators
- Long lasting

Optional Features

- Proportional card PCU is suitable for REA60 models.
- 220 V AC/ 110 V AC: Suitable for all REA actuator series.
- 24 V DC/ 24 V AC: Suitable for REA 40, 60, 80, 150, 200, 300 series.
- Working Rate: S2: % 100 max. 30 min.; S4: % 70 1600 hour
- Thanks to its battery, system can be controlled like a spring return: Suitable for REA 80, 150, 200, 300 series.
- Working Rate: S4 %70 max. 30 min. 1600 start/hour
- Smart type control unit SICU (semi integral control unit), ICU (intelligent dijital control unit): REA 150 and upper series
- IP68 Staying under water (10 m) 72 hour

On-Off and Proportional Electric Actuator

Body : Aluminium injection, electrostatic polyester coated

Torque Output Value : 40 Nm ... 60 Nm

Body Enclosure: Weatherproof, IP67, Inside the body there is a heater

(2watt) against moisture.

Handle Control Unit : It is under the actuator body and makes opening/closing.

Supply Voltage : 220 V AC, (on request 110 V AC, 24 V DC)

Open Close Time : 12 .. 14 sn (50 .. 60Hz, 90' turn)

Motor: Reversible motor, it can rotate in two directions.

Limit Switches : 2x Open/Close SPDT, Max 250VAC 3A

Auxiliary Limit Switches : 2x Open/Close SPDT, Max 250VAC 3A

Environment Temperature : -20 $^{\circ}$ C ... 70 $^{\circ}$ C

Cable Connection Entrance: 2 pieces PG 13,5 couplingValve Connection Flange: ISO5211 standard F03/F05/F07Optional: Proportional control unit

(4-20 mA input / 4-20 mA output signal at REA60 model)



REA 40





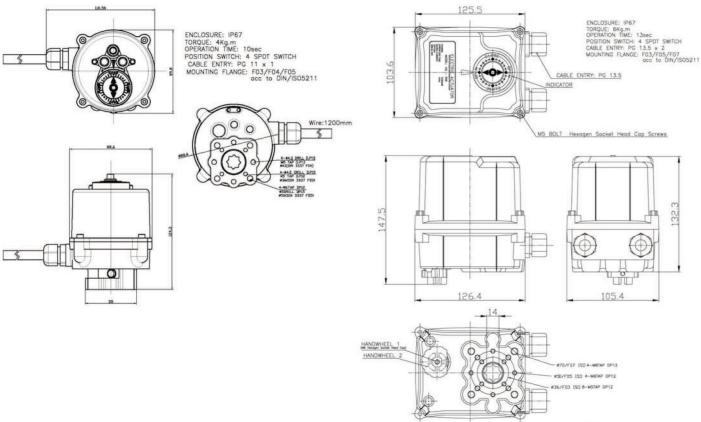
On-Off Elektrik Aktüatör



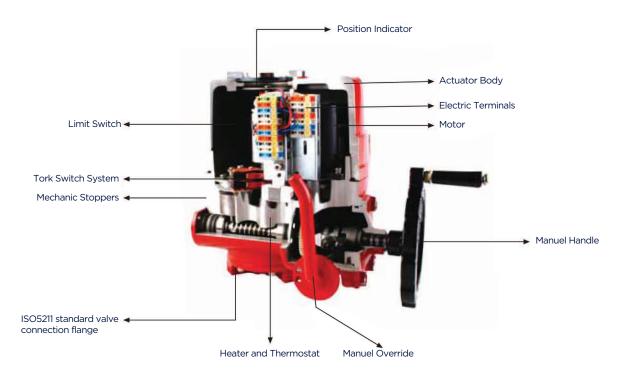




REA 40 REA 460



REA80 ... REA3000 Serie





REA80 and REA3000 Electric Actuator Standard Feature:

Body : Aluminium injection, electrostatik polyester dyed

Torque Output Value : 80 Nm ... 3000 Nm

Body Enclosure: Weatherproof, IP67, NEMA4, and NEMA6,

There is a heater (10 watt) against humidity inside the

body. Optional IP68

Handle Control Unit : Delatching mechanism located outside the body,

(locking gear lever, gearbox)

Working Voltage : 220 V AC, (on request 110 V AC and 380 V,

440V AC 3 phase)

Open Close Time : 13 ... 112 sec varies by model (50 .. 60Hz, 900 turn)

Motor : Reversible motor, it can rotate in two directions.

Limit Switches : 2x Open/Close SPDT, Max 250VAC 10A

Auxiliary Limit Switches : 2x Open/Close SPDT, Max 250VAC 10A Torque Switch : All for opening and closing (Except REA.80).

Local Indicator: It is under the glass housing on the actuator. Standard.

Mechanic Stopper : Two pieces

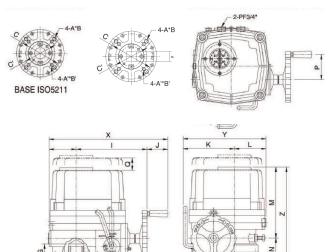
Ambient Humidity: %90 RH Max. (non- condensing)

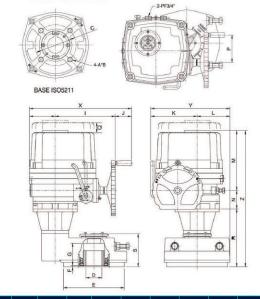
Ambient Temperature : -20 °C ... 70 °C

Cable Connection Entrance: 2 pieces PG 13,5 coupling **Valve Connection Flange**: ISO5211 standard F07... F16



On-Off and Proportional Electric Actuator is provided by adding Proportional card PCU.





Model	Basel ISO5211	Α	D	SQ	Е	F	G	н	١.	J	К		м	N	o	P	R	s	х	v	z
Model	øс	В	U	30			G	П	'	٦,			M	IN	U	Р	ĸ	3	^	r	
REA 80	F07	M8	20	14	88	3	32	50	157	51	100	70	182	53	40	60	-	-	258	170	235
KLA 60	Ø70 12	12																			
RFA 150	F07/F10	M8/M10	22	17	125	3	42	73	200	65	142	87	200	68	54	78	-	-	338	229	268
	Ø70/Ø102	12/15																			
REA200 F07/F10 Ø70/Ø102	F07/F10	M8/M10	22	22	125	3	42	73	200	65	142	87	200	68	54	78	_	_	338	229	268
	12/15	22	22	123	3	42	/3	200	05	142	07	200	00	54	/0	_	-	330	229	200	
REA 300	F10/F12 M10/M12	M10/M12	35	27	148	3	49	82	221	65	160	99	221	69	65	78	_	_	368	259	290
Ø102/Ø125	15/18	33	21	140	3	43	02	221	05	100	99	221	09	0.5	70	_	_	300	239	230	
REA 600 —	F10/F12	M12/M12	35	27	148	3	49	82	221	65	160	99	235	69	65	78	-	-	368	259	304
	Ø102/Ø125	15/18																			
REA 800 F12/	F12/F14	M12/M16	45	36	178	3	57	103	242	65	186	111	256	74	78	110	-	-	410	297	330
NLA 600	Ø125/Ø140	18/24																			
REA 1200	F12/F14	M12/M16	45	-	178	3	57	103	242	65	186	111	256	74	78	110	-	-	410	297	330
KEA 1200	Ø125/Ø140	18/24																			
REA 2000	F14/F16	M16/M20	65	-	245	5	245	103	242	65	186	133	256	74	78	110	233	133	410	319	583
	Ø140/Ø165	24/30																			
REA 3000	F14/F16	M16/M20	65	-	245	5	90	103	242	65	186	133	256	74	78	110	233	133	410	319	563
	Ø140/Ø165	24/30																			



Battery Operated Electric Actuator Standard Features (REA B Serie)

- Battery operated electric actuators developed for applications requiring safety.
- · Act as spring return actuator.
- In an emergency or power failure situation, valve can be operated 5 times on-off.
- For REA 80 ... REA 3000 serie

Body :Aluminium injection, electrostatic polyester dyed

Torque Output Value :80 Nm ... 3000 Nm

Enclosure :Weatherproof, IP67, NEMA4, ve NEMA6 There is a heater

(10 watt) against humidity inside the body

Handle Control Unit :Delatching mechanism located on the actuator,

(kilitlemeli vites kollu, dişli kutulu)

Working Voltage :220V AC, (on request 110 V AC and 380V, 440V AC 3 phase)

Open Close Time : 13 ... 112 sec varies by model (50 .. 60Hz, 900 turn)

Motor : Reversible motor, it can rotate in two directions.

Limit Switch : 2 pieces.T.K.Ç.Y limit switches, 250V AC, 16A

(on request 2 pieces additional switch): All for open and close (Except REA 80).

Torque Switch : All for open and close (Except REA 80).

Local Indicator : It is under the glass housing on the actuator. Standard.

Mechanic Stopper : Two pieces

Ambient Humidity: %90 RH Max.(non- condensing)

Ambient Temperature : -20 °C ... 70 °C

Cable Connection Entrance: 2 pieces PG 13,5 coupling

Local Control Unit Electric Actuator (LCU-B Serie)

- · Applied REA 150 ... REA 3000 series.
- 110 V AC/ 220 V AC monophase application
- 220 V AC/ 460 V AC three-phase application
- Phase protection and indication against incorrect connection
- Operating light, power control, error, open closed position signals are monitored on the LCU-B panel on the actuator and this information can be transmitted to the control unit with a cable.

Body : Aluminium, injection, electrostatic polyester dyed. **Enclosure** : Weatherproof, IP67, NEMA4, and NEMA6. There is a

heater (10 watt) against humidity inside the body.

Handle Control Unit: Delatching mechanism located on the actuator,

(locking gear lever, gearbox)

Working Voltage : 220 V AC, (on request 11 0 V AC and 380 V, 440 V AC 3 phase)

Open Close Time : 13 ... 112 sec varies by model (50 .. 60Hz, 900 turn)

Motor : Reversible motor, it can rotate in two directions.

Limit Switch : 2 pieces.T.K.C.Y limit switched, 250V AC, 16A

(on request 2 pieces. additional switch)

Torque Switch : All for open and close

Lineer Elektrik Aktüatörler (Glob vanalar için)

Body : Aluminium injection, electrostatic polyester dyed : Weatherproof, IP67, NEMA4, and NEMA6. There is a

heater (10 watt) against humidity inside the body.

 $\textbf{Hand Control Unit} \quad \textbf{:} \ \textbf{Delatching mechanism located on the actuator,} \\$

(locking gear lever, gearbox)

Working Voltage : 220V AC, (on request 11 0 V AC ve 380V, 440V AC 3 phase

Model	Shaft Speed (mm/sec)	Power Value	Max. Stork (mm)
LEA 50	0.44/0.53	5 KN	60
LEA 70	0.44/0.53	7 KN	60
LEA 100	0.69/0.82	10 KN	70
LEA 120	0.69/0.82	12 KN	70
LEA 150	0.69/0.82	15 KN	80
LEA 180	0.69/0.83	18 KN	100
LEA 200	0.69/0.83	20 KN	100
LEA 250	0.69/0.83	25 KN	100







Dijital Local Control Unit (LCU-C Serie)

- For REA 150 ... REA 3000 serie
- 220 V AC / 460 V AC three-phase application
- · Light, compact and integrated design
- The cable entry terminal can be moved outside the actuator.
- Resistant to water, vibration and temperature.
- RS485 communication connection feature
- Automatic phase distributor feature

 Operating panel, power control, error, open and closed position signals are displayed on the panel and this information is transmitted to the control unit via a cable and transmitted to the computer via RS485 connection feature.

Body : Aluminium injection, electrostatic polyester dyed

Enclosure: Weatherproof, IP67, NEMA4, ve NEMA6, There is a heater

(10 watt) against humidity inside the body.

Hand Control Unit: Delatching mechanism located on the actuator,

(locking gear lever, gearbox)

Working Voltage : 220V AC, (istek üzere 110 V AC ve 380V, 440V AC 3 phase)

Open Close Time : 12 ... 37 sec (50 .. 60Hz, 900 phase)

Motor : Reversible motor, it can rotate in two directions.
Limit Switch : 2 pieces.T.K.Ç.Y limit switches, 250V AC, 10A

(On request 2 pieces additional switch)

Tork Switch : All for open and close (Except REA.80)



Electric Actuator Features

Control : On-off (optional; proportional)

Working Voltage : 220 V AC, 50Hz (optionel 110 V AC, 24 V DC)

Open Close Time : 13/14 sn
Output Torque Value : 40 Nm, 60 Nm

Enclosure : IP67

Ambient Temperature : -20 $^{\circ}$ C ... 70 $^{\circ}$ C

Optional : Local control unit can be added, potentiometer can be added,

position transmitter can be added, proportional unit can be added.

Ball Valve Features

Body : Full bore, AISI 316 stainless steel, three pieces

Ways : Two-way / three-way is installed in any position and gives

flow passage in two directions.

O-ring : Ball is PTFE and neck o-ring is (two pieces) PTFE
Pressure : It is designed for low pressure and high pressure.

Working Temperature : -20 $^{\circ}$ C ... 180 $^{\circ}$ C

Working Pressure : PN 40 bar (1/2" .. 11/4"), 16 bar (11/2" ... 3")

Test : All valves are tested at 20 bar for 48 hours.

Special Request : Two-piece ball valve available on request.

S9190 Serie (Electric motorized Zone valve, (2/2 way, 3/2 way)

Application Area: Heating, cooling, Water treatment systems,

 Size
 :1/2", 3/4", 1", 11/2"

 Body
 : Stainless Steel

 Way
 :2 way, 3 way

Temperature : -20 °C ... 80 °C water, hot water

Working Voltage : 24 V DC and AC, 220V AC on request 5V, 12V, 110V AC/DC

Open Close Time : 5 -7 sec.















Electric Actuator Ball Valve (Brass, Carbon Steel, Stainless Steel, Cast Iron, PVC)

Electric Actuator Features

Control : On-off (optional; proportional)

Working Voltage : 220 V AC, 50 Hz (proportional 110 V AC, 24 V DC) 380 V AC

Three-phase

Open Close Time : 13/14/25/31/37/93 sn
Output Torque Value : 40 Nm, 60 Nm ... 3000 Nm
Enclosure : IP67 (on request IP 68, ex-proof)

Ambient Temperature : -20 °C ... 70 °C

Optionel : Local control unit can be added, potentiometer can be added,

position transmitter can be added, proportional unit can be added.

Ball Valve Features

Body : Full bore, brass, carbon steel, stainless, cast iron, PVC Way : Two-way / three-way is installed in any position and gives

flow passage in two directions.

O-ring: Ball is PTFE and neck o-ring is (two pieces) PTFE

PVC: Around ball: EPDM / VITON

Pressure : It is designed for low pressure and high pressure.

Working Temperature : (Acc. to body material) -20 °C ... 80 °C /130 °C /180 °C

Working Pressure : PN16, PN 40 bar (1/2" ... 11/4"), 16 bar (11/2" ... 3")

NW15 ... NW250

Test : All valves are tested at 20 bar for 48 hours.

Special Request : Two-piece ball valve available on request.









Electric Actuator Stainless Steel Butterfly Valves (EAV 800 Serie)

Electric Actuator Features

Control : On-off (optional proportional)

Working Voltage : 220V AC, 50 Hz (Proportional 110 V AC, 24 V DC) 380V AC Three-phase

Open Close Time : 13/14/25/31/37/93 sn
Output Torque Value : 40 Nm, 60 Nm ... 3000 Nm
Enclosure : IP67 (on request IP 68, ex-proof)

Ambient Temperature : -20 °C ... 70 °C

Optionel : Local control unit can be added, potentiometer can be added,

position transmitter can be added, proportional unit can be added.

Butterfly Valve Features

Working Pressure

Body : GG 25 grey cast, epoxy coated (121 serie);

Optional: Rilsan coating body, stainless steel body

Disc : GGG50 ductile iron epoxy dyed

Optional: Rilsan coated

On request disc: 304-316 stainless steel (specify in order)

Sealing : EPDM (-30 °C ... 130 °C) or NBR (-30 °C ... 90 °C) (specify in order)

Optional: PTFE, viton, silicon

Working Temperature: -30 °C ... 130 °C degree works,

EPDM (-30 °C ... 90 °C) or NBR (-30 °C ... 130 °C) : PN 6 (optional: PN 10, PN 16)

Shaft : AISI 420 stainless



