

## Product data sheet

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Date: October, 2006

FieldQ

# FieldQ valve actuator

## Parts and materials Actuator and Modules

Description	Qty.	Description	Specification	Notes
Body	1	Aluminum Alloy	EN AC-AISI10Mg (Cu)	1/5
Pinion	1	Aluminum Alloy	EN AW 7075 T6	2
Upper pinion part	1	Aluminum Alloy	EN AW 7075 T6	2
Guide band housing	2*	Nylatron	PA6.6 + MoS2	-
Washer pinion	2*	CRMZX100	-	-
Bearing ring	2*	Delrin®	POM	-
Limit stop cam	1	Steel	42CrMo4V	-
Piston	2	Aluminum Alloy	EN AC-AISI7Mg	6
End cap QS	2	Aluminum Alloy	EN AC-AISI7Mg	1
End cap QD	2	Aluminum Alloy	EN AC-AISI7Mg	1
Guide band piston	2*	PTFE, Carbon filled	PTFE + 25% C	-
O-ring piston	2*	Nitrile Rubber	NBR	-
O-ring end cap	2*	Nitrile Rubber	NBR	-
O-ring upper pinion part	1*	Nitrile Rubber	NBR	-
O-ring pinion top	1*	Nitrile Rubber	NBR	-
O-ring pinion bottom	1*	Nitrile Rubber	NBR	-
O-ring B-port	2*	Nitrile Rubber	NBR	-
O-ring retainer bolt	4*	Nitrile Rubber	NBR	-
O-ring limit stop bolt	2*	Nitrile Rubber	NBR	-
Outer spring	2	Carbon Spring Steel	EN 10270-1 SH	3
Middle spring	2	Carbon Spring Steel	EN 10270-1 SH	3
Inner spring	2	Carbon Spring Steel	EN 10270-1 SH	3
Spring retainer	2	Steel	St. DC01 EN10139	4
Washer springpack	2	Steel	C35	4
Springpack retainer bolt	2	Stainless Steel	AISI 304 (DIN W nr 1.4301)	-
Washer	4*	Nylon	PA6	-
Nut	4	Stainless Steel	AISI 304 (DIN W nr 1.4301)	-
Nut cover	2	Polyethylene	PE	-
End cap screws	8	Stainless Steel	AISI 304 (DIN W nr 1.4301)	-
Retaining ring pinion large	1*	Carbon Spring Steel	C45, DIN 17200	3
Retaining ring pinion small	1*	Carbon Spring Steel	C45, DIN 17200	3
Limit stop screw	1	Stainless Steel	AISI 304 (DIN W nr 1.4301)	-
Indicator cap	1	Nylon	PA6	-
Indicator arrow	1	Nylon	PA6	-
Indicator insert	1	Nylon	PA6	-
Type plate	1	Stainless Steel	AISI 303 (DIN W nr 1.4305)	-
Hammer drive	1	Stainless Steel	AISI 303 (DIN W nr 1.4305)	-
Insert	1	Aluminum Alloy	EN AW 6082 T5	5

### Notes

- 1 See Corrosion protection below
- 2 Hard anodized.
- 3 Deltatone® or Epoxy (black) coating.
- 4 Zinc plated and passivated.
- 5 Anodized.
- 6 Chromatized

### Control & Pneumatic Modules

For material specification of the Pneumatic Modules see page 2

### Corrosion protection

The applied paint system has passed a 1000 hour salt spray test as detailed by ASTM B117. For a detailed description of the Corrosion protection system see data sheet 1.606.05.

### Temperature ranges

The temperature range of FieldQ actuators with NAMUR plates depends on the O-ring seals and the utilized grease.

For a detailed description of possible temperature ranges and applied parts, see data sheet 1.605.03

### Repair kit

Parts marked with an \* are included in the repair kit



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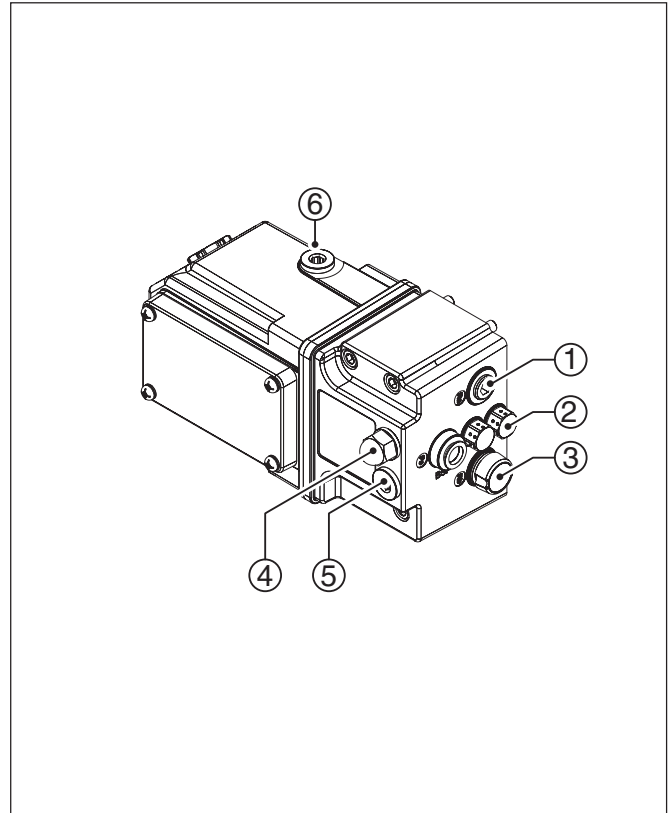
## Parts and materials Actuator and Modules

### Base Materials

Bodies	: Aluminium
Valve housing	: 30% glass-filled Nylon
Finish	: Polyester non-TGIC based powder coating
Valve seats	: NBR
Membrane	: NBR
Fasteners	: Stainless Steel

### External parts

1 Plug	NPT	: Steel, zinc plated
	BSP	: Brass, nickel plated
2 Vents		: Stainless Steel (AISI 303)
3 Exhaust	Base	: Nylon PA6
	Cover	: Zinc Nickel plated and transparent passivated
	Option	: Plastic silencer (nylon)
4 Speed Control		
- Throttle		: Stainless Steel (AISI 303)
- Nut Cover		: Nylon PA6
5 Plug		: Brass Nickel plated
6 Manual Control		
- Push version		: Red anodized aluminum
- Push & Lock version		: Red anodized aluminum



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