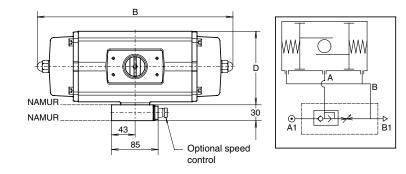
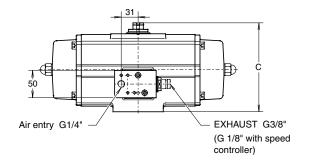
# Data sheet

Sheet No.: 3.120 Rev. B Date: March 2012

# SPRING RETURN ACTUATOR WITH Q.E. BREATHER BLOCK





Dim. in	Actuator type											
mm.	E25	E40	E65	E100	E200	E 350	E600	E950	E1600	P2500	P4000	
A PD/ED	159	180	199	221	283	305	387	424	516	378	502	
B PE/ES	172	204	249	267	360	387	477	517	637	570	834	
С	100	113	125	138	163	201	250	289	327	386	410	
D	83	96	107	117	137	182	217	242	275	358	390	
	Operating times in sec. (at 6 bar with average load)											
Air stroke	0.35	0.4	0.50	0.53	0.75	1.1	1.7	206	4.1	4.7	8.5	
Spring stroke	0.33	0.35	0.42	0.44	0.53	0.80	1.1	1.7	2.5	2.9	5.3	



Description

The breather block provides corrosion protection of the actuator spring chamber. It should be used on applications where the actuator is located in a corrosive atmosphere which would otherwise be sucked into the actuator through the "B" port during the spring stroke.

#### Operation

Air entering the actuator at A1 moves the shuttle valve to the right and allows the actuator to operate normally, displaced air from "B" is exhausted through "B1".

At the spring stroke, air is exhausted at "A1" and the shuttle valve moves to the left allowing the air from "A" to first fill the spring chamber through "B" then to exhaust to atmosphere at "B1".

The breather block has an built-in guick exhaust function to improve the spring stroke time (see table). An optional speed control can be provided to regulate this closing time.

#### Installation

The breather block is fixed directly onto the NAMUR air entry manifold and has a further NAMUR interface so that a suitable solenoid valve may be directly mounted, or for a tubing connection in the case of a remote solenoid valve.

### **Technical data**

: Aluminium alloy : Hard anodized, impregnated with PTFE
: 1 to 8 bar
: Air, dry or lubricated or
non-corrosive gas (not suitable
for oxygen service)
: -20° to 80°C
: G 1/4" and NAMUR
: G 3/8" (or 1/8" with speed control)
: Air stroke : 0.8 (m³/h) : Spring stroke : 1.9 (m³/h)

BB

## Identification

Factory option	: "BB" is added to the				
	basic actuator part Nr. eg.				
	ES200+BB				
Kit option	: Kit BB				
With speed control	: Kit BBS				

**EMERSON Process Management** 

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Updated data sheets can be obtained from our website www.EI-O-Matic.com or from your nearest Valve Automation Center USA: +1 813 319 0266 Europe: +31 74 256 10 10 Asia-Pacific: +65 6501 4600