

World Class Performance  
in Abrasive, Scaling and  
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***DFC PNEUMATIC ACTUATORS***



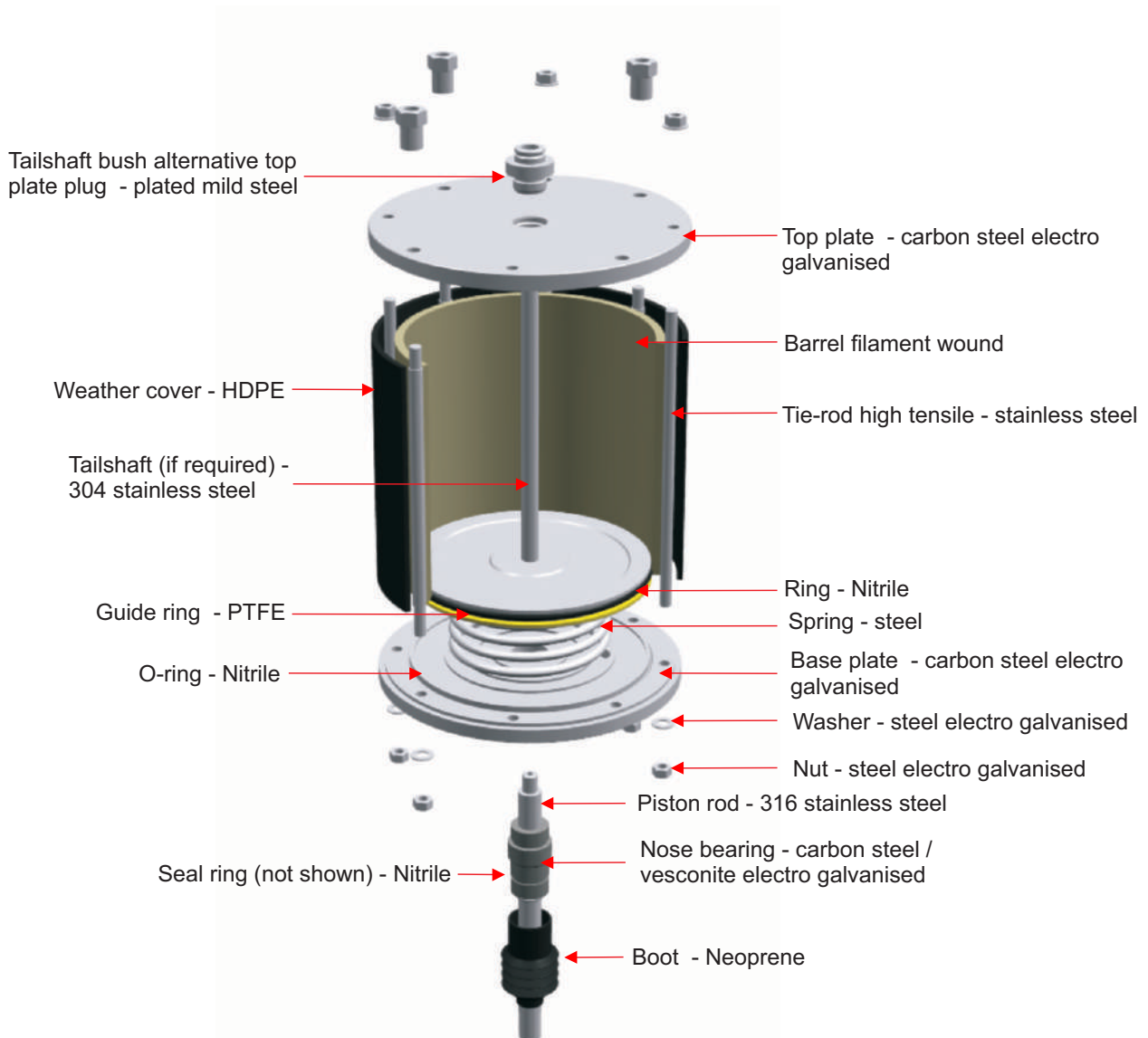
## BIMAN Linear Actuators

### THE LOW IN MAINTENANCE ACTUATOR DESIGN

Biman Linear Actuators have been developed for arduous conditions utilising innovative materials for optimum performance.

Whilst simple in construction and therefore easily maintained, the critical requirements of design have been given special attention to provide a reliable actuator with a minimum number of components.

In order to overcome bad atmospheric conditions on most chemical plants, the exterior of the actuator has maintenance free surfaces, whilst the interior of the cylinder incorporates a composite filament wound barrel that is not only corrosion free, but has an ultra smooth interior surface for interference free travel and minimum friction. In addition, an initial treatment of lubrication with exceptional properties is used to coat the inside of the barrel. The piston is PTFE guided thus providing the end user with a high performance actuator.



## THRUST FORCES FOR DOUBLE ACTING LINEAR ACTUATORS (kN)

MODEL	2 BAR	3 BAR	4 BAR	5 BAR	6 BAR	7 BAR
BFC 080/DA	0.9	1.3	1.8	2.2	2.6	3.1
BFC 100/DA	1.4	2.1	2.8	3.5	4.1	4.8
BFC 160/DA	3.5	5.3	7.1	8.8	11	12
BFC 200/DA	5.5	8.3	11	14	17	19
BFC 300/DA	12	19	25	31	37	44
BFC 400/DA	22	33	44	55	66	77
BFC 550/DA	47	70	93	117	140	165

## THRUST FORCES FOR SPRING RETURN & AIR FAIL SAFE LINEAR ACTUATORS (kN) DEPENDENT ON VALVE CONFIGURATION

### ACTUATOR FEATURES

- **Positive fail safe** – Spring return
- **Corrosion proof** – Composite filament wound barrel and stainless steel piston shaft
- **Easily maintained** – Simple design
- **Smooth operation** – Ultra smooth barrel
- **Versatile** – Various strokes to suit valve requirements
- **Safety** – Extended sleeve nuts provided to release the spring tension

### POSITIONER SPECIFICATIONS

#### Versatile

- Suitable for linear pneumatic actuators (6mm - 1m stroke)
- Suitable for rotary pneumatic actuators (up to 360°)
- A multi-lobed cam which suits most applications

#### Modular, bolt-on concept

- Suitable for 20-100kPa or 4-20mA signal
- Either single or double acting
- Gauges as an option
- Actuator position feedback as an option

#### User friendly

- Easy to setup and calibrate
- Two alternative supply ports
- Two alternative signal ports
- No pressure regulation required – OK for 100kPa
- Field reversible

#### Other features

- Corrosion resistant and robust construction
- Intrinsically safe to SABS and PTB
- Made in South Africa - all spares available ex-stock
- Choice of cam characteristics
- Available with a NAMUR mounting arrangement

### BIMAN POSITIONER



# BIMAN<sup>®</sup>



## Manufacturers of the following products:



INSAMCOR<sup>®</sup>



BIMAN<sup>®</sup>

SKG

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