

FVBC SERIES

DESCRIPTION

The updated FVBC / VBC series of pneumatic cylinders fully adheres to the ISO 1552 standard. The bore sizes range from 32mm to 100mm. The cylinder has been designed with a complete change of covers and piston, an entire PU sealing system, a magnet integrated into the wear ring slot, a double cushion structure, and a strengthened cushion needle and guider. We have studied every process that will improve quality, from material choice, die-casting technology, machining consistency, testing style, etc. All of this has resulted in further improvements. High-precision CNC machine robots machine the pneumatic cylinder, which is automatically assembled and tested.

FEATURES

- Highlighted products for process optimisation
- Adheres to ISO1552 standard
- All PU sealing system
- Strong guiding design with high concentricity
- Bronze bearing with much better lateral loading
- Strengthened cushion design, soft ending
- Double cushioning system
- 2000 km loaded stroke life

Non-standard stroke available on request



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FVBC SERIES CYLINDER 32 MM BORE

PART NUMBER	BORE	STROKE
EM-FVBC32X25-S	32 mm	25 mm
EM-FVBC32X50-S	32 mm	50 mm
EM-FVBC32X80-S	32 mm	80 mm
EM-FVBC32X100-S	32 mm	100 mm
EM-FVBC32X125-S	32 mm	125 mm
EM-FVBC32X160-S	32 mm	160 mm
EM-FVBC32X200-S	32 mm	200 mm
EM-FVBC32X250-S	32 mm	250 mm

40 MM BORE

EM-FVBC40X25-S	40 mm	25 mm
EM-FVBC40X50-S	40 mm	50 mm
EM-FVBC40X80-S	40 mm	80 mm
EM-FVBC40X100-S	40 mm	100 mm
EM-FVBC40X125-S	40 mm	125 mm
EM-FVBC40X160-S	40 mm	160 mm
EM-FVBC40X200-S	40 mm	200 mm
EM-FVBC40X250-S	40 mm	250 mm

50 MM BORE

EM-FVBC50X25-S	50 mm	25 mm
EM-FVBC50X50-S	50 mm	50 mm
EM-FVBC50X80-S	50 mm	80 mm
EM-FVBC50X100-S	50 mm	100 mm
EM-FVBC50X125-S	50 mm	125 mm
EM-FVBC50X160-S	50 mm	160 mm
EM-FVBC50X200-S	50 mm	200 mm
EM-FVBC50X250-S	50 mm	250 mm

63 MM BORE

EM-FVBC63X25-S	63 mm	25 mm
EM-FVBC63X50-S	63 mm	50 mm
EM-FVBC63X80-S	63 mm	80 mm
EM-FVBC63X100-S	63 mm	100 mm
EM-FVBC63X125-S	63 mm	125 mm
EM-FVBC63X160-S	63 mm	160 mm
EM-FVBC63X200-S	63 mm	200 mm
EM-FVBC63X250-S	63 mm	250 mm
EM-FVBC63X320-S	63 mm	320 mm
EM-FVBC63X400-S	63 mm	400 mm
EM-FVBC63X500-S	63 mm	500 mm

SPECIFICATIONS

Cylinder type	Double acting, magnetic positioning
Materials	Aluminium end caps. S45C hard chrome carbon steel piston rod. Hard anodised aluminium barrel. PU seals
Max. working pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Speed range	50 to 800 mm/s
Bore	ø32 mm, ø40 mm, ø50 mm, ø63 mm, ø80 mm, ø100 mm
Mounting	Foot, rear trunnion, 90° rear trunnion, front flange, rear flange.
Available stroke length	0 – 1900 mm
Cushion type	Adjustable air cushion

80 MM BORE

PART NUMBER	BORE	STROKE
EM-FVBC80X25-S	80 mm	25 mm
EM-FVBC80X50-S	80 mm	50 mm
EM-FVBC80X80-S	80 mm	80 mm
EM-FVBC80X100-S	80 mm	100 mm
EM-FVBC80X125-S	80 mm	125 mm
EM-FVBC80X160-S	80 mm	160 mm
EM-FVBC80X200-S	80 mm	200 mm
EM-FVBC80X250-S	80 mm	250 mm
EM-FVBC80X320-S	80 mm	320 mm
EM-FVBC80X400-S	80 mm	400 mm
EM-FVBC80X500-S	80 mm	500 mm

100 MM BORE

EM-FVBC100X25-S	100 mm	25 mm
EM-FVBC100X50-S	100 mm	50 mm
EM-FVBC100X80-S	100 mm	80 mm
EM-FVBC100X100-S	100 mm	100 mm
EM-FVBC100X125-S	100 mm	125 mm
EM-FVBC100X160-S	100 mm	160 mm
EM-FVBC100X200-S	100 mm	200 mm
EM-FVBC100X250-S	100 mm	250 mm
EM-FVBC100X320-S	100 mm	320 mm
EM-FVBC100X400-S	100 mm	400 mm
EM-FVBC100X500-S	100 mm	500 mm

For cylinder dimensional drawings please see page 347

