

Screwed-head cylinders

series HB

DESCRIPTION

Cylinders series "HB" are manufactured to be fixed on machine edges without the use of mountings. The end cap acts as a mounting device in the versions: hinge-mounted, screw-mounted, feet-mounted, front flange-mounted, rear flange-mounted. The double acting hinge-mounted versions and rear flange-mounted are available with reduced end caps. Cylinders series "HB" cannot be supplied with magnetic sensors.

TECHNICAL DATA

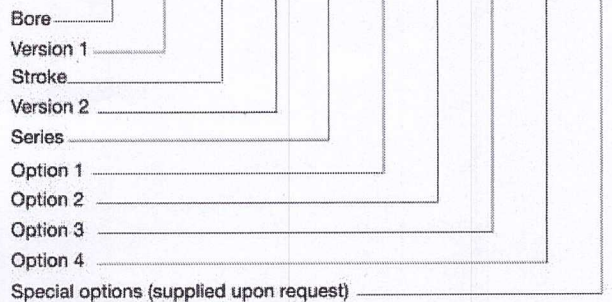
Operating pressure	1,5 ± 10 bar
Working temperature	0 ÷ +80 °C (-20 °C with dry air) 0 ÷ +150 °C with seals for high temperatures (-20 °C with dry air)
Fluid	Filtered, unlubricated or continuous lubricated compressed air
Versions	Double acting; Single acting front spring; Single acting rear spring; Through rod
Bore	Ø 20, 27, 35, 40, 50, 58, 70, 85, 100
Port size	Ø 20 ÷ 50 = G 1/8 Ø 58 ÷ 100 = G 1/4
Standard strokes (mm)	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100, 150, 200, 250
Max. strokes double acting (mm)	Ø 20 - 27 = 1000; Ø 35 ÷ 50 = 1500; Ø 58 ÷ 100 = 2000
Maximum strokes single acting	mm 20 27 35 40 50 58 70 85 100
Maximum strokes single acting (version "S") with spacers	mm 20 25 35 60 70 60 70 90 100
Maximum strokes single acting (version "S") with spacers	mm 20 27 35 40 50 58 70 85 100 mm 60 75 105 180 210 180 210 270 300

MATERIALS

End caps	Aluminium alloy
Cylinder barrel	Ø 20 ÷ 100: Extruded tube, anodized aluminium alloy; Extruded tube, brass (supplied upon request)
Piston rod	C45 chromium-plated steel AISI 303 rolled stainless steel
End cap nut	Steel
Piston rod bearing	Bronze-iron 20%, sintered, self-lubricating
Piston guide shoe	Acetal resin
Piston	Aluminium alloy
Seals	NBR rubber Viton®
Springs	Springs steel

ORDER KEY

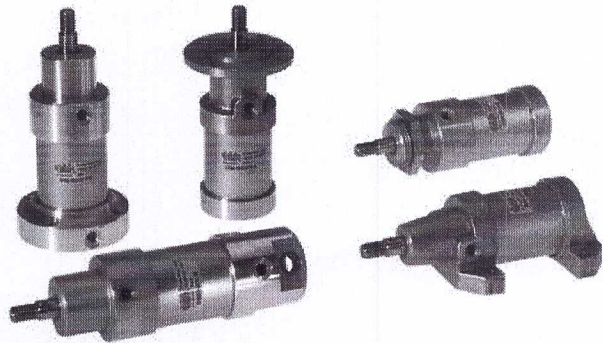
20 / 50 D FAB - - - - S*



• See technical data on page 0.12

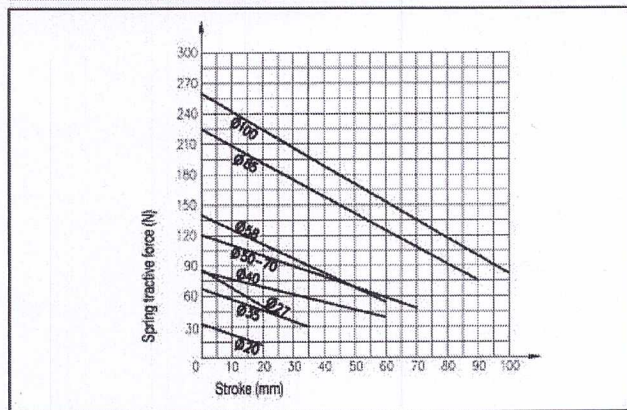
ORDER EXAMPLES

- Basic cylinder Ø27, 25 mm stroke, single acting front spring, feet-mounted 27/25 SPB
- Cylinder Ø20, through rod, 100 mm stroke, double acting, feet-mounted 20R100 DPB
- Basic cylinder Ø58, 50 mm stroke, double acting, hinge-mounted, stainless steel piston rod, brass cylinder barrel 58/50 DVB 1 4
- Basic cylinder Ø35, 70 mm stroke, double acting, hinge-mounted, reduced end cap 35/70 DCBC



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SPRING THEORETICAL TRACTIVE FORCE



VERSION 1

/ Basic cylinder R Through rod*

VERSION 2

D Double acting Y Single acting front spring**
S Single acting front spring

SERIES

CB Hinge-mounted FAB front flange-mounted
VB Screw-mounted FPB Rear flange-mounted
PB Feet-mounted

OPTION 1

C Reduced end cap***

OPTION 2

1 Stainless steel piston rod 3 Stainless steel piston rod and seals for high temperatures
2 Seals for high temperatures

OPTION 3

4 Brass cylinder barrel

OPTION 4

5 Rod wipers

* Series "FPB" excluded
** Dimensions are different from the versions "D" and "S"
*** Supplied only with series "DCB", "YCB", "DFPB", "YFPB" and with the version "R" of series "DFAB" and "DVB"

SPARE PARTS

SEALS KIT			
NBR	Ø/SG/HB	For high temperatures	Ø/SG/HB2
Through rod, NBR	Ø/SG/R/HB	Through rod, for high temperatures	Ø/SG/R/HB2

R