

XLB 50/200 LXEB. Oil braking cylinder, piston 50mm, stroke 200mm

Item no. FL-XLB-50/200-LXEB

Manufacturer Fluidics equipment

EAN 4050571800208

Oil braking cylinder, piston 50mm, stroke 200mm

TECHNICAL DATA

HS-Code	84123100
Weight	4.9 kg



STANDARDS & COMPLIANCE

ISO 15552

DESCRIPTION

Advantages:

- The hydraulic brake cylinder is delivered complete with all the required control valves and ready to be connected,
- Installation dimensions according to ISO 15552,
- Magnetic pistons (up to piston Ø 100 mm) and adjustable end position damping are standard,
- Using the integrated hydraulic brake in the hollow piston rod, the insertion and retraction speed of the cylinder can be controlled almost independently of the load,
- The main mounting dimensions and technical features (magnetic pistons and adjustable end position damping) therefore meet the requirements of a standard profile cylinder in accordance with ISO 15552,
- To mount the cylinder, standard fastening material can be used in accordance with ISO 15552
- Small, compact installation dimensions as no external brake unit is needed,
- The modular design allows for a variety of control options for the forward and return strokes using a combination of flow control valves, STOP valves and SKIP valves

Materials:

Cover, bottom and tube: anodized aluminium, piston rod: hard chromium plated steel, piston: aluminium with magnetic ring, seals: NBR / Polyurethane

Temperature range:

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-10 to +80 °C

Operating pressure:
max. 10 bar

Movement speed:
40 - 6000 mm/min (depending on cylinder diameter and valves installed)

Cylinder switch type:
B

The following control elements can be combined for the forward and return stroke as desired:

1: Speed control:

The speeds of extension and retraction can be regulated by adjusting the choke spindle. You can choose between the standard flow control (Setting done using several rotations) and the scaled bi-directional flow control valve (Setting on a scale of 0 to 270°).

2: STOP valve:

The movements of extension and retraction can be stopped or blocked by using this valve. If the valve is open, the cylinder travels at the set speed. If it is closed, the cylinder remains at its current position. As a standard, the valve is delivered closed (NC) and with its basic settings. The controller could be pneumatic or electric. Application example: Positioning of the cylinder

3: SKIP valve:

Using this valve allows the stroke to travel at two different speeds. With the valve open, the cylinder travels rapidly, while with the valve being closed, it travels at a speed set using the bi-directional flow control valve. As a standard, the valve is delivered closed (NC) and with its basic settings. The controller could be pneumatic or electric. Application example: The drilling unit travels rapidly up to the point where the drill touches the workpiece. Drilling then takes place at a slower set speed.

Optional:

Speed controller (flow control valve (both directions)): For forward stroke, choke with speed spindle (unscaled) -A, for forward stroke, scaled choke (270°) -B (-D)*, for return stroke, choke with speed spindle (unscaled) -E, for return choke, scaled choke (270°) -F (-H)* for forward and return stroke, 2 x choke with speed spindle (unscaled) -K, for front and return stroke, 2 x scaled choke (270°) -L (-N)*
STOP valve: no STOP valve -X, for forward strokes, STOP valve NC (not actuated; blocked) -A, for forward strokes: STOP valve NO (not actuated; free) -B, for return strokes, STOP valve NC (not actuated; blocked) -E, for return strokes, STOP valve NO (not actuated; free) -F, for forward and return strokes, 2 x STOP valve NC (not actuated; blocked) -K, for forward and return strokes, 2 x STOP valve NO (not actuated; free) -L
SKIP-valve: no SKIP-valve -X, for forward stroke, SKIP-valve NC (non-confirmed creep speed) -A, SKIP-valve NC (non-confirmed creep speed) -B, for return stroke, SKIP-valve NC (non-confirmed creep speed) -E, for return stroke, SKIP-valve NO (non-confirmed high-speed) -F, for forward and reverse

strokes, 2 x SKIP-valves NC (non-confirmed creep speed) -K, for forward and return strokes , 2 x SKIP-valves (non-confirmed high-speed) -L

Actuation: pneumatic or no actuation- A, 24 V DC -B, 230 V AC -C, 12 V DC -D, 24 V AC -E

Piston diameter [mm]	50
Stroke [mm]	200
Speed controller (flow control valve)	for forward and return strokes, scaled (270°)
SKIP valve	for the return stroke, NC (unoperated creep speed)
Actuation	24 V DC
Piston force forward stroke / return stroke at 6 bar [N]	1110 / 870
A (piston rod thread)	M 16x1,5
J (compressed air port)	G 1/4"
B [mm]	25
C [mm]	40
D [mm]	13
E [mm]	40
F [mm]	32
G [mm]	27
H [mm]	116
K [mm]	6
M [mm]	65
N [mm]	46,5
O [mm]	46
P [mm]	3
RT	M 8
CH [mm]	17