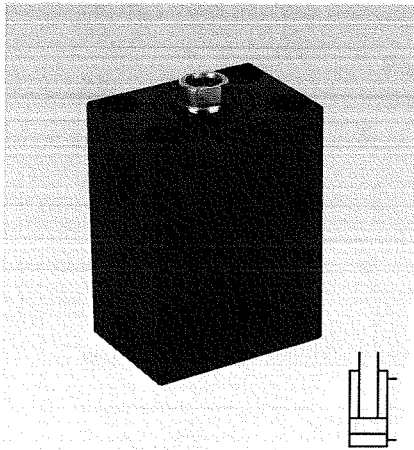




Block Cylinders
double acting, max. operating pressure 500 bar



Advantages

- 11 sizes each with up to 5 stroke lengths available
- Large range of diameter
Piston Ø 16 up to 200 mm
- Large range of stroke 8 up to 200 mm
- Large range of force
2 kN for piston Ø 16 mm and 100 bar
1570 kN for piston Ø 200 mm and 500 bar
- Large retention force
- Compact block design
- Many fixing possibilities
- Many connecting possibilities
- Case-hardened piston rod
- Alternatively NBR or FKM seals and wiper
- Operating temperature up to 200 °C with FKM seals
- Minimum leakage
- Maintenance free

Application

Double-acting block cylinders can be used universally for all hydraulically-operated linear movements.

- Positioning
- Clamping
- Supporting
- Locking
- Bending
- Riveting
- Punching
- Moving
- Opening and closing
- Locking and unlocking
- Lifting and lowering
- Pushing and pulling

Function

The double-acting functioning allows a force generation in both axial directions (force to push and to pull). This guarantees a high function safety as well as exactly calculable and repetitive times required for the stroke.

Material

Cylinder housing: high alloy steel, black oxide*
Piston: case-hardening steel, hardened and ground

O-rings and wipers:

NBR = nitrile-butadiene rubber
Temperature range: -25 up to +100 °C
FKM = fluor caoutchouc
Temperature range: -15 up to +200 °C

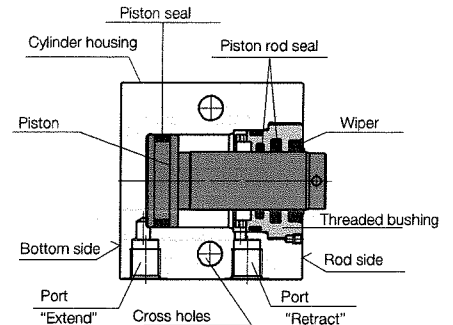
Glydrings and back-up rings:

PTFE = polytetrafluor ethylene
Temperature range: -45 up to +200 °C

Hydraulic fluid: see data sheet A 0.100
Special versions for other hydraulic fluids and operating temperatures up to +250 °C are available on request.

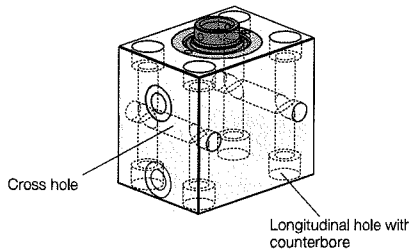
* from size 1549 black matt lacquered

Design



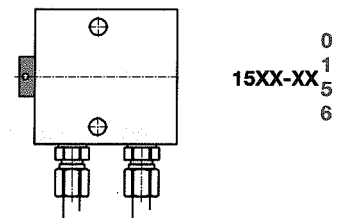
Fixing possibilities

Possible mounting holes



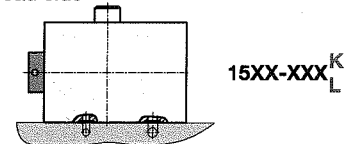
Hydraulic connecting possibilities

Pipe thread

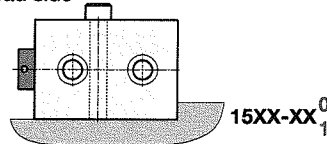


Flange with O-ring sealing

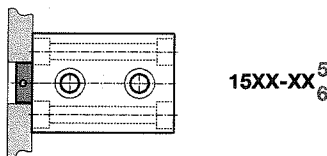
● Broad side



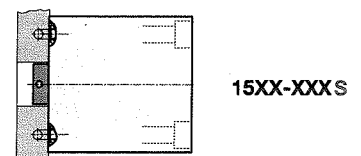
● Broad side



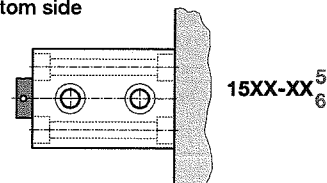
● Rod side



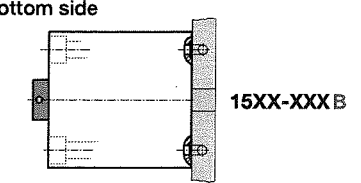
● Rod side



● Bottom side



● Bottom side



Functioning:	D.A. push cylinder
Piston Ø [mm]	16 25 32 40 50 63 80 100 125 160 200
Stroke [mm]	16 20 25 30 32 40 50 63 80 100 160 200
Operating pressure [bar]	500
Operat. temperature [°C]	100 200
Sealing:	FKM NBR
Material:	Steel
Stroke end cushioning:	without
Position monitoring:	not possible

Results 846 from 846 Products

Part No.	Description 1	Description 2	Data sheet
154421BD	Block cylinder, double acting	pistonØ 32mm, str. 200mm,FKM	B15094
154421C	Block cylinder, double acting	pistonØ 32mm, stroke 200mm,FKM	B15094
154421D	Block cylinder, double acting	pistonØ 32mm, str. 200mm,FKM	B15094
154421E	Block cylinder, double acting	pistonØ 32mm, str. 200mm,FKM	B15094
154421F	Block cylinder, double acting	pistonØ 32mm, str. 200mm,FKM	B15094
154421L	Block cylinder, double acting	FKM,Øpiston 32 mm,stroke 200mm	B15094
154421LQ	Block cylinder, double acting	pistonØ 32mm, str. 200mm,FKM	B15094
154421S	Block cylinder, double acting	FKM,Øpiston 32 mm,stroke 200mm	B15094
154421SC	Block cylinder, double acting	pistonØ 32mm, str. 200mm,FKM	B15094
1545100	Block cylinder, double acting	Ø piston 40 mm,stroke 25 mm	B15094
1545100E	Block cylinder, double acting	pistonØ 40mm, stroke 25mm	B15094
1545100F	Block cylinder, double acting	pistonØ 40mm, stroke 25mm	B15094
1545100K	Block cylinder, double acting	Ø piston 40 mm,stroke 25 mm	B15094
1545100KQ	Block cylinder, double acting	pistonØ 40mm, stroke 25mm	B15094
1545101	Block cylinder, double acting	FKM,Øpiston 40 mm,stroke 25 mm	B15094
1545101E	Block cylinder, double acting	pistonØ 40mm, stroke 25mm,FKM	B15094
1545101F	Block cylinder, double acting	pistonØ 40mm, stroke 25mm,FKM	B15094
1545101K	Block cylinder, double acting	FKM,Øpiston 40 mm,stroke 25 mm	B15094
1545101KQ	Block cylinder, double acting	pistonØ 40mm, stroke 25mm,FKM	B15094
1545105	Block cylinder, double acting	Ø piston 40 mm,stroke 25 mm	B15094

- Selection aids
- Hydraulic cylinders
- Hydro-cylinders
- Universal cylinders
- Threaded-body cylinder
- Block cylinders
 - B1.5091 Block cylinders
 - B1.5094 Block cylinders
 - B1.520 Block cylinders
 - B1.530 Block cylinders
 - B1.5401 Built-in elements
 - B1.542 Block cylinders
 - B1.552 Block cylinders
 - B1.553 Block cylinders
 - B1.554 Block cylinders
 - B1.560 Block cylinders, vi
 - B1.5601 Built-in Anti-Rot
 - B1.570 Pull-type cylinders
 - B1.738 Block cylinders vit
- Hydraulic slides
- Hollow-piston cylinders
- Electric clamping elements
- Hydraulic clamping elements
- Hydraulic work supports