BS
LINEAR BLOCK CYLINDERS

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CYLINDER TYPE	BS10	BS12	BS16	BS20	BS25	BS32	BS36
Metal wiper (option)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Maximum operating pressure (Bar)	500	500	500	500	500	500	500
Maximum pushing force (Kn) at 500 bar	98.6	15.3	24	39.4	61.5	96.2	162.5
Maximum pulling force (Kn) at 500 bar	59.8	9.8	14.2	24	37.5	56.8	112.7
Rod diameter (mm)	10	12	16	20	25	32	36
Piston diameter (mm)	16	20	25	32	40	50	65
Total cylinder stroke (mm)	16	16	20	25 / 50	50	50	25
Piston area/pushing (cm^2)	2.01	3.14	4.91	8.04	12.57	19.63	33.18
Piston area/pulling (cm^2)	1.22	2.01	2.9	4.9	7.66	11.6	23
Oil volume/ pushing (cm^3)	3.2	5	9.8	20.1 / 40.2	62.9	98.2	83
Oil volume /pulling (cm^3)	2	3.2	5.8	12.3 / 24.5	38.3	58	57.5

In the standard version, linear BS block cylinders of HYDROBLOCK are not equipped with a piston rod guide system. For this reason, no particular measures are required when mounting accessories to this cylinder type. We recommend, however, fixing the piston rod when screwing in the mounting screw.

NOTE: In addition, a stop should be provided on the mounting support behind the cylinder in order to prevent resulting shear forces from acting exclusively on the mounting screws.

BS10.0

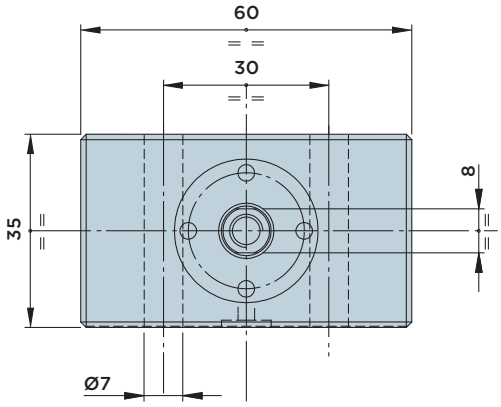
DOUBLE-ACTING BLOCK CYLINDER WITH **FLANGE**

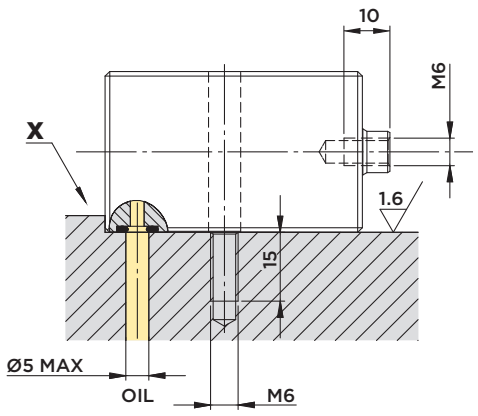
MAX. OPERATING PRESSURE = 500BAR

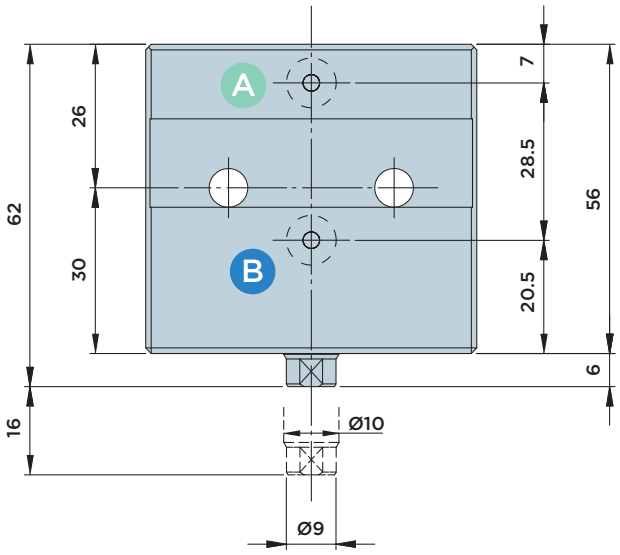
A : Extension

B : Retraction

INSTALLATION DIMENSIONS







Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Included in the scope of supply:
- Mounting screws M6x45 DIN 912/12.9 grade
- O-Rings Ø6.07x1.78

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	16	2.01	1.22	3.2	2

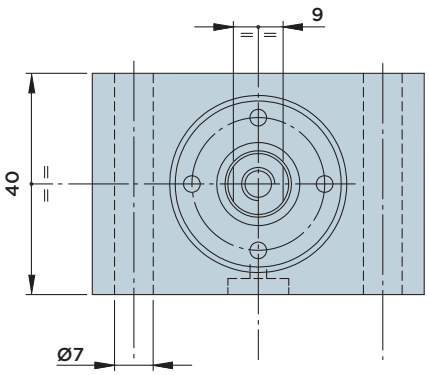
BS12.0

DOUBLE-ACTING BLOCK CYLINDER WITH **FLANGE**

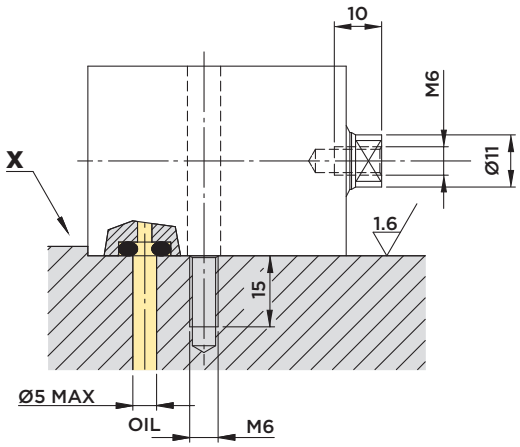
MAX. OPERATING PRESSURE = 500BAR

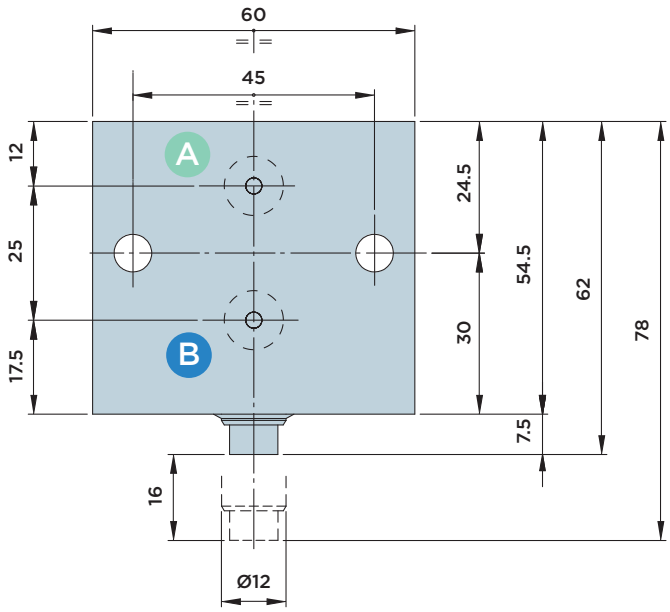
A : Extension

B : Retraction



INSTALLATION DIMENSIONS





Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Included in the scope of supply:
- Mounting screws M6x50 DIN 912/12.9 grade
- O-Rings Ø4.34x3.53

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA		TOTAL OIL VOLUME	
		Cm^2		Cm^3	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	16	3.14	2.01	5	3.2

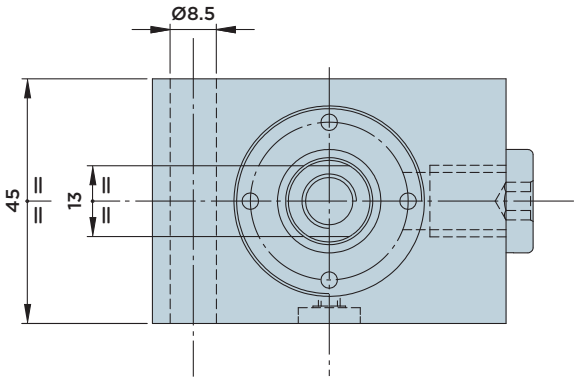
BS16.0

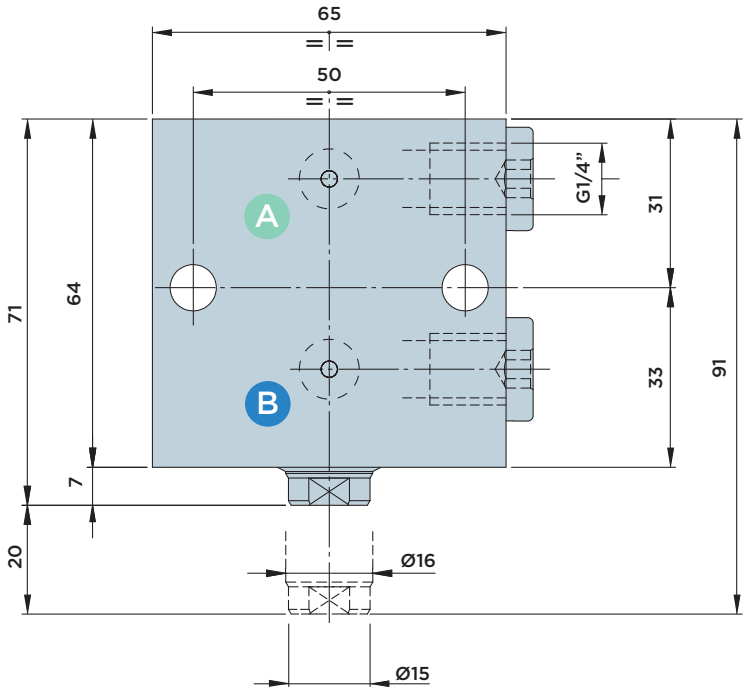
DOUBLE-ACTING BLOCK CYLINDER WITH **FLANGE** AND **IN-LINE PORTS**

MAX. OPERATING PRESSURE = 500BAR

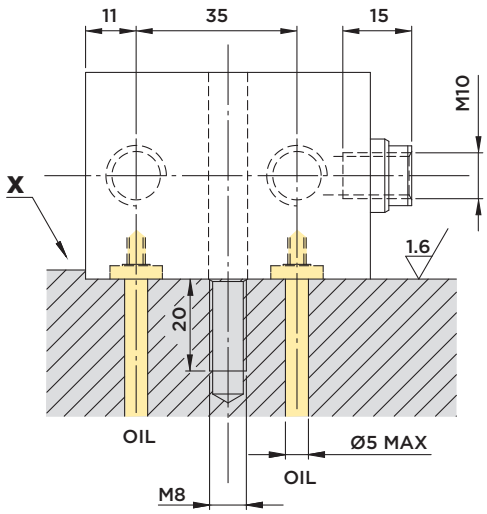
A : Extension

B : Retraction





INSTALLATION DIMENSIONS



Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Included in the scope of supply:
- Mounting screws M8x60 DIN 912/12.9 grade
- O-Rings Ø4.34x3.53

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	20	4.91	2.9	9.8	5.8

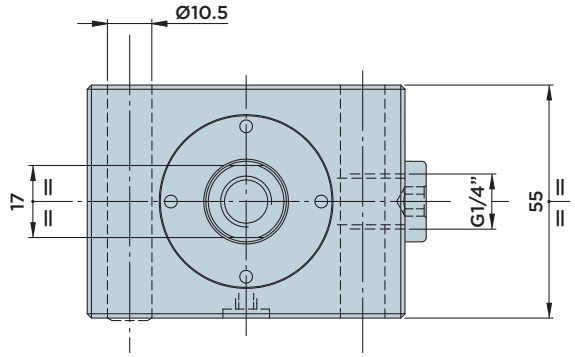
BS20.25

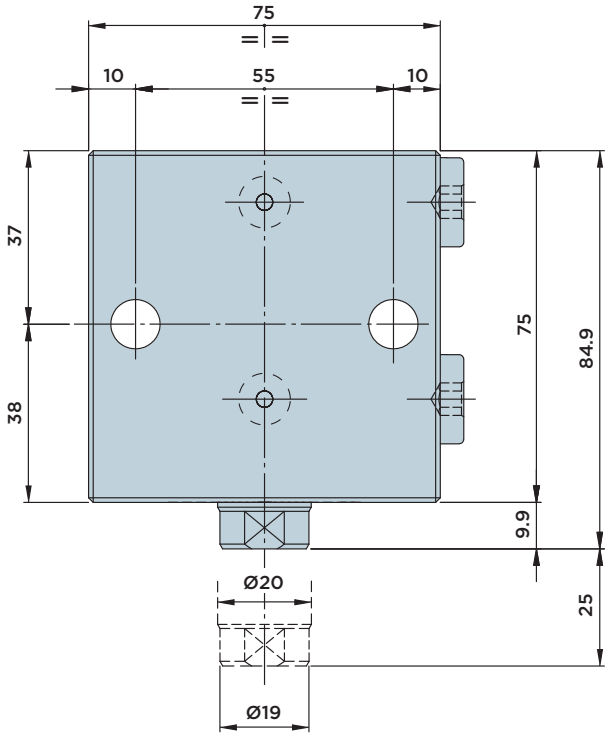
DOUBLE-ACTING BLOCK CYLINDER WITH **FLANGE** AND **IN-LINE PORTS**

MAX. OPERATING PRESSURE = 500BAR

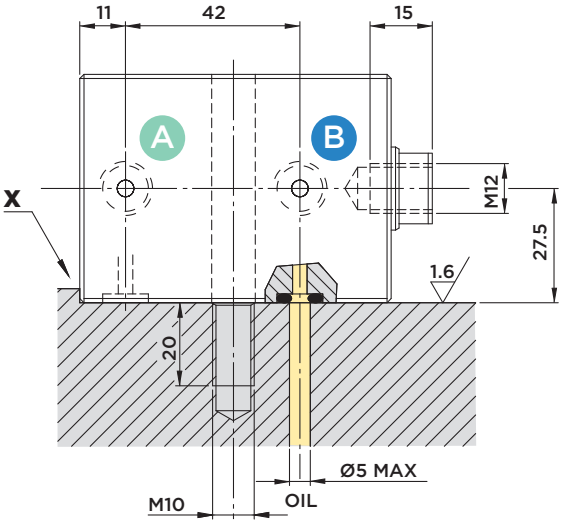
A : Extension

B : Retraction





INSTALLATION DIMENSIONS



Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Included in the scope of supply:
- Mounting screws M10x70 DIN 912/12.9 grade
- O-Rings Ø6.02x2.62

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	25	8.04	4.9	20.1	12.3

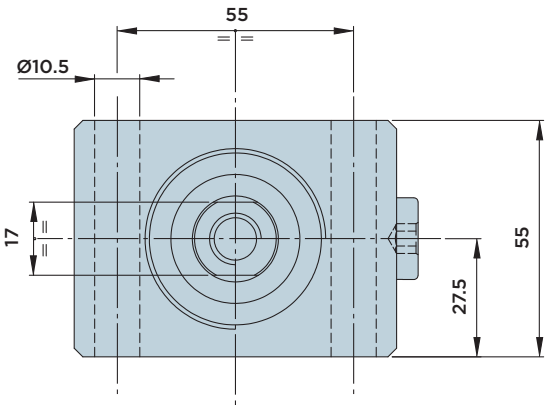
BS20.50

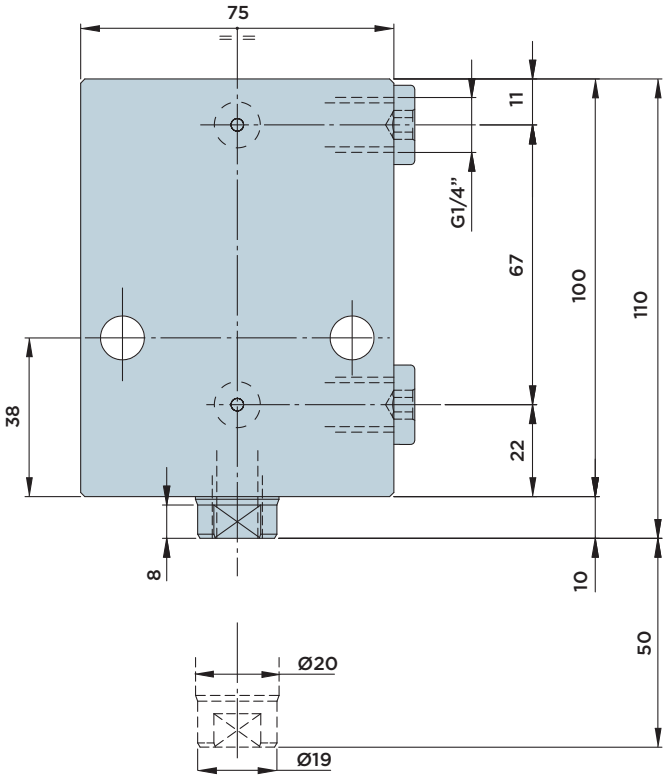
DOUBLE-ACTING BLOCK CYLINDER WITH **FLANGE** AND **IN-LINE PORTS**

MAX. OPERATING PRESSURE = 500BAR

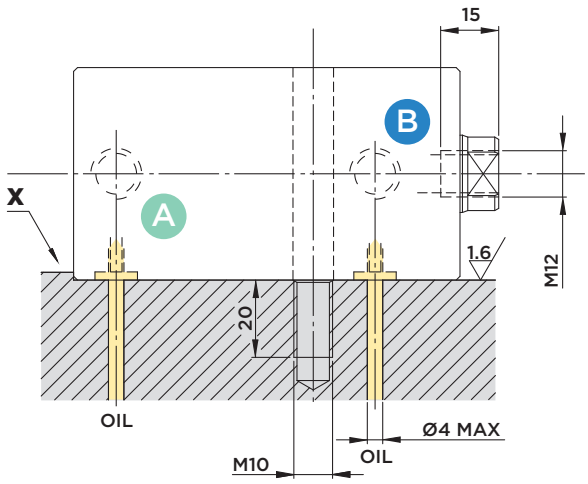
A : Extension

B : Retraction





INSTALLATION DIMENSIONS



Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Included in the scope of supply:
- Mounting screws M10x70 DIN 912/12.9 grade
- O-Rings Ø6.02x2.62

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	50	8.04	4.9	40.2	24.5

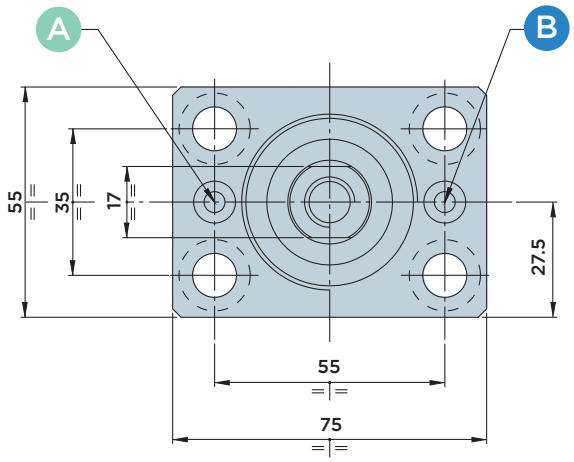
BS20.50 **F**

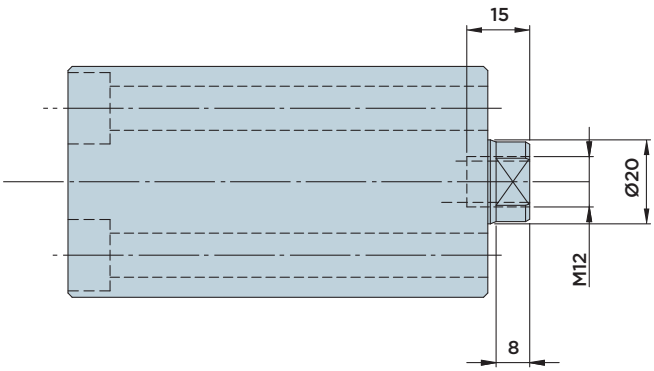
DOUBLE-ACTING BLOCK CYLINDER WITH **FRONT FLANGE**

MAX. OPERATING PRESSURE = 500BAR

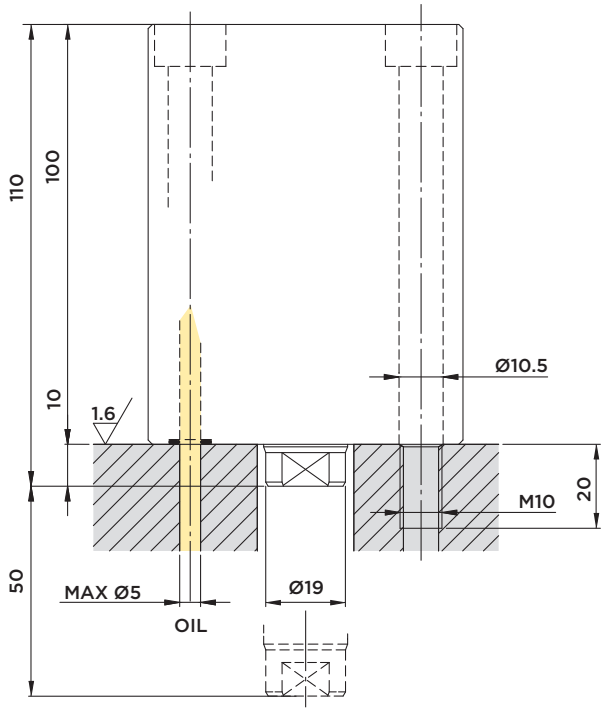
A : Extension

B : Retraction





INSTALLATION DIMENSIONS



Included in the scope of supply:
- O-Rings Ø6.75x1.78

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	50	8.04	4.9	40.2	24.5

BS25.0

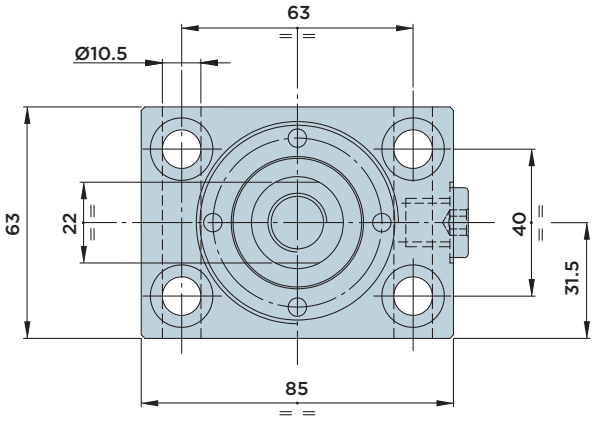
DOUBLE-ACTING BLOCK CYLINDER WITH IN **FLANGE** AND **IN-LINE PORTS**

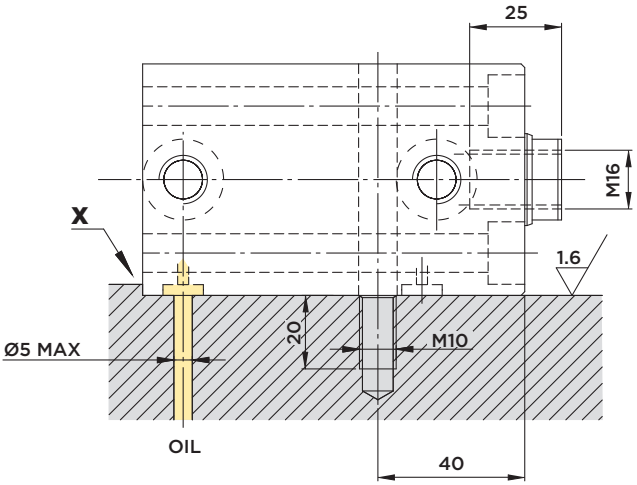
MAX. OPERATING PRESSURE = 500BAR

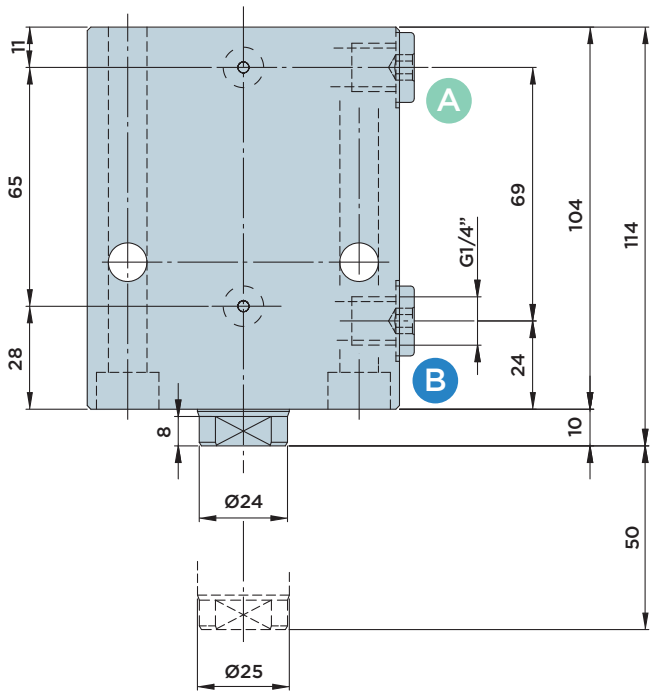
A : Extension

B : Retraction

INSTALLATION DIMENSIONS







Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Included in the scope of supply:
- O-Rings Ø4.34x3.53

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	50	12.57	7.66	62.9	38.3

BS32.0

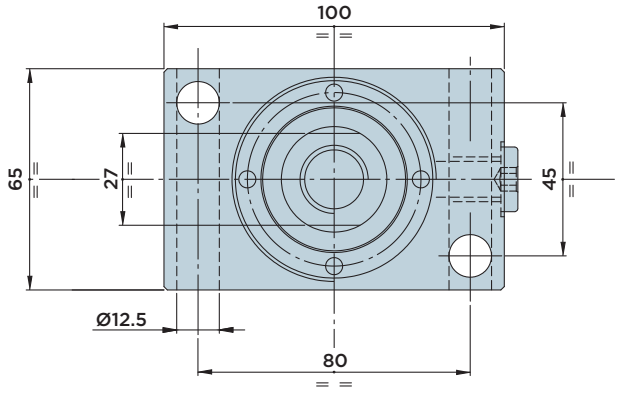
DOUBLE-ACTING BLOCK CYLINDER WITH **FLANGE** AND **IN-LINE PORTS**

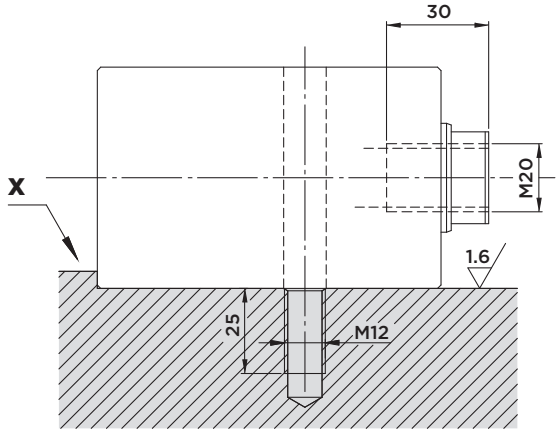
MAX. OPERATING PRESSURE = 500BAR

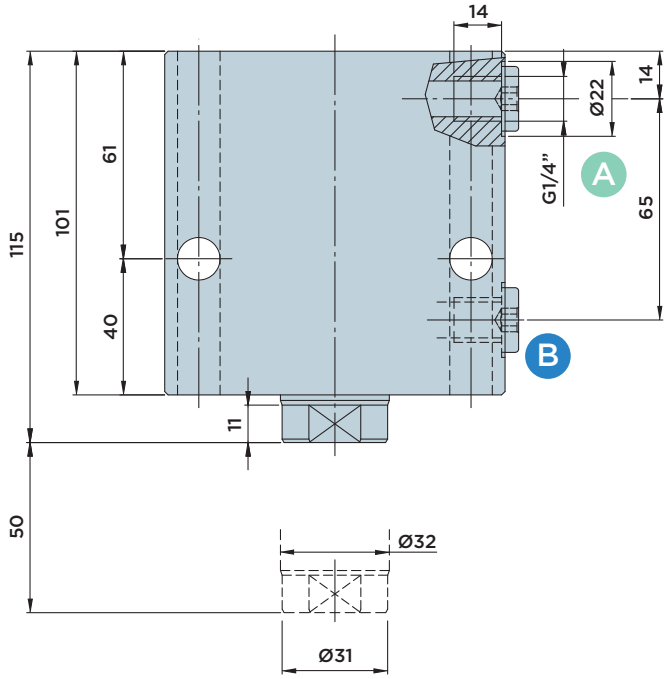
A : Extension

B : Retraction

INSTALLATION DIMENSIONS







Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	50	19.63	11.6	98.2	58

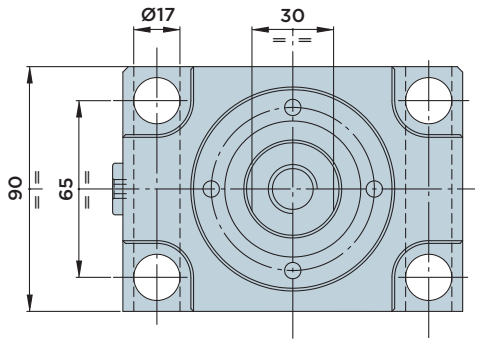
BS36.0

DOUBLE-ACTING BLOCK CYLINDER WITH **FLANGE**

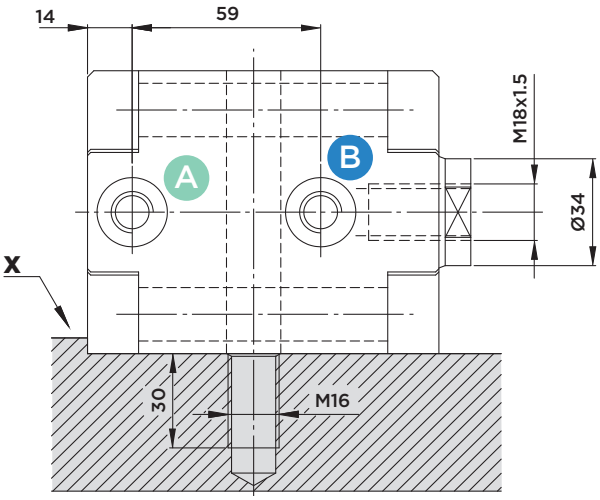
MAX. OPERATING PRESSURE = 500BAR

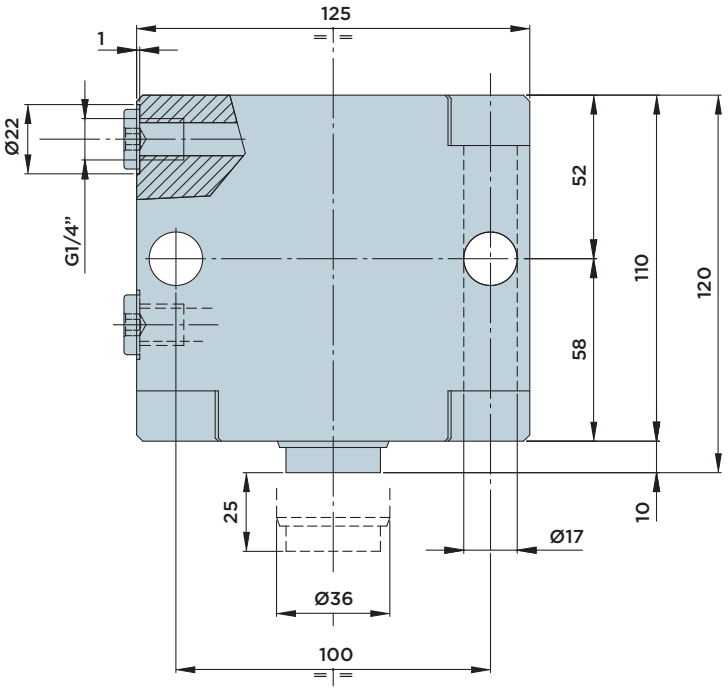
A : Extension

B : Retraction



INSTALLATION DIMENSIONS





Attention:
We recommend providing a stop ("**X**" in the figure) on the cylinder mounting support in order to prevent resulting shear forces from acting exclusively on the mounting screws.

Material:
- Piston/rod: Case-hardened steel, ground.
- Body: Free machining steel, nitrocarburized.

Note:
Customized versions are available upon request. Please contact HYDROBLOCK if you have special requirements in terms of stroke or mounting conditions.

STROKE mm		EFFECTIVE PISTON AREA Cm²		TOTAL OIL VOLUME Cm³	
		PUSHING	PULLING	PUSHING	PULLING
TOTAL	25	33.18	23	83	57.5

BS
LINEAR BLOCK CYLINDERS