

# Mini hydraulic power pack type HR 050

## Product documentation



Operating pressure $p_{\max}$ :	200 bar
Effective volume (tank):	0.23 l



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**1****Overview mini hydraulic power pack type HR 050**

Compact hydraulic power packs are a type of hydraulic power pack. They are characterised by a highly compact design, since the motor shaft of the electric drive also acts as the pump shaft. Compact hydraulic power packs are designed to supply hydraulic circuits with hydraulic fluid.

The mini hydraulic power pack type HR 050 is distinguished by its inboard radial piston pump in the smallest of spaces. The unit is reversed by reversing the direction of rotation of the motor, eliminating the need for a switching valve. The integrated temperature switch ensures an overload protection for the motor.

- radial piston pump directly integrated in pump carrier
- round, transparent tank with M8x1 filling screw

**Features and benefits**

- intermittent operation
- 12 V DC
- different mounting position
- ingress protection class IP67

**Intended applications**

- automotive engineering
- sport boats, jet skiing
- agricultural technology, construction machinery, commercial vehicles
- industry
- not applied for use in hazardous places and direct sunlight



*Mini hydraulic power pack type HR 050*



## 2.2 Tank size

Coding	tank volume (l)	usable volume (l)	length L (mm)
1	0.1	0.082	60
3	0.3	0.228	150

## 2.3 Mounting position

Coding	Description
N	horizontal, mounting plate upwards
V	vertical, tank upwards

## 2.4 Pump

Coding	Volume flow $Q_{\max}$ (l/min)
02	0.6
04	0.95

## 3 Parameters

### 3.1 General data

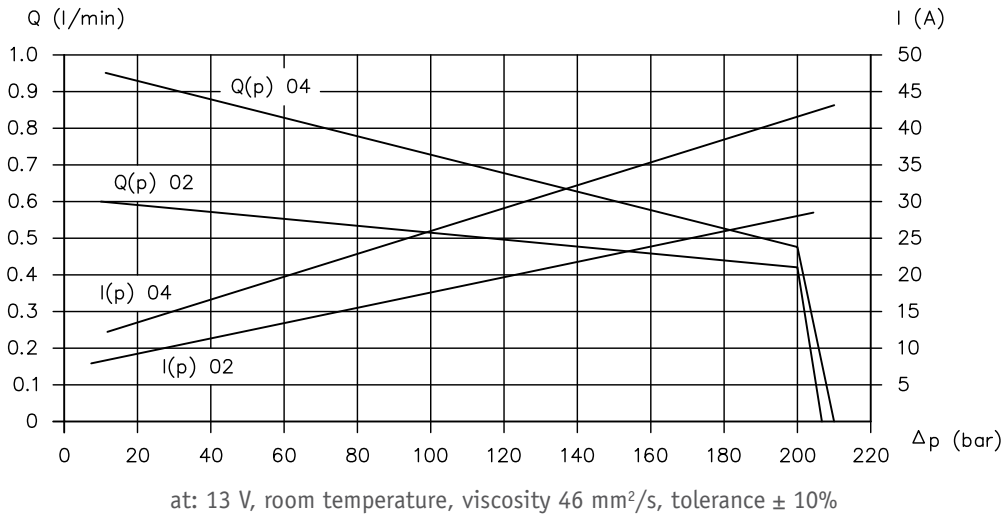
<b>Weight</b>	1.5 kg without hydraulic fluid (depends on configuration)
<b>Installation position</b>	horizontal (mounting plate upwards) vertical (tank upwards)
<b>Mounting</b>	drilling for screws 2 x M6 (G 1/8"), thread depth 10 mm, displacement 36 mm
<b>Hydraulic connection</b>	2 x G 1/8" internal thread and banjo bolts
<b>Ambient temperature</b>	-25 to +80 °C

### Hydraulic parameters

Hydraulic fluid: mineral oil according to DIN 51524, other media on request

<b>Volume flow</b>	0.95 l/min
<b>Operating pressure</b>	200 bar
<b>Pump design</b>	radial piston pump with 3 or 5 pistons
<b>Reverse operation</b>	possible
<b>Temperature hydraulic fluid</b>	-40 to +70 °C depend on hydraulic fluid
<b>Tank pressure</b>	-0.5 to 2 bar
<b>Burst pressure</b>	500 bar
<b>Viscosity</b>	10 - 500 mm <sup>2</sup> /s
<b>Cleanliness level</b>	20/18/15 (ISO 4406)

## Characteristic lines



## 3.2 Electrical data

### Motor 12 V DC

Voltage	12 V DC
Current consumption	see characteristic lines, max. 45 A
Overload protection	temperature switch
Power	Q02: 372 W Q04: 540 W
Duty cycle	interval operation: S3-10 % 2 min exception Q04: as of 150 bar S3-1 % 2 min (only)
Electrical connection	ferrules, cable 0.7 m flat plug 9.5 x 1.2 mm, cable 0.7 m
Protection class	IP67 concerning to DIN EN 60529

## Electrical connections

### 12 V DC

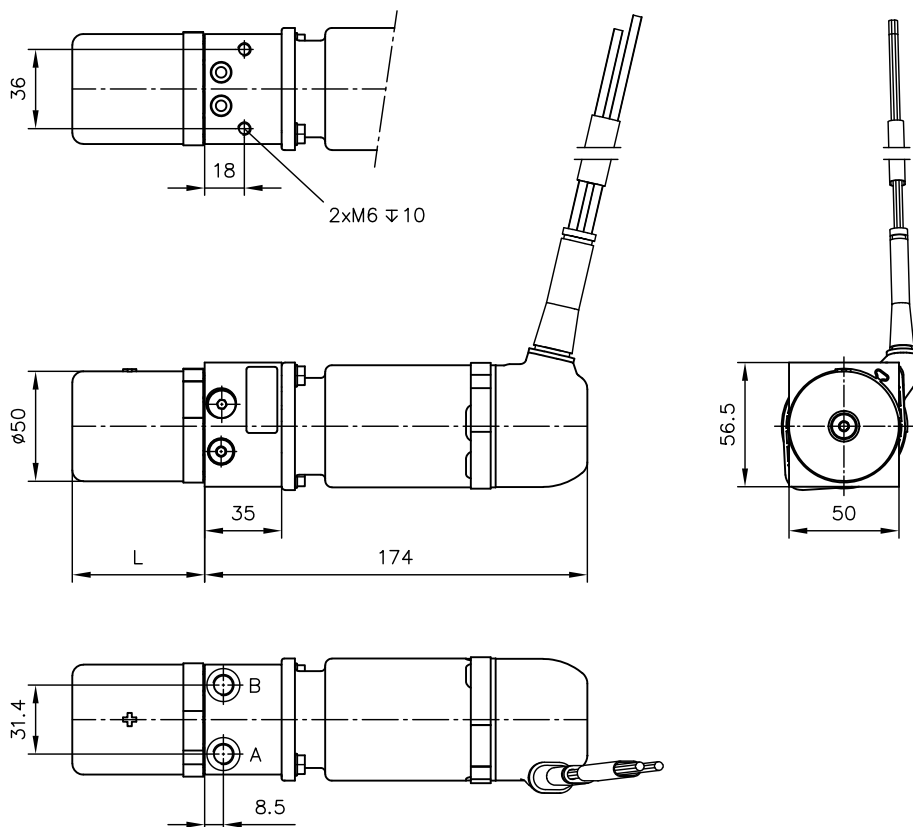




## 4 Dimensions

All dimensions in mm, subject to change.

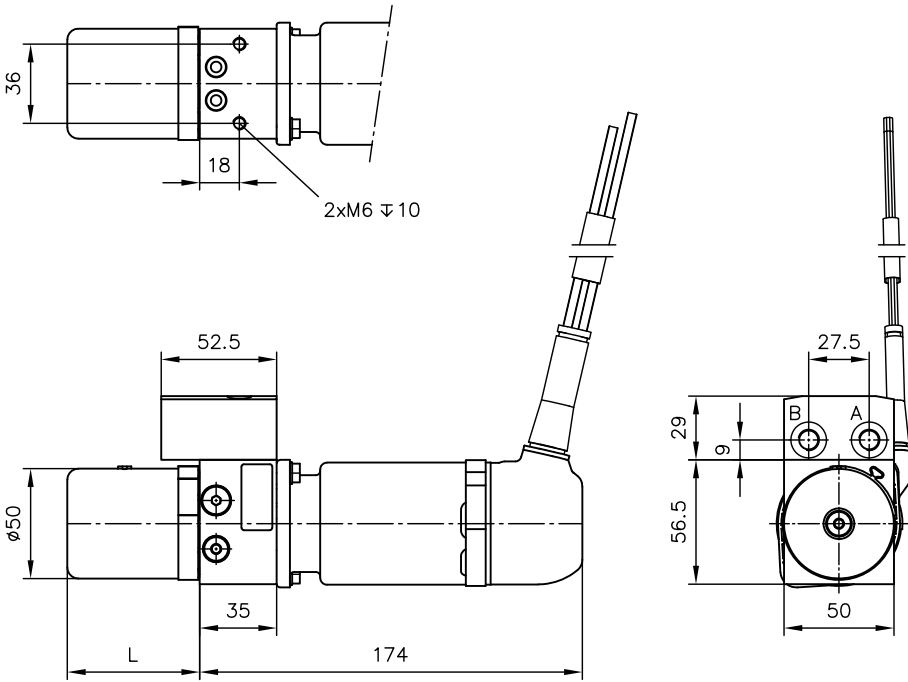
### 4.1 Basic



$L$  tank length

$L$  see "Tank size", page 6

**4.2 COMFORT**



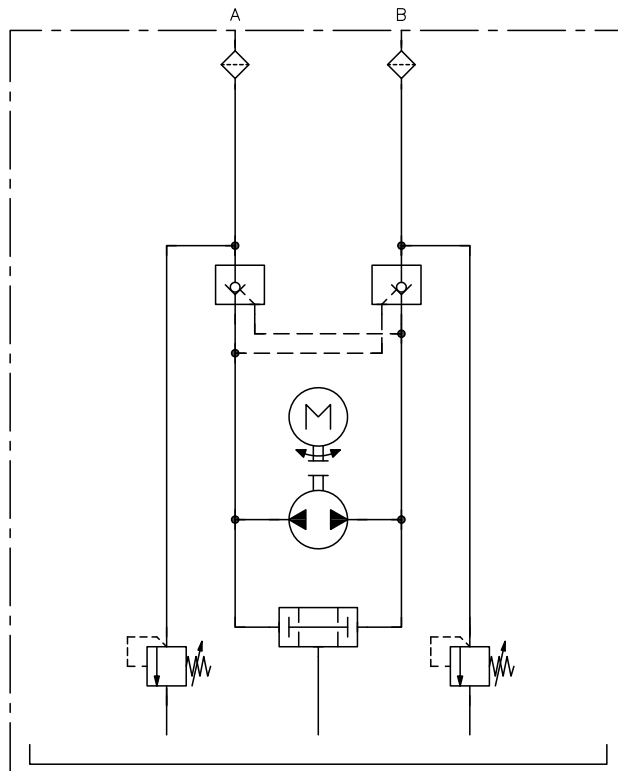
L Tank length

L see "Tank size", page 6

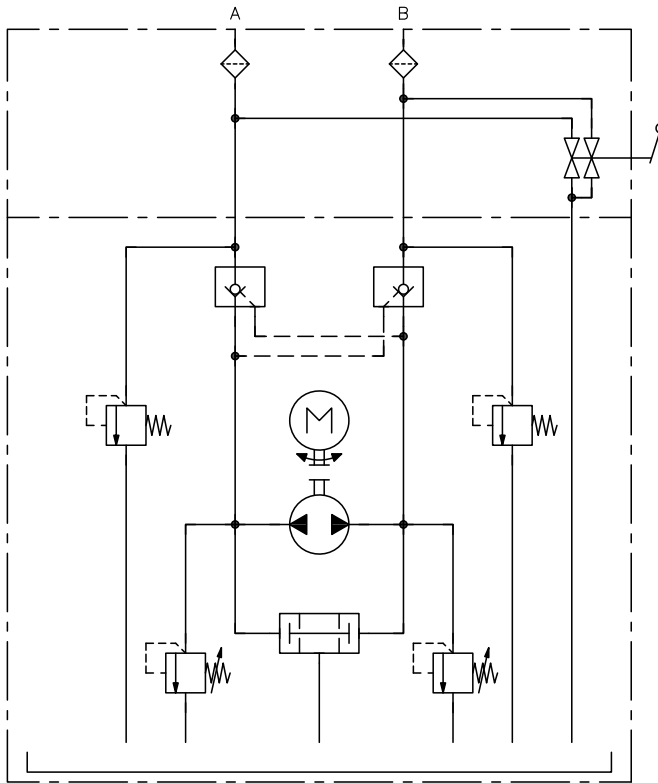
## 5 Other information

### 5.1 Circuit diagram

BASIC



COMFORT



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