# **Compact hydraulic power packs**





# Compact hydraulic power pack type NPC

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 motor also acts as the pump shaft.

The ready-for-connection compact hydraulic power pack type NPC is suitable for hydraulic systems with operating mode S2. Type NPC includes a DC motor. The power pack is available in a horizontal or vertical version. Either single-circuit systems or dual-circuit systems can be selected. A radial piston pump or an external gear pump can be used as a hydraulic pump.

The compact hydraulic power pack type NPC is suitable for use as a highly compact control system, since the pressure-limiting valve is integrated and valve banks can be directly mounted.

#### Features and benefits:

- Very low space requirements and easy to transport
- Supplied with direct current at 12V DC or 24V DC
- Particularly suited to mobile applications and construction site operation
- Long lifetime and excellent reliability achieved by using radial piston pumps
- Environmentally sound thanks to low oil fill volumes and minimum amount of oil to be disposed of
- Low costs for hydraulic fluid
- Co-ordinated range of valves and accessories from the modular system

#### **Intended applications:**

- Riveting
- Brake release for wind power plants
- Hydraulic jigs
- Crimping
- Embossing



Nomen- clature:	Radial piston pump with integrated electric motor (version for 3-phase mains)					
Design:	Oil immersed compact hydraulic power pack for short period operation					
p <sub>max</sub> :	750 bar					
Q <sub>max</sub> :	approx. 1.36 lpm (V <sub>g</sub> = 0.09 - 0.76 cm <sup>3</sup> /rev)					

## Design and order coding example



**Basic type, size** Type NPC, size 11 and 12

#### **Function**

# Symbol:



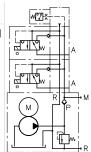
Example circuity:

NPC 11 / 0,87 - 1/170 - R - G 12

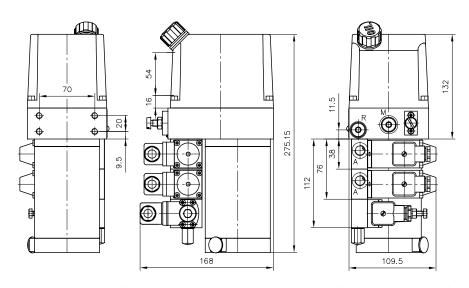
Compact hydraulic power pack type NPC, pump delivery flow approx. 0.87 lpm

BWN 1 - NN - 35 - 1 - G 12

Directly mounted valve bank type BWN with two valve sections and pressure switch for gallery P, solenoid voltage 12V DC



## General parameters and dimensions



	Delivery flow						Max. pressure		
	Q <sub>pu</sub> [lpm]						p <sub>max</sub> [bar]	P <sub>N</sub> [kW]	m [kg]
NPC 11 (24 V)	0.2	0.31	0.44	0.61	0.87	1.05	750	0.1/0.3	6
NPC 11 (12 V)								0.1/0.25	6
NPC 12 (24 V)	0.4	0.65	0.94	1.28	1.71	2.14	750	0.6	8
NPC 12 (12 V)								0.6	8

#### Associated technical data sheets:

• Compact hydraulic power pack type NPC: D 7940

# Directly mountable valve banks:

- Lifting/lowering valve type HSV: D 7032
- Valve bank (directional seated valve) type BWN and BWH:
  D 7470 B/1Valve bank (directional seated valve) type BWN and BWH:
  D 7470 B/1
- Pressure switches type DG: <u>D 5440 E/1</u>, <u>D 5440 E/1</u>,
- Electronic pressure transducer type DT: <u>D 5440 T/1</u>, <u>D 5440 T/2</u>