

Miniature hydraulic power packs type FP

j

This ready for connection hydraulic power pack is used to supply pressurized fluid for low volume actuators such as clamping functions, small lifting platforms with short operation cycles and prolonged idling periods.

The power pack consists of a cover plate, where motor and pump are mounted and fixed to the tank. The electrical source is connected with an electrical lead provided.

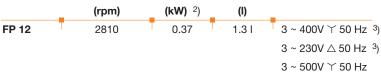
Complete hydraulic control systems can be created by directly mounting various connection blocks and valve banks to the hydraulic power pack.

| Nomenclature: | Radial piston pump with integrated electric motor (version for 3-phase mains) |
|-----------------------|---|
| Design: | Oil immersed compact hydraulic power pack for short period operation |
| P _{max} : | 700 bar |
| Q _{max} : | approx. 2.1 lpm (V _g = 0.75 cm³/rev) |
| V _{usable} : | 1.3 |



Basic types and general parameters

| Basic type | sic type Delivery flow coding | | | | | | | | Symbol | | |
|---|-------------------------------|------------------|----------------|---------------------|----------|--------|--------|--------|--------|-------|--|
| FP 12 | H 0,18 | H 0,28 | H 0,43 | H 0,56 | H 0,73 | H 0,27 | H 0,42 | H 0,64 | H 0,85 | H 1,1 | |
| Q_{max} (lpm) ¹) | 0.34 | 0.54 | 0.77 | 1.0 | 1.37 | 0.52 | 0.81 | 1.15 | 1.6 | 2.1 | |
| p _{max} (bar) | 700 | 700 | 620 | 430 | 220 | 700 | 600 | 400 | 300 | 200 | |
| Additional par | ameter | | | | | | | | | | |
| | Rev. rating | j n _N | P _N | V _{usable} | Nom. vol | tage | | | | | |



(winding protection is standard)

Additional versions

- Cover plate version for installation in customer furnished tanks
- Design without winding protection (type FPX..)
- Design with nom. rev. rating $n_N = 1320$ rpm (type FP 14)
- Type FPW design with 1-phase-motor (1 ~ 230V, 50 Hz), approx. 30-50% reduced performance

tion pressure and can be up to 2.0 x P_{N}

³) also suitable for mains 3 \sim 460 or 265V $\curlyvee \triangle$ 60 Hz

 $^{1})$ Q_{max} applies for mains 50 Hz, Q $\sim \! 1.2$ x Q_{max} for mains 60 Hz

2) The actual power input is dependent on the respective opera-

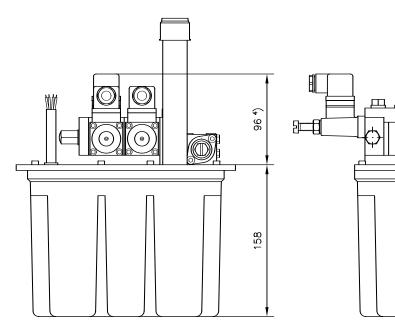
• Completion with connection block and valve banks (see also "Additional information")

Order example

FP 12 H0,42 / K1,3 - A3/420 - BWH1F H N3 - 1 - 1 - G24

Hydraulic power pack type FP 12, pump delivery flow approx. 0.81 lpm (tank V_{usable} approx. 1.3 l), with connection block type A, pressure

Dimensions

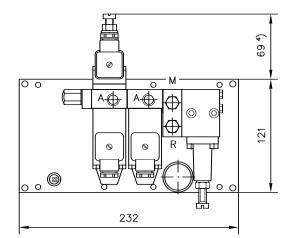


limiting valve (420 bar) and check valve in port P (coding 3) and directly mounted valve bank type BWH 1

Mass (weight) = 6.1 kg (basic pump without oil filling)

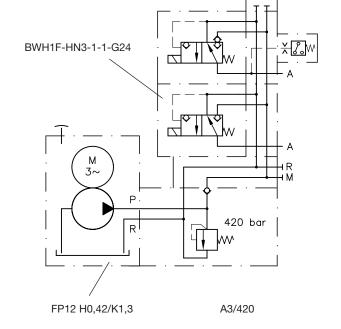
All dimensions in mm, subject to change without notice !

⁴) Dimensions according to the order example



Additional information

| Miniature hydraulic power packs type FP | D 7310 |
|---|------------|
| Connection blocks type A | D 6905 A/1 |
| type B | D 6905 B |
| type C | D 6905 C |



- Directly mountable valve banks type VB D 7302 type BWN(H) D 7470 B/1
- see also "Turn-key solutions from our modular system"

• see also section "Devices for special applications" (Hydraulics for clamping, Devices for up to 700 bar)

For section and page of the additionally listed devices, see type index