

Supplement No. 79



Subject: Compact hydraulic power pack type HK(F) 4.. acc. to pamphlet D 7600-4,
Release November 1999

Flow Q_{max} = approx. 16 lpm (1450 rpm)
Pressure p_{max} = 700 bar (radial piston pump)
= 200 bar (gear pump)

Pre-release

Compact hydraulic power pack type HK(F) 489.. Version with increased motor nominal power 3 kW

Supplementary to the pump executions with nominal motor power 1.5 kW (type HK 43.) and 2.2 kW (type HK 44.) this version has a nominal motor power of 3.0 kW. This version suits to applications with higher power requirements than 1.5 kW or 2.2 kW and up to 3.0 kW Only to be used with reservoir designs "HK..5" and "HK..9"

Order example:

HK 489 LT/1 - H..

Basic type with versions for motor and tank

Basic type and Size	HK(F) 4	HK	Standard
		HKF	With auxiliary blower
Motor versions	8	Motor nominal power 3 kW	
Tank versions	5	Filling volume	6.6 l
		Usable filling volume	1.8 l
	9	Filling volume	9 l
		Usable filling volume	5.5 l

Pump

H ..	H .. - H..
Z ..	HH .. /..
H .. - Z ..	Z .. - Z ..
HZ .. /..	ZZ .. /..

For delivery flow coding, see D 7600-4, sect. 2.2

Maximal permissible operating pressure for pumping elements ¹⁾

Radial piston pump H									
Piston-Ø (mm)	6	7	8	10	12	13	14	15	16
Geom. displacement V_g (ccm)	1.3	1.75	2.3	3.6	5.15	6.05	7.0	8.05	9.15
Perm. pressure (bar)	700	700	700	500	400	300	250	220	200

Maximal permissible operating pressures for gear pumps ¹⁾

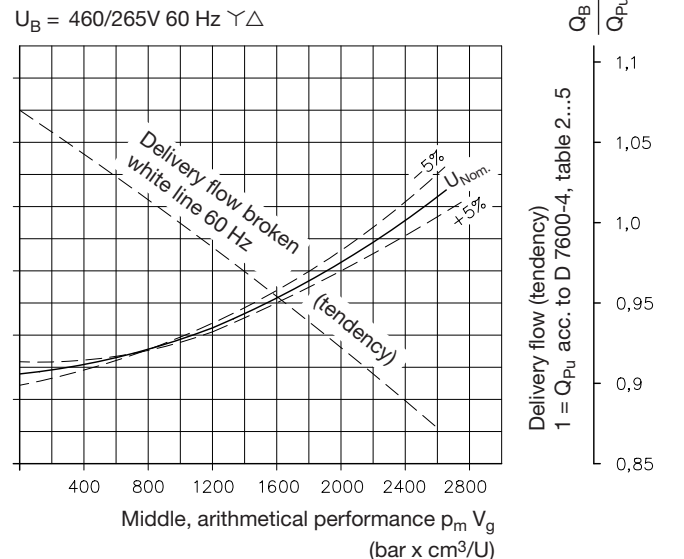
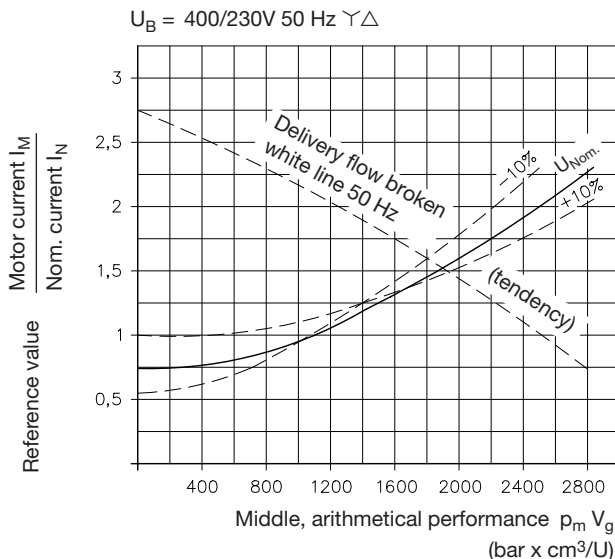
Gear pump	Z 5.2	Z 6.9	Z 8.8	Z 9.8	Z 11.3
Geom. displacement V_g (ccm)	3.6	4.8	6.1	7.0	7.9
Permissible pressure (bar)	200	180	180	160	160

¹⁾ Maximal performance $(p_m V_g)_{max} = 2600$ bar ccm (motor load limitation)
For multi-circuit-pumps $(p_{m1} V_{g1}) + (p_{m2} V_{g2}) \leq (p_m V_g)_{max}$

Motor	4-pol altern current motor	
Nom. voltage (V)	400/230 $\nabla\Delta$	460/265 $\nabla\Delta$
Mains frequency (Hz)	50	60
Ref. rating (min ⁻¹)	1410	1730
Output (kW)	3	3,6
Current (A)	6.6/11.5	6.6/11.5
Start current ratio (I_A / I_N)	5.7	5.5
Power factor (cos φ)	0.84	0.86
Protection classification	IP 54	IP 54

Additional elements see D 7600-4, section 2.1

Curves



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