

Konstantpumpe F3+ 81 - 101 ccm/U



F3-81 and -101, ISO Specifications

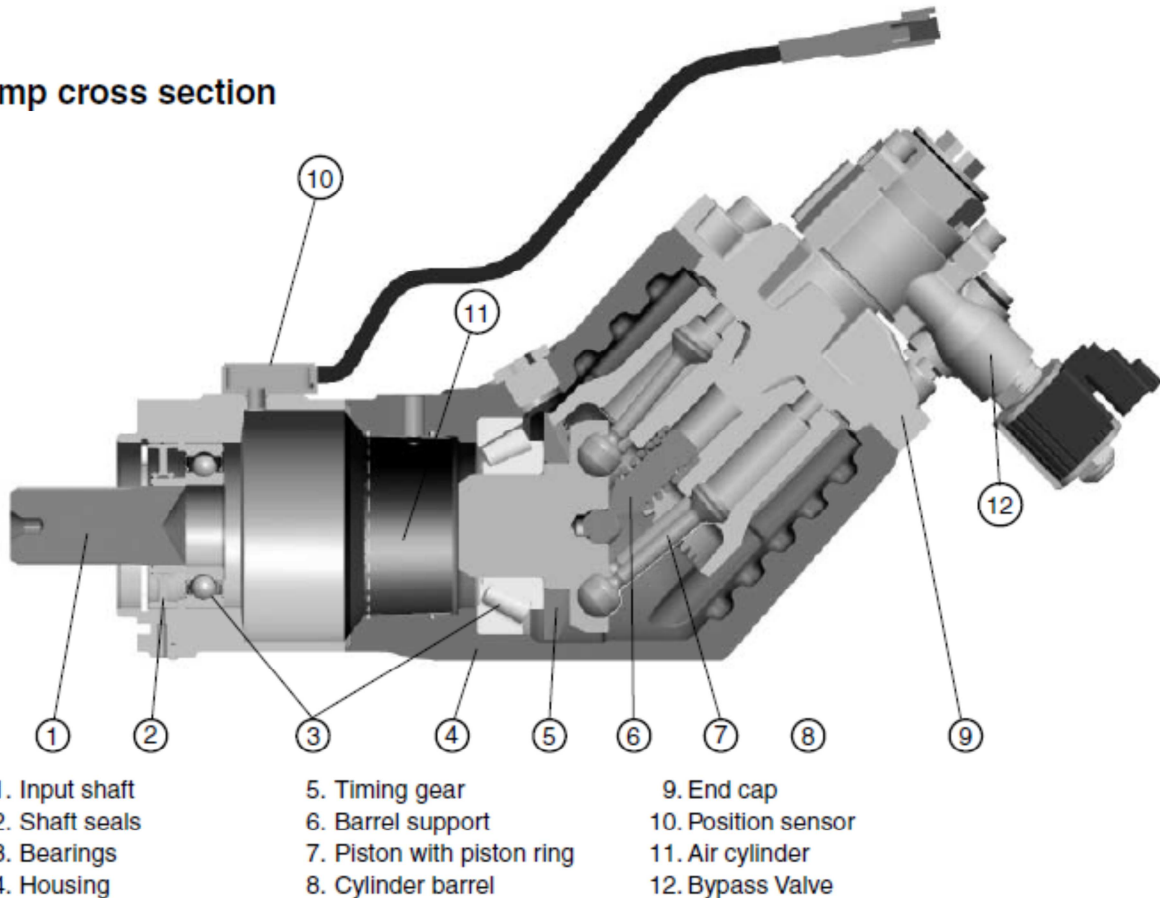
Frame size F3-	81	101
Displacement [cm³/rev]	81.6	102.9
Max flow¹⁾ [l/min]		
at 350 bar	163 ³⁾	185 ³⁾
at 400 bar	143	160
Max operating pressure [bar]		
continuous	350	350
intermittent	400	400
Shaft speed [rpm]		
- short circuited pump (low press.)	2300	2300
- max speed at 350 bar ²⁾	2000 ³⁾	1800 ³⁾
at 400 bar ²⁾	1750	1550 ³⁾
Torque¹⁾ [Nm]		
at 350 bar	453	572
at 400 bar	518	653
Input power [kW]		
- continuous	76	85
- intermittent ⁴⁾	95	123
Weight [kg]	16.7	16.7

BPV-F3 Bypass valve Without manual override

Bypass valve, type	BPV-F3
Max pressure, continuous	350 bar
intermittent	400 bar
Solenoid voltage (option)	24 VDC, (12 VDC)
Power requirement	17 W
Operating mode	Activated solenoid: Check valve closed

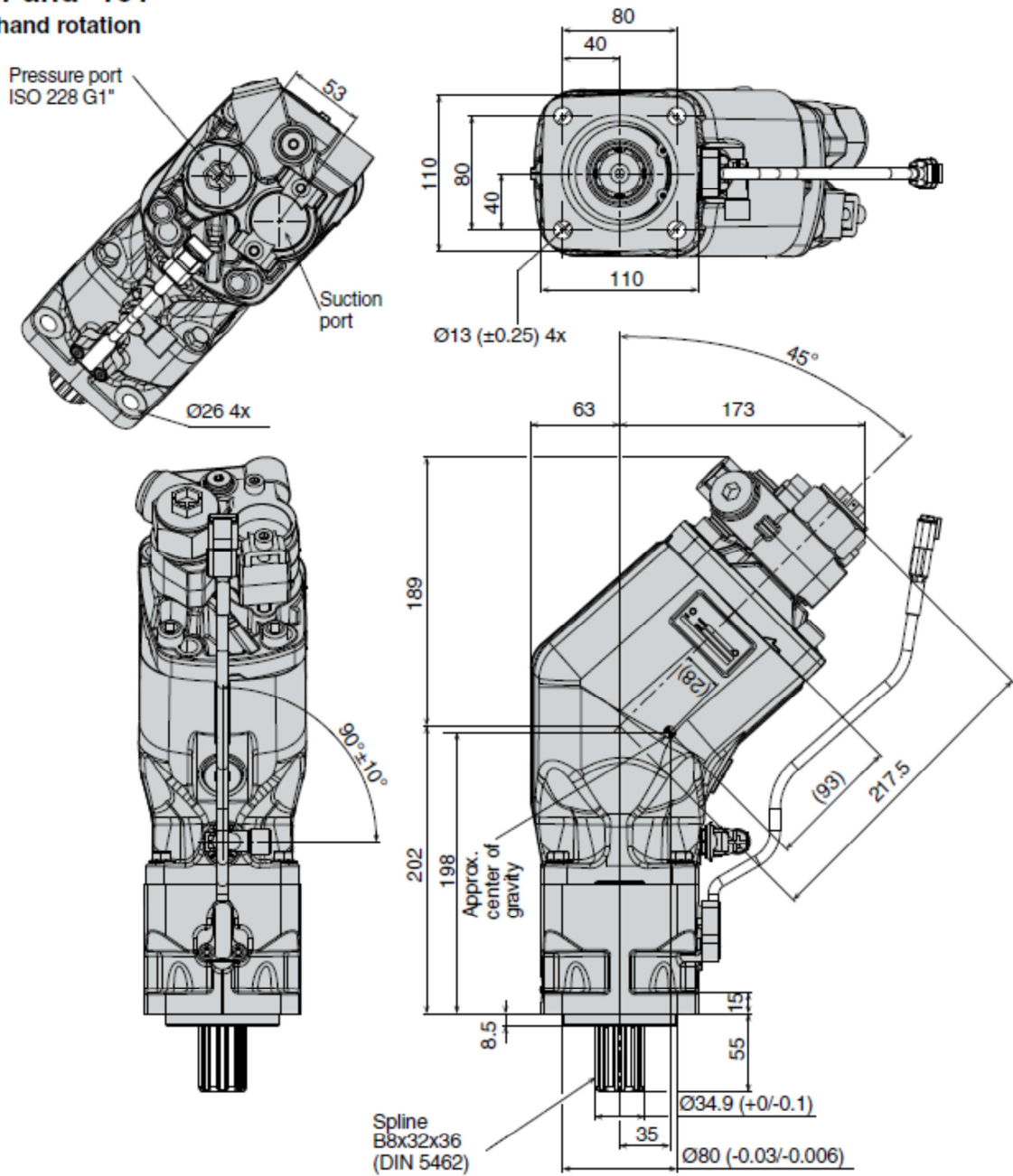
- 1) Theoretical values
- 2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm²/s (cSt).
- 3) Valid with 2 1/2" inlet (suction) line.
With 2" suction line:
F3-81 – max 1400 rpm (Q=120 l/min);
F3-101 – max 1000 rpm (Q=120 l/min).
- 4) Max 6 seconds in any one minute.

Pump cross section



F3-81 and -101

Right hand rotation



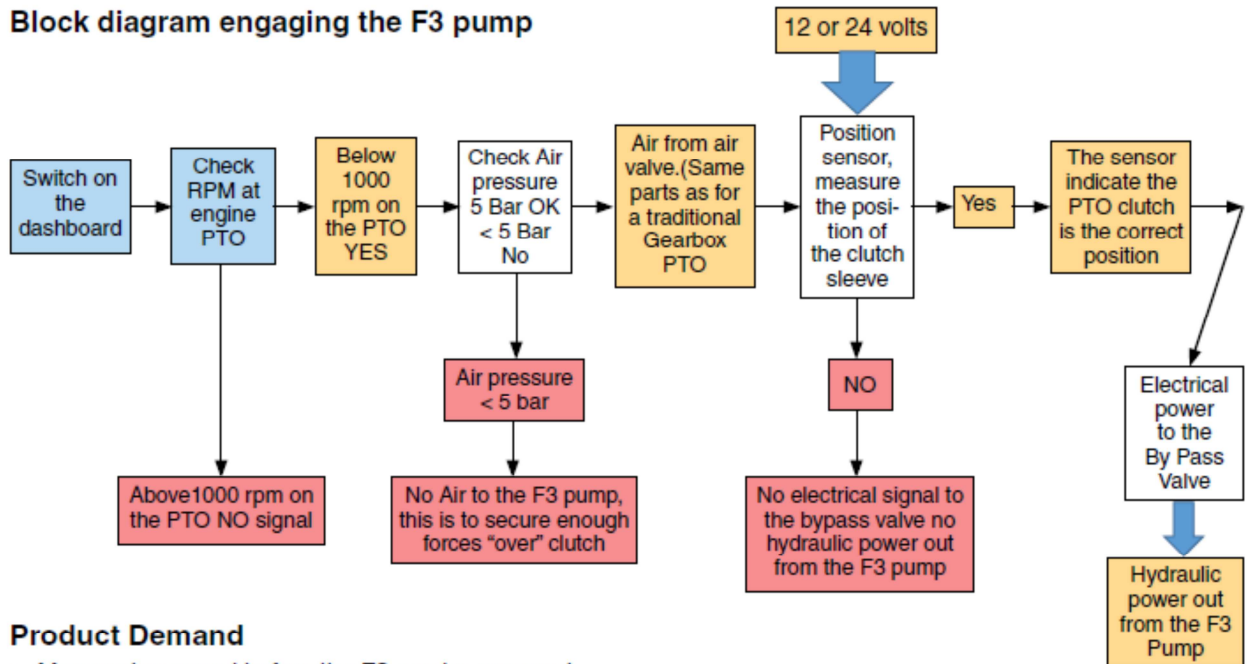
Port size

F3 frame size	Pressure port ¹⁾
-81	1"
-101	1"

Standard versions

Designation	Ordering no.
F3-81-R-500	372 0091
F3-81-L-500	372 0092
F3-101-R-500	372 0093
F3-101-L-500	372 0094

Block diagram engaging the F3 pump



Product Demand

- Max engine speed before the F3 can be engaged (max shaft speed during engagement is 1000 rpm)
- Air pressure > 5 bar before the clutch can start to engage the pump

Interface

