

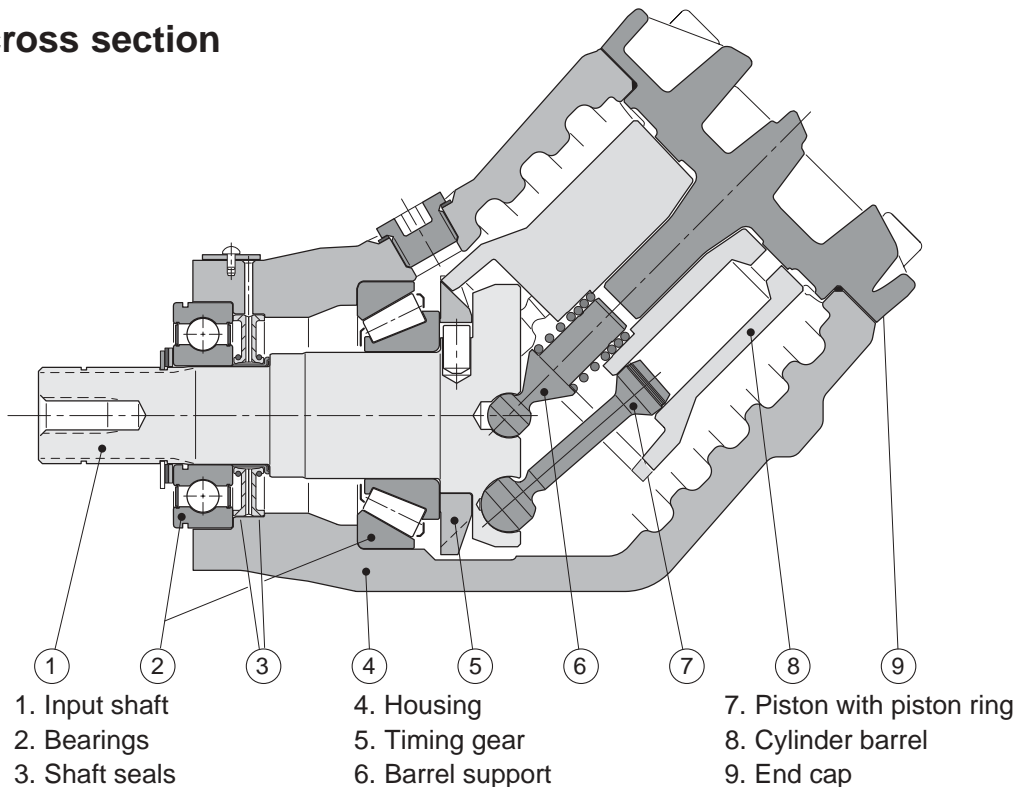
Specifications

F1 frame size	25	41	51	61	81	101
Displacement [cm ³ /rev]	25.6	40.9	51.1	59.5	81.6	102.9
Max flow ¹⁾ [l/min]						
at 350 bar	67	98	112	131	163 ³⁾	185 ³⁾
at 400 bar	56	86	97	113	143	160
Max operating pressure [bar]						
continuous	350					350
intermittent	400					400
Shaft speed [rpm]						
- short circuited pump (low press.)	2700	2700	2700	2700	2300	2300
- max speed at 350 bar ²⁾	2600	2400	2200	2200	2000 ³⁾	1800 ³⁾
at 400 bar ²⁾	2200	2100	1900	1900	1750	1550 ³⁾
Torque ¹⁾ [Nm]						
at 350 bar	142	227	284	331	453	572
at 400 bar	163	260	324	378	518	653
Input power [kW]						
- continuous	31	46	52	61	76	86
- intermittent ⁴⁾	39	57	66	76	95	108
Weight [kg]	8.5	8.5	8.5	8.5	12.5	12.5

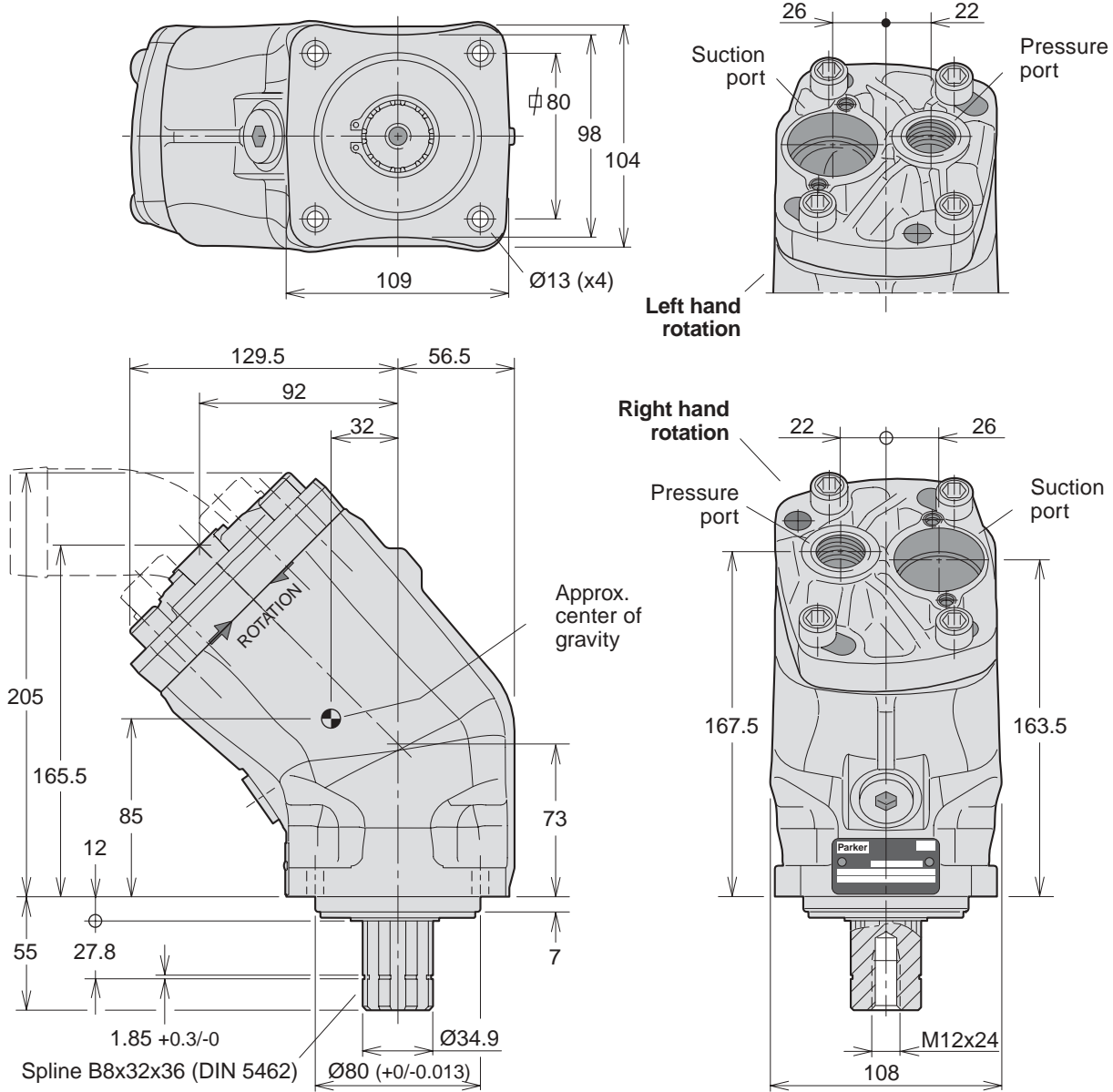
- 1) Theoretical values
- 2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm²/s (cSt).
- 3) Valid with 2¹/₂" inlet (suction) line.
 With 2" suction line: F1-81 – max 1400 rpm (Q≈120 l/min);
 F1-101 – max 1000 rpm (Q≈120 l/min).
- 4) Max 6 seconds in any one minute.

NOTE: For noise level information, contact Parker Hannifin (Mobile Controls Div.).

Pump cross section



Installation dimensions, F1-25, -41, -51 and -61



Ordering code

Example: **F1-81-R**

F1 frame size
25, 41, 51, 61, 81 or 101

Shaft rotation
R Right hand
L Left hand

Standard versions

Designation	Ordering no.
F1-25-R	378 1024
-L	378 1025
F1-41-R	378 1040
-L	378 1041
F1-51-R	378 1050
-L	378 1051
F1-61-R	378 1060
-L	378 1061

NOTE: The F1 pump **does not** include a suction fitting; it must be ordered separately. See chapter 9.

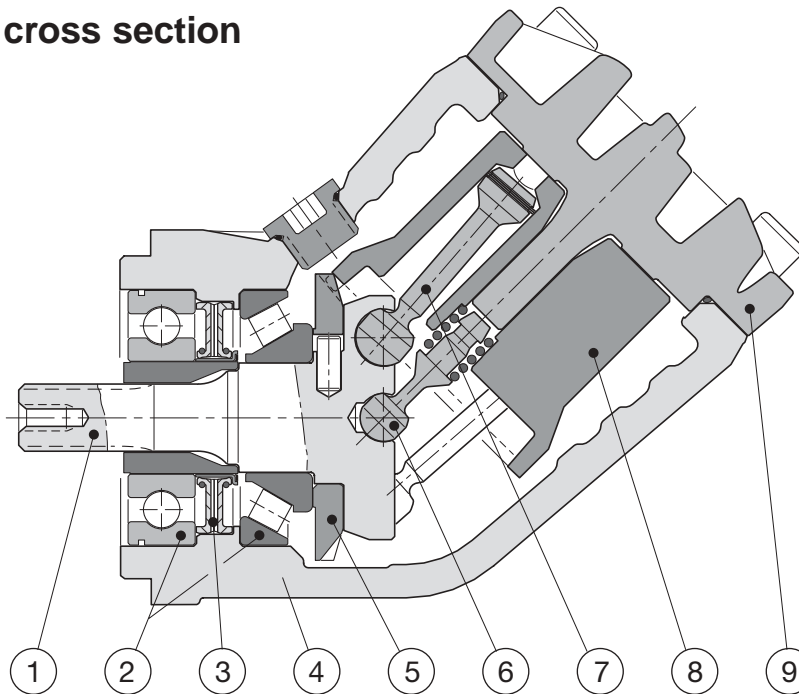
Specifications

F1 frame size	25	41	51	61
Displacement [cm ³ /rev] [cu in/rev]	25.6 1.56	40.9 2.50	51.1 3.12	59.5 3.63
Max flow ¹⁾				
at 350 bar [l/min]	67	98	112	131
at 5000 psi [gpm]	17.7	25.9	29.6	34.6
at 400 bar [l/min]	56	86	97	113
at 5000 psi [gpm]	14.8	22.7	25.6	29.8
Max operating pressure				
continuous [bar]/[psi]	———— 350/5000 ————			
intermittent [bar]/[psi]	———— 400/5800 ————			
Shaft speed [rpm]				
- short circuited pump (low press.)	2700	2700	2700	2700
- max speed at 350 bar ²⁾ /5000 psi ²⁾	2600	2400	2200	2200
at 400 bar ²⁾ /5800 psi ²⁾	2200	2100	1900	1900
Torque ¹⁾				
at 350 bar [Nm]	142	227	284	331
at 5000 psi [lbf ft]	105	168	210	244
at 400 bar [Nm]	163	260	324	378
at 5800 psi [lbf ft]	120	192	239	279
Input power				
- continuous [kW]	31	46	52	61
[hp]	42	62	70	82
- intermittent [kW] ³⁾	39	57	66	76
[hp] ³⁾	52	76	88	102
Weight [kg]	8.5	8.5	8.5	8.5
[lbs]	18.7	18.7	18.7	18.7

- 1) Theoretical values
- 2) Valid at an inlet pressure of 1.0 bar/15 psi (abs.) when operating on mineral oil at a viscosity of 30 mm²/s (cSt)/150 SUS.
- 3) Max 6 seconds in any one minute.

NOTE: For noise level information, contact Parker Hannifin.

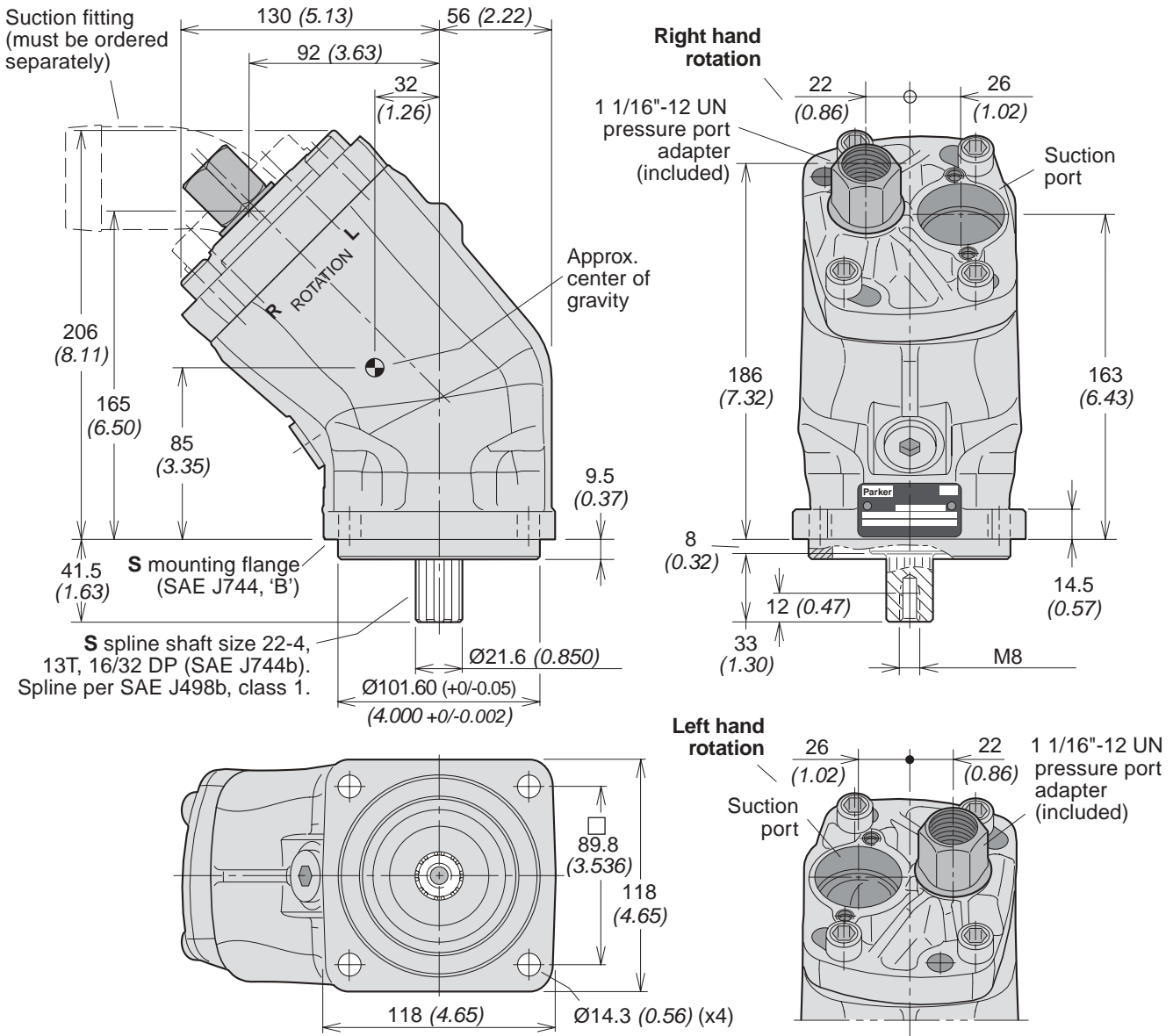
Pump cross section



1. Input shaft
2. Bearings
3. Shaft seal
4. Housing
5. Timing gear
6. Barrel support
7. Piston with piston ring
8. Cylinder barrel
9. End cap

Installation dimensions, F1-25, -41, -51 and -61 (SAE)

Dimensions in mm (inches)



Ordering code (SAE)

Example: **F1- 61 - R**

F1 frame size
25, 41, 51 or 61

Shaft rotation
R Right hand
L Left hand

Port size

F1 frame size	Pressure port ¹⁾
-25	1 1/16"-12 UN
-41	1 1/16"-12 UN
-51	1 1/16"-12 UN
-61	1 1/16"-12 UN

1) BSP-to-SAE adapter (included).

Standard SAE versions

Designation	Ordering no.
F1-25-R	378 1424
-L	378 1425
F1-41-R	378 1440
-L	378 1441
F1-51-R	378 1450
-L	378 1451
F1-61-R	378 1460
-L	378 1461

NOTE: The F1 pump **does not** include a suction fitting; it must be ordered separately. See chapter 9.