

Frame size F11	-005	-006	-010	-012	-014	-019
<b>Displacement</b> [cm <sup>3</sup> /rev]	4.9	6.0	9.8	12.5	14.3	19.0
<b>Operating pressure</b>						
max intermittent <sup>1)</sup> [bar]	420	420	420	420	420	420
max continuous [bar]	350	350	350	350	350	350
<b>Motor operating speed</b> [rpm]						
max intermittent <sup>1)</sup>	14 000	11 200	11 200	10 300	9 900	8 900
max continuous <sup>3)</sup>	12 800	10 200	10 200	9 400	9 000	8 100
min continuous	50	50	50	50	50	50
<b>Max pump selfpriming speed</b> <sup>2)</sup>						
L or R function; max [rpm]	4 600	–	4 200	3 900	3 900	3 500
<b>Motor input flow</b>						
max intermittent <sup>1)</sup> [l/min]	69	67	110	129	142	169
max continuous [l/min]	63	61	100	118	129	154
<b>Drain temperature<sup>3)</sup>, max</b> [°C]						
min [°C]	-40	-40	-40	-40	-40	-40
<b>Theoretical torque at 100 bar</b> [Nm]	7.8	9.5	15.6	19.8	22.7	30.2
<b>Mass moment of inertia</b>						
(x10 <sup>-3</sup> ) [kg m <sup>2</sup> ]	0.16	0.39	0.39	0.40	0.42	1.1
<b>Weight</b> [kg]	4.7	6.5	6.5	7.5	7.5	11

- 1) Intermittent: max 6 seconds in any one minute.  
2) Selfpriming speed valid at sea level. Find more info on page 11  
3) See also installation information. Page 69

2

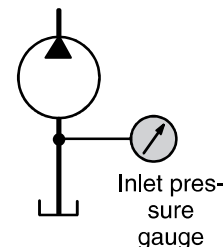
### Selfpriming speed and required inlet pressure

#### Series F11

In pump applications, the F11 with function **L** (counter clockwise rotation) or **R** (clockwise rotation) is normally used. The L and R (pump) provide the highest self priming speeds (see table) as well as the lowest noise level. The **M** and **H** (motor) function can also be used as a pump, in either direction, but at a lower self priming speed.

Operating above the self priming speed (refer to Diagram 1) requires increased inlet pressure. As an example, at least 1.0 bar is needed when operating the F11-19-M as a pump at 3500 rpm. An F11 used as a motor (e.g. in a hydrostatic transmission), may sometimes operate as a pump at speeds above the self priming speed; this requires additional inlet pressure. Insufficient inlet pressure can cause pump cavitation resulting in greatly increased pump noise and deteriorating performance.

Function	L or R	M	H
F11-5	4600	3800	3200
F11-6		3100	
F11-10	4200	3100	2700
F11-12	3900	-	3000*
F11-14	3900	-	3000*
F11-19	3500	2400	2100



**2**

\* Valve plate S

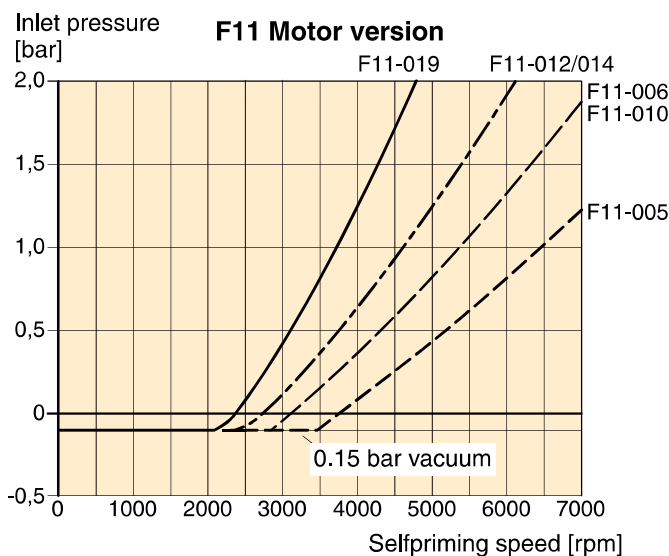


Diagram 1. Min required inlet pressure for Motor.

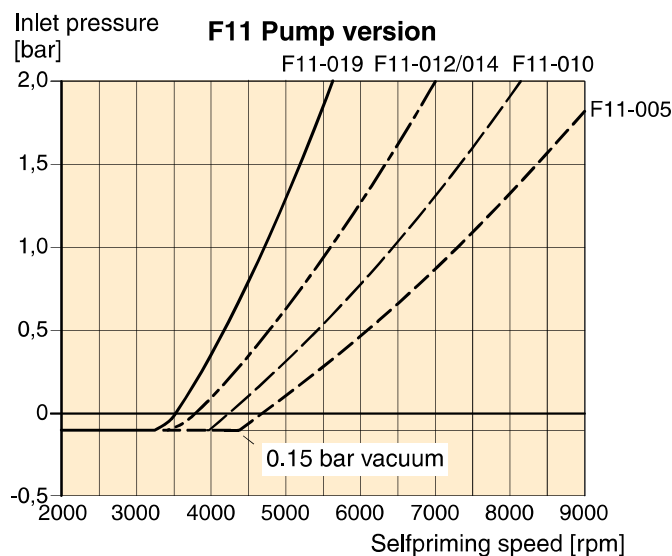


Diagram 2. Min required inlet pressure for Pump.

The inlet pressure can be charged by external pump, pressurized reservoir or using BLA Boost unit  
 Find more info about the BLA unit at page 68.

F11 - 019 - L B - C V - K - 000 - 0000 - 00

F11-CETOP

Frame size

Function

Main ports

Mounting flange

Shaft seal

Shaft

Version number

Option page 6

Option page 7, 67

Frame size	
Code	Displacem. (cm <sup>3</sup> /rev)
005	4.9
006	6.0
010	9.8
012	12.5
014	14.3
019	19.0

Frame size		5	6	10	12	14	19
Code	Function						
M	Motor	x	x	x	-	-	x
Q	Motor, low noise	x	-	x	x	x	x
S	Motor, high speed	-	-	(x)	(x)	(x)	(x)
H	Motor, high pressure	(x)	-	(x)	-	-	(x)
R	Pump, clockwise rot'n	(x)	-	(x)	(x)	(x)	(x)
L	Pump, counter clockw.	(x)	-	(x)	(x)	(x)	(x)

For other versions, contact Parker Hannifin

Frame size		5	6	10	12	14	19
Code	Main ports						
B	BSP threads	x	x	x	x	x	x
U	SAE, UN threads	(x)	(x)	(x)	(x)	(x)	(x)

Frame size		5	6	10	12	14	19
Code	Mounting flange						
C	CETOP flange	x	x	x	x	x	x

Version number  
(assigned for special versions)

Frame size		5	6	10	12	14	19
Code	Option						
0000	Standard	x	x	x	x	x	x
MUVR	Make up/Anti cavitation valve clockwise rotation	-	(x)	(x)	(x)	(x)	(x)
MUVL	Make up/Anti cavitation valve counter clockwise rotation	-	(x)	(x)	(x)	(x)	(x)

Frame size		5	6	10	12	14	19
Code	Shaft*						
K	Metric key	x	x	x	x	x	x
J	Metric key	(x)	(x)	(x)	(x)	-	-
P	Metric key	-	-	-	-	(x)	-
A	Spline, DIN 5480	-	(x)	(x)	(x)	-	-
D	Spline, DIN 5480	x	x	x	x	x	x
S	Spline, SAE	(x)	-	-	-	-	-
V	Tapered shaft	-	(x)	(x)	(x)	(x)	-

\*See also dimensional drawings on pages 15-23.

Frame size		5	6	10	12	14	19
Code	Shaft seal						
V	FPM, high pressure, high temperature	x	x	x	x	x	x

For other versions, contact Parker Hannifin

x: Available      (x): Optional      -: Not available

Frame size		5	6	10	12	14	19
Code	Option						
00	Standard	x	x	x	x	x	x
P_	Prepared for speed sensor	-	(x)	(x)	(x)	(x)	(x)
B_	Power Boost and Prepared for speed sensor	-	(x)	(x)	(x)	(x)	(x)
_T	Painted Black	(x)	(x)	(x)	(x)	(x)	(x)

NOTE: All combinations are not valid, please contact Parker Hannifin