

F11 Small Frame Fixed Displacement Bent-Axis Pumps



F11 is a well proven bent axis, fixed displacement heavy-duty pump Series. They can be used in open or closed circuit applications where high efficiency, high drive speeds, high pressure and indirect drives are desired. The F11 will provide high output flows in a very compact package.

Pump Performance Data

Model Series	Displacement in ³ /rev (cc/rev)	Continuous Pressure PSI (BAR)	Rated Speed RPM	Flow @ Rated RPM GPM (LPM)
F11005	0.30 (4.9)	5000 (350)	4600	5.5 (20.8)
F11006	0.37 (6.0)	5000 (350)	4200	6.6 (25.0)
F11010	0.60 (9.8)	5000 (350)	4200	11 (41.6)
F11012	0.76 (12.5)	5000 (350)	3850	12.5 (47.3)
F11014	0.87 (14.3)	5000 (350)	3900	14 (53.0)
F11019	1.16 (19.0)	5000 (350)	3500	17 (64.4)

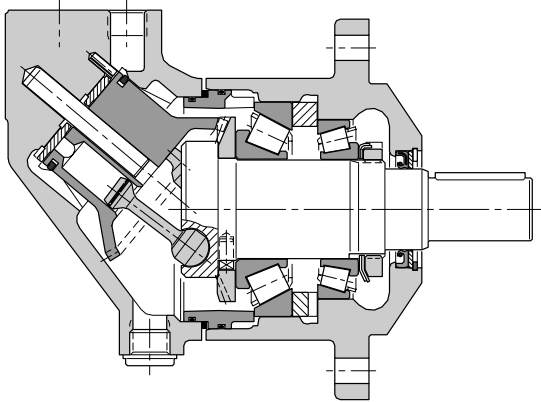
Markets

Applications

Forestry	Saw Drives, Feller Bunchers, Skidder, Forwarder, Cranes, Mowers / Cutters
Industrial	Aircraft Test Stands
Marine	Deck Cranes, Constant Tension Winches, Hatch Covers
Oil & Gas	Nitrogen Pumpers, Frac Trucks, Coil Tubing
Construction	Skid Steer, Off-Highway Trucks, Fan Drives, Cranes, Dust Collector, Excavator
Mining	Drill Rigs, Top Drives, Loaders, Subsurface Loaders, Tunneling Equipment
Material Handling	Conveyor Drives, Truck Mounted Cranes, Mixers
Recycling	Shredders, Vacuum Truck Systems
Military	Fan Drives

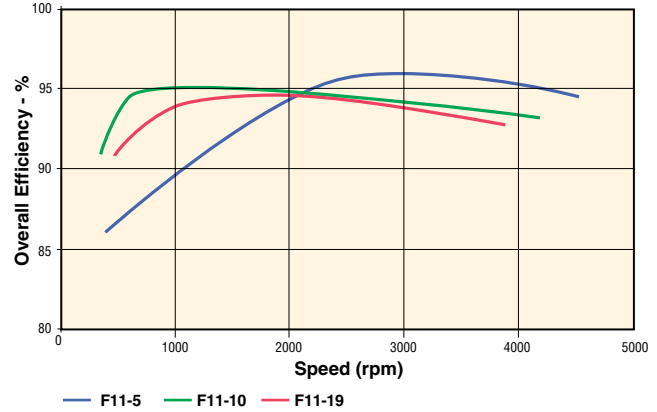
F11 Small Frame Fixed Displacement Bent-Axis Pumps/Motors

Performance Characteristics



F11 Series Overall Efficiency

Pump - 250 bar (3625 PSI)

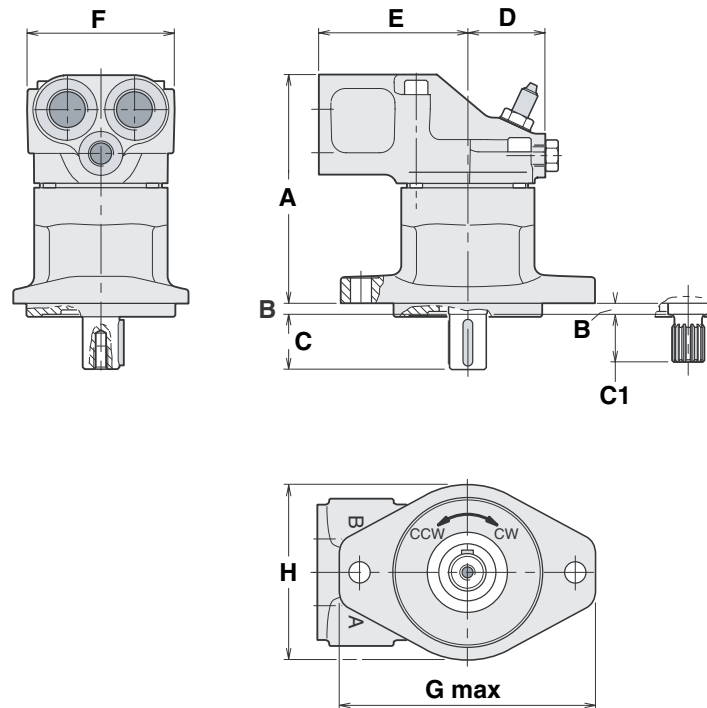


Benefits/Features

- F11 fixed pumps can be used at unusually high shaft speeds
- Intermittent operating pressures to 6000 PSI (413.7 BAR)
- Compact, lightweight pump, high power to weight ratio
- Laminated piston ring provides low internal leakage and thermal shock resistance
- F11 Series have very few moving parts providing long life and service friendly design
- Heavy duty roller bearings for indirect drive

F11 Small Frame Fixed Displacement Bent-Axis Pumps/Motors

F11-14
(SAE versions)



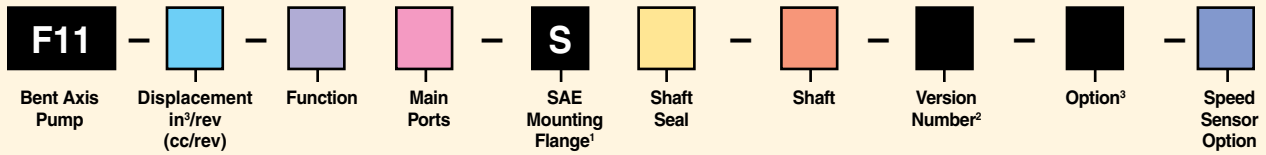
Dimensions, inch (mm)

Series	A max	B	C	C1	D	E	F	G max	H
F11-05	5.28 (134.1)	.31 (7.8)	1.57 (39.9)	0.39 (8.89)	1.87 (47.5)	2.56 (65.0)	3.31 (84.1)	5.0 (127.0)	3.78 (96.0)
F11-06	6.21 (175.7)	0.31 (7.9)	1.50 (38.1)	1.30 (33.0)	2.09 (53.1)	4.02 (102.1)	3.98 (101.1)	6.85 (174.0)	4.72 (119.9)
F11-10	6.21 (175.7)	0.31 (7.9)	1.50 (38.1)	1.30 (33.0)	2.09 (53.1)	4.02 (102.1)	3.98 (101.1)	6.85 (174.0)	4.72 (119.9)
F11-12	6.14 (156.0)	.55 (14.0)	1.97 (50.0)	.87 (22.1)	2.09 (53.1)	4.02 (102.1)	3.98 (101.1)	5.98 (151.9)	4.57 (116.1)
F11-14	6.21 (175.7)	0.31 (7.9)	1.50 (38.1)	1.30 (33.0)	2.09 (53.1)	4.02 (102.1)	3.98 (101.1)	6.85 (174.0)	4.72 (119.9)
F11-19	7.13 (181.1)	0.31 (7.9)	1.50 (38.1)	1.30 (33.0)	2.48 (63.0)	3.46 (87.9)	4.49 (114.0)	6.93 (176.0)	4.84 (122.9)



Piston Pumps

F11 Model Ordering Code



Code	Displacement in³/rev (cc/rev)
005*	0.30 in³/rev (4.9 cc/r)
010*	0.60 in³/rev (9.8 cc/r)
012*	0.76 in³/rev (12.5 cc/r)
014	0.87 in³/rev (14.3 cc/r)
019	1.16 in³/rev (19.0 cc/r)

* ISO or CETOP mounting options, see catalog on CD

Code	Function	005	010	012	014	019
R	Pump, CW Rotation	x	x	x	x	x
L	Pump, CCW Rotation	x	x	x	x	x

Code	Main Ports	005	010	012	014	019
U	SAE, UN Threads	x	x	—	x	x
B	BSP Threads	x	x	x	—	x
F	SAE 6000 PSI Flange*	—	x	x	x	—

* Metric threads

x: Available —: Not Available

¹CETOP and ISO mounting also available. See catalog on CD.

²Assigned by factory for special versions

³None (see catalog on CD)

Code	Shaft Seal	005	010	012	014	019
N	NBR*, Low Pressure	x	x	—	—	x
V	FPM**, High Pressure, High Temperature	x	x	x	x	x

* NBR - Nitrile rubber

** FPM - Fluorocarbon rubber

Code	Shaft	005	010	012	014	019
T	SAE Key	—	—	—	x	x
S	SAE Spline	x	x	x	x	x
K	Metric Key	x	x	x	x	x
D	DIN 5480 Spline	x	x	x	x	x

Code	Speed Sensor	005	010	012	014	019
P	Prepared for Speed Sensor	—	—	x	x	x

Order speed sensor kit# 3785190 separately