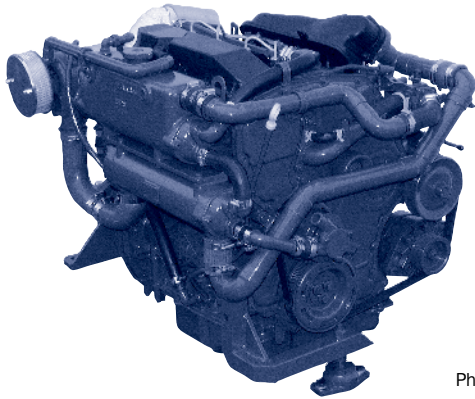


Ford PUMA 2.4 litre 4 cylinder marine diesel

PUMA N - 78HP at 3900 RPM

Ford parts support throughout Europe and 170 countries worldwide



Photograph shows turbo version

Engine specifications may vary as improvements are introduced
Specifications are subject to change without notice and are not for engineering purposes
See the Lancing Marine Price Book for Complete Installation Kit
Lancing Marine reserve the right to alter specifications without notice

Design Features

Engine

Well proven, normally aspirated. Suitable for shaft, sterndrive or jetpump installations.

Fuel system

Direct injection for good starting, with pre-set minimum and maximum speed control. Electronic speed control available.

Low fuel consumption

Precise fuel management system includes an automatic timing advance and torque control unit, to control maximum fuel delivery throughout the speed range.

Reliability

Meets high reliability and durability demands. Aluminium cylinder head with optimised gas flow and 16 valves, chain driven by 2 camshafts.

Serviceability

Low maintenance requirements, 7 rib Poly-Vee belt for low slippage. Easy access to all serviceable components.

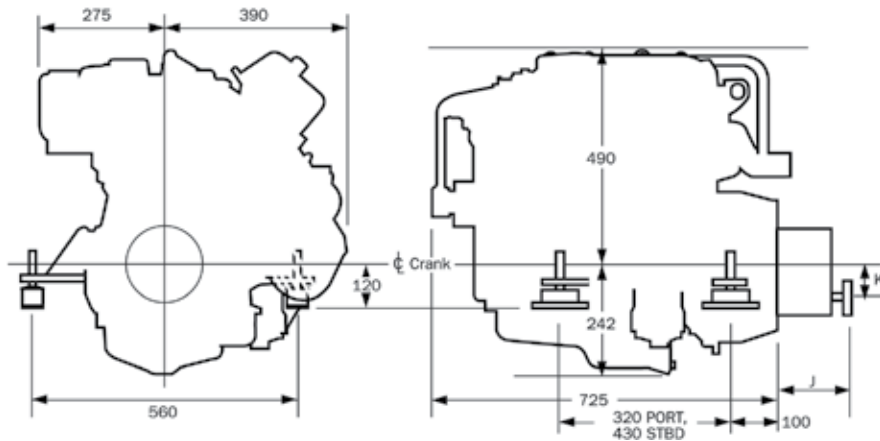
Variation to standard specification (see inside front cover) and extra optional items for this engine type

Additional standard items

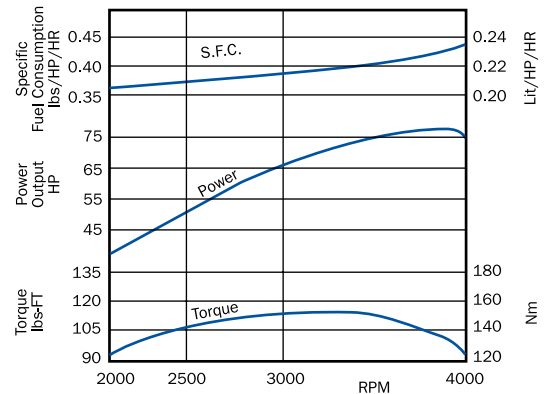
Electric run/stop control

Optional items

Keel cooling and dry exhaust in lieu of heat exchanger system
High-rise exhaust
"Dieselise" package for stern drive use
Remote oil filter



Dimensions J & K can be found in the gearbox specification pages 9 - 15



Detailed specification

Engine model	PUMA N
Power Maximum H.P.	78
RPM Maximum	3900
Torque Maximum Nm	150
Cubic capacity, litres	2.4
Bore, mm	89.9
Stroke, mm	94.6
Aspiration	Natural
Engine rotation	Anti-clockwise viewed from rear
Compression ratio	19:1
Electrics 12v earth return Alt, Amps	55
optional 12v earth return, Amps	105
Minimum battery size	1X85 AH 12 volt
Minimum starter cable, length=size	0.6M = 40mm ² /1.2M = 70mm ²
Engine operating angles	
Engine front down (degrees)	0
Sideways (degrees)	15
Engine front up (degrees)	15

Engine model	PUMA N
Max Fuel Consumption, lit/hour	18
Fuel feed diameter, ins (mm)	5/16 (8)
Fuel return diameter, ins	5/16 (8)
Exhaust diameter, ins (mm)	2 (50)
Water intake diameter, mm	28
Coolant capacity, lit	12
Oil capacity, lit	7
Weight, Engine, Kg	230
Guide to sterngear	
Max. Prop. dia. for gear ratio 1.5:1 ins	13"
Min. Shaft Dia. St. St. ins (mm)	1 (25)
Speed range for this ratio (knots)	15-25
Max. Prop. dia. for gear ratio 2:1	16"
Min. Shaft Dia. St. St. ins (mm)	1 1/4 (32)
Speed range for this ratio (knots)	8-20
Max. Prop. dia. for gear ratio 3:1	20"
Min. Shaft Dia. St. St. ins (mm)	1 3/8 (35)
Speed range for this ratio (knots)	6-15