

Operation/Maintenance BFM 1015

Specification Data



9.1 Engine Specifications and Settings

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Specification Data: Engine Specification and Settings



Model 1015

BF6M 1015

BF8M 1015

BF6M 1015 C

BF8M 1015 C

		6	8	6	8
Number of cylinders		90° Vee-angle			
Cylinder arrangement					
Bore	[mm]	132			
Stroke	[mm]	145			
Total displacement	[cm ³]	11906	15874	11906	15874
Compression ratio	[ε]	17			
Working cycle / combustion system		4-stroke TC engine/direct injection			
Direction of rotation		counter-clockwise			
Weight incl. cooling system	[approx. kg]	Consult headquarters			
Weight w/o cooling system acc. to DIN 70020-A	[approx. kg]	830	1060	830	1060
Engine power	[kW]	190-240 ¹⁾	250-320 ¹⁾	228-300 ¹⁾	304-400 ¹⁾
Speed	[rpm]	¹⁾			
Valve clearance, engine cold ⁵⁾	[mm]	inlet 0.25 ^{+0.1} / exhaust 0.3 ^{+0.1}			
Injector opening pressure	[bar]	290 bar			
Commencement of delivery	[°CA BTDC]	¹⁾			
Firing order		1-6-3-5-2-4 A1-B3-A3-B2-A2-B1	1-8-4-5-7-3-6-2 A1-B4-A4-B1-B3-A3-B2-A2	1-6-3-5-2-4 A1-B3-A3-B2-A2-B1	1-8-4-5-7-3-6-2 A1-B4-A4-B1-B3-A3-B2-A2
V-belt tension:		tension / retension ²⁾			
Alternator 55 amperes	[N]	450 / 200-350 ^{±50}			
Alternator 120 amperes	[N]	550 / 300-450 ^{±50}			

¹⁾ Engine power, speed, commencement of delivery, etc. are stamped on the rating plate, see 2.1.

²⁾ Retension after running for 15 minutes under load.

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Model 1015		BF6M 1015	BF8M 1015	BF6M 1015 C	BF8M 1015 C
Cooling system		liquid-cooled / cooling system protection			
Coolant quantity	[approx. lit.]	17 + MFK*	21 + MFK*	17 + MFK*	21 + MFK*
Perm. cont. coolant temperature engine outlet	[°C]	max.103			
Temperature difference between coolant inlet / outlet	[°C]	max.5			
Thermostat starts opening at	[°C]	87 ±2			
Thermostat fully open from	[°C]	102			
Coolant pump					
Delivery pressure in	[bar]	4)			
Delivery rate in	[m³/h]	22,5 4)	30 4)	22,5 4)	30 4)
Lubrication		forced-feed lubrication			
SAE oil (see 4.1)		15 W 40			
Min. oil pressure with engine warm (120 °C) at low idle / rated speed	[bar]	1,0			
Oil capacity (initial filling) without filter	[approx. lit.]	34 3)	45 3)	34 3)	45 3)
Oil capacity (initial filling) engine-mounted filter	[approx. lit.]	36* 3)	47* 3)	36* 3)	47* 3)
Oil capacity (initial filling), separate filter	[approx. lit.]	38 3)	50 3)	38 3)	50 3)

3) Approximate figures can vary depending on the design. **Decisive is always the upper dipstick mark.**

4) 3 bar at engine speed $n = 2100 \text{ rpm}^{-1}$

5) see 6.1.1

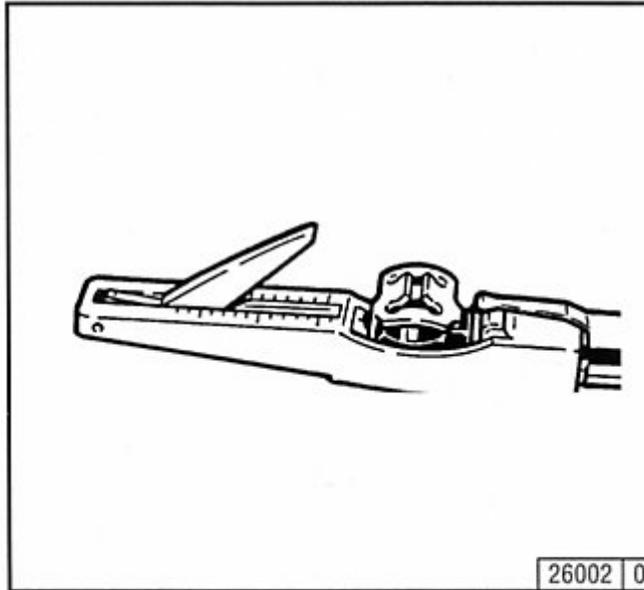
* MFK Engine radiator

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Specification Data: Tools



V-belt Tension Gauge



The V-belt tension gauge can be obtained under order number **8115** from:

Fa. WILBÄR
Postfach 14 05 80
D-42826 Remscheid