



Catalogue of gear hydroelectric generator

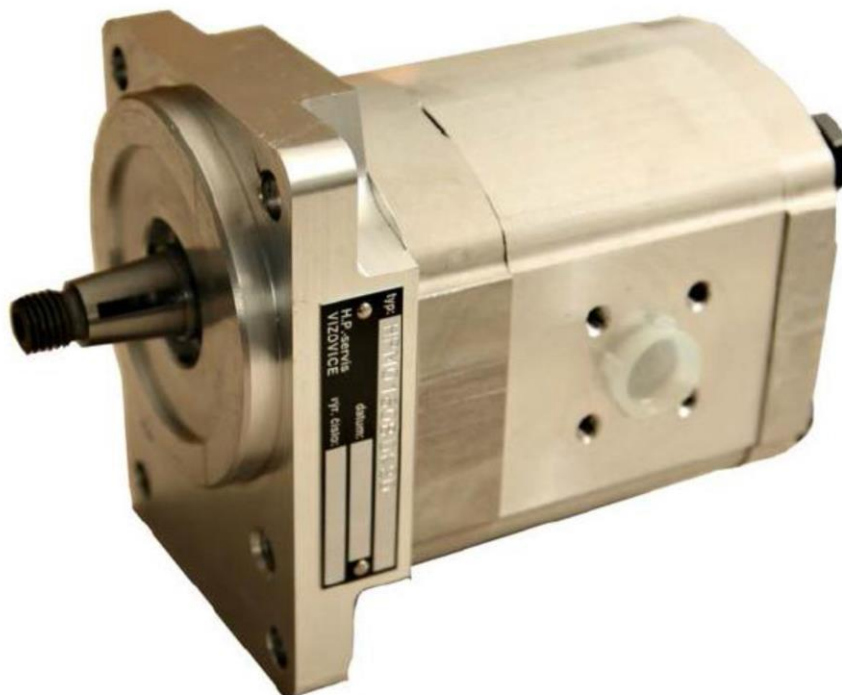
Hydroengines and hydroelectric generators for buses KAROSA

Hydroengine HPM016OBDK2D
Replacement for hydroengine BOSCH-REXROTH 0511625607

Order no.: 5001862895

Hydroengine HPM019OBDK2D
Replacement for hydroengine BOSCH-REXROTH 0511625606

Order no.: -----



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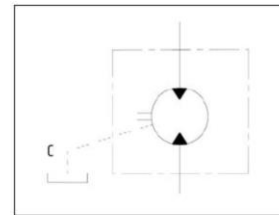
Catalogue of gear hydroelectric generator

HPM016OBDK2D

Replacement for BOSCH-REXROTH 0511625607, Karosa no.: -----,
Order number: 5001862895

HPM019OBDK2D

Replacement for BOSCH-REXROTH 0511625606, Karosa no.: -----,
Order number: -----



Technical conditions:

Pressure on hydroelectric engine input: - nominal 20MPa
 - maximum permanent **HPM016OBDK2D** 24MPa
 - maximum permanent **HPM019OBDK2D** 20MPa

Surroundings temperature: -30 to +60°C

Liquid temperature: -30 to +80°C

Liquid - mineral oil for hydrostatic drives f.e.:
 MOGUL OLN 22 TO 46
 Shell Tellus 32
 Shell Tellus 46
 Madit OHHM 46

Operating range of hydraulic oil kinematic viscosity during 40°C: 20 - 60 mm² s⁻¹

Maximum kinematic viscosity (during start up): 1200 . mm² s⁻¹

Filtration efficiency of filter insert: 10 - 25 μm

Filtration efficiency of filter insert (**for operating pressure p>18 MPa**): 10 μm

Filtration coefficient β_x: β₂₅ 75

Working position: arbitrary

Secure valve setting: 18 MPa

Technical specifications

Signification of gear hydroelectric generator	Nominal geometric capacity** cm ³ / rot.	Rotations 1/min			Nominal pressure MPa	During nominal rotations and nominal pressure	
		Min. *	Max. *	Nominal		input kW	overflow dm ³ /min
HPM016OB DK2D	19,4	600	3000	1000	20		40
HPM019OB DK2D	23,5	600	3000	1000	20		50

* Permanent operation is allowed only in rotations range from 600 to 3000 min⁻¹.

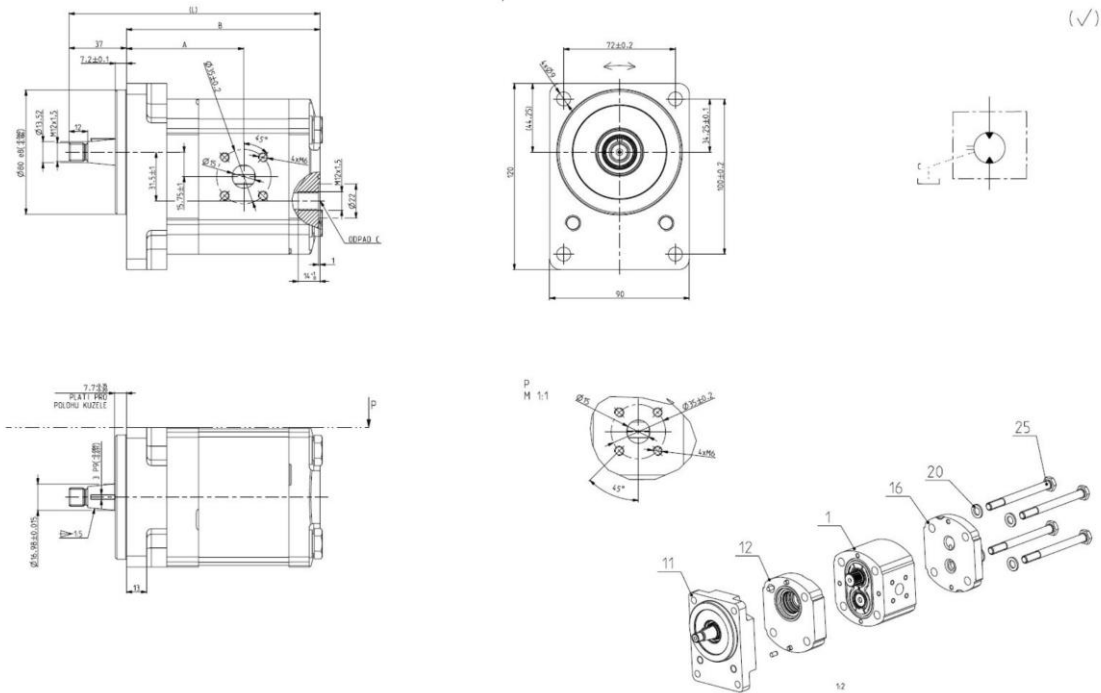
Out of this rotations range is allowed max. pressure 16 MPa.

** Applies for working liquid with viscosity of 40 +/- 5 mm² s⁻¹ and temperature 40°C.

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