

Technical Catalogue
Catalogo Tecnico

EN / IT

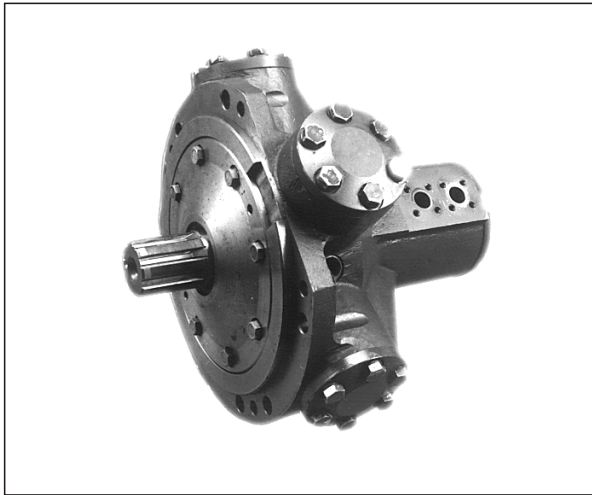
R1V44
series

Hydraulic Radial Piston Motors

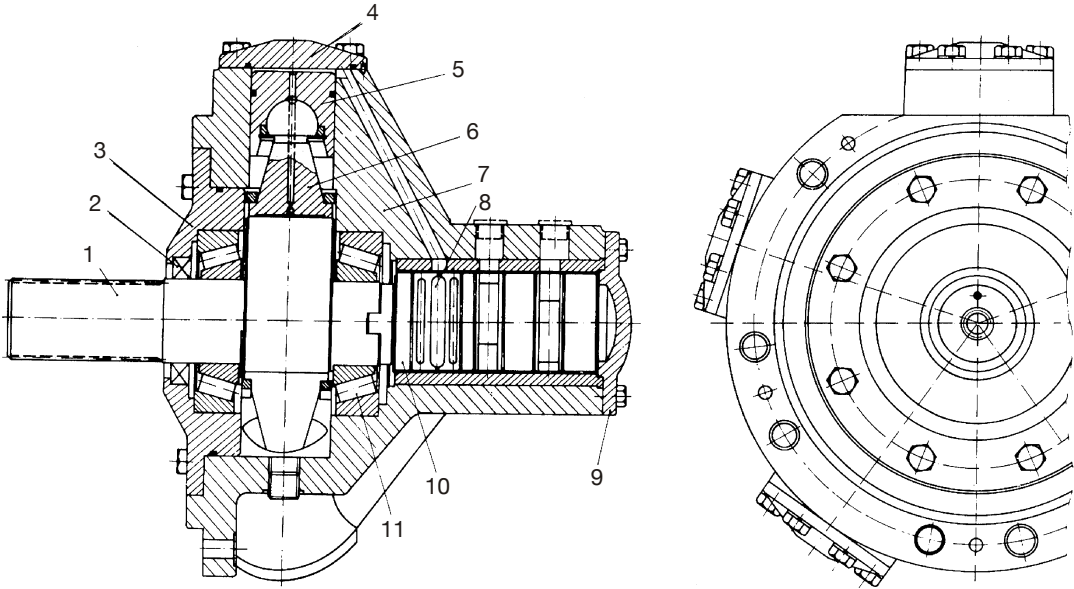
Revortex

Innovation + High Performance + Durability

- High torque
- Still operation at low speed
- Output shaft may be loaded with axial and radial forces
- Possibility of quick reversal of rotation
- Due to low speed and high torque, these motors are used instead of gear boxes
- Motors for both open and closed-loop systems



SECTION - MODE OF OPERATION



- 1. Drive shaft
- 2. Shaft seal
- 3. Front cover
- 4. Cylinder cover
- 5. Piston
- 6. Piston rod
- 7. Housing
- 8. Distributor
- 9. Rear cover
- 10. Coupling
- 11. Bearing

TECHNICAL DATA

GENERAL

Symbol					
Designation	144-0550	144-0750	144-1480	144-1800	144-2800
Rotation direction	anticlockwise and clockwise				
Mounting position	optional				
Ambient temperature (°C)	... +50				
Mass (kg)	90	235	240	235	

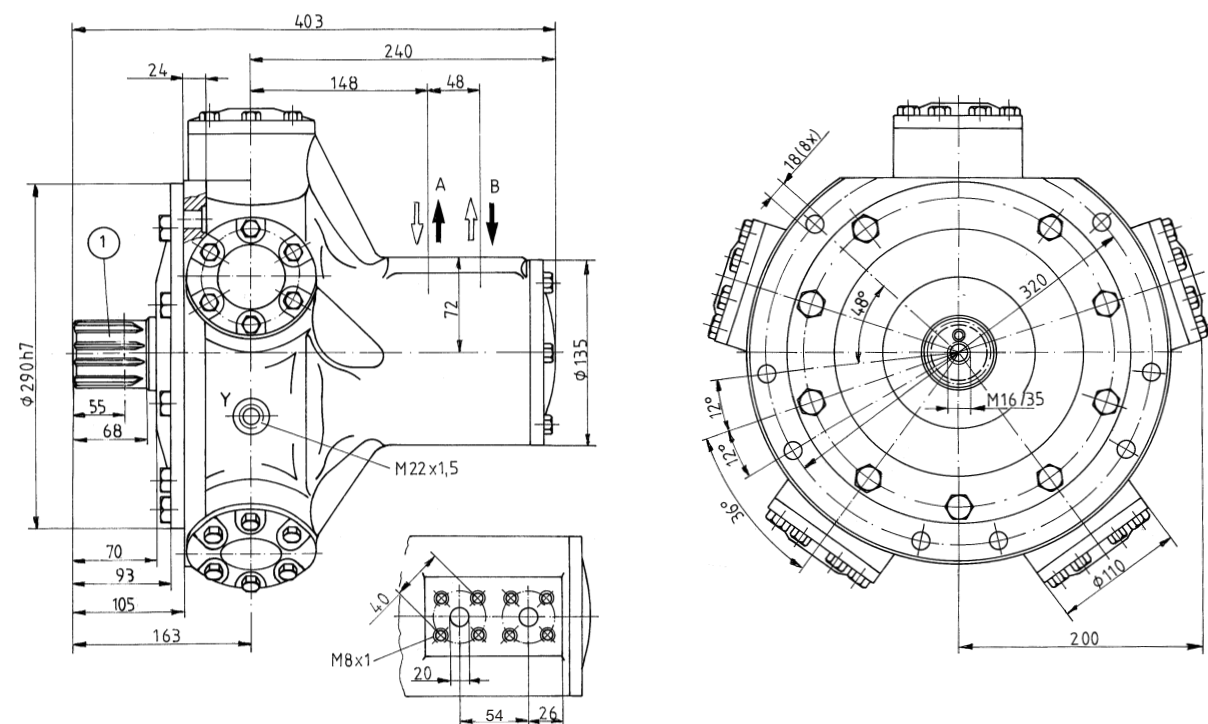
HYDRAULIC

Displacement (cm³)	510	750	1480	1800	2800
Pressure (bar)	nominal 200				
	max 300				
Speed range (rpm)	min 10				
	max	200	200	200	150 100
Forces on shaft* (N)	axial	3000	20000	20000	20000 50000
	radial	12000	40000	40000	40000 100000
Torque (max) (Nm)	2229	2339	6470	7869	12240
Working fluid	mineral oil				
	viscosity (mm²/s)	15 ... 80			
	temperature (°C)	-20 ... +70			

* At 300 rpm and pressure 200 bar

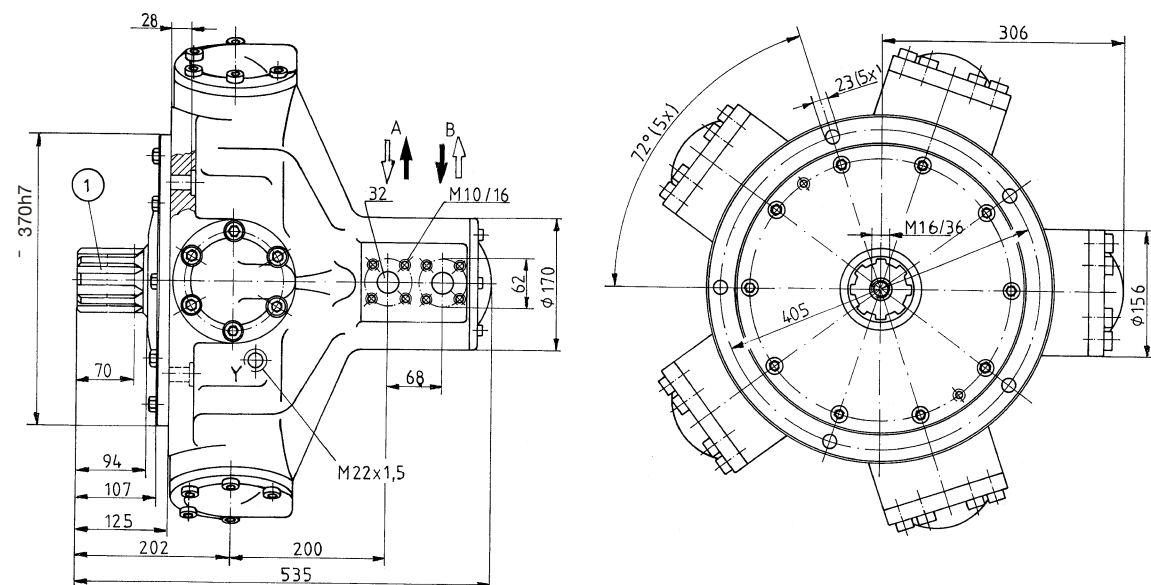
Note:
Hydraulic motors can operate at lower speed than 10 rpm, but under specified conditions. In such a case, consulting is needed.

R1V44-0550



① = shaft form 8x52x58 JUS M.C1.420

R1V44-0750
R1V44-1800

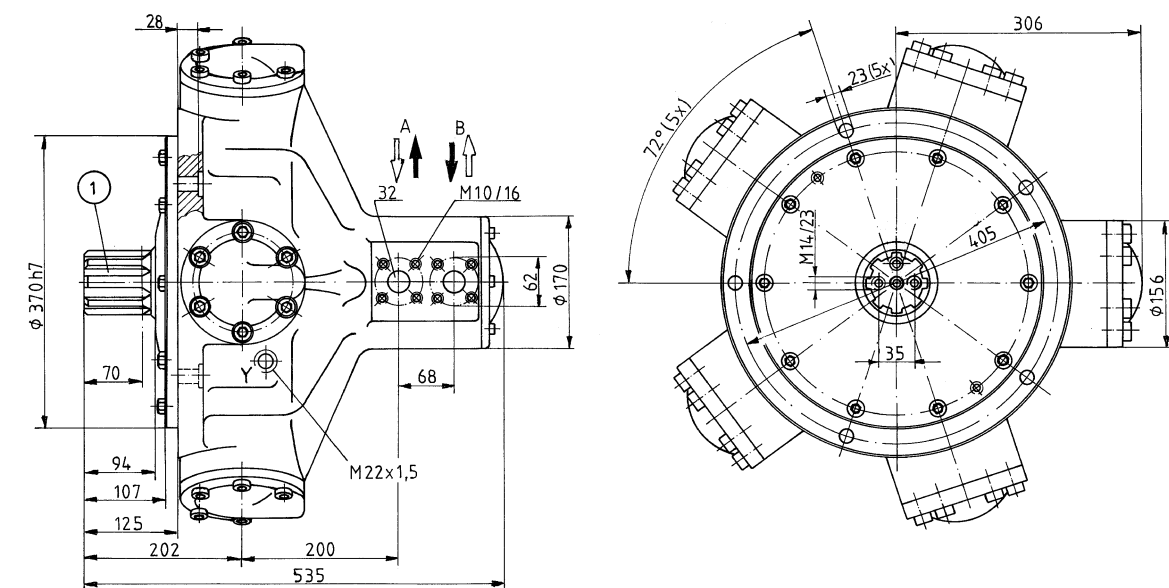


① = shaft form 10x82x92 JUS M.C1.420

③

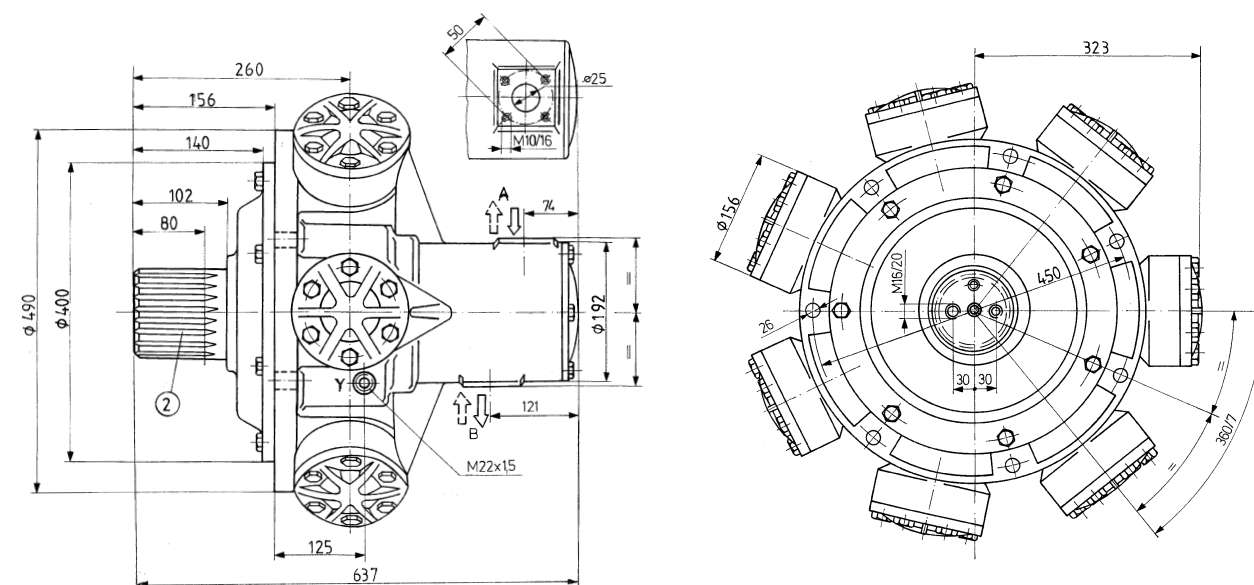
④

R1V44-1480



① = shaft form 10x82x92 JUS M.C1.420

R1V44-2800



② = shaft form 10x102x112 JUS M.C1.421

WARNING

Errors in the selection or use of the products and / or systems described, can cause serious personal injury and property damage. It is critical that all aspects of the application and the operating conditions and products chosen are analyzed and re-examined. Making own tests and evaluations, the user is the only one able to ensure compliance with performance, safety and cautionary use requirements.

The general sales conditions are provided by Revortex in the sales offer and in the order confirmation.

Technical information, drawings, images and material characteristics in this catalog are just informative.

Certifications or declarations must be required during the offer request phase.

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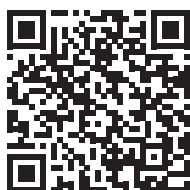
Descriptions, materials, product catalogs and price lists can be changed at any time without previous information.



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