

## ■ GENERAL DESCRIPTION

The BMR hydraulic motor series can be used in medium load applications such as agricultural, metal working and injection molding machines. Its ductile cast iron shell and optimized gerotor provide smooth performance, high efficiency and durability.

## ■ MAIN CHARACTERISTICS

Output Shaft with Deep Groove Ball Bearing can hold certain axial and radial forces.

Built In Check valves offers versatility and increased seal life.

Cycloid Group with the Roller has small friction and higher mechanical efficiency.

Axial Distribution Structure provides less weight and size.

## ■ BMR TECHNICAL SPECIFICATIONS

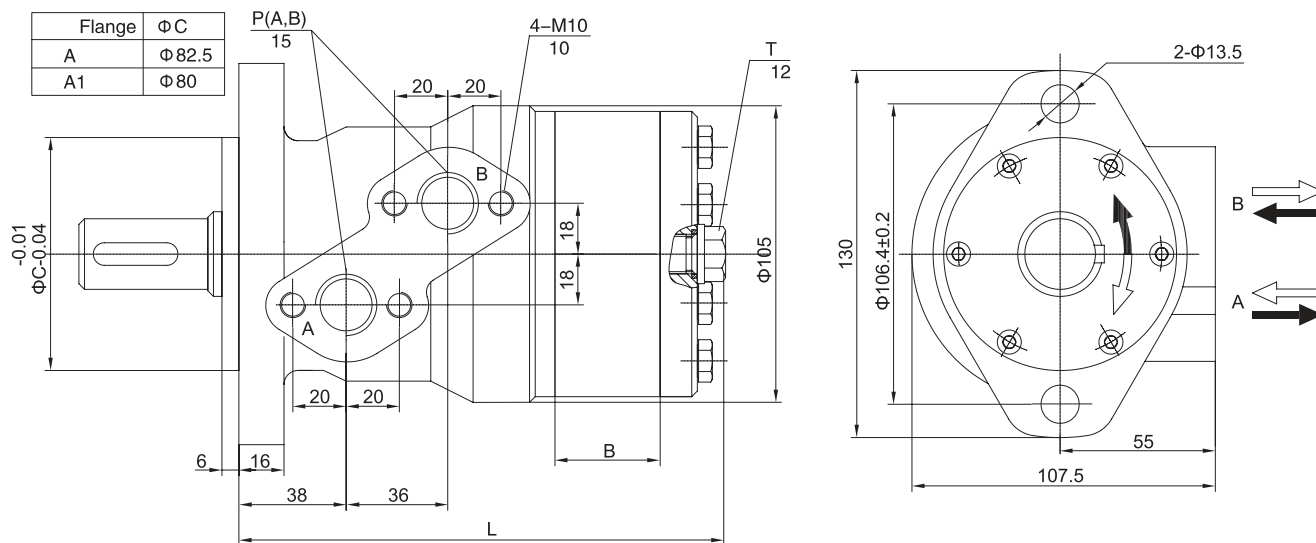
TYPE		BMR-50 BMRW-50	BMR-80 BMRW-80	BMR-100 BMRW-100	BMR-125 BMRW-125	BMR-160 BMRW-160	BMR-200 BMRW-200	BMR-250 BMRW-250	BMR-315 BMRW-315	BMR-400 BMRW-400
Displacement (cm <sup>3</sup> /rev)		51.7	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
Max.Pressure.Drop (Mpa)	cont.	14	14	14	14	14	14	11	9	7
	int.	17.5	17.5	17.5	17.5	17.5	17.5	14	11	9
	peak.	20	20	20	20	20	20	16	13	11
Max.torque (N.m)	cont.	93	152	194	237	310	369	380	380	380
	int.	118	189	236	296	378	450	470	470	470
	peak.	135	216	270	338	433	509	540	540	540
Speed.Range(cont.)(r/min)		10-775	10-750	10-600	9-475	7-375	5-300	5-240	5-190	5-160
Max.Flow(cont.)(L/min)		40	60	60	60	60	60	60	60	60
Max.Output.Power(cont.)(Kw)		7	10	10	10	10	8	6	5	4
Weight (kg)		6.5	6.9	7.0	7.3	7.5	8.0	8.5	9.0	11

Intermittent operation the permissible values may occur for max. 10% of every minute

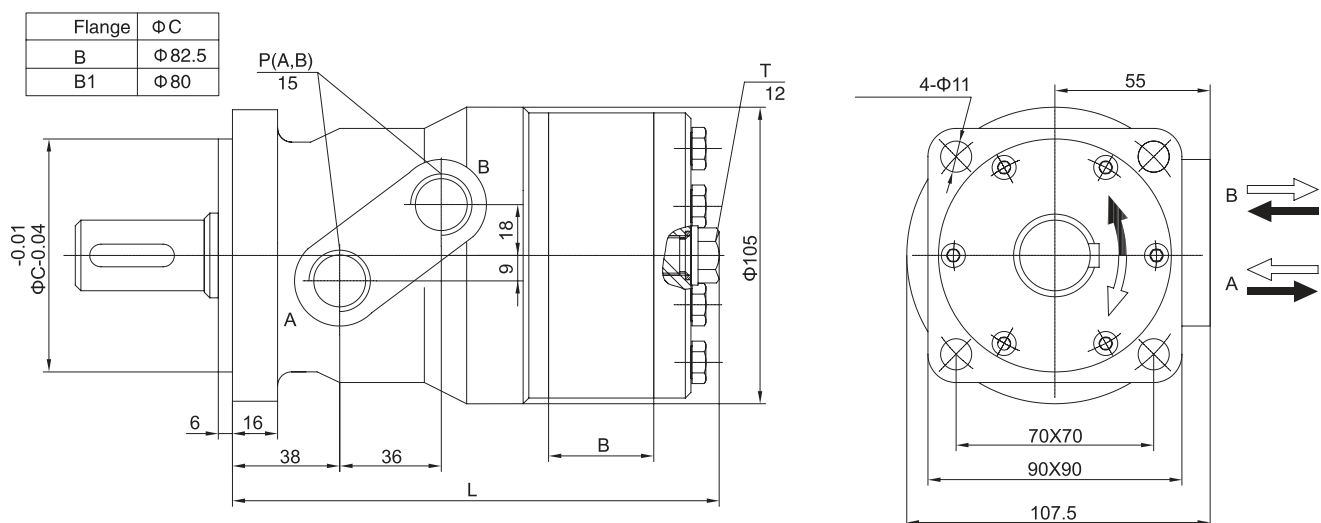
Peak load: the permissible values may occur for max. 1% of every minute

# BMR DIMENSIONS AND MOUNTING DATA

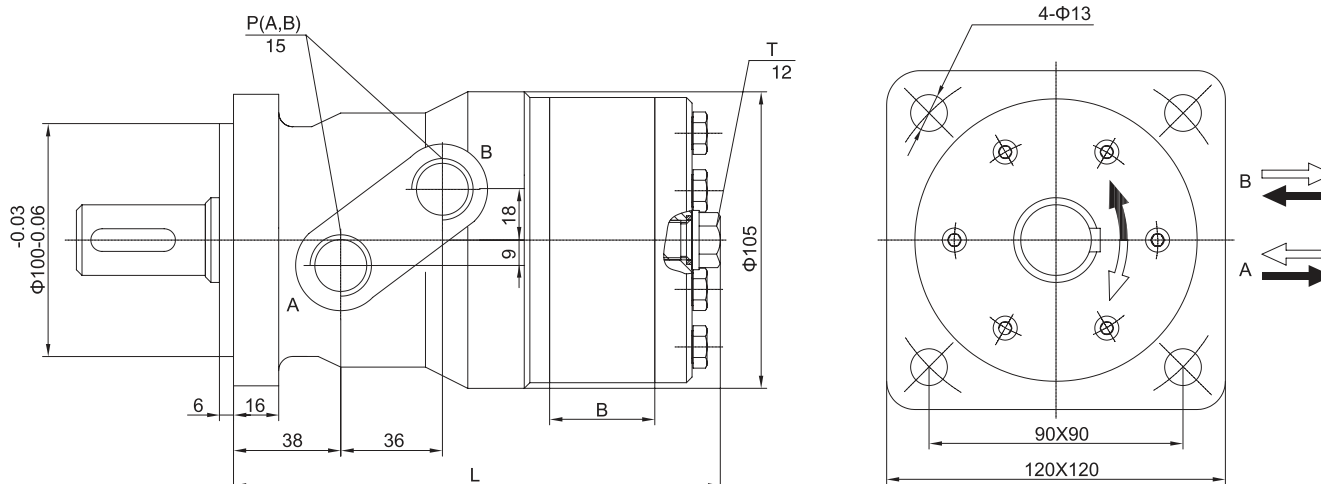
A , A1 Version 2-hole oval flange



B, B1 Version Square flange

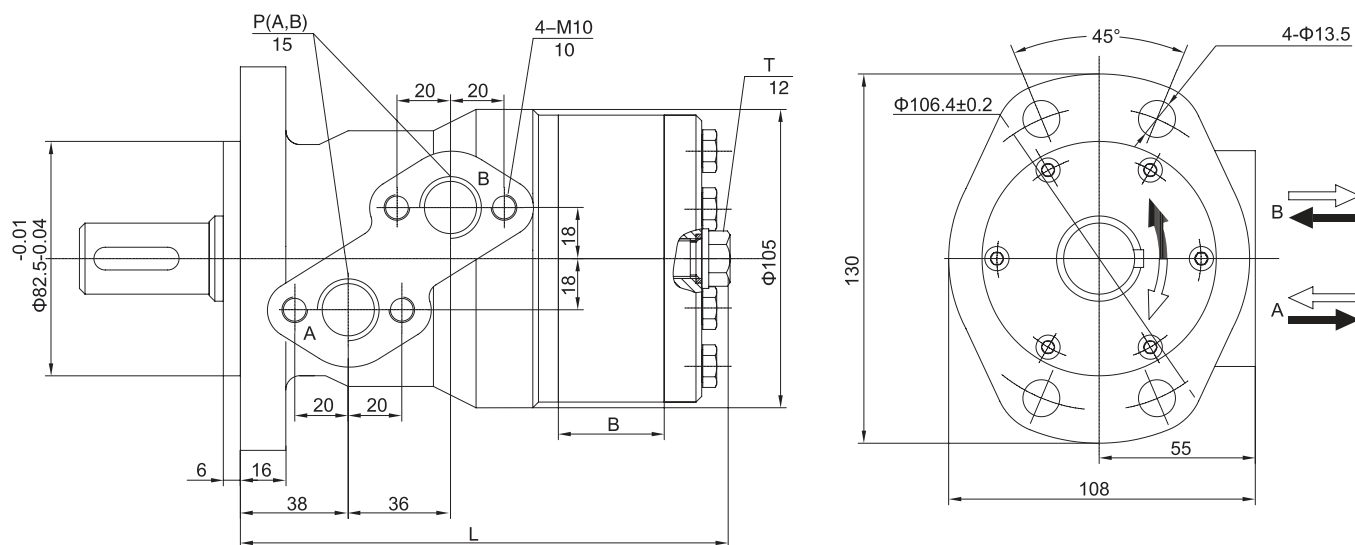


C Version Square flange



# ■ **BMR INSTALLATION AND MOUNTING FLANGE**

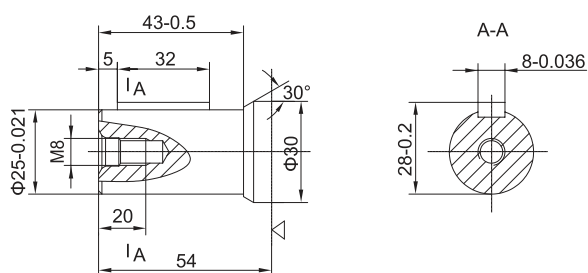
D Version 4-hole oval flange



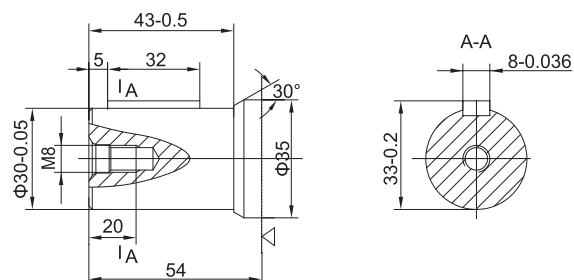
TYPE	BMR-50	BMR-80	BMR-100	BMR-125	BMR-160	BMR-200	BMR-250	BMR-315	BMR-400
L	139	144	148	152	158	165	174	186	200
B	9	14	18	22	28	35	44	56	70

# ■ **BMR SHAFT VERSION**

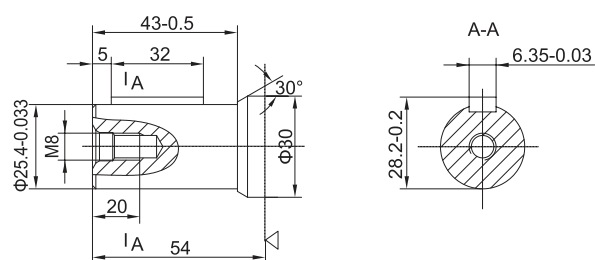
**C 25** Cylindrical shaft, parallel key 8X7X32



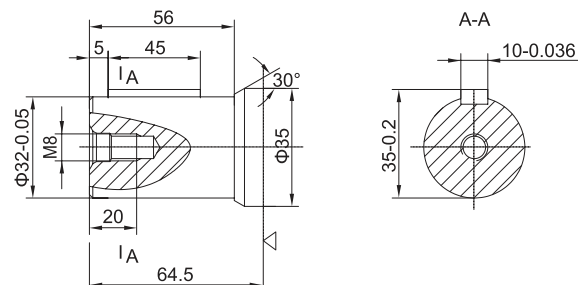
**C 30** Cylindrical shaft, parallel key 8X7X32



**C 25.4** Cylindrical shaft, parallel key 6.35X6.35X32

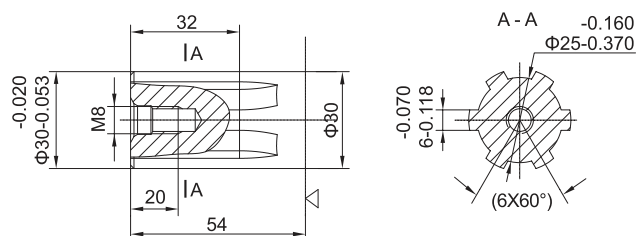


**C 32** Cylindrical shaft, parallel key 10X8X45

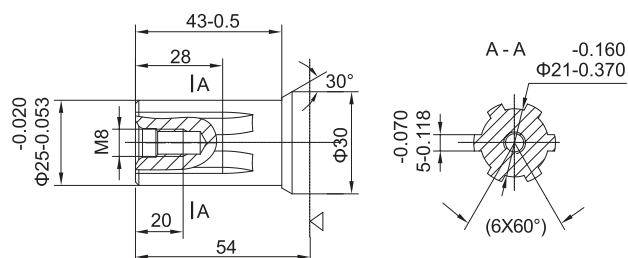


## BMR SHAFT VERSION

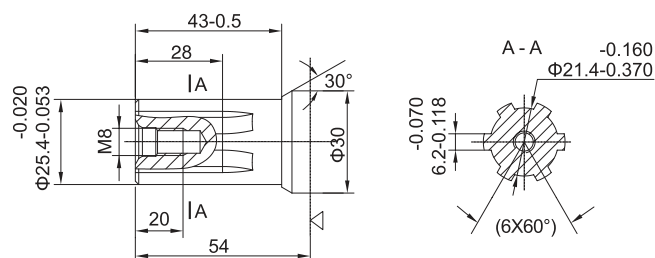
**S 30**  $\Phi 30$  Splined shaft, 6–30X25X6



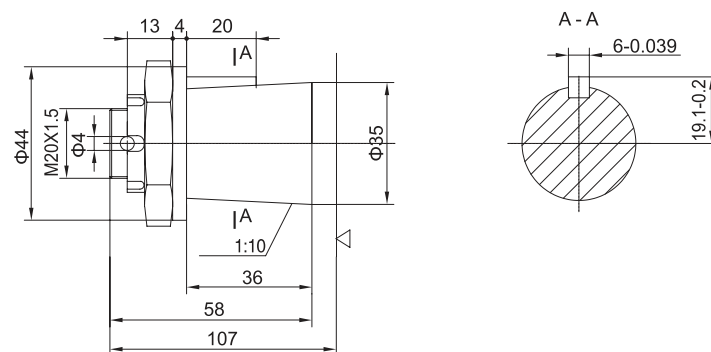
**S 25**  $\Phi 25$  Splined shaft, 6–25X21X5



**S 25.4**  $\Phi 25.4$  Splined shaft, 6–25.4X21.4X6.2



**T 35**  $\Phi 35$  Tapered shaft, taper1: 10, parallel key B6X6X20



## BMR ORDERING CODE

1	2	3	4	5
BMR	-			/

1	Displacement	
50、80、100、125、160、200、250、315、400		
2	Shaft	
C 25	Φ25.8X7X32	
C 30	Φ30.8X7X32	
C 25.4	Φ25.4 6.35X6.35X32	
C 32	Φ32 10X8X45	
S 30	Φ30,6–30X25X6	
S 25	Φ25,6–25X21X5	
S 25.4	Φ25.4,6–25.4X21.4X6.2	
T 35	Φ 35-1:10.B6X6X20	
3	Mounting Flange	
A	2–Φ 13.5	Φ 82.5
A 1	2–Φ 13.5	Φ 80
B	4–Φ 11	Φ 82.5
B1	4–Φ 11	Φ 80
C	4–Φ 13	Φ 100
D	4–Φ 13.5	Φ 82.5

4	Ports
	P(A,B) T
G	G1/2 M14X1.5
M1	M18X1.5 M14X1.5
M2	M22X1.5 M14X1.5
U	7/8-14UNF M14X1.5
N	NPT 1/2 M14X1.5