Technical Catalogue Catalogo Tecnico

EN/IT

RB2MF series
Hydraulic Piston Motors

Revortex

Innovation+High Performance+Durability

Rev©rtex

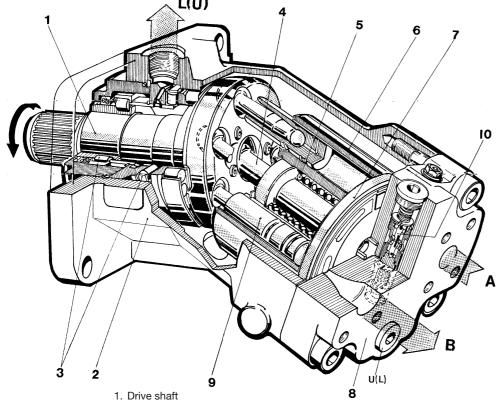
Axial piston motors RB2MF

HIGH PRESSURE - BENT AXIS TYPE - FIXED DISPLACEMENT

- Extremely compact design
- Mounting dimensions correspond to the dimensions of the variable displacement hydraulic motors
- Very robust and rugged rotary group, with shaft that may be loaded with radial forces
- Noiseless operation
- At request, it can be supplied with or without valve for flushing of housing i.e. system. The overall dimensions are not altered if the valve is installed
- These hydraulic motors are to be applied both in open-loop and closed loop hydraulic systems
- An increased efficiency within the whole speed and pressure ranges, inclusive of a high efficiency at starting, characterizes this hydraulic motor.



SECTION - MODE OF OPERATION (MOTOR WITH VALVE FOR FLUSHING OF HOUSING)

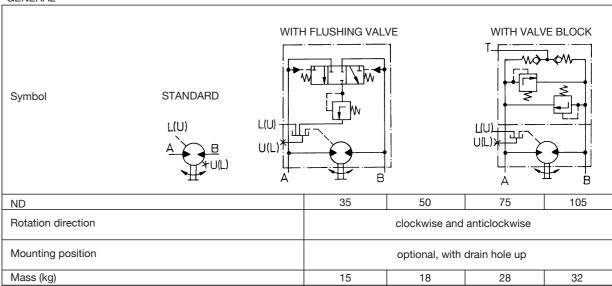


- 2. Housing
- 3. Bearing
- Middle shaft
- 5. Spring
- 6. Cylinder block
- 7. Division plate
- 8. Rider of division plate9. Piston (7 pcs)
- 10. Flushing valve (on request)



TEHNICAL DATA

GENERAL



HYDRAULIC

HYDRAULIC								
Pressure (bar)								
- peek (short time)*		50	0					
- max working		42	0					
- continuous**	250							
- in housing (back pressure permitted)	1,5							
Displacement (cm² o)	34,7	50,2	74,9	104,9				
Speed (r.p.m.)								
- continuous	3900	3600	3300	3000				
- intermitent	4300	4000	3700	3400				

Note: the speed indicated may be exceeded in some cases for short periods of time (e.g. at braking or running through curves), eith increased noise and reduced efficienty.

,	RECOMMENDATION		
1080	Oil working temperature	Viscosity	
1520	3040℃	22 mm²/s - 40°C	
1000	6070℃	68 mm²/s - 40°C	
	8090℃	100 mm²/s - 40°C	
-20+90			
	1080 1520 1000	Oil working temperature 1520 3040°C 6070°C 8090°C	

FILTRATION: The fineness of filtering of 10 µm is recommended. Filtering of 25 to 40 µm can be also applied. But wearing of the unit parts will be increased.



^{*}Translent pressure over the max working pressure at which the unit will still function.

^{**}Continuous pressure at which all parts of the unit are able to endure.

2 Supplementing:

- = standard

C = with flushing valve

W = with valve block With Pressure relief valves

3 Drive shaft:

- = DIN 5482

1 = DIN 5480

2 = SAE standard

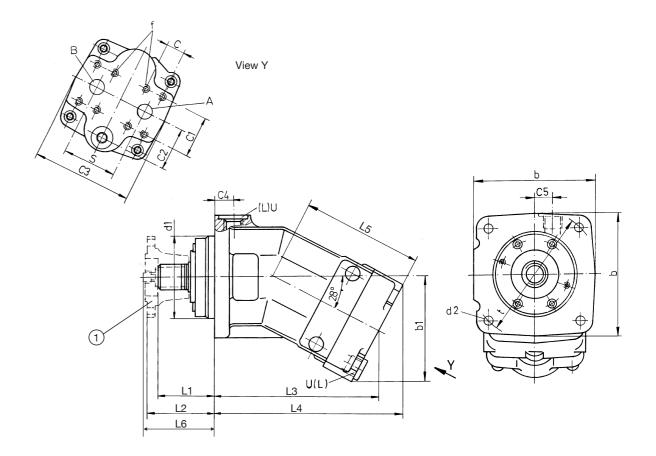
Note: Coupling - on the request only (see page 6)

3

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MOUNTING DRAWING (dimensions in mm)

MOTOR STANDARD AND MOTOR WITH FLUSHING VALVE



A, B = ports $-^{-}19$ flange SAE 3/4" (NV 35, 50) ⁻25 to flange SAE 1" (NV 75, 105)

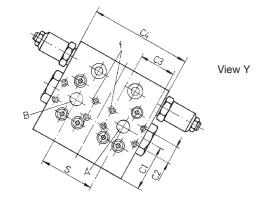
L = drain port M22x1,5

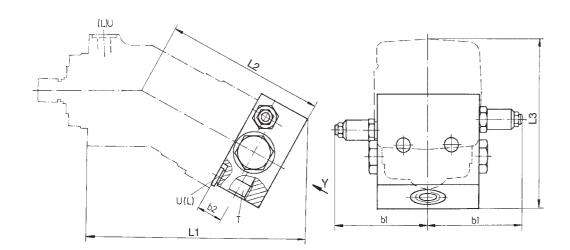
U = flushing port M22x1,5

1 = coupling

NE	□bb	1L	1L	2L	3L	4L	5d	L6	Ø1d	Ø2C		C1	C2	□С3	C4	C5	Sf		t
35	148	126	60,5	67,5	194,7	225	139	73	100	12	22.0	50.0	52,5	100	24	22	22	M10/16	160
50	150	130	74	81,5	202	232	147	85,5	100	12	23,0	50,6	52,5	122	24	22	22	IVI 10/ 16	160
75	170	148	77,5	87,5	244	278	178	92,5	115	14	27.0	57,2	56	1/15	31,5	22	22	M12/16	180
10	184	152	86,5	95,5	260,5	295	188	103,5	125	18	21,0	51,2	50	145	31,3	30	30	10112/10	200







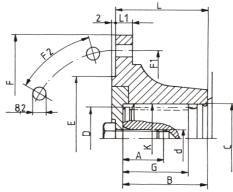
A, B = ports -19 to flange SAE 3/4" (NV 35, 50) ⁻25 to flange SAE 1" (NV 75, 105)

L = drain port M22x1,5

U = flushing port M22x1,5

T = return port M33x2

ND	L1	L2	L3	b1	b2	C1	C2	C3	C4	S	f
35	296	214	234	72,5	35	63	23,8	50,8	150	73	M10/16
50	303	222	235	12,3	33	03	2.5,0	50,0	130	70	14110/10
75	346	253	247	92,5	35	48	27,8	57,2	162	82	M12/16
105	363	263	254	92,3	35	40	21,0	31,2	102	02	14112/10

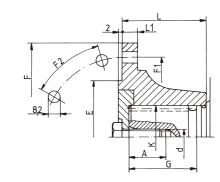


ND	ŀ	<	_	_		2	d	_	_	F4	Ε0			
IND	DIN 5480g9	DIN 5482e9	A	В				E	F	FI	F2	G	-	LI
35	W25x1,25	B25x122	16	38,5	⊠ 25g6	⊠ 20g6	M8	⊠ 57h8	⊠ 99,5	⊠ 84	6x60°	29	45,5	10
50	W30x2	B30x27	21	42,5	⊠ 30,5g6	⊠ 25g6	M8	⊠ 57h8	⊠ 99,5	⊠ 84	6x60°	33	50	10
75	W35x2	B35x31	23	45,5	⊠ 35,5g6	⊠ 30g6	M10	⊠ 75h8	⊠ 114,5	⊠ 101,5	8x45°	36	55,5	12
105	W40x2	B40x36	26,5	50	⊠ 40,5g6	⊠ 35g6	M12	⊠ 75h8	⊠ 114,5	№ 101,5	8x45°	40	59	12

DRIVE SHAFT WITH COUPLING - SAE standard (dimensions in mm)

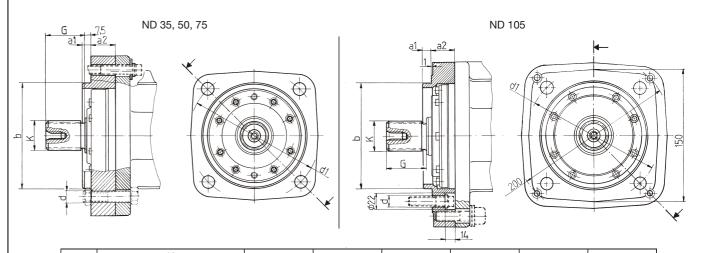
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ND	K SAE J498	А	G	d	Е	F	F1	F2	L	L1
35		23	48	M10	⊠ 57h8	⊠ 99,5	⊠ 84	6x60°	45,5	10
50	12/24; z=14	23	48	M10	⊠ 57h8	⊠ 99,5	⊠ 84	6x60°	50	10
75		23	48	M10	⊠ 75h8	⊠ 114,5	№ 101,5	8x45°	55,5	12
105	16/32; z=23	26,5	48	M12	⊠ 75h8	⊠ 120	⊠ 101,5	8x45°	59	12

MEDFLANGE - SAE standard (dimensions in mm)



ND	K			-0	4	44	h
IND	SAE J498	G	a1	a2	a	d1	ь
35		48	12,5	14,5	⊠ 14	⊠ 162	⊠ 127h8
50	12/24; z=14	48	12,5	24	⊠ 14	⊠ 162	⊠ 127h8
75		48	12,5	24,5	⊠ 14	⊠ 162	⊠ 127h8
105	16/32; z=23	48	10	29	⊠ 15	⊠ 162	⊠ 127h8

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.

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