

Technical Catalogue
Catalogo Tecnico

EN / IT

RZVMB series

Hydraulic Gear Motors

Revortex

Innovation + High Performance + Durability

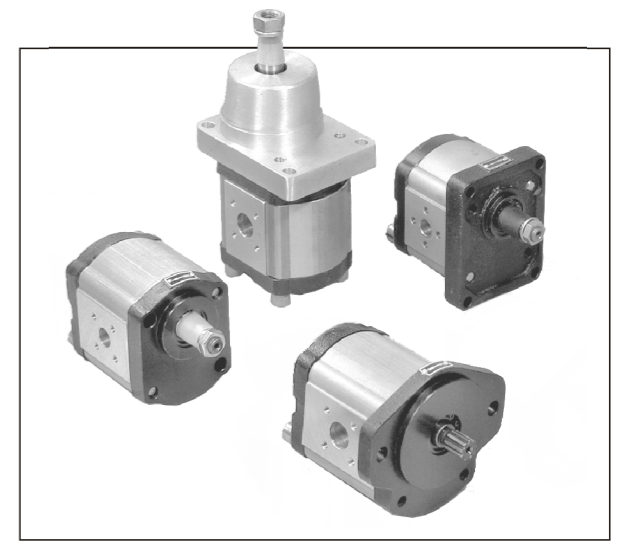
Innovation + High Performance + Durability

Revortex

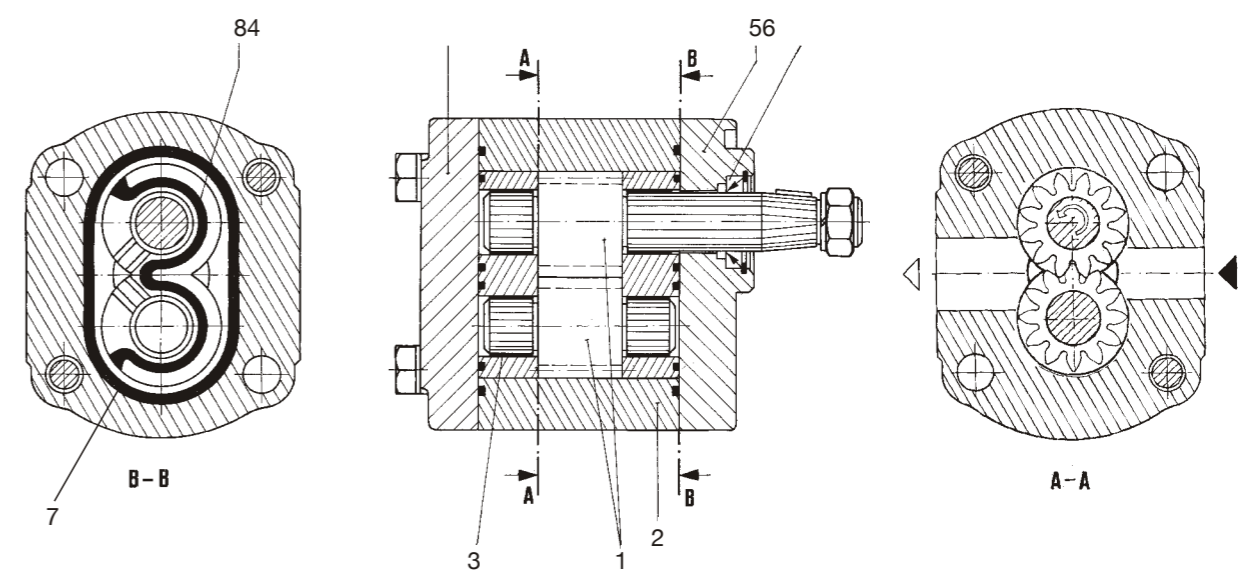
Gear motors RZVMB

HIGH PRESSURE, WITH OUTER GEARING

- High torque
- High volumetric efficiency
- Extruded aluminum body
- The gears have twelve teeth and this keeps both flow pulsation and noise emission to a minimum
- DU bearings ensure high pressure capability
- Special seals boundary of the high pressure zone
- Cast iron front and rear covers
- The drive shaft protrudes from the front cover where it is sealed by the shaft seal
- Serial production with accurate control of quality



SECTION - MODE OF OPERATION



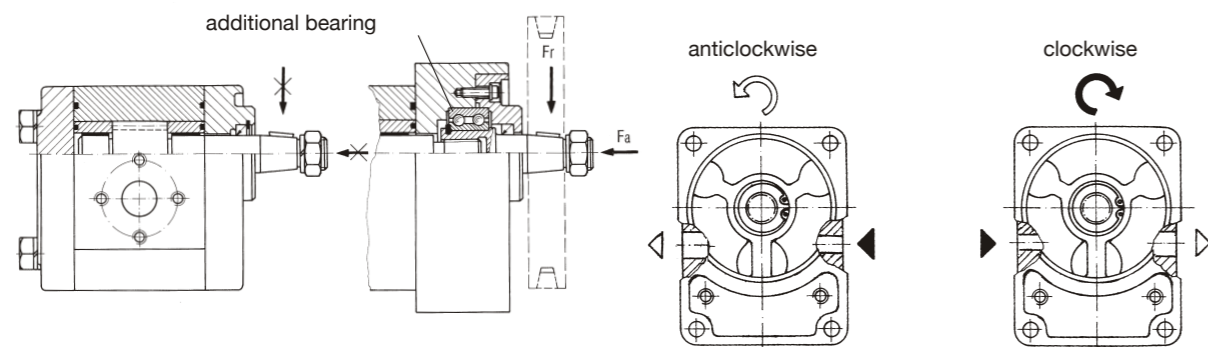
1. Couple of gears
2. Housing
3. Bearings
4. Rear cover
5. Front cover
6. Shaft seal
7. Seal to prevent external leakage
8. Axial clearance compensating seal

DRIVE ARRANGEMENTS

The torque is transferred by flexible coupling. There must be no radial or axial forces to the motor. When the torque is transferred by V - belt or gear wheel, it is necessary to trigger bearing in front cover.

DIRECTION OF ROTATION

Clockwise or anticlockwise (looking on shaft). The motor may only be driven in the direction indicated. Direction of rotation is marked on the front cover.



TECHNICAL DATA

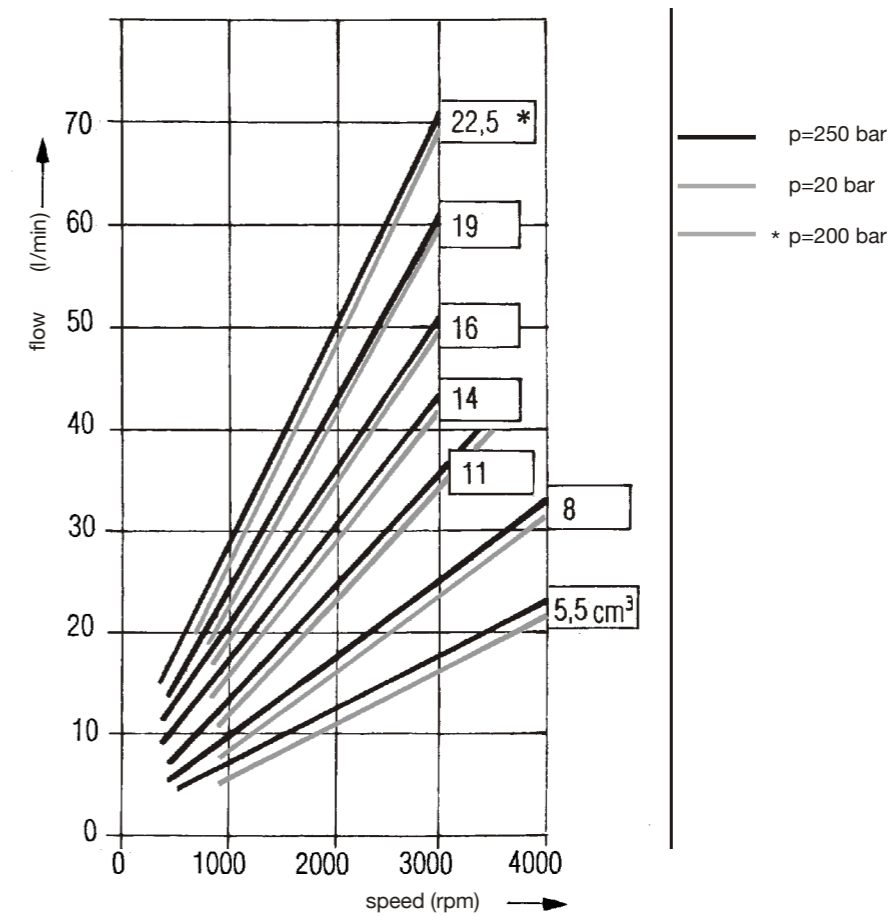
GENERAL

Symbol	
Line connection	threaded ports or flanges
Rotation direction	anticlockwise or clockwise
Mounting position	optional
Drive mode	with torque without additional bearing (rad. i axial forces not perm.) with additional bearing (radial and axial forces permissible)
Ambient temperature (°C)	-20 ... +40

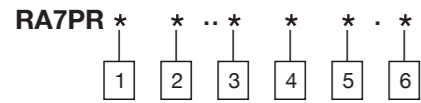
HYDRAULIC

Displacement (cm ³)	5,5	8	11	14	16	19	22,5
Torque max (Nm)	16,9	24,5	33,9	43,3	49,5	50,4	59,9
Speed (rpm)	min	500					
	nominal	1500					
	max	4000	3500	3000			
Pressure (bar)	nominal (inlet)	210				180	
	max starting (inlet)	250				210	
	max (outlet)	≤ 5					
Filtering fineness	25 ... 150						
Working fluid	mineral oil						
	viscosity (mm ² s)	optimal: 16 ... 90		intermittent for starting:		800	
	temperature (°C)	-20 ... +80					

CHARACTERISTIC DIAGRAMS (for oil of 35mm²s viscosity, 50C)



DESIGNATION



1 Size:

F

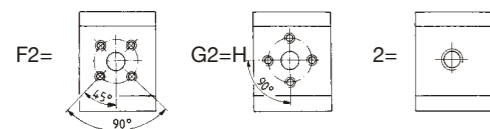
2 Displacement:

- 5 = 5,5 cm³
- 8 = 8 cm³
- 11 = 11 cm³
- 14 = 14 cm³
- 16 = 16 cm³
- 19 = 19 cm³
- 22 = 22,5 cm³

3 Drive shaft:

- A = front cover 1, 3, 4, 9, 10 fits into it
- B = front cover 2 fits into it
- C = front cover 7 fits into it
- D = front cover 1, 2, 3, 4 fits into it
- E = front cover 7 fits into it
- F = front cover 5, 8 fits into it

5 Connection ports:



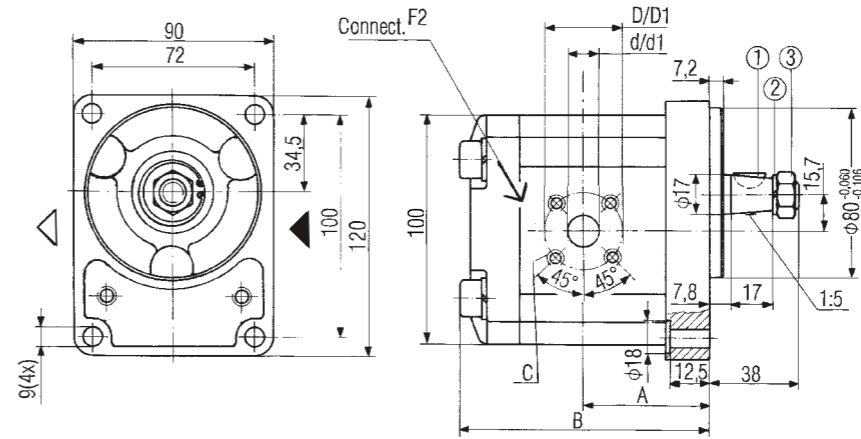
6 Rotation direction:

- L= anticlockwise
- D= clockwise

4 Front cover:

- 1 =
- 2 =
- 3 =
- 4 =
- 5 =
- 7 =
- 8 =
- 19 =
- 10 =

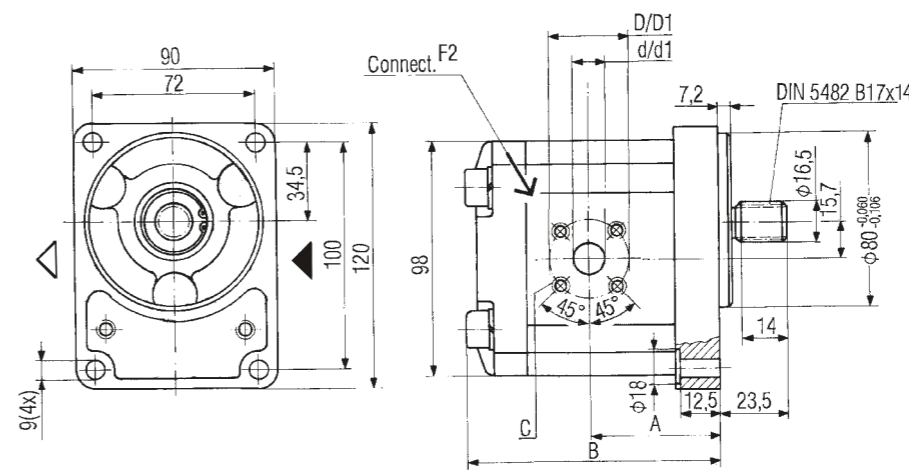
¹⁾ For drive arrangement with V - belt or gearwheel



- ① key 3x5 JUS M.C2.050
- ② washer B12 JUS M.B2.110
- ③ nut M12x1,5 JUS M.B1.601

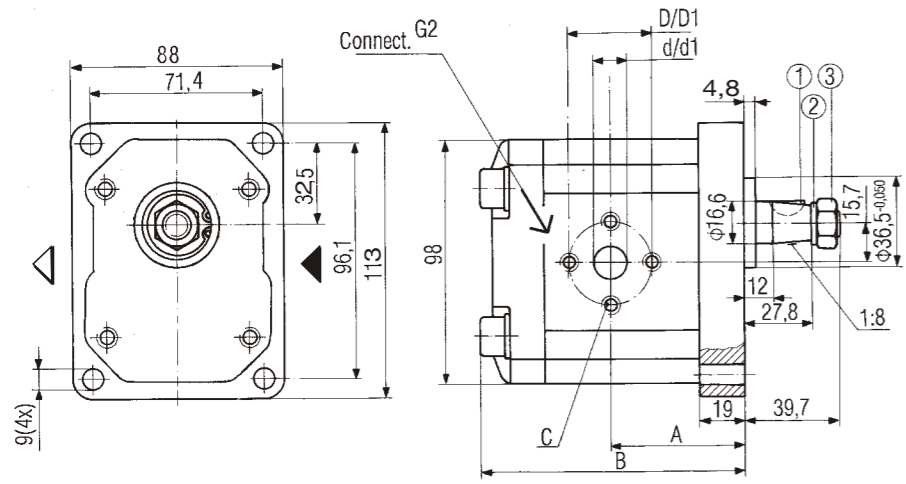
Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F5.A1.F2.L	5,5	41	89	15/15	35/40	M6/13	2,8
RA7PR.F5.A1.F2.D							
RA7PR.F8.A1.F2.L	8	43,1	93,32	15/20	35/40	M6/13	2,9
RA7PR.F8.A1.F2.D							
RA7PR.F11.A1.F2.L	11	47,5	98,33	15/20	35/40	M6/13	3,0
RA7PR.F11.A1.F2.D							
RA7PR.F14.A1.F2.L	14	47,5	103,13	15/20	35/40	M6/13	3,2
RA7PR.F14.A1.F2.D							
RA7PR.F16.A1.F2.L	16	47,5	106,53	15/20	35/40	M6/13	3,4
RA7PR.F16.A1.F2.D							
RA7PR.F19.A1.F2.L	19	47,5	111,53	15/20	35/40	M6/13	3,6
RA7PR.F19.A1.F2.D							
RA7PR.F22.A1.F2.L	22,5	55	116,93	15/20	35/40	M6/13	3,8
RA7PR.F22.A1.F2.D							



Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

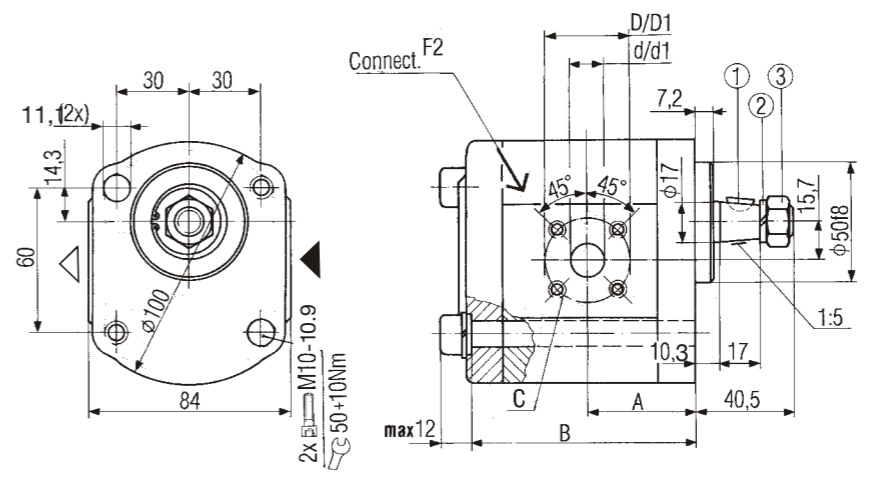
Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F5.D1.F2.L	5,5	41	89	15/15	35/40	M6/13	2,8
RA7PR.F5.D1.F2.D							
RA7PR.F8.D1.F2.L	8	43,1	93,32	15/20	35/40	M6/13	2,9
RA7PR.F8.D1.F2.D							
RA7PR.F11.D1.F2.L	11	47,5	98,33	15/20	35/40	M6/13	3,0
RA7PR.F11.D1.F2.D							
RA7PR.F14.D1.F2.L	14	47,5	103,13	15/20	35/40	M6/13	3,2
RA7PR.F14.D1.F2.D							
RA7PR.F16.D1.F2.L	16	47,5	106,53	15/20	35/40	M6/13	3,4
RA7PR.F16.D1.F2.D							
RA7PR.F19.D1.F2.L	19	47,5	111,53	15/20	35/40	M6/13	3,6
RA7PR.F19.D1.F2.D							
RA7PR.F22.D1.F2.L	22,5	55	116,93	15/20	35/40	M6/13	3,8
RA7PR.F22.D1.F2.D							



- ① key 3x5 JUS M.C2.050
- ② washer B12 JUS M.B2.110
- ③ nut M12x1,5 JUS M.B1.601

Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

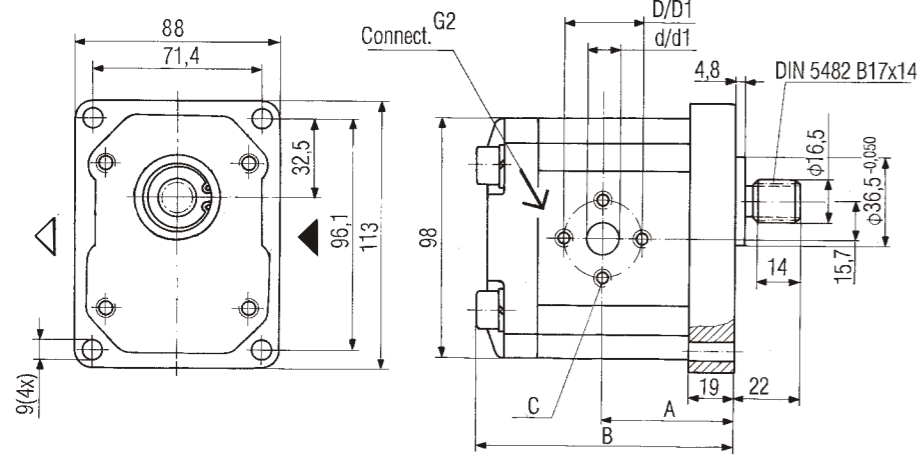
Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F5.B2.G2.L	5,5	42,5	89	13,5/13,5	30,2/30,2	M6/13	2,8
RA7PR.F5.B2.G2.D							
RA7PR.F8.B2.G2.L	8	44,6	93,32	13,5/20	30,2/39,7	M8/13	2,9
RA7PR.F8.B2.G2.D							
RA7PR.F11.B2.G2.L	11	49	98,33	13,5/20	30,2/39,7	M6/13	3,0
RA7PR.F11.B2.G2.D							
RA7PR.F14.B2.G2.L	14	49	103,13	13,5/20	30,2/39,7	M6/13	3,2
RA7PR.F14.B2.G2.D							
RA7PR.F16.B2.G2.L	16	49	106,53	13,5/20	30,2/39,7	M6/13	3,4
RA7PR.F16.B2.G2.D							
RA7PR.F19.B2.G2.L	19	49	111,53	13,5/20	30,2/39,7	M6/13	3,6
RA7PR.F19.B2.G2.D							
RA7PR.F22.B2.G2.L	22,5	56,6	116,93	13,5/20	30,2/39,7	M6/13	3,8
RA7PR.F22.B2.G2.D							



- ① key 3x5 JUS M.C2.050
- ② washer B12 JUS M.B2.110
- ③ nut M12x1,5 JUS M.B1.601

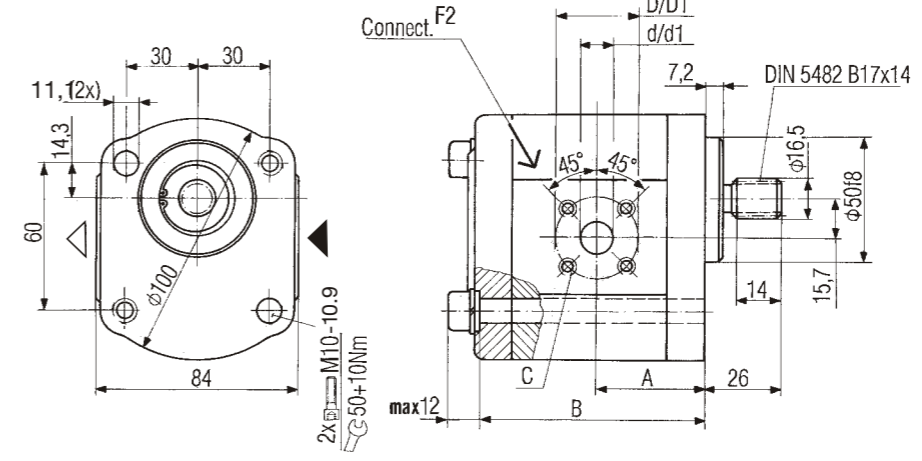
Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F5.A3.F2.L	5,5	38,7	76,2	15/15	35/40	M6/13	2,4
RA7PR.F5.A3.F2.D							
RA7PR.F8.A3.F2.L	8	40,7	80,32	15/20	35/40	M6/13	2,5
RA7PR.F8.A3.F2.D							
RA7PR.F11.A3.F2.L	11	44,5	85,32	15/20	35/40	M6/13	2,6
RA7PR.F11.A3.F2.D							
RA7PR.F14.A3.F2.L	14	45	90,32	15/20	35/40	M6/13	2,8
RA7PR.F14.A3.F2.D							
RA7PR.F16.A3.F2.L	16	45	93,73	15/20	35/40	M6/13	3,0
RA7PR.F16.A3.F2.D							
RA7PR.F19.A3.F2.L	19	45	98,7	15/20	35/40	M6/13	3,2
RA7PR.F19.A3.F2.D							
RA7PR.F22.A3.F2.L	22,5	58,6	116,13	15/20	35/40	M6/13	3,5
RA7PR.F22.A3.F2.D							



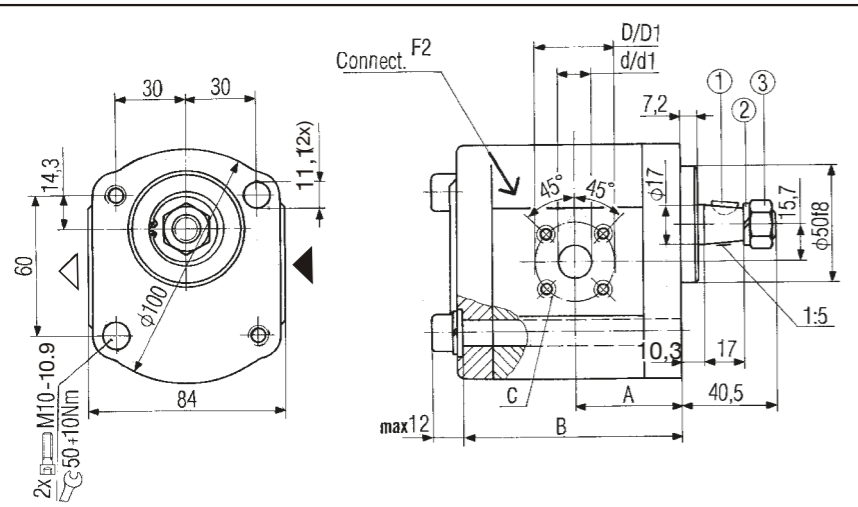
Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F5.D2.G2.L	5,5	42,5	89	13,5/13,5	30,2/30,2	M6/13	2,8
RA7PR.F5.D2.G2.D							
RA7PR.F8.D2.G2.L	8	44,6	93,32	13,5/20	30,2/39,7	M8/13	2,9
RA7PR.F8.D2.G2.D							
RA7PR.F11.D2.G2.L	11	49	98,33	13,5/20	30,2/39,7	M6/13	3,0
RA7PR.F11.D2.G2.D							
RA7PR.F14.D2.G2.L	14	49	103,13	13,5/20	30,2/39,7	M6/13	3,2
RA7PR.F14.D2.G2.D							
RA7PR.F16.D2.G2.L	16	49	106,53	13,5/20	30,2/39,7	M6/13	3,4
RA7PR.F16.D2.G2.D							
RA7PR.F19.D2.G2.L	19	49	111,53	13,5/20	30,2/39,7	M6/13	3,6
RA7PR.F19.D2.G2.D							
RA7PR.F22.D2.G2.L	22,5	56,6	116,93	13,5/20	30,2/39,7	M6/13	3,8
RA7PR.F22.D2.G2.D							



Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

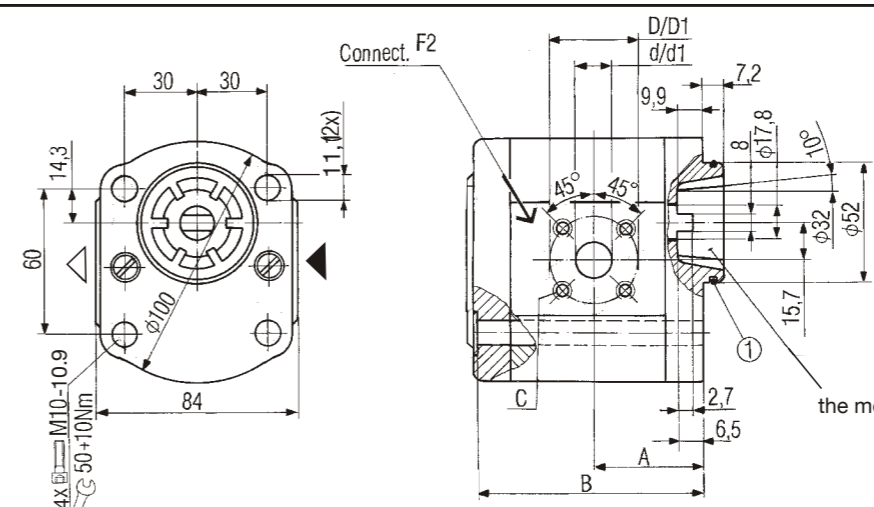
Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F5.D3.F2.L	5,5	38,7	76,2	15/15	35/40	M6/13	2,4
RA7PR.F5.D3.F2.D							
RA7PR.F8.D3.F2.L	8	40,7	80,3	15/20	35/40	M6/13	2,5
RA7PR.F8.D3.F2.D							
RA7PR.F11.D3.F2.L	11	44,5	85,3	15/20	35/40	M6/13	2,6
RA7PR.F11.D3.F2.D							
RA7PR.F14.D3.F2.L	14	45	90,3	15/20	35/40	M6/13	2,8
RA7PR.F14.D3.F2.D							
RA7PR.F16.D3.F2.L	16	45	93,7	15/20	35/40	M6/13	3,0
RA7PR.F16.D3.F2.D							
RA7PR.F19.D3.F2.L	19	45	98,7	15/20	35/40	M6/13	3,2
RA7PR.F19.D3.F2.D							
RA7PR.F22.D3.F2.L	22,5	58,6	116,1	15/20	35/40	M6/13	3,5
RA7PR.F22.D3.F2.D							



- ① key 3x5 JUS M.C2.050
- ② washer B12 JUS M.B2.110
- ③ nut M12x1,5 JUS M.B1.601

Note: Pump with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port (mm)		C	Mass (kg)
				d/d1	D/D1		
RA7PR.F5.A4.F2.L	5,5	38,7	76,2	15/15	35/40	M6/13	2,4
RA7PR.F5.A4.F2.D							
RA7PR.F8.A4.F2.L	8	40,7	80,32	15/20	35/40	M6/13	2,5
RA7PR.F8.A4.F2.D							
RA7PR.F11.A4.F2.L	11	44,5	85,32	15/20	35/40	M6/13	2,6
RA7PR.F11.A4.F2.D							
RA7PR.F14.A4.F2.L	14	45	90,32	15/20	35/40	M6/13	2,8
RA7PR.F14.A4.F2.D							
RA7PR.F16.A4.F2.L	16	45	93,73	15/20	35/40	M6/13	3,0
RA7PR.F16.A4.F2.D							
RA7PR.F19.A4.F2.L	19	45	98,7	15/20	35/40	M6/13	3,2
RA7PR.F19.A4.F2.D							
RA7PR.F22.A4.F2.L	22,5	58,6	116,13	15/20	35/40	M6/13	3,5
RA7PR.F22.A4.F2.D							

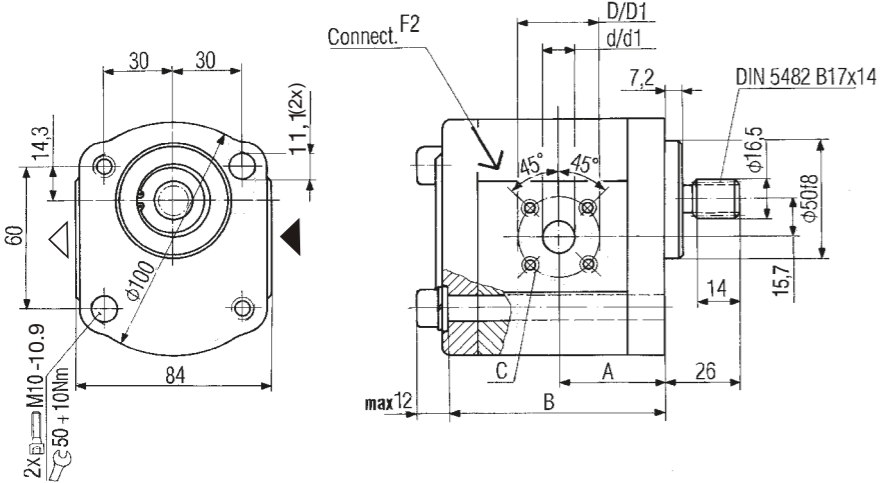


- ① O - ring 46,3x2,4

Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

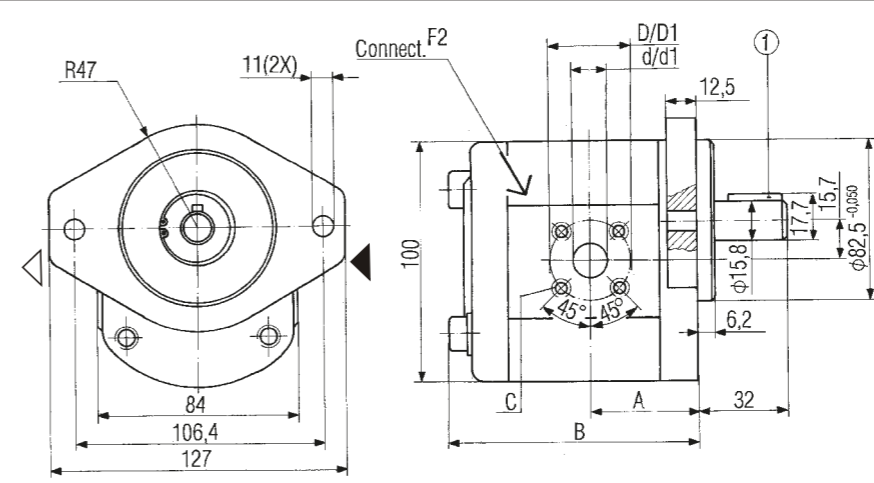
the motor is without shaft seal

Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port (mm)		C	Mass (kg)
				d/d1	D/D1		
RA7PR.F5.F5.F2.L	5,5	38,7	76,2	15/15	35/40	M6/13	2,4
RA7PR.F5.F5.F2.D							
RA7PR.F8.F5.F2.L	8	40,7	80,32	15/20	35/40	M6/13	2,5
RA7PR.F8.F5.F2.D							
RA7PR.F11.F5.F2.L	11	44,5	85,32	15/20	35/40	M6/13	2,6
RA7PR.F11.F5.F2.D							
RA7PR.F14.F5.F2.L	14	45	90,32	15/20	35/40	M6/13	2,8
RA7PR.F14.F5.F2.D							
RA7PR.F16.F5.F2.L	16	45	93,73	15/20	35/40	M6/13	3,0
RA7PR.F16.F5.F2.D							
RA7PR.F19.F5.F2.L	19	45	98,7	15/20	35/40	M6/13	3,2
RA7PR.F19.F5.F2.D							
RA7PR.F22.F5.F2.L	22,5	52,6	104,13	15/20	35/40	M6/13	3,4
RA7PR.F22.F5.F2.D							



Note: Pump with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

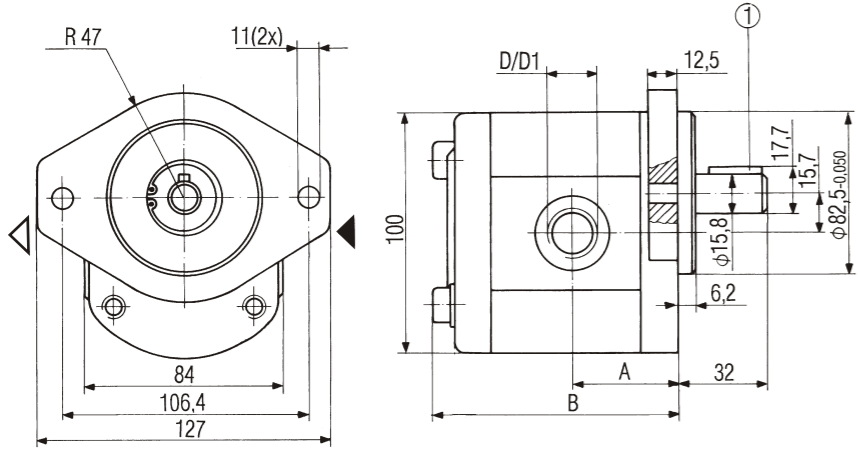
Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port (mm)		C	Mass (kg)
				d/d1	D/D1		
RA7PR.F5.D4.F2.L	5,5	38,7	76,2	15/15	35/40	M6/13	2,4
RA7PR.F5.D4.F2.D							
RA7PR.F8.D4.F2.L	8	40,7	80,3	15/20	35/40	M6/13	2,5
RA7PR.F8.D4.F2.D							
RA7PR.F11.D4.F2.L	11	44,5	85,3	15/20	35/40	M6/13	2,6
RA7PR.F11.D4.F2.D							
RA7PR.F14.D4.F2.L	14	45	90,3	15/20	35/40	M6/13	2,8
RA7PR.F14.D4.F2.D							
RA7PR.F16.D4.F2.L	16	45	93,7	15/20	35/40	M6/13	3,0
RA7PR.F16.D4.F2.D							
RA7PR.F19.D4.F2.L	19	45	98,7	15/20	35/40	M6/13	3,2
RA7PR.F19.D4.F2.D							
RA7PR.F22.D4.F2.L	22,5	58,6	116,1	15/20	35/40	M6/13	3,5
RA7PR.F22.D4.F2.D							



- ① key A4x4x20 JUS M.C2.060

Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

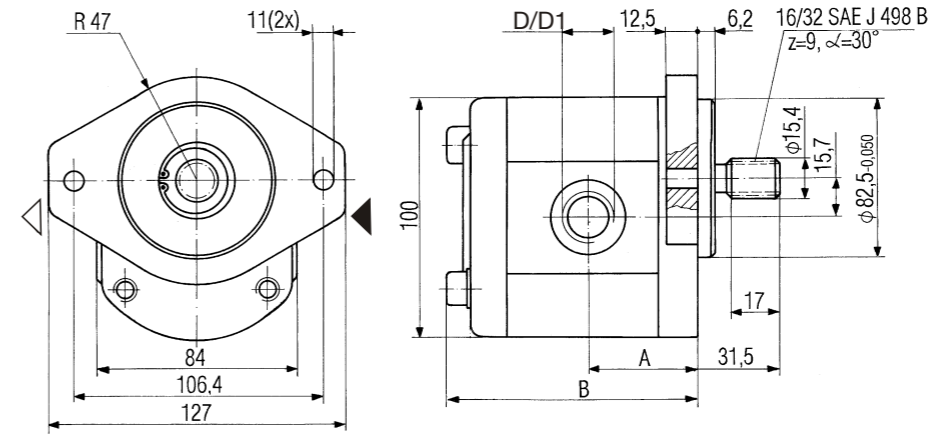
Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port (mm)		C	Mass (kg)
				d/d1	D/D1		
RA7PR.F5.C7.F2.L	5,5	41,1	90,9	15/15	35/40	M6/13	3,1
RA7PR.F5.C7.F2.D							
RA7PR.F8.C7.F2.L	8	43,29	5	15/20	35/40	M6/13	3,2
RA7PR.F8.C7.F2.D							
RA7PR.F11.C7.F2.L	11	47	100	15/20	35/40	M6/13	3,4
RA7PR.F11.C7.F2.D							
RA7PR.F16.C7.F2.L	16	47,5	108,4	15/20	35/40	M6/13	3,6
RA7PR.F16.C7.F2.D							
RA7PR.F19.C7.F2.L	19	47,5	113,4	15/20	35/40	M6/13	3,7
RA7PR.F19.C7.F2.D							
RA7PR.F22.C7.F2.L	22,5	55,1	118,8	15/20	35/40	M6/13	3,8
RA7PR.F22.C7.F2.D							



① key A4x4x20 JUS M.C2.060

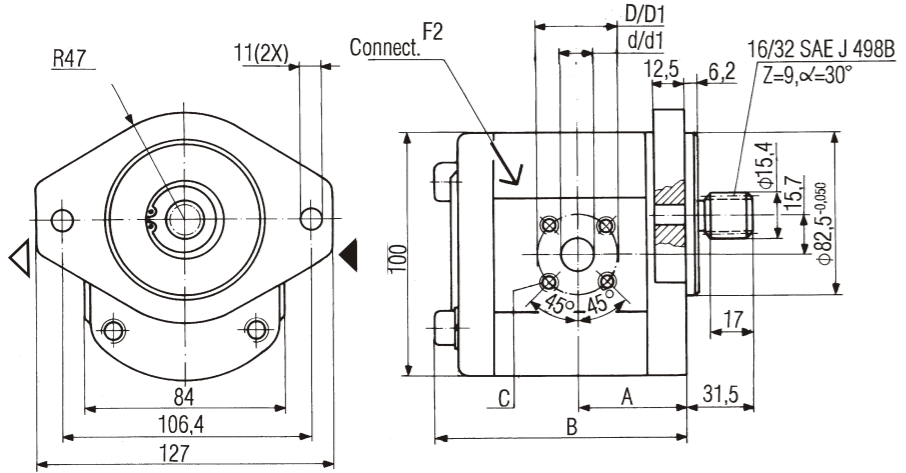
Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port	Outlet port	Mass (kg)
				DD	1	
(mm)						
RA7PR.F5.C7.H2.L	5,5	41,1	90,9	M16x1,5M	16x1,5	3,1
RA7PR.F5.C7.H2.D						
RA7PR.F8.C7.H2.L	8	43,23	95	M22x1,5M	22x1,5	3,2
RA7PR.F8.C7.H2.D						
RA7PR.F11.C7.H2.L	11	47	100	M22x1,5M	27x2	3,3
RA7PR.F11.C7.H2.D						
RA7PR.F14.C7.H2.L	14	47,53	105			
RA7PR.F14.C7.H2.D						
RA7PR.F16.C7.H2.L	16	47,5	108,4			
RA7PR.F16.C7.H2.D						
RA7PR.F19.C7.H2.L	19	47,5	113,4			
RA7PR.F19.C7.H2.D						
RA7PR.F22.C7.H2.L	22,5	55,1	118,8			
RA7PR.F22.C7.H2.D						



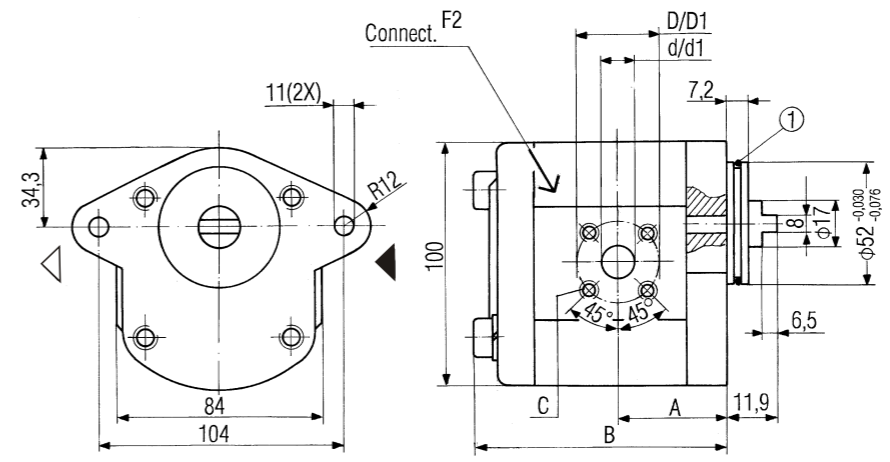
Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port	Outlet port	Mass (kg)
				D	D1	
(mm)						
RA7PR.F5.E7.H2.L	5,5	41,1	90,9	M16x1,5	M16x1,5	3,1
RA7PR.F5.E7.H2.D						
RA7PR.F8.E7.H2.L	8	43,29	5	M22x1,5	M22x1,5	3,2
RA7PR.F8.E7.H2.D						
RA7PR.F11.E7.H2.L	11	47	100	M22x1,5	M27x2	3,3
RA7PR.F11.E7.H2.D						
RA7PR.F14.E7.H2.L	14	47,5	105			
RA7PR.F14.E7.H2.D						
RA7PR.F16.E7.H2.L	16	47,5	108,4			
RA7PR.F16.E7.H2.D						
RA7PR.F19.E7.H2.L	19	47,5	113,4			
RA7PR.F19.E7.H2.D						
RA7PR.F22.E7.H2.L	22,5	55,1	118,8			
RA7PR.F22.E7.H2.D						



Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

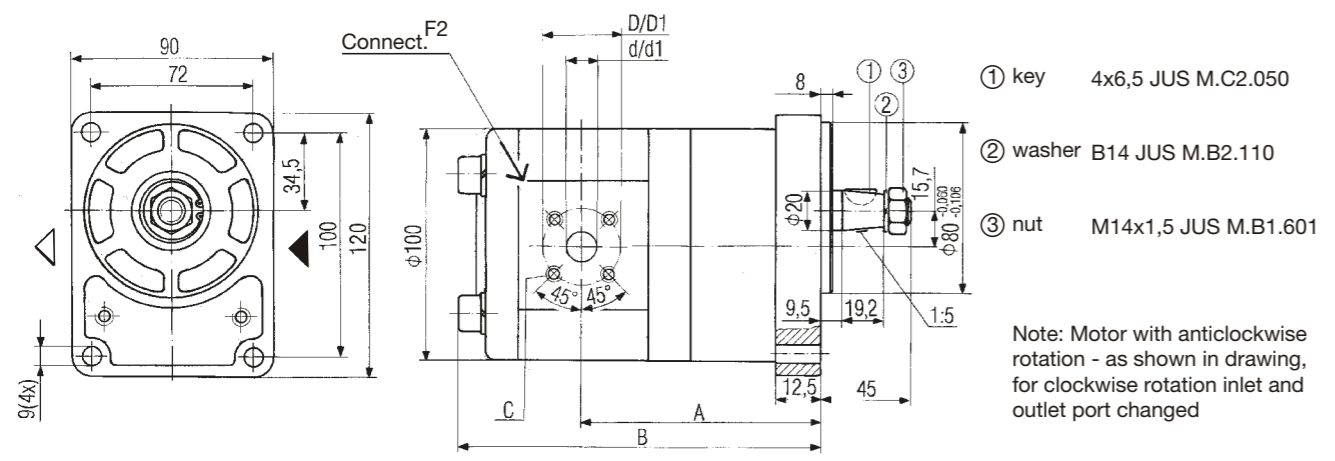
Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port	C	Mass (kg)
				d/d1 D/D1		
(mm)						
RA7PR.F5.E7.F2.L	5,5	41,1	90,9	15/15	M6/13	2,8
RA7PR.F5.E7.F2.D						
RA7PR.F8.E7.F2.L	8	43,2	95	15/20		
RA7PR.F8.E7.F2.D						
RA7PR.F11.E7.F2.L	11	47	100			
RA7PR.F11.E7.F2.D						
RA7PR.F14.E7.F2.L	14	47,5	105			
RA7PR.F14.E7.F2.D						
RA7PR.F16.E7.F2.L	16	47,5	108,4			
RA7PR.F16.E7.F2.D						
RA7PR.F19.E7.F2.L	19	47,5	113,4			
RA7PR.F19.E7.F2.D						
RA7PR.F22.E7.F2.L	22,5	55,1	118,8			
RA7PR.F22.E7.F2.D						



① O - ring 46,3x2,4

Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

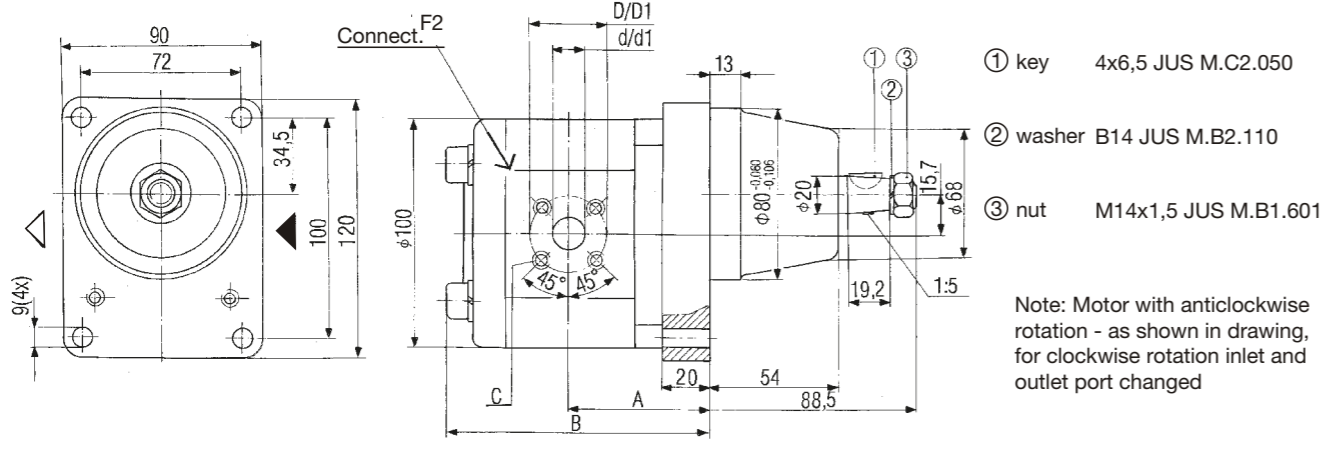
Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port	C	Mass (kg)
				d/d1 D/D1		
(mm)						
RA7PR.F5.F8.F2.L	5,5	38,6	85,2	15/15	M6/13	2,4
RA7PR.F5.F8.F2.D						
RA7PR.F8.F8.F2.L	8	40,6	89,3	15/20		
RA7PR.F8.F8.F2.D						
RA7PR.F11.F8.F2.L	11	44,5	94,1			
RA7PR.F11.F8.F2.D						
RA7PR.F16.F8.F2.L	16	45	102,7			
RA7PR.F16.F8.F2.D						
RA7PR.F22.F8.F2.L	22,5	58,5	125,2			
RA7PR.F22.F8.F2.D						



- ① key 4x6,5 JUS M.C2.050
- ② washer B14 JUS M.B2.110
- ③ nut M14x1,5 JUS M.B1.601

Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F5.A9.F2.L	5,5	72,6	119,2	15/15	35/40	M6/13	3,4
RA7PR.F5.A9.F2.D							
RA7PR.F8.A9.F2.L	8	74,7	121,53	15/20	35/40	M6/13	3,5
RA7PR.F8.A9.F2.D							
RA7PR.F11.A9.F2.L	11	79	126,53	15/20	35/40	M6/13	3,6
RA7PR.F11.A9.F2.D							
RA7PR.F16.A9.F2.L	16	79	134,94	15/20	35/40	M6/13	4,0
RA7PR.F16.A9.F2.D							
RA7PR.F19.A9.F2.L	19	79	134,94	15/20	35/40	M6/13	4,2
RA7PR.F19.A9.F2.D							



- ① key 4x6,5 JUS M.C2.050
- ② washer B14 JUS M.B2.110
- ③ nut M14x1,5 JUS M.B1.601

Note: Motor with anticlockwise rotation - as shown in drawing, for clockwise rotation inlet and outlet port changed

Designation	Displacement (cm ³)	AB		Inlet port/ Outlet port d/d1 D/D1 (mm)		C	Mass (kg)
RA7PR.F11.A10.F2.L	11	64,5	113,8	15/20	35/40	M6/13	17,9
RA7PR.F11.A10.F2.D							
RA7PR.F14.A10.F2.L	14	65,5	119,1	15/20	35/40	M6/13	19,1
RA7PR.F14.A10.F2.D							
RA7PR.F16.A10.F2.L	16	65,5	122,5	15/20	35/40	M6/13	21,3
RA7PR.F16.A10.F2.D							
RA7PR.F19.A10.F2.L	19	78,6	127,5	15/20	35/40	M6/13	24,3
RA7PR.F19.A10.F2.D							
RA7PR.F22.A10.F2.L	22,5	78,6	144,9	15/20	35/40	M6/13	28,8
RA7PR.F22.A10.F2.D							

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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