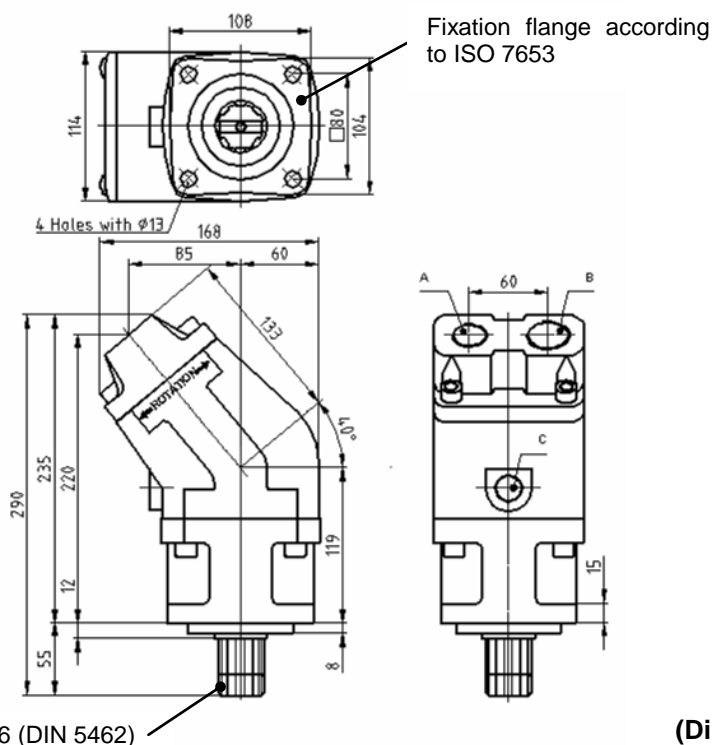


Main Dimensions



(Dimensions in mm)

Main Data

Pumps BI	60M7	80M7
Displacement (cm ³ /rot.)	60	81
Operating pressure (bar) (up to)	350	300
Peak pressure (bar)	400	350
Operating rotation ¹ (rpm)	1900	1800
Max. rotation without load ¹ (rpm)	2200	2000
Weight (approx.) (kg)	10.5	10.5
Pistons quantity	7	
A-Oil outlet (DIN ISO 228)	3/4" BSP	1" BSP
B-Oil inlet (DIN ISO 228)	1" BSP	1 1/4" BSP
C	Drain hole	

How to order:

Example: Pump 80cm³/rot, operating pressure up to 300 bar; peak pressure 350 bar, ref. BI M7 → BI80M7

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Recommended viscosity range	20 to 40 cSt (mm ² /s) at working temperature
Limits viscosity range	10 to 750 cSt (mm ² /s)
Start-up viscosity range, without load	750 to 1500 cSt (mm ² /s)
Filtration	10µm ISO4406 18/13
Inlet pressure range	0,8 to 2 bar abs

In the application of any of these pumps; the use of these data does not exempt the reading of the instruction "BI pumps recommendations before start-up"

¹ These values are valid at an absolute pressure of 1 bar in suction port when operating with a mineral oil at a viscosity of 30 mm²/s (cSt).

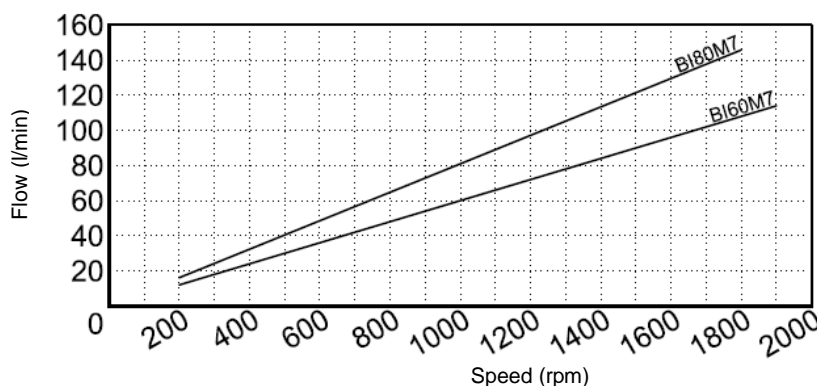
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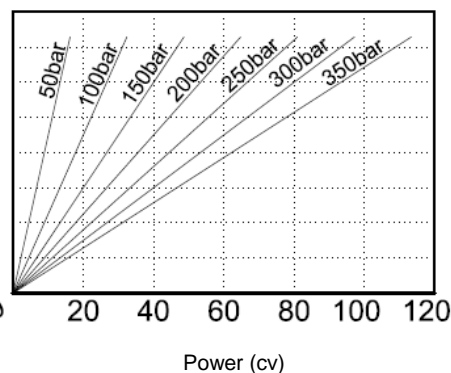
OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI M7

**Diagram
Flow - Speed**



**Diagram
Input Power - Flow - Pressure**



Hose dimensions

Inlet Hose	
Flow (l/min)	Internal pipe diameter (inch)
30-40	1"1/4
50-60	1"1/2
70-90	1"3/4
100-120	2"
130-150	2"1/4

Outlet Hose						
Flow (l/min)	Internal pipe diameter (inch)					
	30	1/2"	1/2"	1/2"	1/2"	1/2"
40	5/8"	1/2"	1/2"	1/2"	1/2"	
50	5/8"	5/8"	5/8"	1/2"	1/2"	
60	3/4"	5/8"	5/8"	5/8"	5/8"	
70	1"	3/4"	3/4"	5/8"	5/8"	
80	1"	3/4"	3/4"	3/4"	3/4"	
90	1"	1"	1"	3/4"	3/4"	
100	1"	1"	1"	1"	3/4"	
110	1"	1"	1"	1"	1"	
120	1"	1"	1"	1"	1"	
130	1"	1"	1"	1"	1"	
140	1"1/4	1"	1"	1"	1"	
150	1"1/4	1"	1"	1"	1"	
		50-100	100-150	150-200	200-300	300-350
P (bar)						

CTI BI M7 1311-2

Important notes:

- To install one of these pumps, please consult and respect the instruction "BI pumps recommendations before start-up";
- Other axis available, please consult "Axel options".

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