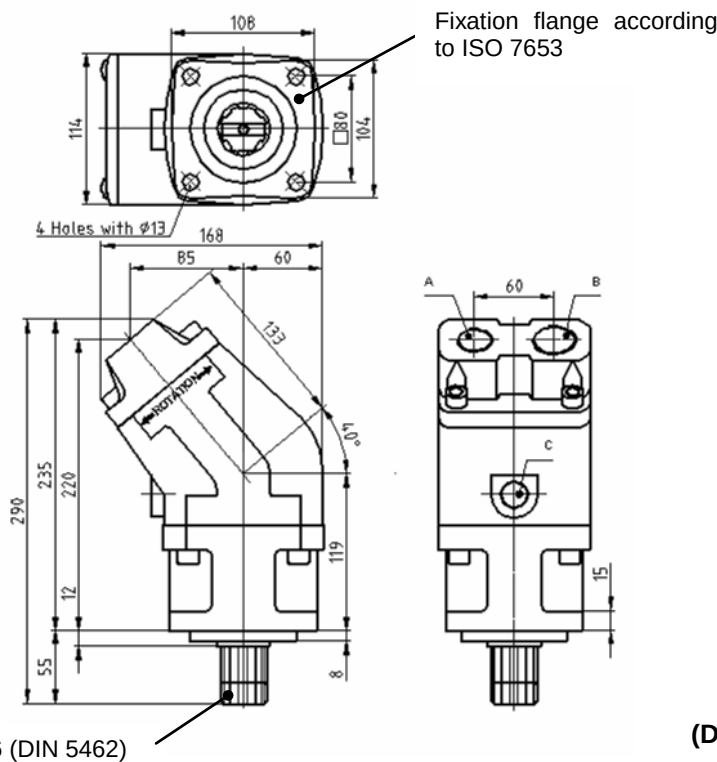




OIL-HYDRAULIC BENT PUMP  
AXIAL PISTONS

Ref. BI M

Main Dimensions



(Dimensions in mm)

| Main Data                                     |            |          |          |          |
|-----------------------------------------------|------------|----------|----------|----------|
| Pumps BI                                      | 25M        | 30M      | 40M      | 50M      |
| Displacement (cm <sup>3</sup> /rot.)          | 26         | 32       | 42       | 50       |
| Operating pressure (bar) (up to)              | 350        | 350      | 350      | 350      |
| Peak pressure (bar)                           | 400        | 400      | 400      | 400      |
| Operating rotation <sup>1</sup> (rpm)         | 2500       | 2500     | 2300     | 2100     |
| Max. rotation without load <sup>1</sup> (rpm) | 2800       | 2800     | 2600     | 2400     |
| Weight (approx.) (kg)                         | 9.5        | 9.7      | 9.9      | 10.0     |
| Pistons quantity                              | 5          |          |          |          |
| A-Oil outlet (DIN ISO 228)                    | 3/4''BSP   | 3/4''BSP | 3/4''BSP | 3/4''BSP |
| B-Oil inlet (DIN ISO 228)                     | 1''BSP     | 1''BSP   | 1''BSP   | 1''BSP   |
| C                                             | Drain hole |          |          |          |

How to order:

Example: Pump 50cm<sup>3</sup>/rot; operating pressure up to 350 bar; peak pressure 400 bar, ref. BI M → BI50M

|                                        |                                                          |
|----------------------------------------|----------------------------------------------------------|
| Fluids                                 | mineral oils type ISO HM or DIN 51524-2 HLP              |
| Recommended viscosity range            | 20 to 40 cSt (mm <sup>2</sup> /s) at working temperature |
| Limits viscosity range                 | 10 to 750 cSt (mm <sup>2</sup> /s)                       |
| Start-up viscosity range, without load | 750 to 1500 cSt (mm <sup>2</sup> /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"

<sup>1</sup> 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 mm<sup>2</sup>/s (cSt).

ABER is constantly engaged in improving its products and, therefore, reserves itself the right to modify without any further notice the characteristics shown



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OIL-HYDRAULIC BENT PUMP  
AXIAL PISTONS

Ref. BI M

Diagram  
Flow - Speed

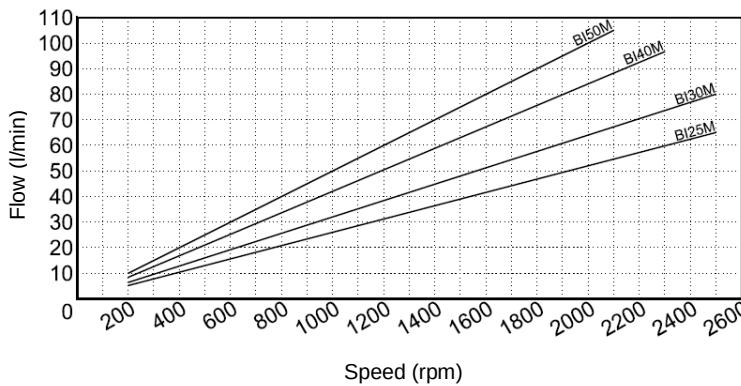
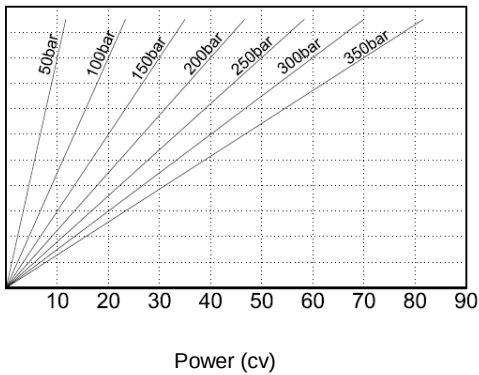


Diagram  
Input Power - Flow – Pressure



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"                            |

| Outlet Hose                            |                               |      |      |      |      |
|----------------------------------------|-------------------------------|------|------|------|------|
| Flow (l/min)                           | Internal pipe diameter (inch) |      |      |      |      |
|                                        | 1/2"                          | 1/2" | 1/2" | 1/2" | 1/2" |
| 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"   |
| 50-100 100-150 150-200 200-300 300-350 |                               |      |      |      |      |
| P (bar)                                |                               |      |      |      |      |

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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