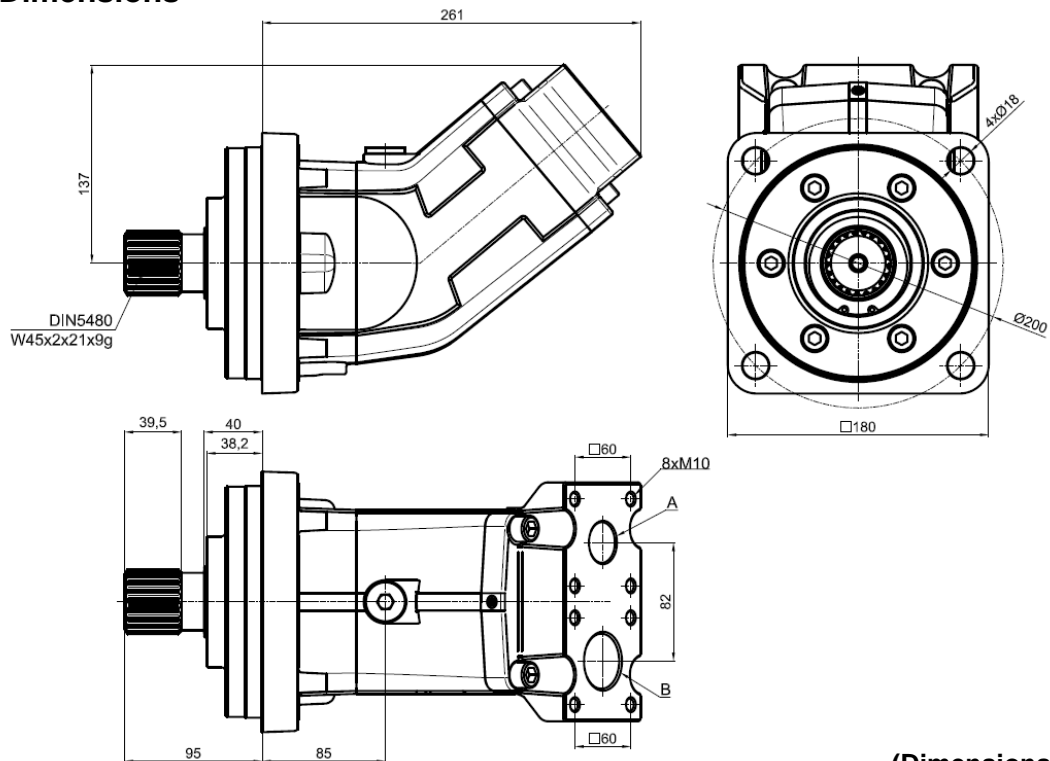




OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI_P7IA1

Main Dimensions



(Dimensions in mm)

Main Data				
Pumps BI	80P7IA1	110P7IA1	125P7IA1	135P7IA1
Displacement (cm ³ /rot.)	80	108	126	136
Max. operating pressure (bar)	400	350	350	250
Operating rotation ¹ (rpm)	1800	1600	1500	1500
Max. rotation without load ¹ (rpm)	2000	1800	1700	1700
Weight (approx.) (kg)	14	14	14	14.2
Pistons quantity	7			
A-Oil outlet (mm)	ø28	ø28	ø28	ø28
B-Oil inlet (mm)	ø38	ø38	ø38	ø38

How to order:

Example: Pump 80cm³/rot, max. operating pressure up to 400 bar; ref. BI_P7IA1 → BI80P7IA1

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).

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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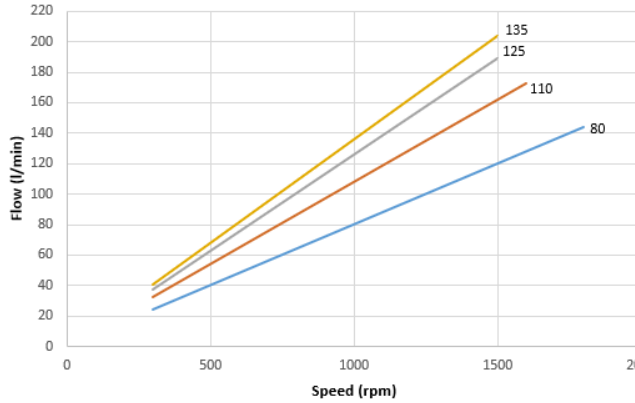
ABER HAS A QUALITY MANAGEMENT SYSTEM CERTIFIED ACCORDING TO THE STANDARD ISO 9001 BY APCER.



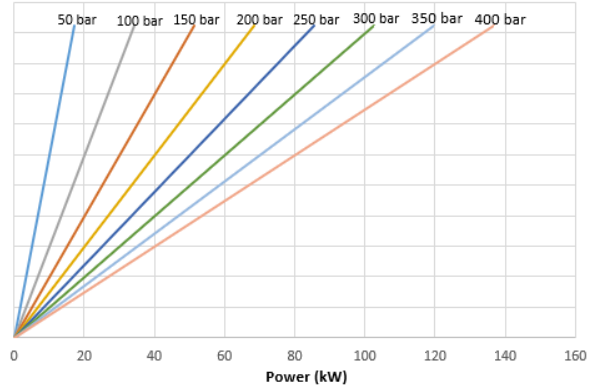
OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI_P7IA1

**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
160-190	2"1/2
200-230	2"3/4

Outlet Hose					
Flow (l/min)	Internal pipe diameter (inch)				
	50-100	100-150	150-200	200-300	300-350
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"
160	1"1/4	1"1/4	1"	1"	1"
170	1"1/4	1"1/4	1"	1"	1"
180	1"1/4	1"1/4	1"1/4	1"	1"
190	1"1/4	1"1/4	1"1/4	1"	1"
200	1"1/2	1"1/4	1"1/4	1"1/4	1"
210	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4
	50-100	100-150	150-200	200-300	300-350
	Pressure (bar)				

CTI BI_P7IA1 2109 - 06

Important notes:

-To install one of these pumps, please consult and respect the instruction "BI pumps recommendations before start-up".

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