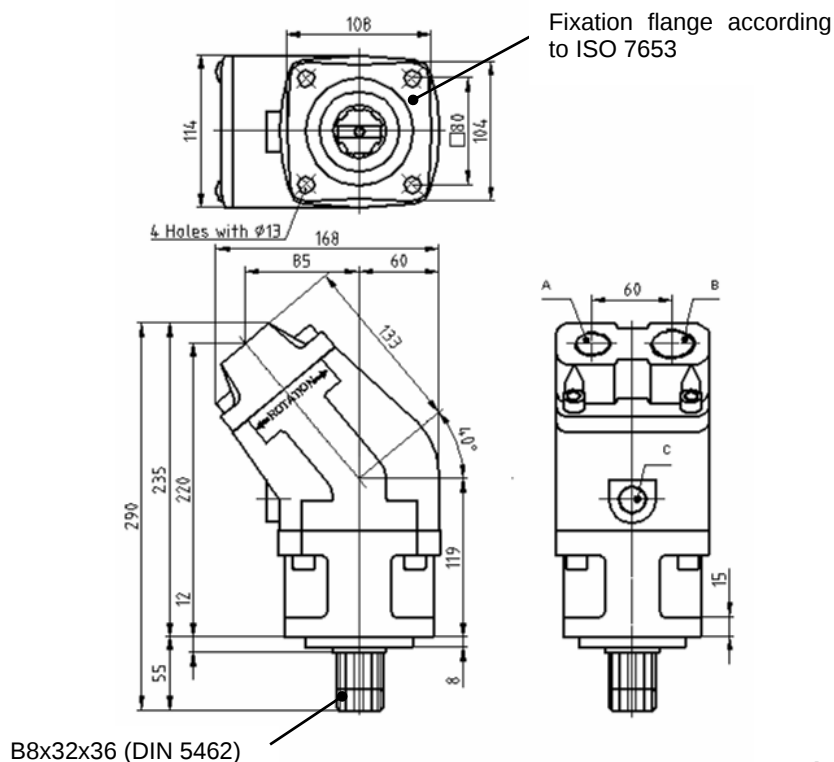




OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI_M_

Main Dimensions



(Dimensions in mm)

Main Data

Pumps BI	17M	25M	30M	40M	50M	60M7	80M7
Displacement (cm ³ /rot.)	17.5	26	32	42	50	60	81
Max. operating pressure (bar)	400	400	400	400	400	400	300
Operating rotation ¹ (rpm)	2500	2500	2300	2300	2300	2000	1500
Max. rotation without load ¹ (rpm)	3200	3200	3000	3000	3000	2600	2000
Weight (approx.) (kg)	9.3	9.5	9.7	9.9	10.0	10.5	10.5
Pistons quantity	5					7	
A-Oil outlet (DIN ISO 228)	3/4"BSP	3/4"BSP	3/4"BSP	3/4"BSP	3/4"BSP	3/4"BSP	1"BSP
B-Oil inlet (DIN ISO 228)	1"BSP	1"BSP	1"BSP	1"BSP	1"BSP	1"BSP	1 1/4"BSP
C	Drain hole						

How to order:

Example: Pump 50cm³/rot; max. operating pressure up to 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 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_M_

Diagram
Flow - Speed

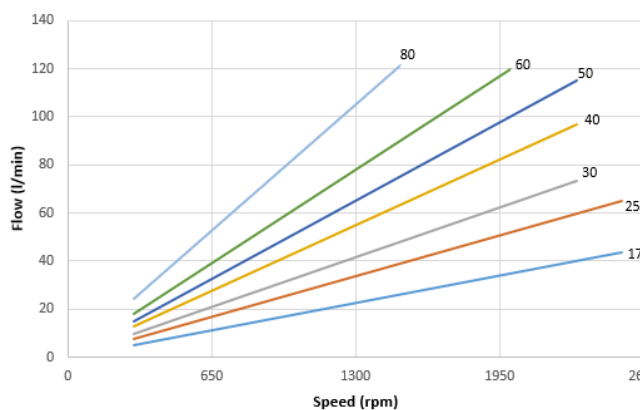
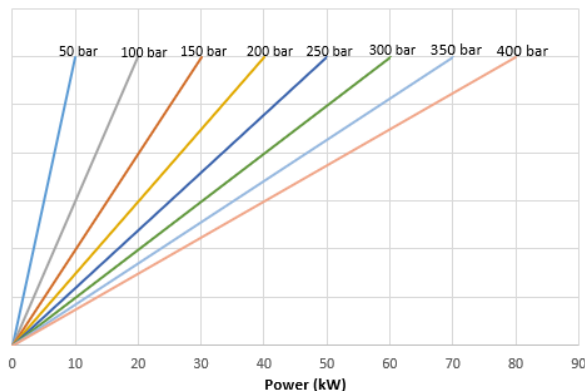


Diagram
Input Power - Flow – Pressure



Hose dimensions

Inlet Hose	
Flow (l/min)	Internal pipe diameter (inch)
20-30	1"1/4
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"
20	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"
Pressure (bar)					
50-100		100-150	150-200	200-300	300-350

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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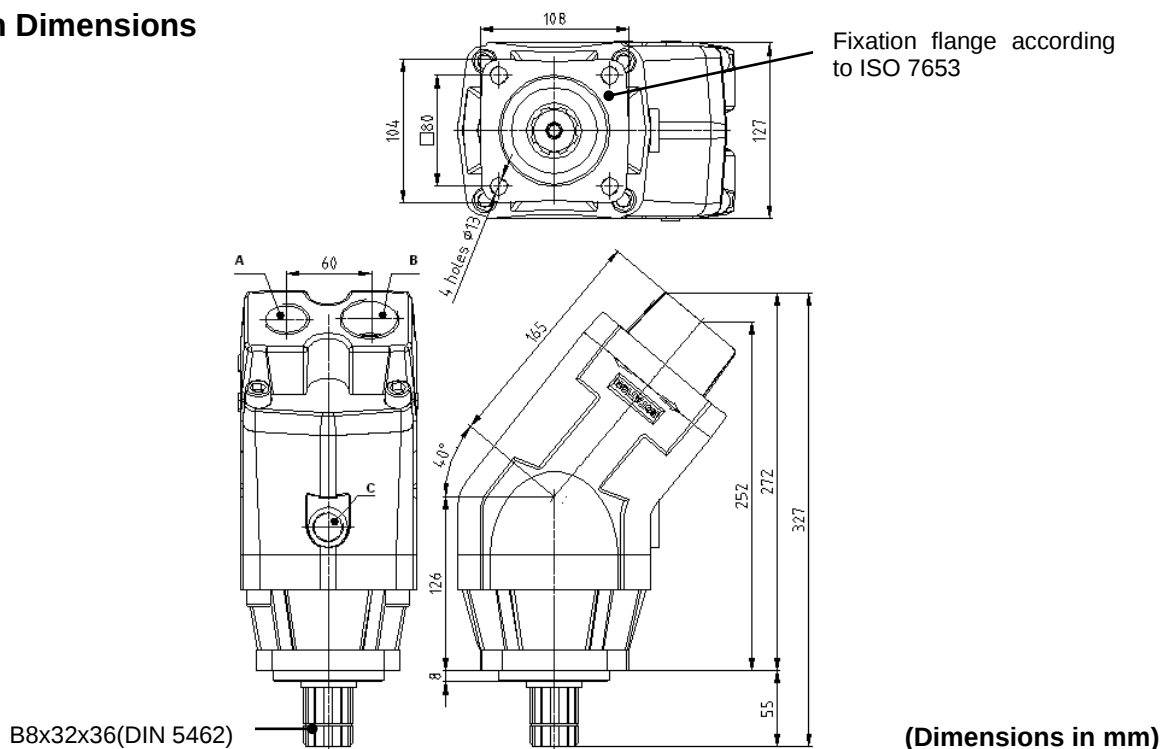
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OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI_P7

Main Dimensions



Main Data

Pumps BI	80P7	110P7	125P7	135P7
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)	2200	2100	2000	2000
Weight (approx.) (kg)	13.0	13.4	13.6	13.8
Pistons quantity	7			
A-Oil outlet (DIN ISO 228)	1" BSP	1" BSP	1" BSP	1" BSP
B-Oil inlet (DIN ISO 228)	1 1/4" BSP	1 1/2" BSP	1 1/2" BSP	1 1/2" BSP
C	Drain hole			

How to order:

Example: Pump 80cm³/rot, max. operating pressure up to 400 bar; ref. BI_P7 → BI80P7

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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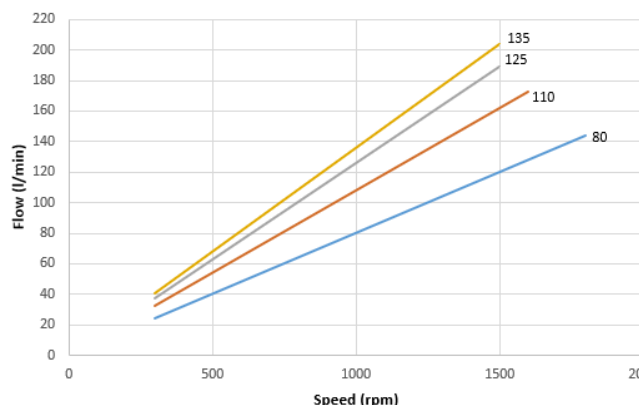
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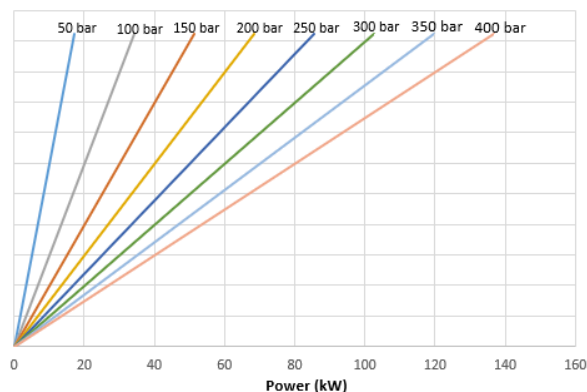
OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI_P7

**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)				
	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"
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
Pressure (bar)					
50-100		100-150	150-200	200-300	300-350

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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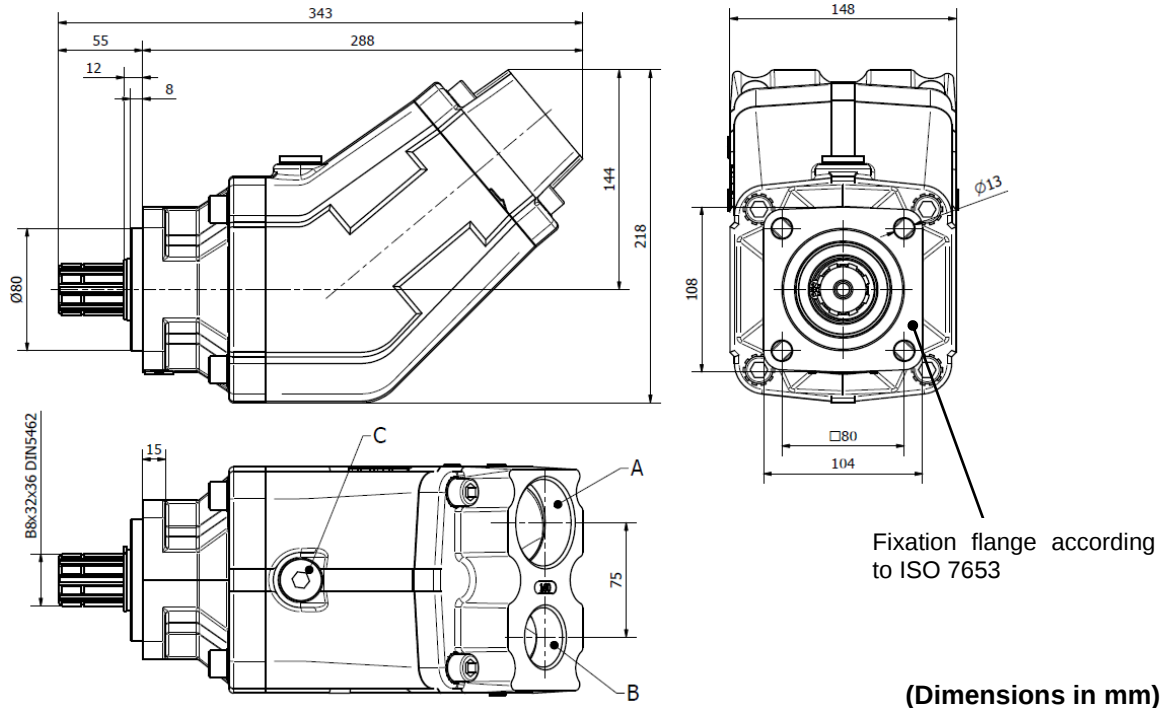
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OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI_H9

Main Dimensions



Main Data

Pumps BI	140H9	160H9	170H9
Displacement (cm ³ /rot.)	142	156	172
Max. operating pressure (bar)	350	350	300
Operating rotation ¹ (rpm)	1500	1500	1500
Max. rotation without load ¹ (rpm)	1700	1700	1700
Weight (approx.) (kg)	19	19	19
Pistons quantity	9		
A-Oil inlet (DIN ISO 228)	2" BSP	2" BSP	2" BSP
B-Oil outlet (DIN ISO 228)	1"1/4 BSP	1"1/4 BSP	1"1/4 BSP
C	Drain hole		

How to order:

Example: Pump 140cm³/rot, max. operating pressure up to 350 bar; ref. BI_H9 → BI140H9

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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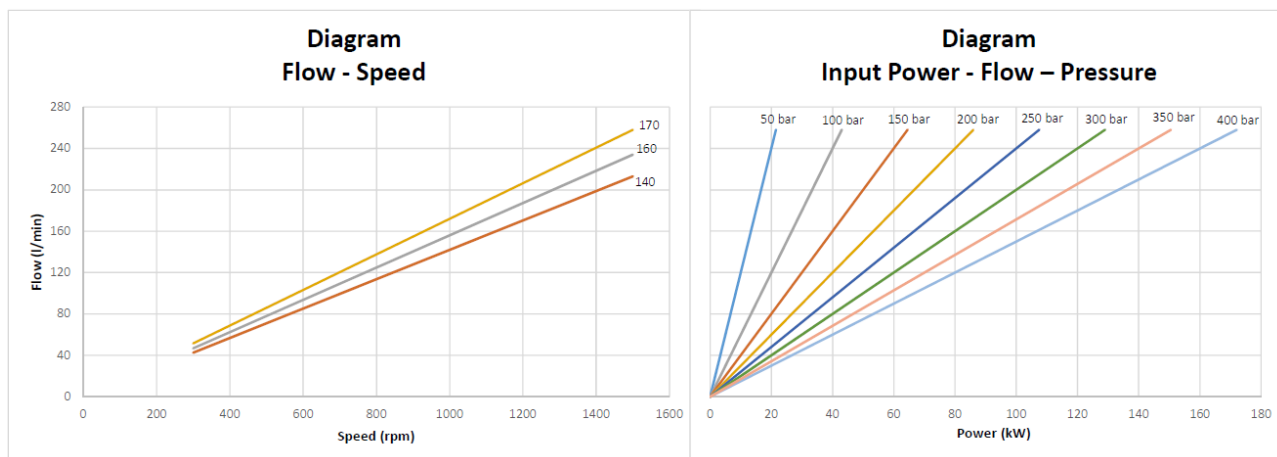
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OIL-HYDRAULIC BENT PUMP AXIAL PISTONS

Ref. BI_H9



Hose dimensions

Inlet Hose	
Flow (l/min)	Internal pipe diameter (inch)
30-50	1"1/2
50-70	1"3/4
70-90	2"
90-110	2"1/4
110-140	2"1/2
140-170	2"3/4
170-200	3"
200-240	3"1/4

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"
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
220	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4
230	1"1/2	1"1/2	1"1/4	1"1/4	1"1/4
Pressure (bar)					
50-100		100-150		150-200	
				200-300	
				300-350	

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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