

Manufacturing Hydraulic Excellence since 1972

TECHNICAL DATA SHEETS & RECOMMENDATIONS

> B3 GEAR PUMPS





Manufacturer's Declaration

ABER ensures compliance of its products with the essential health and safety requirements harmonized standards EN ISO 12100:2010 and the ISO 4413:2010

General information

ABER gear pumps are single fixed displacement pumps. They are available from 12 to 154 cm³/rev. over different range series. They can be a ssembled directly into the PTO, with the exception of the PTO of two shafts without support.

Features:

- Bidirectional
- Good performance
- Small dimensions
- Light
- Fast to mount
- Low noise
- Low weight
- Changeable direction of rotation (unidirectional version)

Pump selection

To ensure that the PTO will not be overloaded, and get the correct flow requirements with the speed of the engine chosen, it is important to use a pump with the right capacity. Pump capacity (D), expressed in cm ³/rev, can be calculated using the following formula:

$$D = \frac{Q \times 1000}{N \times Z}$$

D-Pump displacement [cm³/rev] Q-Flow required [I/min]

N-Motor speed

Z-Engine to PTO ratio

In order not to overload the PTO's mechanical units, it is important to calculate the torque and power consumed by the pumps. Torque and power are calculated with the following formula:

$$M = \frac{D \times Pb}{63} \qquad P = \frac{D \times N \times Z \times Pb}{600 \times 0.90 \times 1000}$$

M-Torque [Nm] Pb-Pressure [bar] P-Power [kW] N-Motor speed [rpm]

Z-PTO ratio

0,90-Pump efficiency (can change from one pump to another)

ATTENTION

If the calculated load exceeds the maximum allowed for the PTO, a be different combination should

selected.

Hose selection

In order to avoid intense heat generation and cavitation phenomenon that causes noise and pump deterioration, ABER recommends the following speeds dimensions of the hoses.

Admission line

0,5...1 m/s

Return line

2...3 m/s

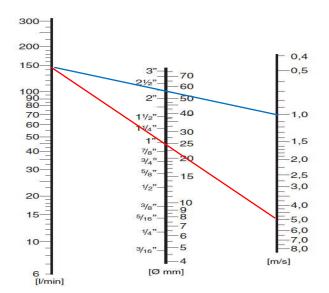
Pressure line

P = 0...50 bar - 3.5 m/sP = 50...100 bar - 3.5...4.5 m/s

P = 50...100 bar - 3,5...4,5 m/s

P = 150...200 bar - 5...5,5 m/s

P = 200...300 bar - 5,5...6 m/s



ATTENTION

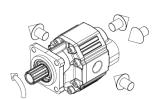
The recommended speeds and dimensions specified may not be enough when temperatures are too

low, the tank is below the level of the pump, the inlet hose is long or there are many valves and fittings in the inlet hosing. In these cases we recommend increasing the diameter of the hoses, keeping the suction hose as short and straight as possible and reducing the pump rotation speed.



Direction of rotation

The direction of rotation of the pump must be according to the PTO rotation. ABER can supply bidirectional or unidirectional pumps



Left Hand (CCW)

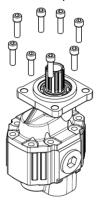
Right hand (CW)

Rotation sense is defined from drive shaft. Unidirectional gear pumps must be ordered CCW or CW

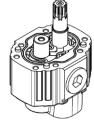
Changing the rotation

To change the rotation of the unidirectional pump it is necessary to follow the next steps.

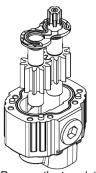
(B3 Series: example of how to change the rotation)



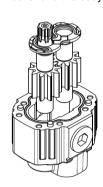
1º- Loosen and remove the top screws and washers



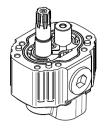
2°- Remove the cover. If the cover is stuck tap around the edge with a rubber mallet to disconnect the cover and the body



3°- Remove the top plate and the gears. The rear plate should not be removed. Remove first the main shaft to facilitate the removal of the top plate



4º- Reassemble the gears in the opposite position and the plate in the same position



5°- With the use of grease, reapply the oring



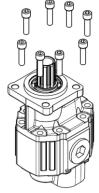
6°- Be sure that the plate seal is assembled on the pressure side (P side). Be aware that the seal tips should not be damaged when inserting the plate



7°- Replace the hex bolt in the cover from one hole to another. Tighten the hex bolt with 20N.m torque



8°- Be aware that hex bolt stays in the pump pressure side (P side)



9°- Assemble the pump cover (turned 180° from it's original position) and tighten the top screws and washers with the 80 N.m



10° - By hand rotate the main shaft to ensure that the pump rotates freely. The pump is now ready for working with the original rotation reversed

Torque tightness plugs

3/4" BSP	60 N.m
1" BSP	75 N.m
1 1/4" BSP	115 N.m



Installation instructions

- 1. Check PTO direction of rotation and fit the pump according to PTO sense of rotation . Make sure that the assembly does not generate axial or radial load on the pump main shaft
- 2. Grease spline shaft with solid lubricant before installation when the PTO contains a n output shaft seal. Connect the pump to the PTO (apply 80Nm torque in the tightening nuts). Elevated efforts or shocks are not recommended during the installation. The pump must be connected without making use of any type of tool that forces its assembly.

ATTENTION

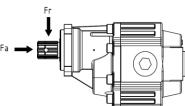
During the installation always leave the inlet port in a higher or equal level than o utlet port. This increases the pump's life.

3. Remove all protection covers from the threaded holes (inlet/outlet). Apply the inlet and outlet fittings into the pump (ask for the tightening information's from the fittings manufacturer). Connect the outlet and the inlet pipes to the accessories (always respect recommended hoses dimensions and thread dimensions). Be sure that all connections are robust and well-sealed.

Axial and radial load

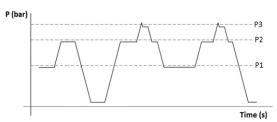
Gear pumps that are subjected to axial and radial loads (such as driving gears and couplings) must be fitted with double tapered roller bearings to support the loads (ABER reinforced gear pump versions)

In driving gear application and couplings use circlips and/ or washers with one M10 screw and locking fluid (70Nm).



Pressure definition

Maximum allowed pressure can change according to the time that the pump is under load. Continuous, intermittent and pike pressures can occur. For their maximum values and times consult technical sheet and, or contact ABER.



P1 - Continuous pressure

P2 – Intermittent pressure

P3 – Peak pressure

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

Fluids

For the gear pump range, ABER recommends the use of high quality mineral oil type ISO HM or DIN 51524 -2 HLP, with viscosities from 20 to 40 mm²/s (cSt) at working temperature. The recommended oil viscosity limits stay between minimum 10mm²/s (cSt) and maximum 100mm²/s (cSt). The maximum started viscosity at start up is 750 mm²/s (cSt). It is possible to use other oils with the same characteristics, but only after consulting and getting authorization from ABER. The designation 32, 46, 68, etc. denotes the viscosity at 40°C of the oil. When choosing the oil it is necessary to be aware of t he low viscosity with the increase of the temperature, therefore, we recommend that when you want to work above that temperature, you should choose an oil with more viscosity (thicker) in order to compensate the reduction of viscosity when the temperature increases. The oil temperature must be maintained between -25°C and 80°C. We advise you to use an oil cooler when you verify that the system's temperature is higher than these values. The oil must be replaced after 1000 workin g hours or at least o nce a year, change filters elements as well.

Leakage safety system

ABER gear pumps do not need to use an exterior drain line because they are drained from the inside. These pumps have two shaft seals to guarantee protection avoid the oil exchange between the hydraulic circuit and the gear box. In case of failure, a safety system between the shaft seals of the pump allows the oil to escape, but doesn't allow the entry of contamination into the pump.



If any oil leaks out from the pump, stop the system immediately to determine the cause of the leak and correct the problem source.

Filtration

The filtration is extremely important and may influence or even determine the durability of the equipment. ABER recommends the use of a return filter and an air filter with an absolute filtration degree of 10µm if the pressure system is higher than 200 bar and an absolute filtration degree of 25 µm if the pressure system is I ower than 200 bar, as according to the ISO 4406 class 18/13. The first filter to be applied into the system must be replaced as soon as it reaches the 50 working hours; after the first replacement, it must be replaced along with the oil or when uncommon pressures are verified in the return.

ATTENTION

Be sure that the whole system is perfectly cleaned be fore filling it with oil. Never mix water or other liquids, different oil qualities, viscosities or

brands with the oil in the system. Make sure that there was no gearbox contamination.



Faults; cause and remedies

Faults	Cause	Remedies			
	1.Empty tank	1.Fill tank with recommended fluid			
	2.Closed valve in inlet hose	2.Open valve			
	3.Air in inlet hose	3.Put tank above the pump level			
No oil flow	4.Wrong sense of rotation	4.Change pump rotation sense			
	5.Reversed hoses	5.Change inlet and pressure hoses			
	6.PTO not engaged	6.See "PTO Troubleshooting"			
	7.Pump damaged	7.Replace pump			
	1.Air in housing	1.Fill housing with recommended fluid			
Equipment works with	2.Air leakage in inlet hose	2.Repair air leakage			
irregular movements	3.Low oil level	3.Fill tank with recommended fluid			
	4.Pump damaged	4. Replace pump			
		1.Replace inlet hose for other with a larger			
		diameter			
	1.Cavitation	1.Remove inlet restrictions			
	2.Very thick oil	Check for clogged tank breather or clogged			
Pump is noisy	3.Air in inlet hose	admission filter			
	4.Pump damaged	2.Replace for an recommended fluid			
		3. Put tank above the pump level, check air			
		pressure in the tank			
		4.Replace pump			
		1.Fill tank with recommended fluid			
	1.Low oil level	2.Replace for a bigger tank			
	2.Small tank	3.Replace oil and filter			
	3.Dirty oil	4.Adjust for equipment specifications or			
	4.Relief valve improperly set	replace if necessary			
Oil is too hot	5.Relief valve stuck in open position	5.Clean and re-set for equipment			
	6.Very thick oil	specifications			
	7.Too much flow	6.Replace for an recommended fluid			
	8. Undersized system	7.Reduce sp eed or replace for a smaller			
		displacement pump			
		Review application system			
		1.Adjust for equipment specifications or			
Equipment works very	1.Relief valve improperly set	replace if necessary			
slow compared with the	2.Relief valve stuck in open position	2.Clean and re-set for equipment			
usual	3.Pump damaged	specifications			
		3.Replace pump			
		1.Tighten fittings and hoses, or replace if			
	1.From inlet/outlet lines	necessary			
	2.From drain hole	2.Stop the system immedi ately to determine			
Oil leakage	3. From shaft seal	the cause of the leak and correct the problem			
On loakage	4.From body sections	source			
	III Tom body scoulding	Replace shaft seal			
		4. Tighten bolts for specified torque, or			
		replace damaged oring or body			

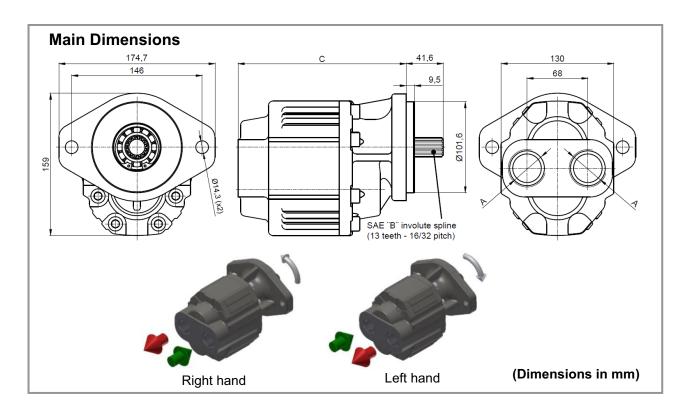


When the pump is working never touch or pull hoses or intermediate shaft when applied. When intermediate shaft is applied take into account that parts can be ejected.

The application of the pumps must follow all the instructions hereby mentioned in order to assure the safety of all personal working with the equipment including its surroundings, assure a long life to the product and preserve the warranty of the brand. All applications that do not follow the hereby

instruction are solely the users responsibility. If there should happen any malfunctioning, it is strictly forbidden the disassembly of the product except if it is being made by a qualified technician of the brand or if there is a special authorization to do so. If this specification should not be followed, all warranties might be lost.





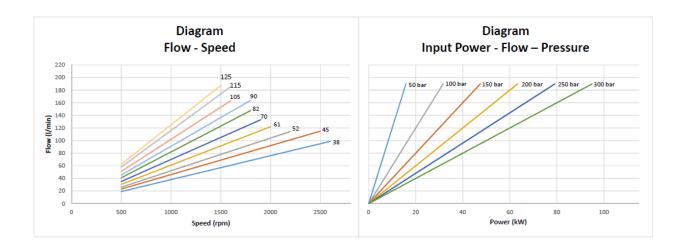
Main Data											
Pumps B3B2T		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.1	12.6	12.7	13.7	14.2	14.8	15.1	16.0	16.6	17.3
Sense of rotation		Bi-directional									
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4	1"		1"				1 1/4"		
С	mm	161	166	169	175	181	188	194	203	209	216

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B3B2T→ B3B2T38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HL
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperatur
Máx operating limits viscosity	750 cS
Oil temperature range	-25°C to 80°
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data does no recommendations before start-up".	at exempt the reading of the instruction "Gear pumps



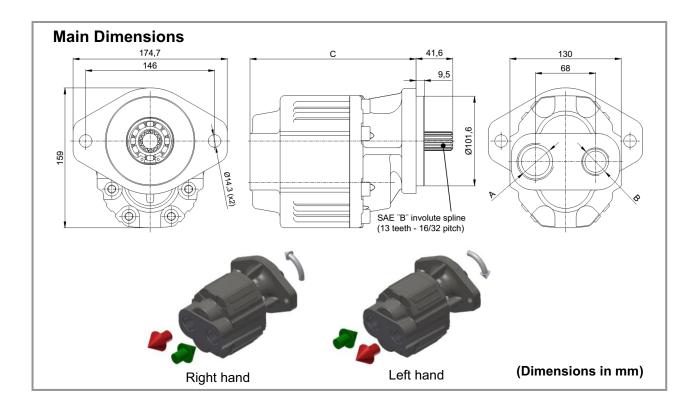
Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

Outlet Hose						
Flow (I/min)	In	Internal pipe diameter (inch)				
30	1/2"	1/2"	1/2"	1/2"		
40	5/8"	1/2"	1/2"	1/2"		
50	5/8"	5/8"	5/8"	1/2"		
60	3/4"	5/8"	5/8"	5/8"		
70	1"	3/4"	3/4"	5/8"		
80	1"	3/4"	3/4"	3/4"		
90	1"	1"	1"	3/4"		
100	1"	1"	1"	1"		
110	1"	1"	1"	1"		
120	1"	1"	1"	1"		
130	1"	1"	1"	1"		
140	1"1/4	1"	1"	1"		
150	1"1/4	1"	1"	1"		
160	1"1/4	1"1/4	1"	1"		
170	1"1/4	1"1/4	1"	1"		
180	1"1/4	1"1/4	1"1/4	1"		
190	1"1/4	1"1/4	1"1/4	1"		
200	1"1/2	1"1/4	1"1/4	1"1/4		
210	1"1/2	1"1/4	1"1/4	1"1/4		
220	1"1/2	1"1/4	1"1/4	1"1/4		
230	1"1/2	1"1/2	1"1/4	1"1/4		
240	1"1/2	1"1/2	1"1/4	1"1/4		
	50-100	100-150	150-200	200-300		
	P (bar)					

Important notes:

- Other axis available, please consult "Axel options".



Main Data											
Pumps B3B2TU		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.1	12.6	12.7	13.7	14.2	14.8	15.1	16.0	16.6	17.3
Sense of rotation			Unidirectional					onal (Left [L] or Right [R])			
A - Inlet (DIN ISO 228)	G (BSP)	1"			1 1/4"						
B - Outlet (DIN ISO 228)	G (BSP)	3/4"						1"			
С	mm	161	166	169	175	181	188	194	203	209	216

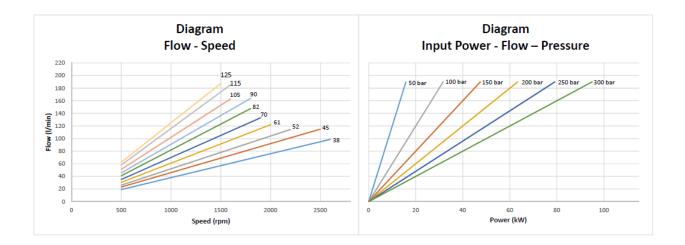
How to order:

CTI B3B2TU 1607-2

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B3B2TU, rotation left → B3B2TU38L

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN	51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working	g temperature
Máx operating limits viscosity		750 cSt
Oil temperature range		-25°C to 80°C
Filtration	>200bar = 10µm <200b	ar = 25 μm
In the application of any of these pumps; the use of these data does not recommendations before start-up".	exempt the reading of the instruction "C	Gear pumps



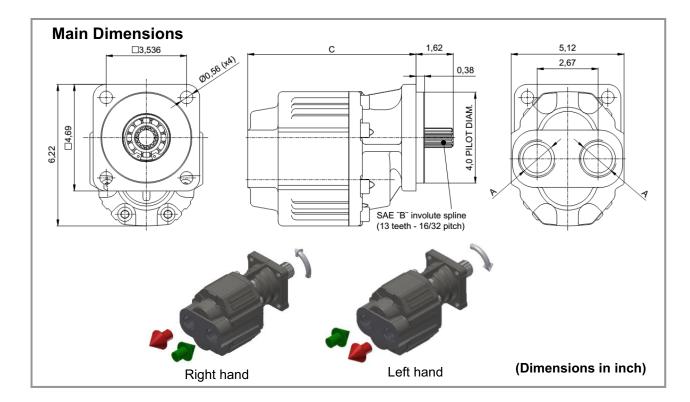
Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

Outlet Hose						
Flow (I/min)	In	Internal pipe diameter (inch)				
30	1/2"	1/2"	1/2"	1/2"		
40	5/8"	1/2"	1/2"	1/2"		
50	5/8"	5/8"	5/8"	1/2"		
60	3/4"	5/8"	5/8"	5/8"		
70	1"	3/4"	3/4"	5/8"		
80	1"	3/4"	3/4"	3/4"		
90	1"	1"	1"	3/4"		
100	1"	1"	1"	1"		
110	1"	1"	1"	1"		
120	1"	1"	1"	1"		
130	1"	1"	1"	1"		
140	1"1/4	1"	1"	1"		
150	1"1/4	1"	1"	1"		
160	1"1/4	1"1/4	1"	1"		
170	1"1/4	1"1/4	1"	1"		
180	1"1/4	1"1/4	1"1/4	1"		
190	1"1/4	1"1/4	1"1/4	1"		
200	1"1/2	1"1/4	1"1/4	1"1/4		
210	1"1/2	1"1/4	1"1/4	1"1/4		
220	1"1/2	1"1/4	1"1/4	1"1/4		
230	1"1/2	1"1/2	1"1/4	1"1/4		
240	1"1/2	1"1/2	1"1/4	1"1/4		
	50-100	100-150	150-200	200-300		
	P (bar)					

Important notes:

- Other axis available, please consult "Axel options".



Main Data					
Pumps B3B4CT		22	27		
Flow at 1000 rpm ¹	l/min - gpm	82 - 21.7	102 - 27.0		
Max. rotation speed	rpm	1800	1600		
Min. rotation speed	rpm	500	500		
Max. continuous pressure	bar - psi	210 - 3000	190 - 2700		
Max. intermittent pressure (max. 20s)	bar - psi	230 - 3300	210 - 3000		
Max. peak pressure (max. 6s)	bar - psi	245 - 3550	225 - 3250		
Weight	kg - lb	14.6 - 32.2	15.9 – 35.0		
Sense of rotation		Bi-directional			
A - Inlet /Outlet	NPTF	1 1/4"			
С	inch	7.40	7.99		

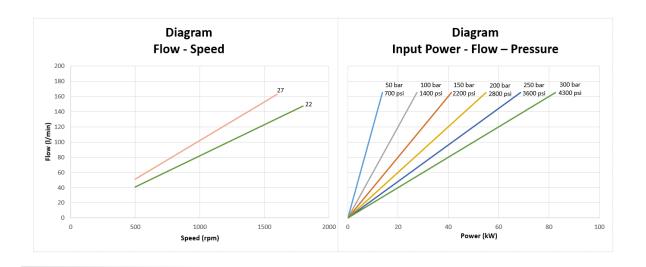
How to order:

Example: Pump 27gpm at 1000rpm, continuous pressure up to 190 bar − 2700 psi, peak pressure up to 225 bar − 3250 psi, ref.B3B4CT→ B3B4CT27

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these d recommendations before start-up".	lata does not exempt the reading of the instruction "Gear pumps

¹ This values are the theoretical values of the pump flow at 1000rpm



Hose dimensions

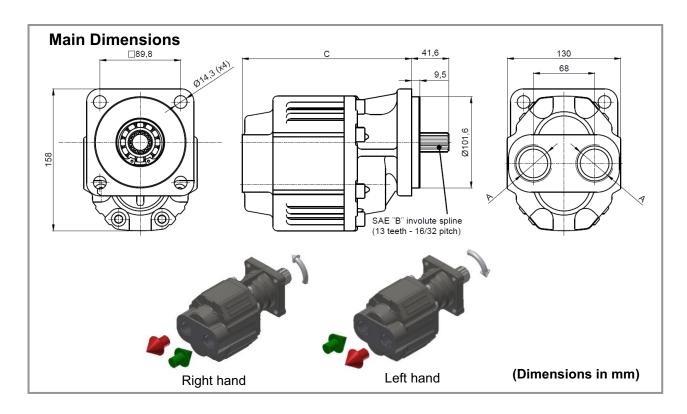
Inlet Hose							
Flow (I/min – gl/min)	Internal pipe diameter (inch)						
30/40 - 7.9/10.6	1"1/4						
50/60 - 13.2/15.9	1"1/2						
70/90 - 19.5/24.8	1"3/4						
100/120 - 26.4/31.7	2"						
130/150 - 34.3/39.6	2"1/4						
160/190 – 42.2/50.2	2"1/2						

	Outlet Hose							
Flow (I/min – gl/min)	Internal pipe diameter (inch)							
30 – 7.9	1/2"	1/2"	1/2"	1/2"				
40 – 10.6	5/8"	1/2"	1/2"	1/2"				
50 – 13.2	5/8"	5/8"	5/8"	1/2"				
60 – 15.9	3/4"	5/8"	5/8"	5/8"				
70 – 19.5	1"	3/4"	3/4"	5/8"				
80 – 22.2	1"	3/4"	3/4"	3/4"				
90 - 24.8	1"	1"	1"	3/4"				
100 - 26.4	1"	1"	1"	3/4"				
110 – 30.1	1"	1"	1"	1"				
120 – 31.7	1"	1"	1"	1"				
130 – 34.3	1"	1"	1"	1"				
140 – 36.9	1"1/4	1"	1"	1"				
150 – 39.6	1"1/4	1"	1"	1"				
160 – 42.2	1"1/4	1"1/4	1"	1"				
170 – 44.9	1"1/4	1"1/4	1"	1"				
	50-100	100-150	150-200	200-300				
	P (bar)							

Important notes:

- Other axis available, please consult "Axel options".





Main Data											
Pumps B3B4T		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.9	12.4	12.6	13.5	14.0	14.6	15.0	15.9	16.5	17.2
Sense of rotation		Bi-directional									
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	161	166	169	175	181	188	194	203	209	216

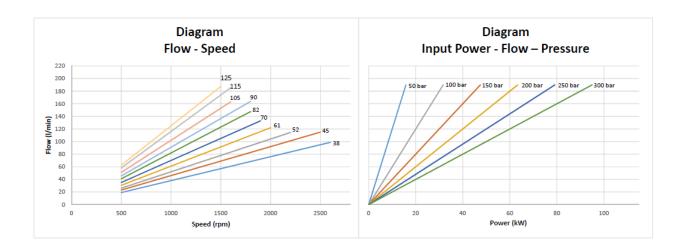
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B3B4T→ B3B4T38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HL
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperatur
Máx operating limits viscosity	750 cS
Oil temperature range	-25°C to 80°
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data does no recommendations before start-up".	at exempt the reading of the instruction "Gear pumps





Hose dimensions

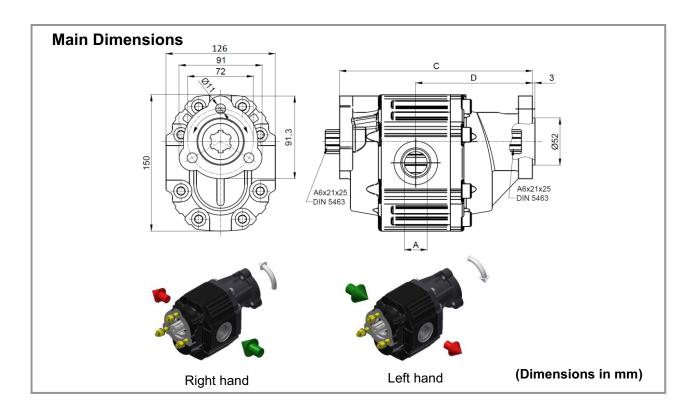
Inlet Hose						
Flow (I/min)	Internal pipe diameter (inch)					
30-40	1"1/4					
50-60	1"1/2					
70-90	1"3/4					
100-120	2"					
130-150	2"1/4					
160-190	2"1/2					
200-230	2"3/4					
240-270	3"					

Outlet Hose								
Flow (I/min)	Internal pipe diameter (inch)							
30	1/2"	1/2"	1/2"	1/2"				
40	5/8"	1/2"	1/2"	1/2"				
50	5/8"	5/8"	5/8"	1/2"				
60	3/4"	5/8"	5/8"	5/8"				
70	1"	3/4"	3/4"	5/8"				
80	1"	3/4"	3/4"	3/4"				
90	1"	1"	1"	3/4"				
100	1"	1"	1"	1"				
110	1"	1"	1"	1"				
120	1"	1"	1"	1"				
130	1"	1"	1"	1"				
140	1"1/4	1"	1"	1"				
150	1"1/4	1"	1"	1"				
160	1"1/4	1"1/4	1"	1"				
170	1"1/4	1"1/4	1"	1"				
180	1"1/4	1"1/4	1"1/4	1"				
190	1"1/4	1"1/4	1"1/4	1"				
200	1"1/2	1"1/4	1"1/4	1"1/4				
210	1"1/2	1"1/4	1"1/4	1"1/4				
220	1"1/2	1"1/4	1"1/4	1"1/4				
230	1"1/2	1"1/2	1"1/4	1"1/4				
240	1"1/2	1"1/2 1"1/2 1"1/4 1						
	50-100	100-150	150-200	200-300				
	P (bar)							

Important notes:

- Other axis available, please consult "Axel options".





	Main Data										
Pumps B33D		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.3	11.6	12.2	12.6	13.2	13.6	14.4	15.0	15.6
Sense of rotation							Bi-dir	ectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	195	200	203	209	215	222	228	237	243	250
D	mm	121	124	127	132	133	138	142	145	147	150

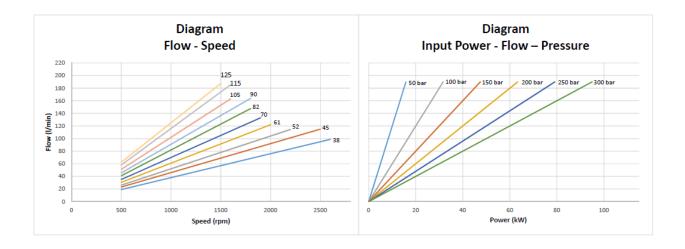
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B33D→ B33D38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data recommendations before start-up".	a does not exempt the reading of the instruction "Gear pumps





Hose dimensions

Inlet Hose						
Flow (I/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					
240-270	3"					

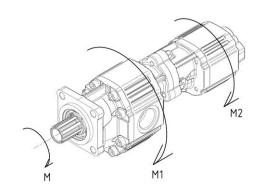
Outlet Hose								
Flow (I/min)	Internal pipe diameter (inch)							
30	1/2"	1/2"	1/2"	1/2"				
40	5/8"	1/2"	1/2"	1/2"				
50	5/8"	5/8"	5/8"	1/2"				
60	3/4"	5/8"	5/8"	5/8"				
70	1"	3/4"	3/4"	5/8"				
80	1"	3/4"	3/4"	3/4"				
90	1"	1"	1"	3/4"				
100	1"	1"	1"	1"				
110	1"	1"	1"	1"				
120	1"	1"	1"	1"				
130	1"	1"	1"	1"				
140	1"1/4	1"	1"	1"				
150	1"1/4	1"	1"	1"				
160	1"1/4	1"1/4	1"	1"				
170	1"1/4	1"1/4	1"	1"				
180	1"1/4	1"1/4	1"1/4	1"				
190	1"1/4	1"1/4	1"1/4	1"				
200	1"1/2	1"1/4	1"1/4	1"1/4				
210	1"1/2	1"1/4	1"1/4	1"1/4				
220	1"1/2	1"1/4	1"1/4	1"1/4				
230	1"1/2	1"1/2	1"1/4	1"1/4				
240	1"1/2	1"1/2	1"1/4	1"1/4				
	50-100	100-150	150-200	200-300				
		P (I	oar)					

Important notes:

- Other axis available, please consult "Axel options".
- Aber recommends that the 1^{st} pump has more displacement than the 2^{nd} pump.

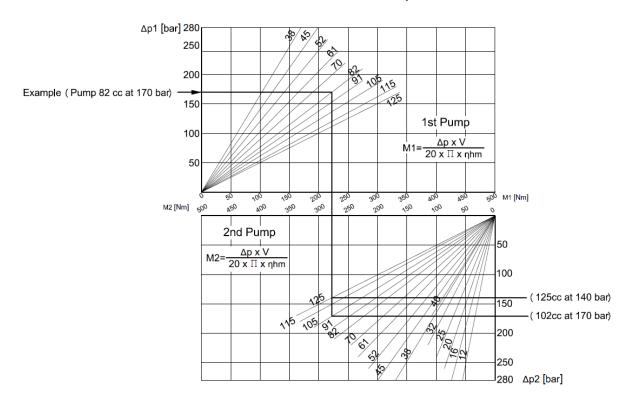


How to select 1st and 2nd pump:



Mmáx = 500Nm = M1 + M2

Diagram
Pressure – Drive Torque

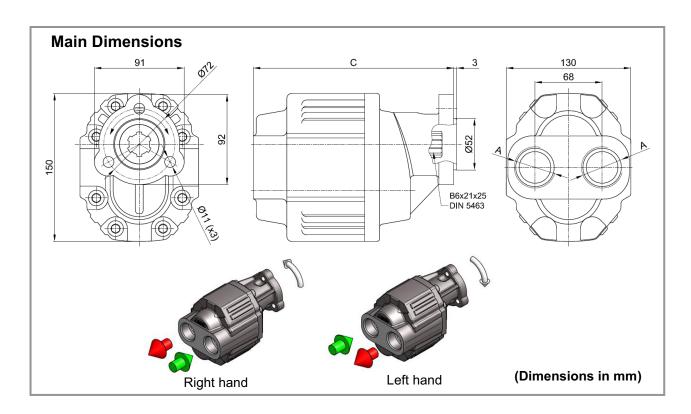


Example:

- 1st pump (B33D82) working at 170 bar, the 2nd pump can be all the combinations on the right side of the vertical line. For example: 125cc at 140 bar, 102cc at 170 bar, etc.

If the vertical line does not intersect the displacement line of the 2nd pump, it means that the maximum operating pressure of the 2nd pump is defined by the maximum operating pressure shown in the respective technical sheet. For example: 12cc at 280 bar, 61cc at 240 bar, etc.



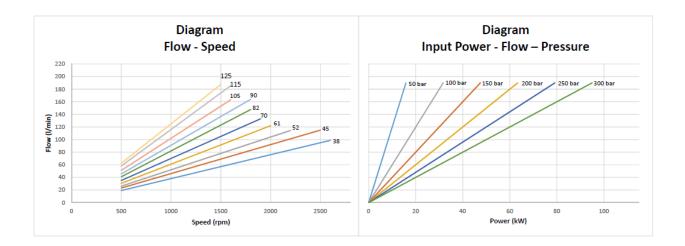


Main Data											
Pumps B33T		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	10.7	11.2	11.4	12.4	12.9	13.4	13.8	14.7	15.3	16.0
Sense of rotation		Bi-directional									
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	186	191	194	200	206	213	219	228	234	241

How to order: Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B33T→ B33T38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HL
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperatur
Máx operating limits viscosity	750 cS
Oil temperature range	-25°C to 80°
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data does no recommendations before start-up".	at exempt the reading of the instruction "Gear pumps



Hose dimensions

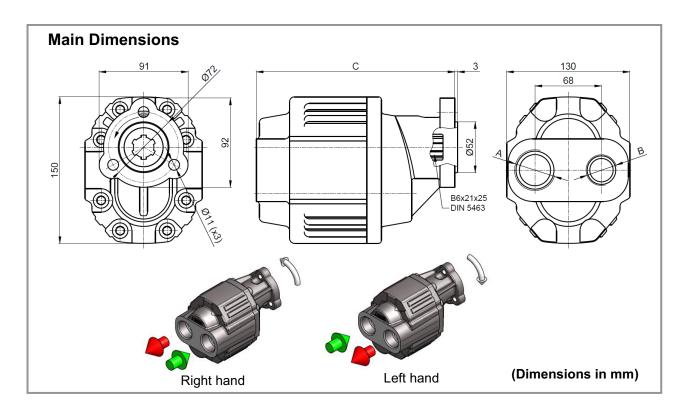
Inlet Hose						
Flow (I/min)	Internal pipe diameter (inch)					
30-40	1"1/4					
50-60	1"1/2					
70-90	1"3/4					
100-120	2"					
130-150	2"1/4					
160-190	2"1/2					
200-230	2"3/4					
240-270	3"					

Outlet Hose										
Flow (I/min)	In	Internal pipe diameter (inch)								
30	1/2"	1/2"	1/2"	1/2"						
40	5/8"	1/2"	1/2"	1/2"						
50	5/8"	5/8"	5/8"	1/2"						
60	3/4"	5/8"	5/8"	5/8"						
70	1"	3/4"	3/4"	5/8"						
80	1"	3/4"	3/4"	3/4"						
90	1"	1"	1"	3/4"						
100	1"	1"	1"	1"						
110	1"	1"	1"	1"						
120	1"	1"	1"	1"						
130	1"	1"	1"	1"						
140	1"1/4	1"	1"	1"						
150	1"1/4	1"	1"	1"						
160	1"1/4	1"1/4	1"	1"						
170	1"1/4	1"1/4	1"							
180	1"1/4	1"1/4	1"1/4	1"						
190	1"1/4	1"1/4	1"1/4	1"						
200	1"1/2	1"1/4	1"1/4	1"1/4						
210	1"1/2	1"1/4	1"1/4	1"1/4						
220	1"1/2	1"1/4	1"1/4	1"1/4						
230	1"1/2	1"1/2	1"1/4	1"1/4						
240	1"1/2	1"1/2	1"1/4	1"1/4						
	50-100	100-150	150-200	200-300						
		P (I	oar)							

Important notes:

- Other axis available, please consult "Axel options".





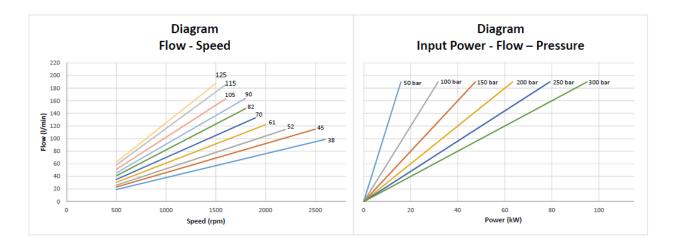
	Main Data										
Pumps B33TU		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	10.7	11.2	11.4	12.4	12.9	13.4	13.8	14.7	15.3	16.0
Sense of rotation		Unidirectional (Left [L] or Right [R])									
A - Inlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
B - Outlet (DIN ISO 228)	G (BSP)	3/4"	3/4" 1"								
С	mm	186	191	194	200	206	213	219	228	234	241

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B33TU, rotation left → B33TU38L

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HL
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperatur
Máx operating limits viscosity	750 cS
Oil temperature range	-25°C to 80°
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data does no recommendations before start-up".	at exempt the reading of the instruction "Gear pumps



Hose dimensions

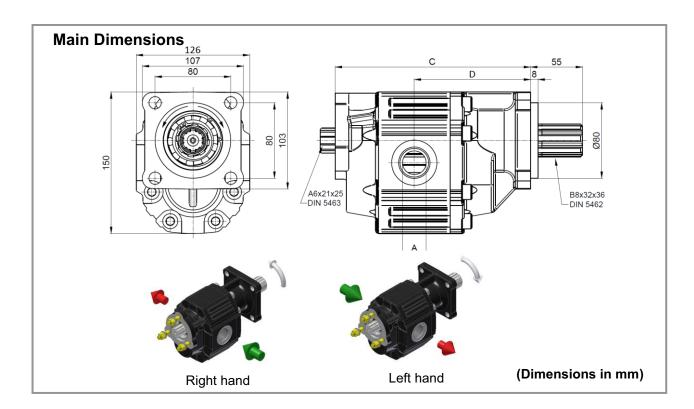
Inlet Hose						
Flow (I/min)	Internal pipe diameter (inch)					
30-40	1"1/4					
50-60	1"1/2					
70-90	1"3/4					
100-120	2"					
130-150	2"1/4					
160-190	2"1/2					
200-230	2"3/4					
240-270	3"					

Outlet Hose										
Flow (I/min)	In	Internal pipe diameter (inch)								
30	1/2"	1/2"	1/2"	1/2"						
40	5/8"	1/2"	1/2"	1/2"						
50	5/8"	5/8"	5/8"	1/2"						
60	3/4"	5/8"	5/8"	5/8"						
70	1"	3/4"	3/4"	5/8"						
80	1"	3/4"	3/4"	3/4"						
90	1"	1"	1"	3/4"						
100	1"	1"	1"	1"						
110	1"	1"	1"	1"						
120	1"	1"	1"	1"						
130	1"	1"	1"	1"						
140	1"1/4	1"	1"	1"						
150	1"1/4	1"	1"	1"						
160	1"1/4	1"1/4	1"	1"						
170	1"1/4	1"1/4	1"							
180	1"1/4	1"1/4	1"1/4	1"						
190	1"1/4	1"1/4	1"1/4	1"						
200	1"1/2	1"1/4	1"1/4	1"1/4						
210	1"1/2	1"1/4	1"1/4	1"1/4						
220	1"1/2	1"1/4	1"1/4	1"1/4						
230	1"1/2	1"1/2	1"1/4	1"1/4						
240	1"1/2	1"1/2	1"1/4	1"1/4						
	50-100	100-150	150-200	200-300						
		P (I	oar)							

Important notes:

- Other axis available, please consult "Axel options".





Main Data											
Pumps B34D		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.3	11.6	12.2	12.6	13.2	13.6	14.4	15.0	15.6
Sense of rotation							Bi-dir	ectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	180	185	188	196	200	207	213	222	228	235
D	mm	106	109	112	117	118	123	127	130	132	135

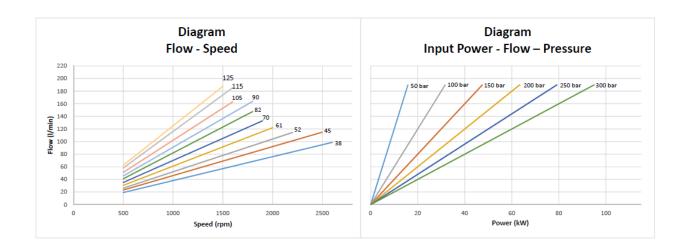
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34D→ B34D38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10µm <200bar = 25 µm
In the application of any of these pumps; the use of these recommendations before start-up".	data does not exempt the reading of the instruction "Gear pumps





Hose dimensions

Inlet Hose						
Flow (I/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					
240-270	3"					

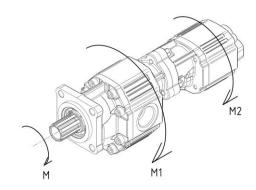
Outlet Hose										
Flow (I/min)	In	Internal pipe diameter (inch)								
30	1/2"	1/2"	1/2"	1/2"						
40	5/8"	1/2"	1/2"	1/2"						
50	5/8"	5/8"	5/8"	1/2"						
60	3/4"	5/8"	5/8"	5/8"						
70	1"	3/4"	3/4"	5/8"						
80	1"	3/4"	3/4"	3/4"						
90	1"	1"	1"	3/4"						
100	1"	1"	1"	1"						
110	1"	1"	1"	1"						
120	1"	1"	1"	1"						
130	1"	1"	1"	1"						
140	1"1/4	1"	1"	1"						
150	1"1/4	1"	1"	1"						
160	1"1/4	1"1/4	1"	1"						
170	1"1/4	1"1/4	1"							
180	1"1/4	1"1/4	1"1/4	1"						
190	1"1/4	1"1/4	1"1/4	1"						
200	1"1/2	1"1/4	1"1/4	1"1/4						
210	1"1/2	1"1/4	1"1/4	1"1/4						
220	1"1/2	1"1/4	1"1/4	1"1/4						
230	1"1/2	1"1/2	1"1/4	1"1/4						
240	1"1/2	1"1/2	1"1/4	1"1/4						
	50-100	100-150	150-200	200-300						
		P (I	oar)							

Important notes:

- Other axis available, please consult "Axel options".
- Aber recommends that the 1^{st} pump has more displacement than the 2^{nd} pump.

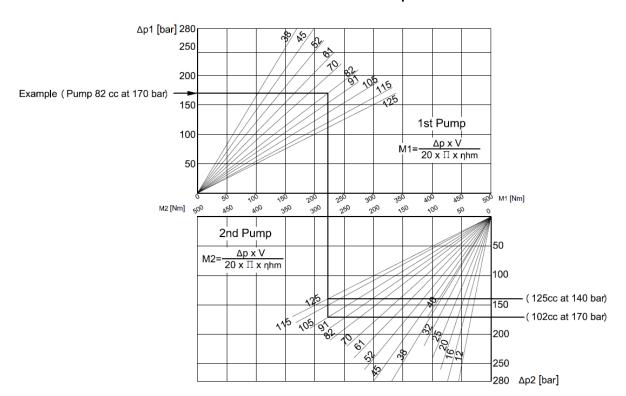


How to select 1st and 2nd pump:



Mmáx = 500Nm = M1 + M2

Diagram
Pressure – Drive Torque



Example:

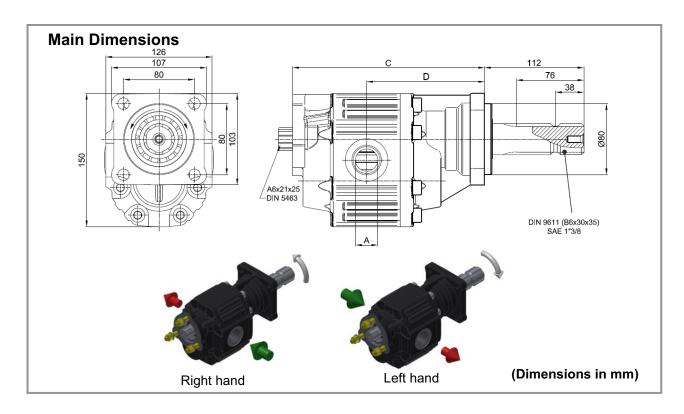
- 1st pump (B34D82) working at 170 bar, the 2nd pump can be all the combinations on the right side of the vertical line. For example: 125cc at 140 bar, 102cc at 170 bar, etc.

If the vertical line does not intersect the displacement line of the 2nd pump, it means that the maximum operating pressure of the 2nd pump is defined by the maximum operating pressure shown in the respective technical sheet. For example: 12cc at 280 bar, 61cc at 240 bar, etc.



OIL-HYDRAULIC REINFORCED TANDEM GEAR PUMP

Ref. B34RD_DA



Main Data											
Pumps B34RD_DA		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.3	11.6	12.2	12.6	13.2	13.6	14.4	15.0	15.6
Sense of rotation							Bi-di	rectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	190	195	198	206	210	217	223	232	238	245
D	mm	116	119	122	127	128	133	137	140	142	145

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34RD_DA→ B34RD38DA

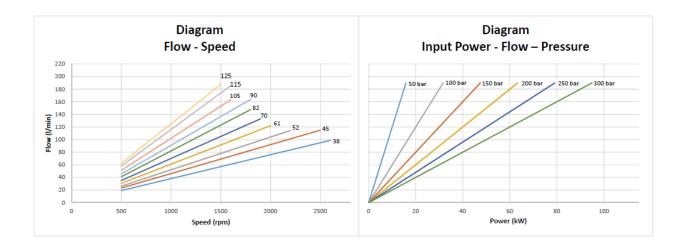
Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2	HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working tempera	ature
Máx operating limits viscosity	750	0 cSt
Oil temperature range	-25°C to 8	80°C
Filtration	>200bar = 10µm <200bar = 25 µ	ım
In the application of any of these pumps; the use of these data does recommendations before start-up".	not exempt the reading of the instruction "Gear pur	nps



OIL-HYDRAULIC REINFORCED TANDEM GEAR PUMP

Ref. B34RD_DA



Hose dimensions

Inlet Hose						
Flow (I/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					
240-270	3"					

Outlet Hose										
Flow (I/min)	Internal pipe diameter (inch)									
30	1/2"	1/2"	1/2"	1/2"						
40	5/8"	1/2"	1/2"	1/2"						
50	5/8"	5/8"	5/8"	1/2"						
60	3/4"	5/8"	5/8"	5/8"						
70	1"	3/4"	3/4"	5/8"						
80	1"	3/4"	3/4"	3/4"						
90	1"	1"	1"	3/4"						
100	1"	1"	1"	1"						
110	1"	1"	1"	1"						
120	1"	1"	1"	1"						
130	1"	1"	1"	1"						
140	1"1/4	1"	1"	1"						
150	1"1/4	1"	1"	1"						
160	1"1/4	1"1/4	1"	1"						
170	1"1/4	1"1/4	1"	1"						
180	1"1/4	1"1/4	1"1/4	1"						
190	1"1/4	1"1/4	1"1/4	1"						
200	1"1/2	1"1/4	1"1/4	1"1/4						
210	1"1/2	1"1/4	1"1/4	1"1/4						
220	1"1/2	1"1/4	1"1/4	1"1/4						
230	1"1/2	1"1/2	1"1/4	1"1/4						
240	1"1/2	1"1/2	1"1/4	1"1/4						
	50-100	100-150	150-200	200-300						
		P (bar)								

Important notes:

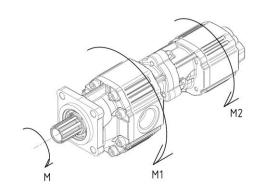
- Other axis available, please consult "Axel options".
- Aber recommends that the 1^{st} pump has more displacement than the 2^{nd} pump.



OIL-HYDRAULIC REINFORCED TANDEM GEAR PUMP

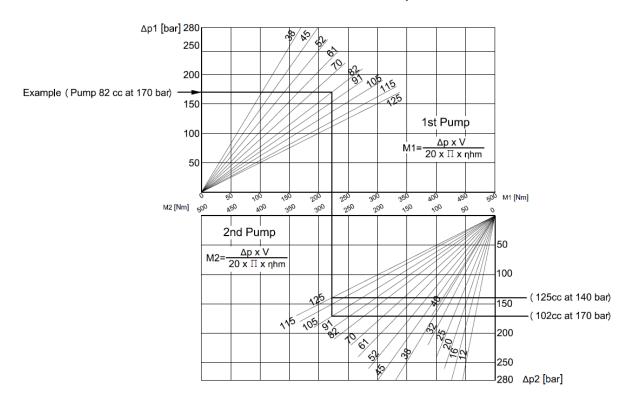
Ref. B34RD_DA

How to select 1st and 2nd pump:



Mmáx = 500Nm = M1 + M2

Diagram
Pressure – Drive Torque

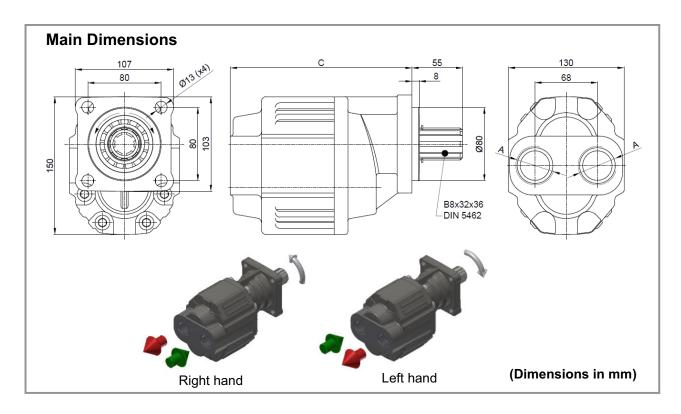


Example:

- 1st pump (B34D82) working at 170 bar, the 2nd pump can be all the combinations on the right side of the vertical line. For example: 125cc at 140 bar, 102cc at 170 bar, etc.

If the vertical line does not intersect the displacement line of the 2nd pump, it means that the maximum operating pressure of the 2nd pump is defined by the maximum operating pressure shown in the respective technical sheet. For example: 12cc at 280 bar, 61cc at 240 bar, etc.





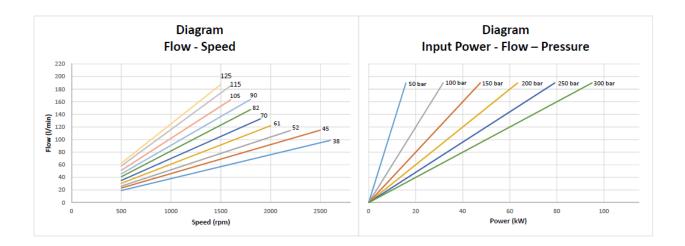
Main Data											
Pumps B34T		38	45	52	61	70	82	90	105	115	125
Displacement	cm³/rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.6	11.8	12.8	13.3	13.8	14.2	15.1	15.7	16.4
Sense of rotation		Bi-directional									
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	171	176	179	185	191	198	204	213	219	226

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34T→ B34T38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HL
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperatur
Máx operating limits viscosity	750 cS
Oil temperature range	-25°C to 80°
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data does no recommendations before start-up".	at exempt the reading of the instruction "Gear pumps



Hose dimensions

Inlet Hose						
Flow (I/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					
240-270	3"					

Outlet Hose									
Flow (I/min)	Internal pipe diameter (inch)								
30	1/2"	1/2"	1/2"	1/2"					
40	5/8"	1/2"	1/2"	1/2"					
50	5/8"	5/8"	5/8"	1/2"					
60	3/4"	5/8"	5/8"	5/8"					
70	1"	3/4"	3/4"	5/8"					
80	1"	3/4"	3/4"	3/4"					
90	1"	1"	1"	3/4"					
100	1"	1"	1"	1"					
110	1"	1"	1"	1"					
120	1"	1"	1"	1"					
130	1"	1"	1"	1"					
140	1"1/4	1"	1"	1"					
150	1"1/4	1"	1"	1"					
160	1"1/4	1"1/4	1"	1"					
170	1"1/4	1"1/4	1"	1"					
180	1"1/4	1"1/4	1"1/4	1"					
190	1"1/4	1"1/4	1"1/4	1"					
200	1"1/2	1"1/4	1"1/4	1"1/4					
210	1"1/2	1"1/4	1"1/4	1"1/4					
220	1"1/2	1"1/4	1"1/4	1"1/4					
230	1"1/2	1"1/2	1"1/4	1"1/4					
240	1"1/2	1"1/2	1"1/4	1"1/4					
	50-100	50-100 100-150 150-200 200-30							
	P (bar)								

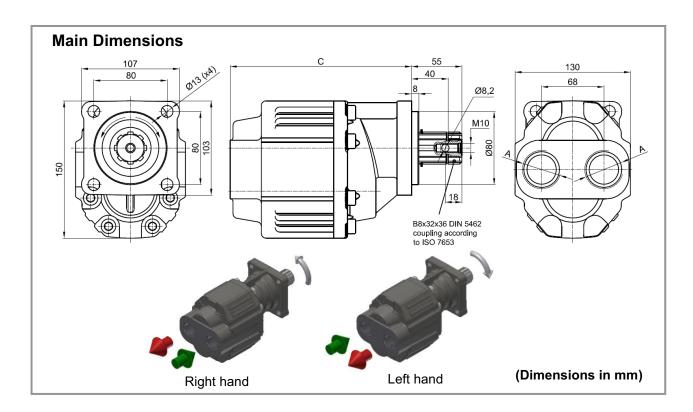
Important notes:

- Other axis available, please consult "Axel options".

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

CTI B34T 1604-1





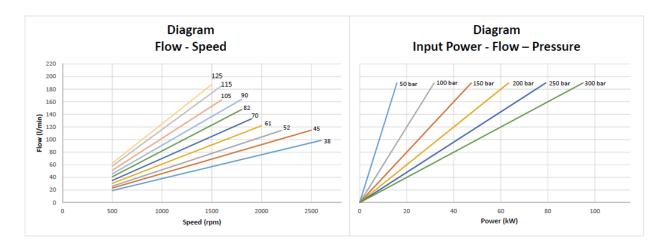
Main Data											
Pumps B34TI		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.6	11.8	12.8	13.3	13.8	14.2	15.1	15.7	16.4
Sense of rotation		Bi-directional									
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4"	3/4" 1" 1 1/4"								
С	mm	171	176	179	185	191	198	204	213	219	226

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34Tl→ B34Tl38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HL
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperatur
Máx operating limits viscosity	750 cS
Oil temperature range	-25°C to 80°
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data does no recommendations before start-up".	at exempt the reading of the instruction "Gear pumps



Hose dimensions

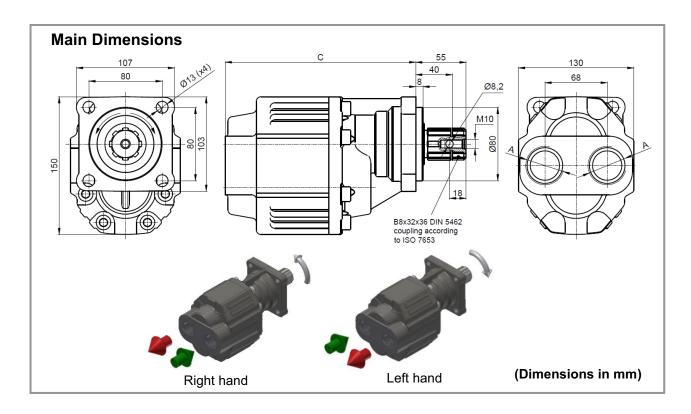
Inlet Hose						
Flow (I/min)	Internal pipe diameter (inch)					
30-40	1"1/4					
50-60	1"1/2					
70-90	1"3/4					
100-120	2"					
130-150	2"1/4					
160-190	2"1/2					
200-230	2"3/4					
240-270	3"					

Outlet Hose									
Flow (I/min)	Internal pipe diameter (inch)								
30	1/2"	1/2"	1/2"	1/2"					
40	5/8"	1/2"	1/2"	1/2"					
50	5/8"	5/8"	5/8"	1/2"					
60	3/4"	5/8"	5/8"	5/8"					
70	1"	3/4"	3/4"	5/8"					
80	1"	3/4"	3/4"	3/4"					
90	1"	1"	1"	3/4"					
100	1"	1"	1"	1"					
110	1"	1"	1"	1"					
120	1"	1"	1"	1"					
130	1"	1"	1"	1"					
140	1"1/4	1"	1"	1"					
150	1"1/4	1"	1"	1"					
160	1"1/4	1"1/4	1"	1"					
170	1"1/4	1"1/4	1"	1"					
180	1"1/4	1"1/4	1"1/4	1"					
190	1"1/4	1"1/4	1"1/4	1"					
200	1"1/2	1"1/4	1"1/4	1"1/4					
210	1"1/2	1"1/4	1"1/4	1"1/4					
220	1"1/2	1"1/4	1"1/4	1"1/4					
230	1"1/2	1"1/2	1"1/4	1"1/4					
240	1"1/2	1"1/2	1"1/4	1"1/4					
	50-100	50-100 100-150 150-200 200-30							
	P (bar)								

Important notes:

- Other axis available, please consult "Axel options".





	Main Data										
Pumps B34TR		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.0	12.5	12.7	13.6	14.1	14.7	15.1	16.0	16.6	17.3
Sense of rotation							Bi-diı	rectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	181	186	189	195	201	208	214	223	229	236

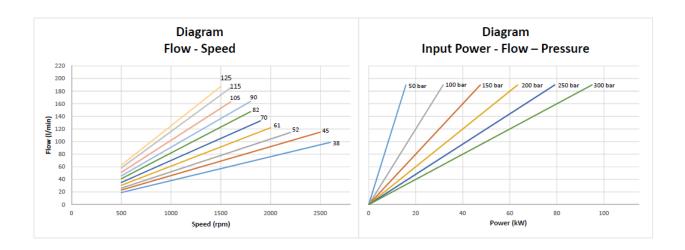
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34TR→ B34TR38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HL
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperatu
Máx operating limits viscosity	750 c
Oil temperature range	-25°C to 80°
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data does recommendations before start-up".	s not exempt the reading of the instruction "Gear pumps





Hose dimensions

Inlet Hose						
Flow (I/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					
240-270	3"					

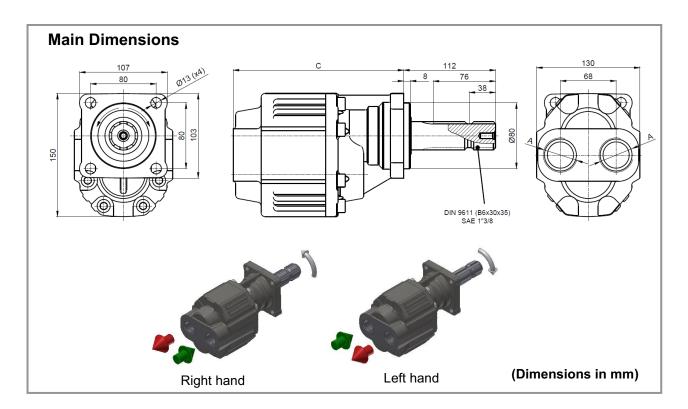
Outlet Hose							
Flow (I/min)	Internal pipe diameter (inch)						
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
	P (bar)						

Important notes:

- Other axis available, please consult "Axel options".



Ref. B34TR_DA



Main Data											
Pumps B34TR_DA	Pumps B34TR_DA 38 45 52 61 70 82 90 105 115							125			
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.2	12.7	12.9	13.8	14.4	14.9	15.3	16.2	16.8	17.5
Sense of rotation			Bi-directional Bi-directional								
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	181	186	189	195	201	208	214	223	229	236

How to order:

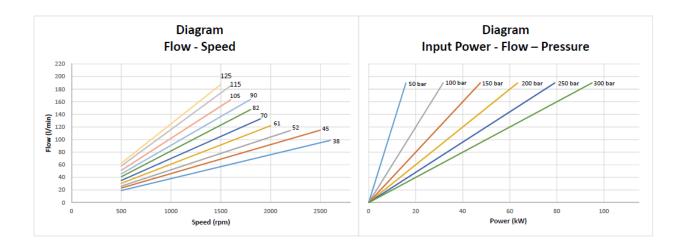
Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34TR_DA→ B34TR38DA

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data do recommendations before start-up".	bes not exempt the reading of the instruction "Gear pumps



Ref. B34TR_DA



Hose dimensions

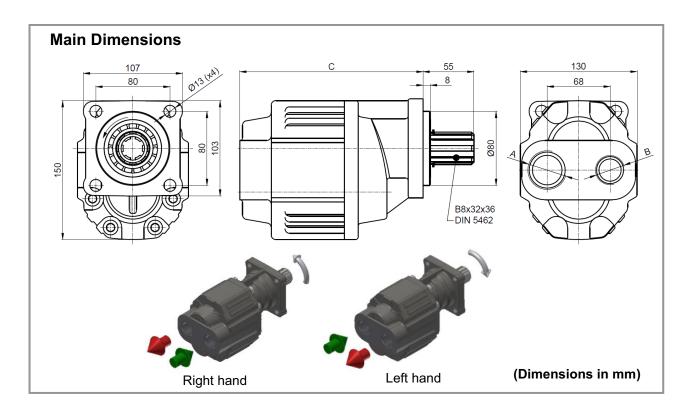
Inlet Hose						
Flow (I/min)	Internal pipe diameter (inch)					
30-40	1"1/4					
50-60	1"1/2					
70-90	1"3/4					
100-120	2"					
130-150	2"1/4					
160-190	2"1/2					
200-230	2"3/4					
240-270	3"					

Outlet Hose							
Flow (I/min)	Internal pipe diameter (inch)						
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
	P (bar)						

Important notes:

- Other axis available, please consult "Axel options".





Main Data											
Pumps B34TU		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.6	11.8	12.8	13.3	13.8	14.2	15.1	15.7	16.4
Sense of rotation		Unidirectional (Left [L] or Right [R])									
A - Inlet (DIN ISO 228)	G (BSP)	3/4"	3/4" 1" 1 1/4"								
B - Outlet (DIN ISO 228)	G (BSP)	3/4" 1"									
С	mm	171	176	179	185	191	198	204	213	219	226

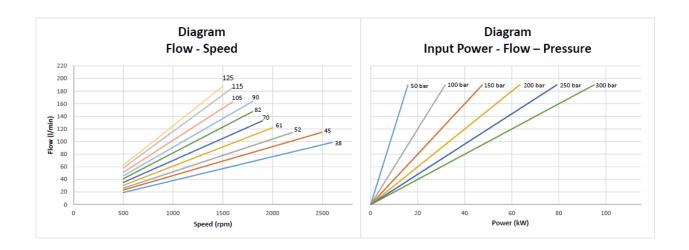
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34TU, rotation left → B34TU38L

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or I	DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at wor	king temperature
Máx operating limits viscosity		750 cSt
Oil temperature range		-25°C to 80°C
Filtration	>200bar = 10µm <2	00bar = 25 μm
In the application of any of these pumps; the use of these data does not exe recommendations before start-up".	empt the reading of the instruction	n "Gear pumps





Hose dimensions

Inlet Hose						
Flow (I/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					
240-270	3"					

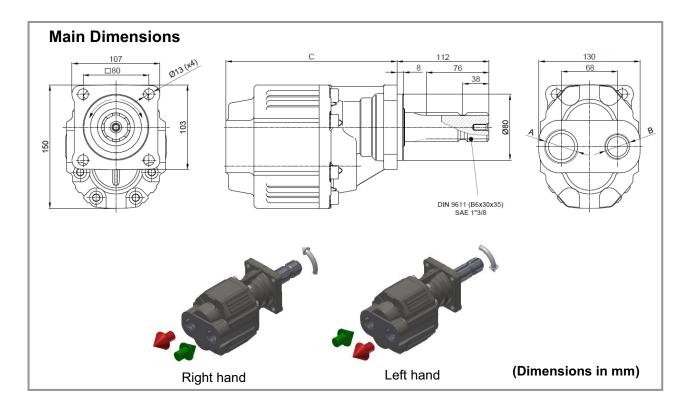
Outlet Hose								
Flow (I/min)	In	Internal pipe diameter (inch)						
30	1/2"	1/2"	1/2"	1/2"				
40	5/8"	1/2"	1/2"	1/2"				
50	5/8"	5/8"	5/8"	1/2"				
60	3/4"	5/8"	5/8"	5/8"				
70	1"	3/4"	3/4"	5/8"				
80	1"	3/4"	3/4"	3/4"				
90	1"	1"	1"	3/4"				
100	1"	1"	1"	1"				
110	1"	1"	1"	1"				
120	1"	1"	1"	1"				
130	1"	1"	1"	1"				
140	1"1/4	1"	1"	1"				
150	1"1/4	1"	1"	1"				
160	1"1/4	1"1/4	1"	1"				
170	1"1/4	1"1/4	1"	1"				
180	1"1/4	1"1/4	1"1/4	1"				
190	1"1/4	1"1/4	1"1/4	1"				
200	1"1/2	1"1/4	1"1/4	1"1/4				
210	1"1/2	1"1/4	1"1/4	1"1/4				
220	1"1/2	1"1/4	1"1/4	1"1/4				
230	1"1/2	1"1/2	1"1/4	1"1/4				
240	1"1/2	1"1/2	1"1/4	1"1/4				
	50-100	100-150	150-200	200-300				
		P (bar)						

Important notes:

- Other axis available, please consult "Axel options".



Ref. B34TUR_DA



Main Data											
Pumps B34TUR_DA		38	38						125		
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.2	12.7	12.9	13.8	14.4	14.9	15.3	16.2	16.8	17.5
Sense of rotation		Unidirectional (Left [L] or Right [R])									
A - Inlet (DIN ISO 228)	G (BSP)	3/4"	1" 1 1/4"								
B - Outlet (DIN ISO 228)	G (BSP)	3/4"	3/4" 1"								
С	mm	181	186	189	195	201	208	214	223	229	236

How to order:

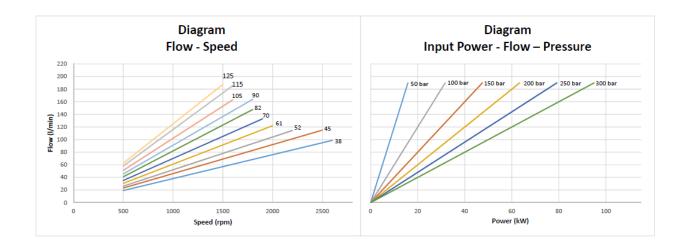
Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34TUR_DA, rotation left → B34TUR38DAL

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data doe recommendations before start-up".	es not exempt the reading of the instruction "Gear pumps



Ref. B34TUR_DA



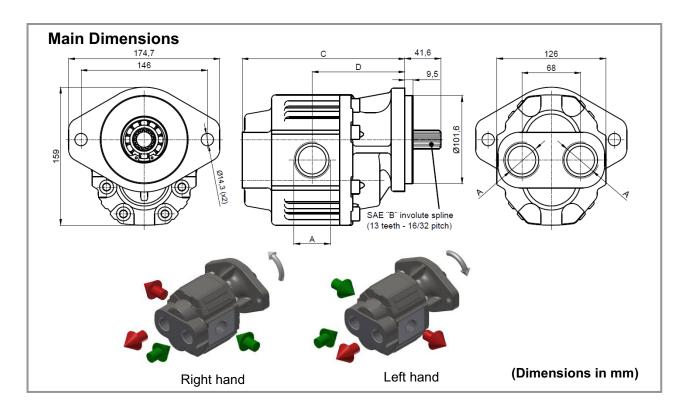
Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

Outlet Hose							
Flow (I/min)	In	Internal pipe diameter (inch)					
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
		P (l	oar)				

Important notes:





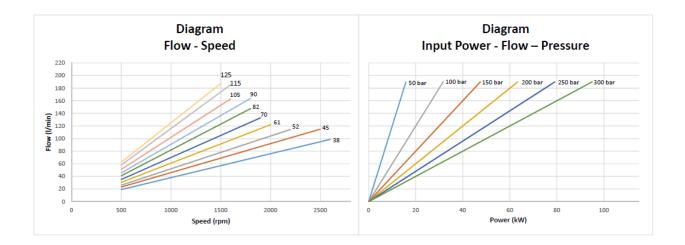
Main Data											
Pumps B3B2GT		38	38 45 52 61 70 82 90 105 115 125						125		
Displacement	cm³/rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.4	12.6	12.9	13.5	13.9	14.5	14.9	15.8	16.3	17.0
Sense of rotation		Bi-directional									
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	161	166	169	175	181	188	194	203	209	216
D	mm	96	99	102	107	108	113	117	120	122	125

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B3B2GT→ B3B2GT38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51	1524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working to	emperature
Máx operating limits viscosity		750 cSt
Oil temperature range	-25	s°C to 80°C
Filtration	>200bar = 10µm <200bar	= 25 µm
In the application of any of these pumps; the use of these data do recommendations before start-up".	es not exempt the reading of the instruction ''Ge	ar pumps



Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

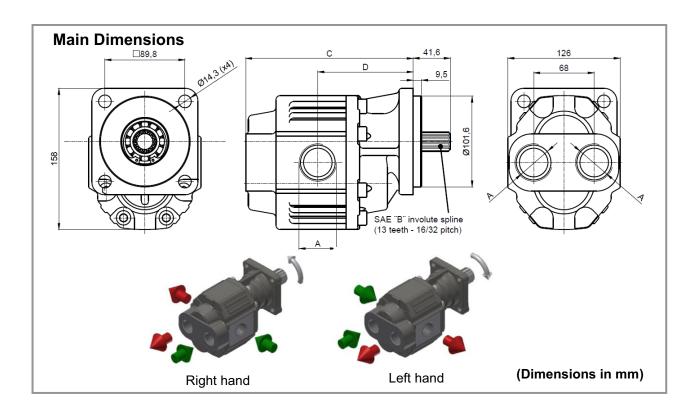
Outlet Hose							
Flow (I/min)	Ir	Internal pipe diameter (inch)					
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
		P (l	oar)				

Important notes:

- Other axis available, please consult "Axel options".

CTI B3B2GT 1604-1



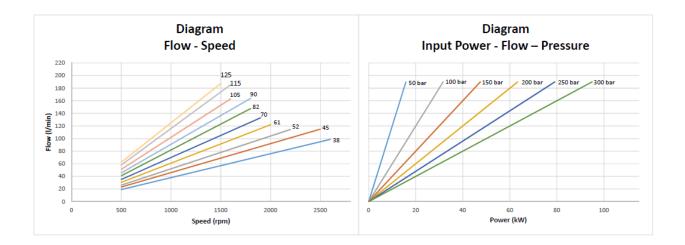


Main Data											
Pumps B3B4GT		38	45	52	61	70	82	90	105	115	125
Displacement	cm³/rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.3	12.5	12.7	13.4	13.8	14.4	14.8	15.6	16.2	16.8
Sense of rotation		Bi-directional									
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	161	166	169	175	181	188	194	203	209	216
D	mm	96	99	102	107	108	113	117	120	122	125

How to order: Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B3B4GT→ B3B4GT38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 H	LP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperate	ure
Máx operating limits viscosity	750 (cSt
Oil temperature range	-25°C to 80)°C
Filtration	>200bar = 10μm <200bar = 25 μm	1
In the application of any of these pumps; the use of these data derecommendations before start-up".	oes not exempt the reading of the instruction "Gear pump	S



Hose dimensions

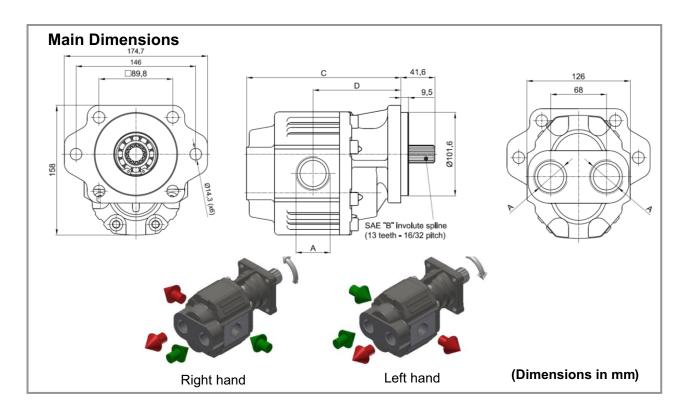
Inlet Hose					
Flow (I/min)	Internal pipe diameter (inch)				
30-40	1"1/4				
50-60	1"1/2				
70-90	1"3/4				
100-120	2"				
130-150	2"1/4				
160-190	2"1/2				
200-230	2"3/4				
240-270	3"				

Outlet Hose							
Flow (I/min)	In	Internal pipe diameter (inch)					
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
		P (I	oar)				

Important notes:

CTI B3B4GT 1604-1





Main Data											
Pumps B3B24GT		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.3	12.5	12.7	13.4	13.8	14.4	14.8	15.6	16.2	16.8
Sense of rotation							Bi-dir	ectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4	3/4" 1" 1 1/4"								
С	mm	161	166	169	175	181	188	194	203	209	216
D	mm	96	99	102	107	108	113	117	120	122	125

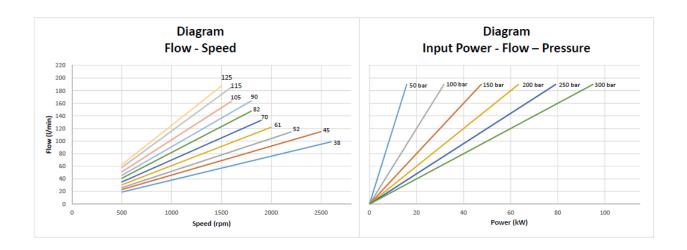
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B3B24GT→ B3B24GT38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO H	M or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s)	at working temperature
Máx operating limits viscosity		750 cSt
Oil temperature range		-25°C to 80°C
Filtration	>200bar = 10µm	<200bar = 25 µm
In the application of any of these pumps; the use of these data does not recommendations before start-up".	exempt the reading of the instr	uction "Gear pumps





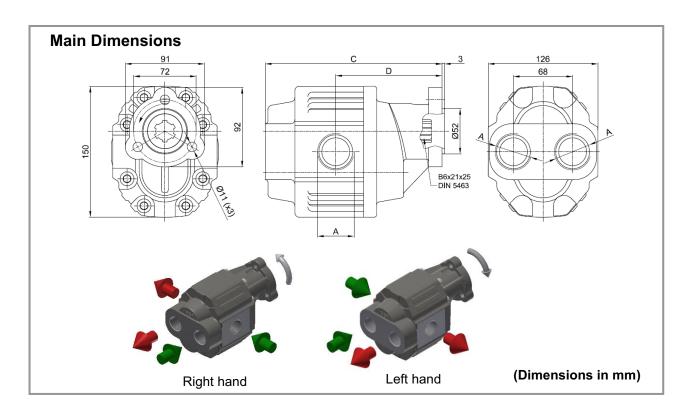
Hose dimensions

Inlet Hose				
Flow (I/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			
240-270	3"			

Outlet Hose						
Flow (I/min)	Ir	Internal pipe diameter (inch)				
30	1/2"	1/2"	1/2"	1/2"		
40	5/8"	1/2"	1/2"	1/2"		
50	5/8"	5/8"	5/8"	1/2"		
60	3/4"	5/8"	5/8"	5/8"		
70	1"	3/4"	3/4"	5/8"		
80	1"	3/4"	3/4"	3/4"		
90	1"	1"	1"	3/4"		
100	1"	1"	1"	1"		
110	1"	1"	1"	1"		
120	1"	1"	1"	1"		
130	1"	1"	1"	1"		
140	1"1/4	1"	1"	1"		
150	1"1/4	1"	1"	1"		
160	1"1/4	1"1/4	1"	1"		
170	1"1/4	1"1/4	1"	1"		
180	1"1/4	1"1/4	1"1/4	1"		
190	1"1/4	1"1/4	1"1/4	1"		
200	1"1/2	1"1/4	1"1/4	1"1/4		
210	1"1/2	1"1/4	1"1/4	1"1/4		
220	1"1/2	1"1/4	1"1/4	1"1/4		
230	1"1/2	1"1/2	1"1/4	1"1/4		
240	1"1/2	1"1/2	1"1/4	1"1/4		
	50-100	100-150	150-200	200-300		
		P (I	bar)			

Important notes:





Main Data											
Pumps B33GT		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.3	11.6	12.2	12.6	13.2	13.6	14.4	15.0	15.6
Sense of rotation							Bi-dir	ectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	186	191	194	200	206	213	219	228	234	241
D	mm	121	124	127	132	133	138	142	145	147	150

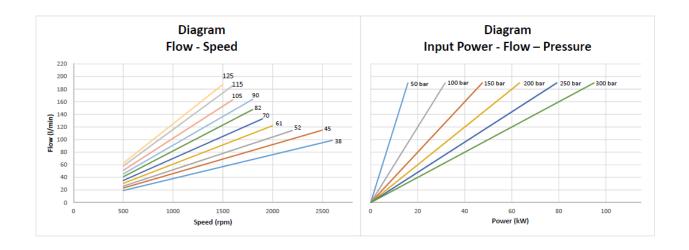
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B33GT→ B33GT38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these da recommendations before start-up".	ta does not exempt the reading of the instruction "Gear pumps





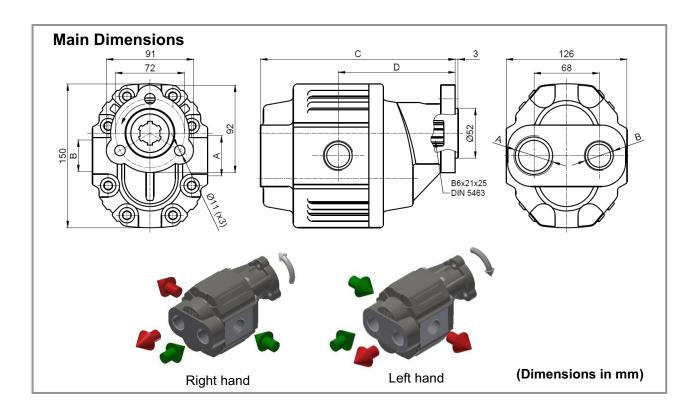
Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

Outlet Hose						
Flow (I/min)	In	Internal pipe diameter (inch)				
30	1/2"	1/2"	1/2"	1/2"		
40	5/8"	1/2"	1/2"	1/2"		
50	5/8"	5/8"	5/8"	1/2"		
60	3/4"	5/8"	5/8"	5/8"		
70	1"	3/4"	3/4"	5/8"		
80	1"	3/4"	3/4"	3/4"		
90	1"	1"	1"	3/4"		
100	1"	1"	1"	1"		
110	1"	1"	1"	1"		
120	1"	1"	1"	1"		
130	1"	1"	1"	1"		
140	1"1/4	1"	1"	1"		
150	1"1/4	1"	1"	1"		
160	1"1/4	1"1/4	1"	1"		
170	1"1/4	1"1/4	1"	1"		
180	1"1/4	1"1/4	1"1/4	1"		
190	1"1/4	1"1/4	1"1/4	1"		
200	1"1/2	1"1/4	1"1/4	1"1/4		
210	1"1/2	1"1/4	1"1/4	1"1/4		
220	1"1/2	1"1/4	1"1/4	1"1/4		
230	1"1/2	1"1/2	1"1/4	1"1/4		
240	1"1/2	1"1/2	1"1/4	1"1/4		
	50-100	100-150	150-200	200-300		
		P (I	oar)			

Important notes:





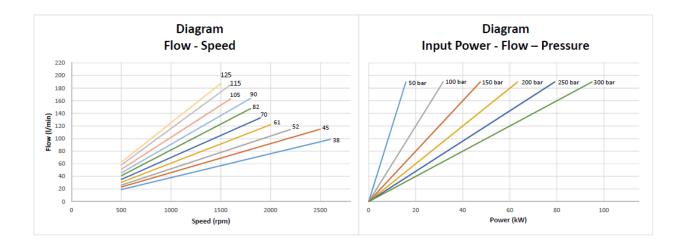
Main Data											
Pumps B33GTU		38	38 45 52 61 70 82 90 105 115					125			
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.1	11.3	11.6	12.2	12.6	13.2	13.6	14.4	15.0	15.6
Sense of rotation						Unidir	ectional (L	eft [L] or	Right [R])	
A - Inlet (DIN ISO 228)	G (BSP)	3/4"		1"				1	1/4"		
B - Outlet (DIN ISO 228)	G (BSP)	3/4"	3/4" 1"								
С	mm	186	191	194	200	206	213	219	228	234	241
D	mm	121	124	127	132	135	138	142	145	147	150

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B33GTU, rotation left →B33GTU38L

Note: Usually, used in frontal cylinders

Total County, accam nontan cymracic	
Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data recommendations before start-up".	does not exempt the reading of the instruction "Gear pumps



Hose dimensions

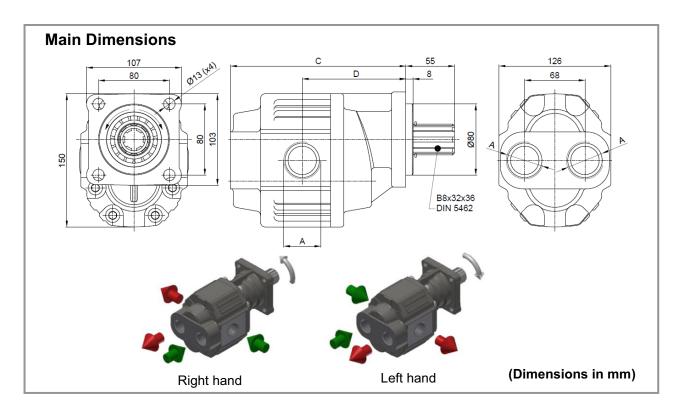
Inlet Hose					
Flow (I/min)	Internal pipe diameter (inch)				
30-40	1"1/4				
50-60	1"1/2				
70-90	1"3/4				
100-120	2"				
130-150	2"1/4				
160-190	2"1/2				
200-230	2"3/4				
240-270	3"				

Outlet Hose						
Flow (I/min)	In	Internal pipe diameter (inch)				
30	1/2"	1/2"	1/2"	1/2"		
40	5/8"	1/2"	1/2"	1/2"		
50	5/8"	5/8"	5/8"	1/2"		
60	3/4"	5/8"	5/8"	5/8"		
70	1"	3/4"	3/4"	5/8"		
80	1"	3/4"	3/4"	3/4"		
90	1"	1"	1"	3/4"		
100	1"	1"	1"	1"		
110	1"	1"	1"	1"		
120	1"	1"	1"	1"		
130	1"	1"	1"	1"		
140	1"1/4	1"	1"	1"		
150	1"1/4	1"	1"	1"		
160	1"1/4	1"1/4	1"	1"		
170	1"1/4	1"1/4	1"	1"		
180	1"1/4	1"1/4	1"1/4	1"		
190	1"1/4	1"1/4	1"1/4	1"		
200	1"1/2	1"1/4	1"1/4	1"1/4		
210	1"1/2	1"1/4	1"1/4	1"1/4		
220	1"1/2	1"1/4	1"1/4	1"1/4		
230	1"1/2	1"1/2	1"1/4	1"1/4		
240	1"1/2	1"1/2	1"1/4	1"1/4		
	50-100	100-150	150-200	200-300		
		P (I	oar)			

Important notes:

CTI B33GTU 1604-1





Main Data											
Pumps B34GT		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.0	11.2	11.5	12.5	13.0	13.5	14.0	15.0	15.5	16.0
Sense of rotation							Bi-dir	ectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	171	176	179	185	191	198	204	213	219	226
D	mm	106	109	112	117	118	123	127	130	132	135

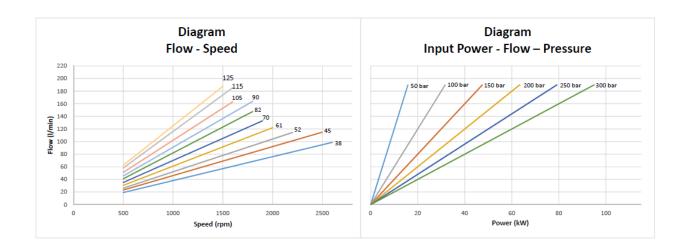
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34GT→ B34GT38

Note: Usually, used in frontal cylinders

Total ocaany, acca in normal cymnacic	
Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data recommendations before start-up".	does not exempt the reading of the instruction "Gear pumps





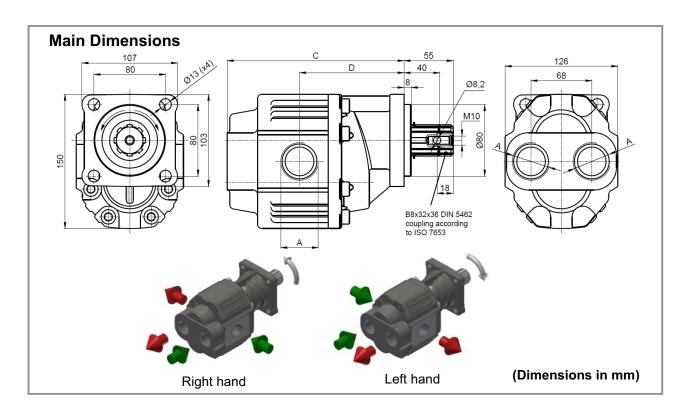
Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

Outlet Hose							
Flow (I/min)	In	Internal pipe diameter (inch)					
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
		P (bar)					

Important notes:





Main Data											
Pumps B34GTI		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.6	11.8	12.1	12.7	13.1	13.7	14.1	15.0	15.5	16.2
Sense of rotation							Bi-di	rectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4"	1" 1 1/4"								
С	mm	171	176	179	185	191	198	204	213	219	226
D	mm	106	109	112	117	115	123	127	130	132	135

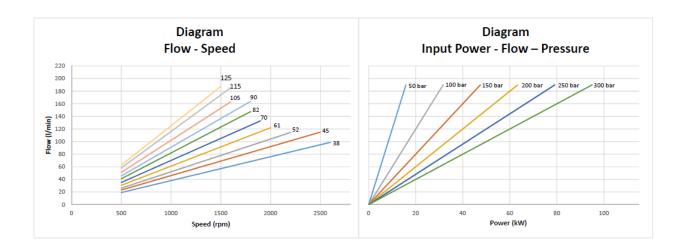
How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34GTI→ B34GTI38

Note: Usually, used in frontal cylinders

Total ocaany, acca in normal cymnacic	
Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these data recommendations before start-up".	does not exempt the reading of the instruction "Gear pumps





Hose dimensions

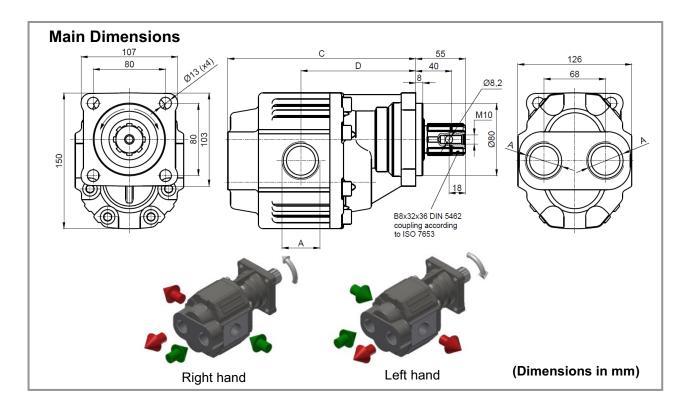
Inlet Hose					
Flow (I/min)	Internal pipe diameter (inch)				
30-40	1"1/4				
50-60	1"1/2				
70-90	1"3/4				
100-120	2"				
130-150	2"1/4				
160-190	2"1/2				
200-230	2"3/4				
240-270	3"				

Outlet Hose							
Flow (I/min)	In	Internal pipe diameter (inch)					
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
		P (bar)					

Important notes:



Ref. B34GTR



Main Data											
Pumps B34GTR		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.4	12.6	12.8	13.5	13.9	14.5	14.9	15.7	16.3	16.9
Sense of rotation							Bi-diı	ectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1" 1 1/4"									
С	mm	181	186	189	195	201	208	214	223	229	236
D	mm	116	119	122	127	128	133	137	140	142	145

How to order:

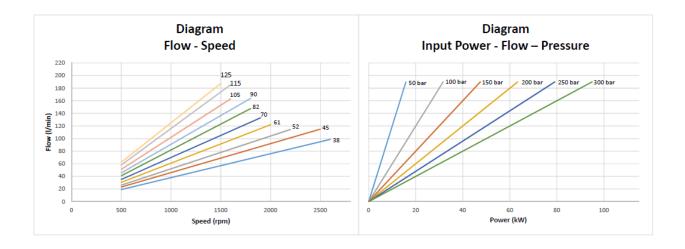
Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34GTR38

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524	-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temp	erature
Máx operating limits viscosity		750 cSt
Oil temperature range	-25°C t	o 80°C
Filtration	>200bar = 10µm <200bar = 2	5 µm
In the application of any of these pumps; the use of these data do recommendations before start-up".	es not exempt the reading of the instruction "Gear p	umps



Ref. B34GTR



Hose dimensions

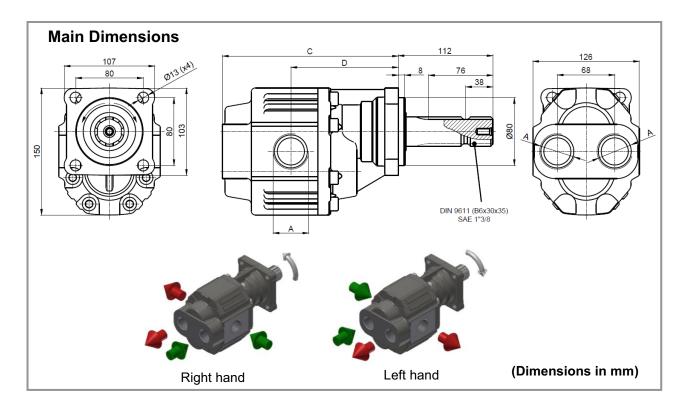
Inlet Hose					
Flow (I/min)	Internal pipe diameter (inch)				
30-40	1"1/4				
50-60	1"1/2				
70-90	1"3/4				
100-120	2"				
130-150	2"1/4				
160-190	2"1/2				
200-230	2"3/4				
240-270	3"				

Outlet Hose							
Flow (I/min)	In	Internal pipe diameter (inch)					
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
		P (I	oar)				

Important notes:



Ref. B34GTR_DA



Main Data											
Pumps B34GTR_DA		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.6	12.8	13.0	13.7	14.1	14.7	15.1	15.9	16.5	17.1
Sense of rotation							Bi-di	rectional			
A - Inlet /Outlet (DIN ISO 228)	G (BSP)	3/4" 1"					1 1/4"				
С	mm	181	186	189	195	201	208	214	223	229	236
D	mm	116	119	122	127	128	133	137	140	142	145

How to order:

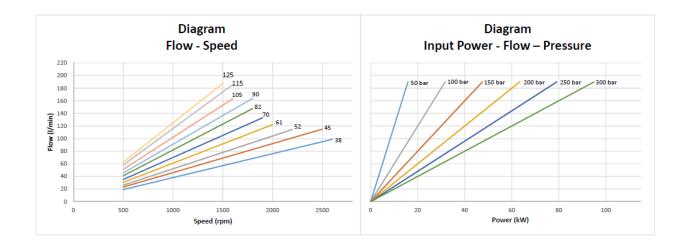
Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34GTR_DA→ B34GTR38DA

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51	1524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working to	emperature
Máx operating limits viscosity		750 cSt
Oil temperature range	-25	s°C to 80°C
Filtration	>200bar = 10µm <200bar	= 25 µm
In the application of any of these pumps; the use of these data do recommendations before start-up".	es not exempt the reading of the instruction ''Ge	ar pumps



Ref. B34GTR_DA



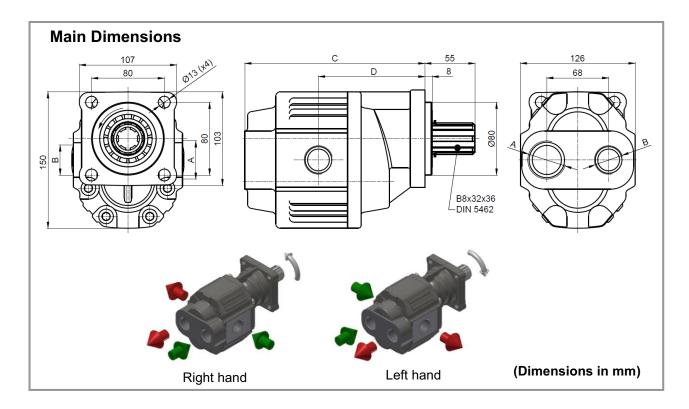
Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

	Outlet Hose						
Flow (I/min)	In	Internal pipe diameter (inch)					
30	1/2"	1/2"	1/2"	1/2"			
40	5/8"	1/2"	1/2"	1/2"			
50	5/8"	5/8"	5/8"	1/2"			
60	3/4"	5/8"	5/8"	5/8"			
70	1"	3/4"	3/4"	5/8"			
80	1"	3/4"	3/4"	3/4"			
90	1"	1"	1"	3/4"			
100	1"	1"	1"	1"			
110	1"	1"	1"	1"			
120	1"	1"	1"	1"			
130	1"	1"	1"	1"			
140	1"1/4	1"	1"	1"			
150	1"1/4	1"	1"	1"			
160	1"1/4	1"1/4	1"	1"			
170	1"1/4	1"1/4	1"	1"			
180	1"1/4	1"1/4	1"1/4	1"			
190	1"1/4	1"1/4	1"1/4	1"			
200	1"1/2	1"1/4	1"1/4	1"1/4			
210	1"1/2	1"1/4	1"1/4	1"1/4			
220	1"1/2	1"1/4	1"1/4	1"1/4			
230	1"1/2	1"1/2	1"1/4	1"1/4			
240	1"1/2	1"1/2	1"1/4	1"1/4			
	50-100	100-150	150-200	200-300			
		P (I	oar)				

Important notes:





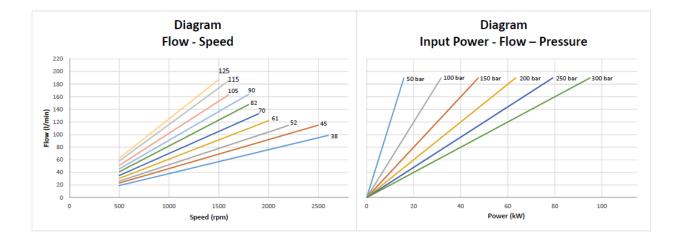
Main Data											
Pumps B34GTU		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	11.0	11.2	11.5	12.5	13.0	13.5	14.0	15.0	15.5	16.0
Sense of rotation						Unidir	ectional (L	eft [L] or	Right [R])	
A - Inlet (DIN ISO 228)	G (BSP)	3/4"		1"				1	1/4"		
B - Outlet (DIN ISO 228)	G (BSP)	3/4"	3/4" 1"								
С	mm	171	176	179	185	191	198	204	213	219	226
D	mm	106	109	112	117	118	123	127	130	132	135

How to order:

Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34GTU, rotation left →B34GTU38L

Note: Usually, used in frontal cylinders

Jer Coudiny, account normal cylinders		
Fluids	mineral oils type ISO H	IM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s)	at working temperature
Máx operating limits viscosity		750 cSt
Oil temperature range		-25°C to 80°C
Filtration	>200bar = 10µm	<200bar = 25 µm
In the application of any of these pumps; the use of these data does recommendations before start-up".	not exempt the reading of the ins	truction "Gear pumps



Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

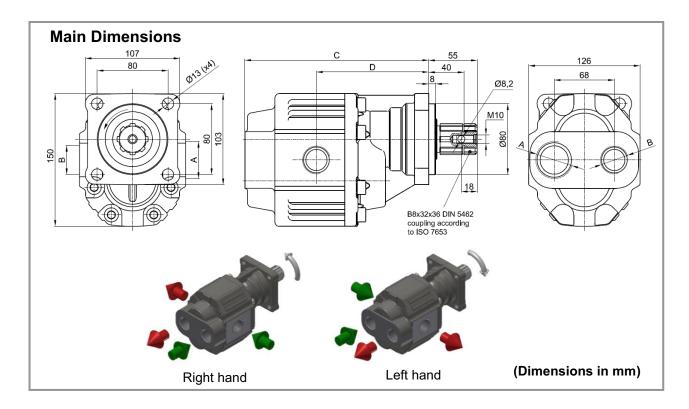
Outlet Hose						
Flow (I/min)	In	Internal pipe diameter (inch)				
30	1/2"	1/2"	1/2"	1/2"		
40	5/8"	1/2"	1/2"	1/2"		
50	5/8"	5/8"	5/8"	1/2"		
60	3/4"	5/8"	5/8"	5/8"		
70	1"	3/4"	3/4"	5/8"		
80	1"	3/4"	3/4"	3/4"		
90	1"	1"	1"	3/4"		
100	1"	1"	1"	1"		
110	1"	1"	1"	1"		
120	1"	1"	1"	1"		
130	1"	1"	1"	1"		
140	1"1/4	1"	1"	1"		
150	1"1/4	1"	1"	1"		
160	1"1/4	1"1/4	1"	1"		
170	1"1/4	1"1/4	1"	1"		
180	1"1/4	1"1/4	1"1/4	1"		
190	1"1/4	1"1/4	1"1/4	1"		
200	1"1/2	1"1/4	1"1/4	1"1/4		
210	1"1/2	1"1/4	1"1/4	1"1/4		
220	1"1/2	1"1/4	1"1/4	1"1/4		
230	1"1/2	1"1/2	1"1/4	1"1/4		
240	1"1/2	1"1/2	1"1/4	1"1/4		
	50-100	100-150	150-200	200-300		
		P (l	oar)			

Important notes:

- Other axis available, please consult "Axel options".



Ref. B34GTUR



Main Data											
Pumps B34GTUR		38	45	52	61	70	82	90	105	115	125
Displacement	cm ³ /rev	38	46	52	61	70	82	91	102	116	125
Max. rotation speed	rpm	2600	2500	2200	2000	1900	1800	1800	1600	1600	1500
Min. rotation speed	rpm	500	500	500	500	500	500	500	500	500	500
Max. continuous pressure	bar	300	280	260	240	220	210	190	190	180	170
Max. intermittent pressure (max. 20s)	bar	320	300	280	260	240	230	210	210	200	190
Max. peak pressure (max. 6s)	bar	335	315	295	275	255	245	225	225	215	205
Weight	kg	12.4	12.6	12.8	13.5	13.9	14.5	14.9	15.7	16.3	16.9
Sense of rotation						Unidir	ectional (L	eft [L] or	Right [R])	
A - Inlet (DIN ISO 228)	G (BSP)	3/4"		1"				1	1/4"		
B - Outlet (DIN ISO 228)	G (BSP)	3/4"	3/4"						1"		
С	mm	181	186	189	195	201	208	214	223	229	236
D	mm	116	119	122	127	128	133	137	140	142	145

How to order:

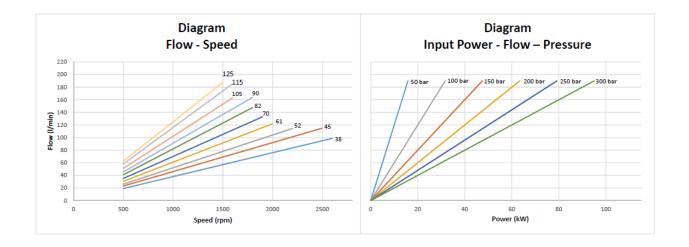
Example: Pump 38cm³/rev, continuous pressure up to 300 bar; peak pressure up to 335 bar, ref.B34GTUR, rotation left →B34GTUR38L

Note: Usually, used in frontal cylinders

Fluids	mineral oils type ISO HM or DIN 51524-2 HLP
Operating viscosity range	10 to 100 cSt (mm2/s) at working temperature
Máx operating limits viscosity	750 cSt
Oil temperature range	-25°C to 80°C
Filtration	>200bar = 10μm <200bar = 25 μm
In the application of any of these pumps; the use of these da recommendations before start-up".	ta does not exempt the reading of the instruction "Gear pumps



Ref. B34GTUR



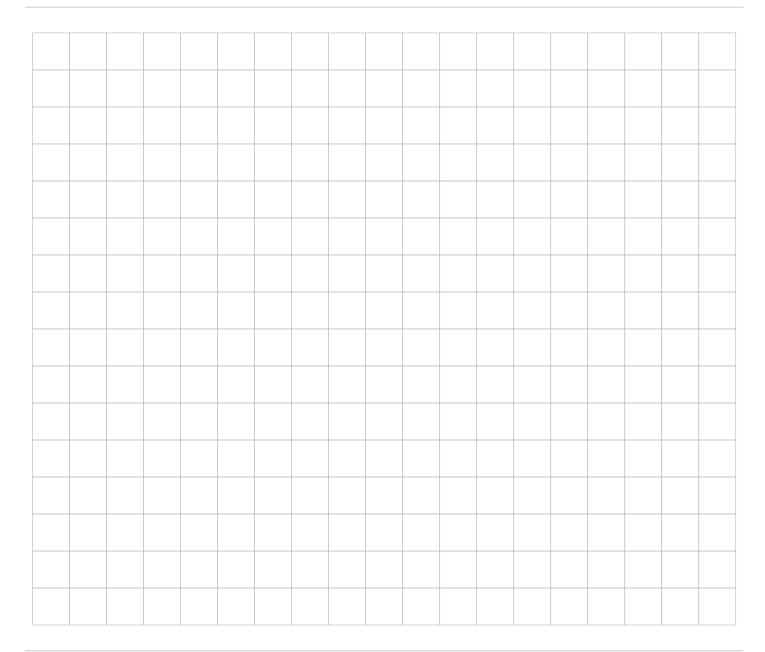
Hose dimensions

Inlet Hose					
Flow (I/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				
240-270	3"				

Outlet Hose						
Flow (I/min)	In	Internal pipe diameter (inch)				
30	1/2"	1/2"	1/2"	1/2"		
40	5/8"	1/2"	1/2"	1/2"		
50	5/8"	5/8"	5/8"	1/2"		
60	3/4"	5/8"	5/8"	5/8"		
70	1"	3/4"	3/4"	5/8"		
80	1"	3/4"	3/4"	3/4"		
90	1"	1"	1"	3/4"		
100	1"	1"	1"	1"		
110	1"	1"	1"	1"		
120	1"	1"	1"	1"		
130	1"	1"	1"	1"		
140	1"1/4	1"	1"	1"		
150	1"1/4	1"	1"	1"		
160	1"1/4	1"1/4	1"	1"		
170	1"1/4	1"1/4	1"	1"		
180	1"1/4	1"1/4	1"1/4	1"		
190	1"1/4	1"1/4	1"1/4	1"		
200	1"1/2	1"1/4	1"1/4	1"1/4		
210	1"1/2	1"1/4	1"1/4	1"1/4		
220	1"1/2	1"1/4	1"1/4	1"1/4		
230	1"1/2	1"1/2	1"1/4	1"1/4		
240	1"1/2	1"1/2	1"1/4	1"1/4		
	50-100	100-150	150-200	200-300		
		P (bar)				

Important notes:





The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.



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