

Ordering Code

ALM2	Type	Rotation	Size	Shaft*	Ports*	Seals*	Options*	Drain**
	omit	D Clockwise	6	Seals omit (T range = -10°C + 80°C) V ...				
	A	S Counter Clockwise	9					
	BK1	R Reversible	10					
	BK2		12	Options T OR**** ...				
	BK4		13					
	BK7		16					
			20	Drain E0 = internal drain E1 = external drain G1/4 E2 = external drain 9/16-18 UNF*** ... (*) = to be specified if different from standard "motor type". (**) = only for R rotation. (***) = Drain ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO 11926-1). (****) = only for A and BK1 motor types.				
			22					
			25					
			30					
			34					
			37					
			40					
								

Motor Standard Types

omit = European flange + shaft T0 + ports E + standard seals.

A = flange A + shaft C1 + ports FA + standard seals.

BK1 = flange BK1 + shaft T1 + ports D + standard seals.

BK2 = flange BK2 + shaft T2 + ports D + standard seals.

BK4 = flange BK4 + shaft T2 + ports D + standard seals.

BK7 = flange BK7 + shaft G0 + ports D + standard seals.

Examples

ALM2-D-6 = Clockwise rotation, 4.5 cc/rev, European flange, 1:8 tapered shaft, flanged ports E type, standard seals.

ALM2A-D-6-KA = Clockwise rotation, 4.5 cc/rev, SAE A2 bolt flange, cylindrical shaft, standard seals, UNF threaded rear ports (KA).

ALM2BK2-D-6-E = Clockwise rotation, 4.5 cc/rev, German square flange, 1:5 tapered shaft, European flanged ports (E), standard seals.

ALM2-R-13-E1 = Reversible motor, 9.6 cc/rev, European flange, 1:8 tapered shaft, flanged ports E type, standard seals, external drain (E1).

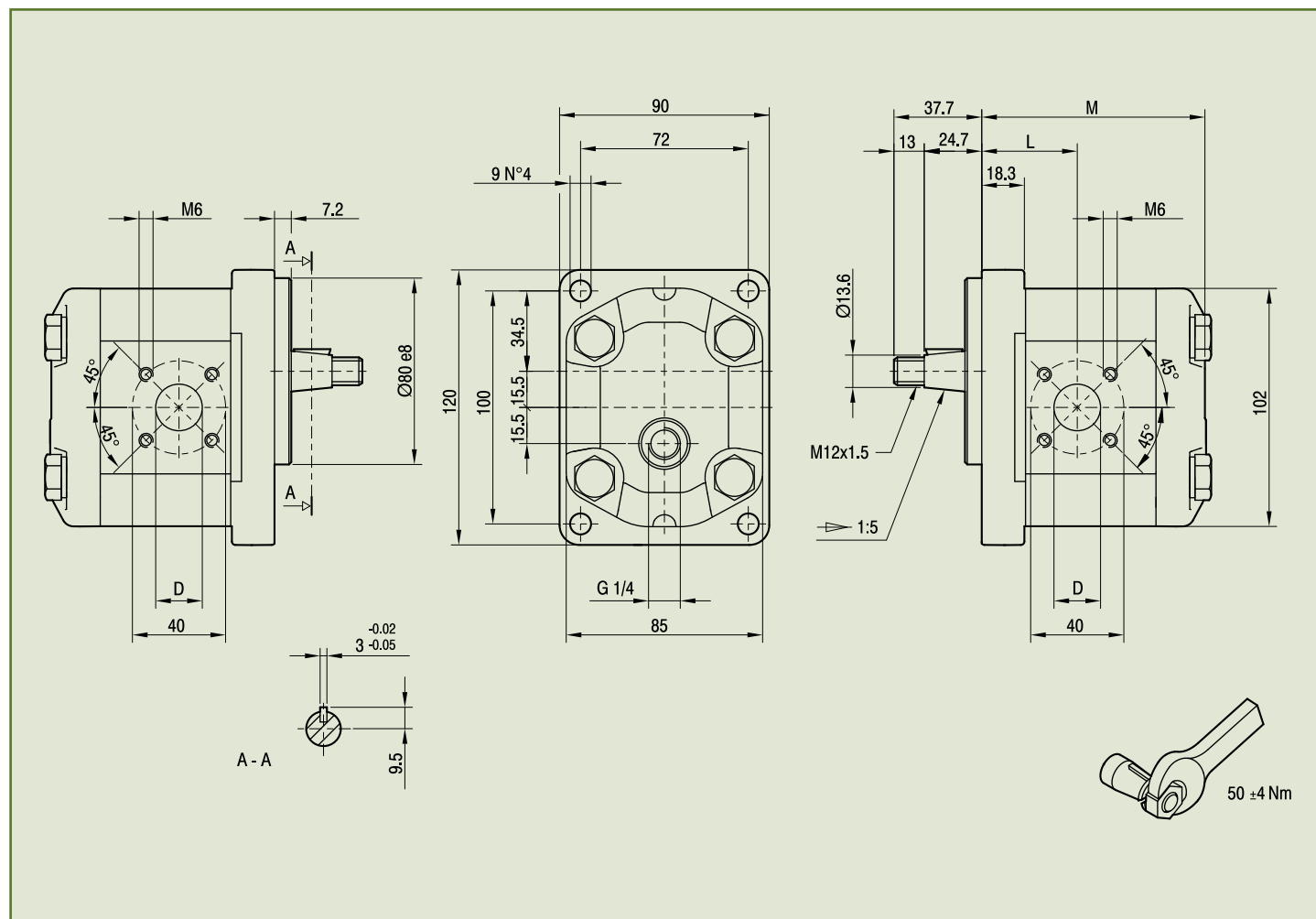
ALM2A-R-6-OR-E2 = Reversible motor, 4.5 cc/rev, SAE A2 bolt flange, cylindrical shaft C1, threaded ports FA, standard seal, OR seal on pilot, external drain (E2).

The product data sheets show our standard model types. The synoptic tables for flanges, shafts and ports show all the possible configurations. For further details about the availability of each configuration please contact jbj Techniques technical office, email: info@bjb.co.uk or telephone: +44 (0)1737 767493

Accessories supplied with the standard motor: woodruff key (code 522055), M12x1.5 hexagonal nut (code 523016), washer (code 523005).

Standard ports: M6 threads depth 13 mm.

G1/4 drain port thread depth 12 mm.



Type	Displacement	Flow at 1500 rev/min	Maximum Pressure			Maximum Speed	Dimensions		
			P _I	P _C	P _P		L	M	D
	cm ³ /rev	litres/mim	bar	bar	bar	rpm	mm	mm	mm
ALM2BK1-R-6-E1	4,5	6,4	250	240	270	4000	39,8	93.5	15
ALM2BK1-R-9-E1	6,4	9,1	250	240	270	4000	41	96.5	15
ALM2BK1-R-10-E1	7	10	250	240	270	4000	47,3	97.5	15
ALM2BK1-R-12-E1	8,3	11,8	250	240	270	4000	48,3	99.5	15
ALM2BK1-R-13-E1	9,6	13,7	250	240	270	4000	43,1	101.5	20
ALM2BK1-R-16-E1	11,5	16,4	230	220	250	4000	47,5	104.5	20
ALM2BK1-R-20-E1	14,1	20,1	230	220	250	4000	47,5	108.5	20
ALM2BK1-R-22-E1	16,0	22,8	210	200	225	4000	47,5	111.5	20
ALM2BK1-R-25-E1	17,9	25,5	210	200	225	4000	55,8	114.5	20
ALM2BK1-R-30-E1	21,1	30,1	180	170	195	3400	47,5	119.5	20
ALM2BK1-R-34-E1	23,7	33,7	180	170	195	3000	55	123.5	20
ALM2BK1-R-37-E1	25,5	36,4	170	160	185	2600	61,8	126.5	20
ALM2BK1-R-40-E1	28,2	40,1	170	160	185	2600	63,8	130.5	20

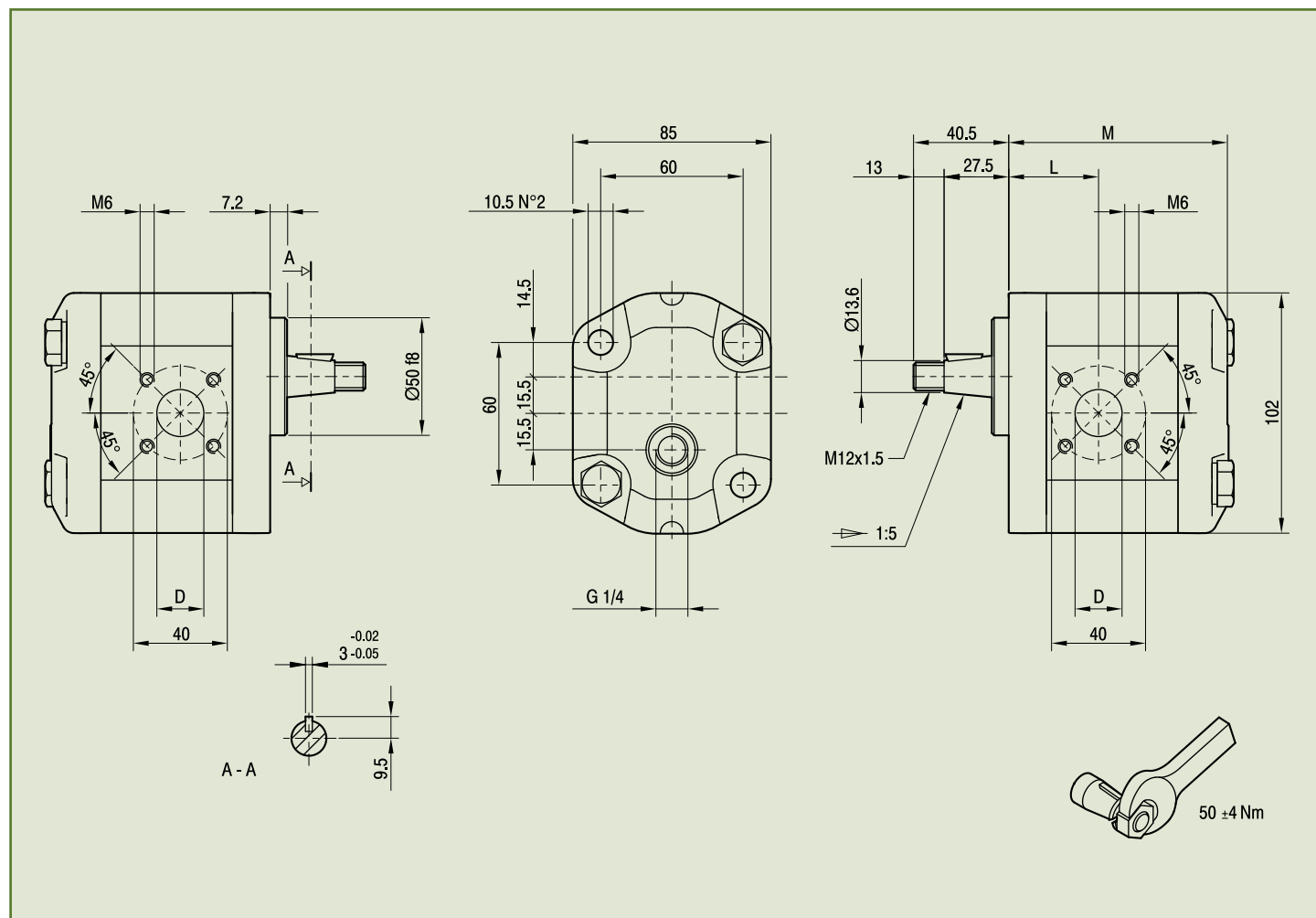


Accessories supplied with the standard motor: woodruff key (code 522055), M12x1.5 hexagonal nut (code 523016), washer (code 523005).

Standard ports: M6 threads depth 13 mm.

To mount the motor: n.2 M10 screws with a torque wrench setting fixed at 46 ± 4 Nm.

G1/4 drain port thread depth 12 mm.



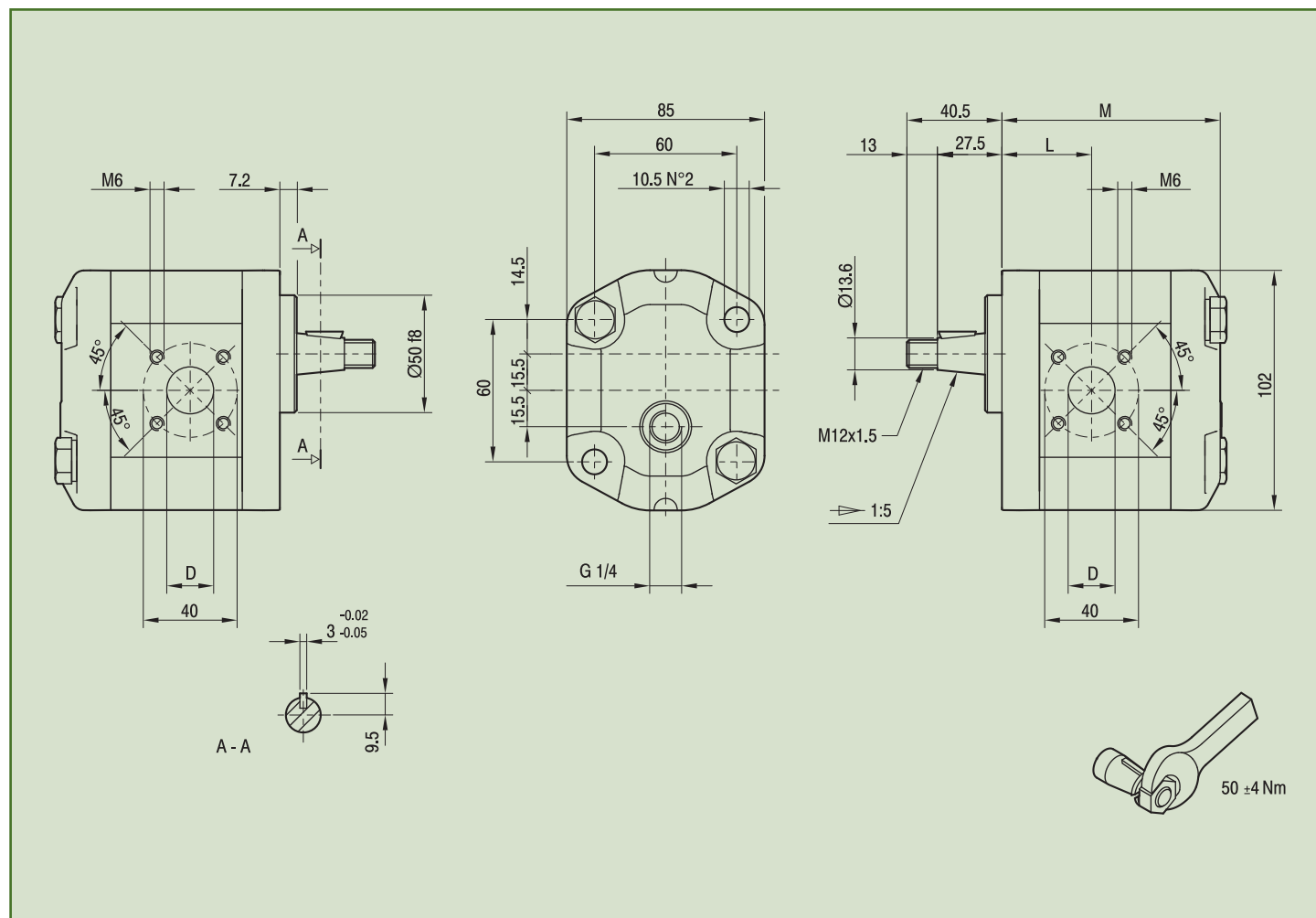
Type	Displacement	Flow at 1500 rev/min	Maximum Pressure			Maximum Speed	Dimensions		
			P _I	P _C	P _P		L	M	D
	cm ³ /rev	litres/min	bar	bar	bar	rpm	mm	mm	mm
ALM2BK2-R-6-E1	4,5	6,4	250	240	270	4000	37	90.5	15
ALM2BK2-R-9-E1	6,4	9,1	250	240	270	4000	38,2	93.5	15
ALM2BK2-R-10-E1	7	10	250	240	270	4000	44,5	94.5	15
ALM2BK2-R-12-E1	8,3	11,8	250	240	270	4000	45,5	96.5	15
ALM2BK2-R-13-E1	9,6	13,7	250	240	270	4000	40,3	98.5	20
ALM2BK2-R-16-E1	11,5	16,4	230	220	250	4000	44,7	101.5	20
ALM2BK2-R-20-E1	14,1	20,1	230	220	250	4000	44,7	105.5	20
ALM2BK2-R-22-E1	16,0	22,8	210	200	225	4000	44,7	108.5	20
ALM2BK2-R-25-E1	17,9	25,5	210	200	225	4000	53	111.5	20
ALM2BK2-R-30-E1	21,1	30,1	180	170	195	3400	44,7	116.5	20
ALM2BK2-R-34-E1	23,7	33,7	180	170	195	3000	52,2	120.5	20
ALM2BK2-R-37-E1	25,5	36,4	170	160	185	2600	59	123.5	20
ALM2BK2-R-40-E1	28,2	40,1	170	160	185	2600	61	127.5	20

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To mount the motor: n.2 M10 screws with a torque wrench setting fixed at 46 ± 4 Nm.

G1/4 drain port thread depth 12 mm.

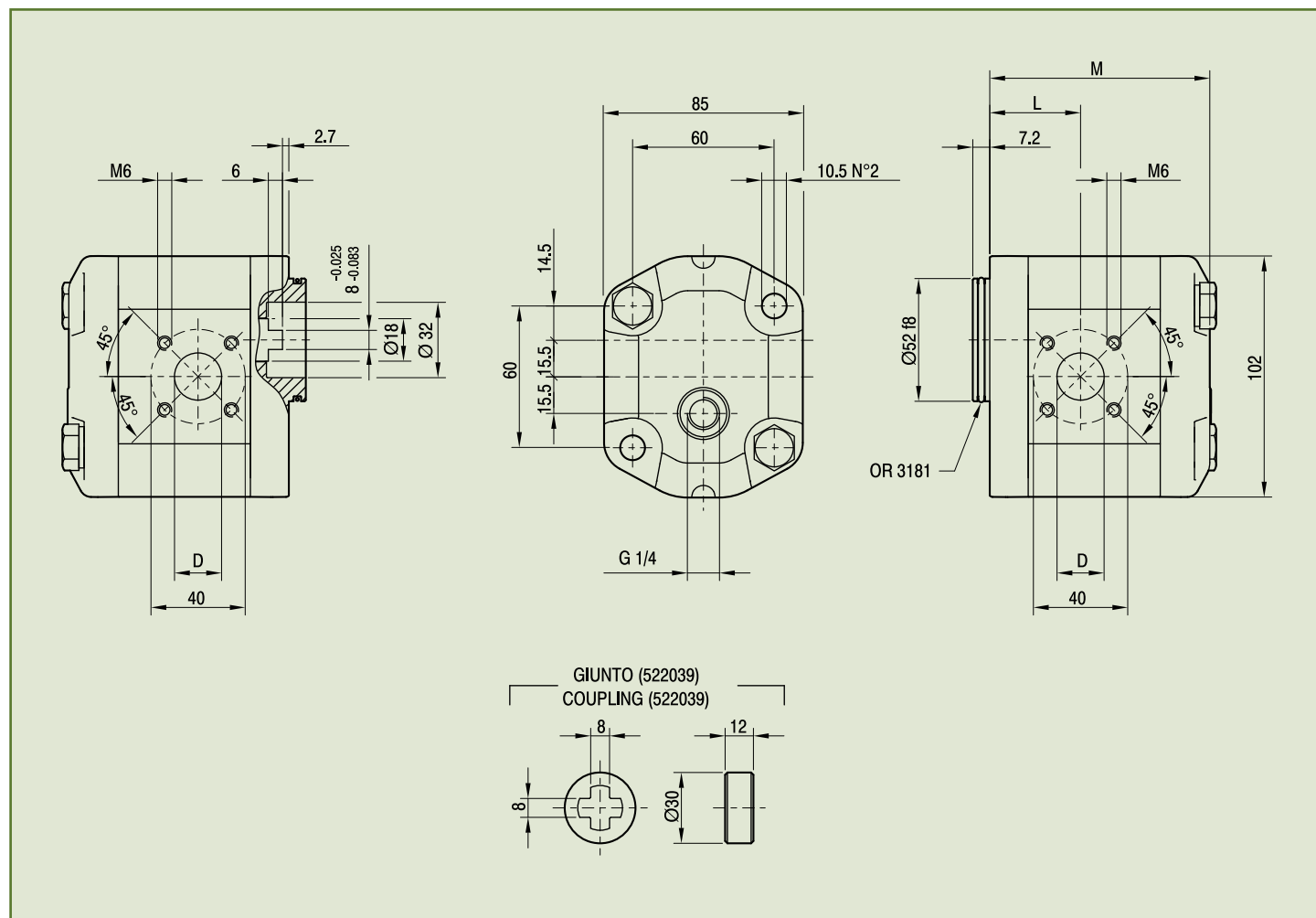


Type	Displacement	Flow at 1500 rev/min	Maximum Pressure			Maximum Speed	Dimensions		
			P _I	P _C	P _P		L	M	D
	cm ³ /rev	litres/min	bar	bar	bar	rpm	mm	mm	mm
ALM2BK4-R-6-E1	4,5	6,4	250	240	270	4000	37	90.5	15
ALM2BK4-R-9-E1	6,4	9,1	250	240	270	4000	38,2	93.5	15
ALM2BK4-R-10-E1	7	10	250	240	270	4000	44,5	94.5	15
ALM2BK4-R-12-E1	8,3	11,8	250	240	270	4000	45,5	99.5	15
ALM2BK4-R-13-E1	9,6	13,7	250	240	270	4000	40,3	98.5	20
ALM2BK4-R-16-E1	11,5	16,4	230	220	250	4000	44,7	101.5	20
ALM2BK4-R-20-E1	14,1	20,1	230	220	250	4000	44,7	105.5	20
ALM2BK4-R-22-E1	16,0	22,8	210	200	225	4000	44,7	108.5	20
ALM2BK4-R-25-E1	17,9	25,5	210	200	225	4000	53	111.5	20
ALM2BK4-R-30-E1	21,1	30,1	180	170	195	3400	44,7	116.5	20
ALM2BK4-R-34-E1	23,7	33,7	180	170	195	3000	52,2	120.5	20
ALM2BK4-R-37-E1	25,5	36,4	170	160	185	2600	59	123.5	20
ALM2BK4-R-40-E1	28,2	40,1	170	160	185	2600	61	127.5	20

Standard ports: M6 threads depth 13 mm.

To mount the motor: n.2 M10 screws with a torque wrench setting fixed at 46 ± 4 Nm.

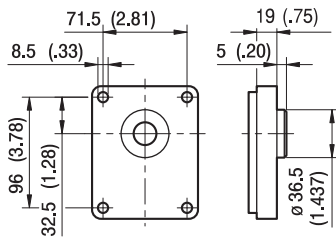
G $\frac{1}{4}$ drain port thread depth 12 mm.



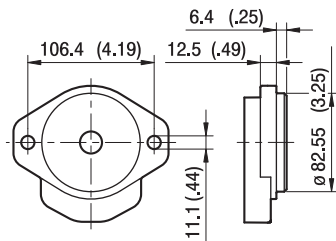
Type	Displacement	Flow at	Maximum Pressure			Maximum	Dimensions		
	cm ³ /rev	1500 rev/min	P _I	P _C	P _P	Speed	L	M	D
	cm ³ /rev	litres/min	bar	bar	bar	rpm	mm	mm	mm
ALM2BK7-R-6-E1	4,5	6,4	250	240	270	4000	37,3	91	15
ALM2BK7-R-9-E1	6,4	9,1	250	240	270	4000	38,5	94	15
ALM2BK7-R-10-E1	7	10	250	240	270	4000	44,8	95	15
ALM2BK7-R-12-E1	8,3	11,8	250	240	270	4000	45,8	97	15
ALM2BK7-R-13-E1	9,6	13,7	250	240	270	4000	40,6	99	20
ALM2BK7-R-16-E1	11,5	16,4	230	220	250	4000	45	102	20
ALM2BK7-R-20-E1	14,1	20,1	230	220	250	4000	45	106	20
ALM2BK7-R-22-E1	16,0	22,8	210	200	225	4000	45	109	20
ALM2BK7-R-25-E1	17,9	25,5	210	200	225	4000	53,5	112	20
ALM2BK7-R-30-E1	21,1	30,1	180	170	195	3400	45	117	20
ALM2BK7-R-34-E1	23,7	33,7	180	170	195	3000	52,5	121	20
ALM2BK7-R-37-E1	25,5	36,4	170	160	185	2600	59,3	124	20
ALM2BK7-R-40-E1	28,2	40,1	170	160	185	2600	61,3	128	20

Flanges

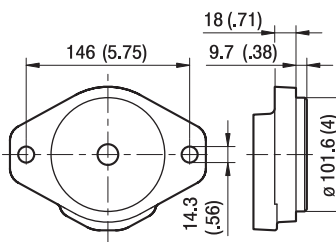
Shafts



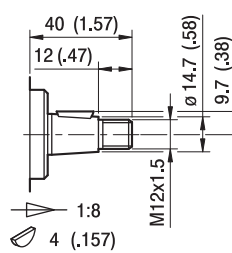
A



A

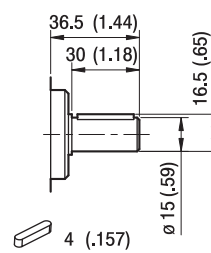


A3



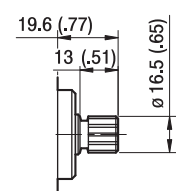
T0

Max Torque 200 Nm



C0

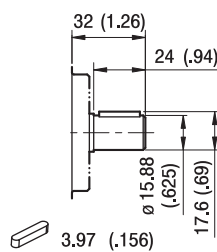
Max Torque 135 Nm



DIN 5482
B17x14

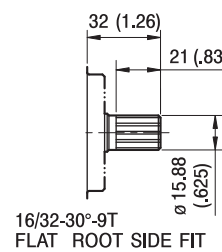
S0

Max Torque 140 Nm



C1

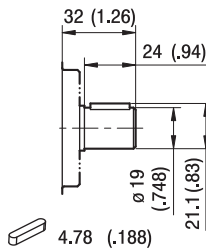
Max Torque 140 Nm



16/32-30°-9T
FLAT ROOT SIDE FIT

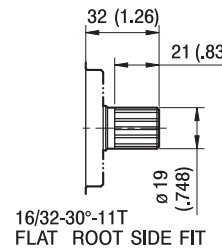
S1

Max Torque 185 Nm



C2

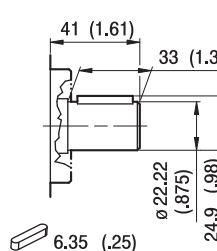
Max Torque 160 Nm



16/32-30°-11T
FLAT ROOT SIDE FIT

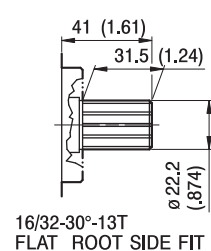
S2

Max Torque 200 Nm



C3

Max Torque 140 Nm



16/32-30°-13T
FLAT ROOT SIDE FIT

S5

Max Torque 140 Nm

Allow close coupling of hydraulic pumps / motors directly to the flywheel / flywheel housing of diesel engines, electric and hydraulic motors.

www.jbj.co.uk/hydraulic-adaptors.html

The package consists of a bellhousing and flexible drive coupling that are fully machined to suit the pump and any driving interface; diesel or petrol engine, electric or hydraulic motor.

jbj's in-house design team and manufacturing facility provide tailored solutions for your applications at competitive prices with quick delivery.

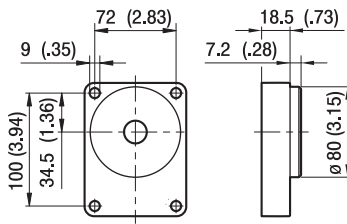
A range of composite bell housings to accommodate electric motor flanges from 300 mm diameter to 800 mm diameter. See pages 40 to 44 of the Pump Drive Components technical specification catalogue.

A collection of different ways of connecting hydraulic pumps and motors to various driver devices.

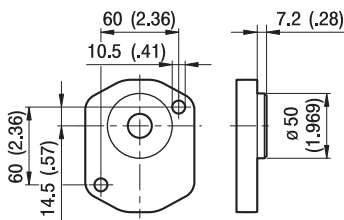


Flanges

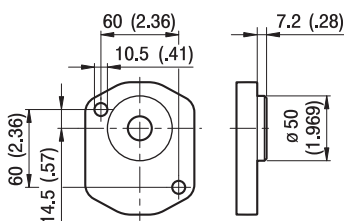
Shafts



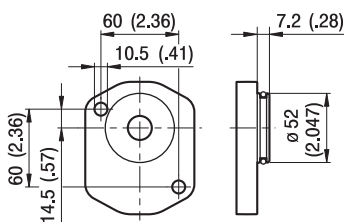
BK1



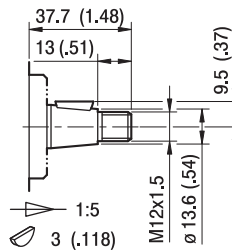
BK2



BK4

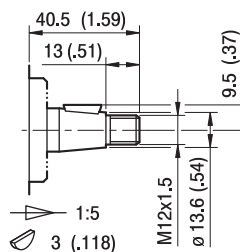


BK7



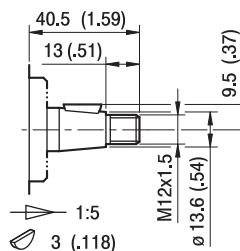
T1

Max Torque 180 Nm



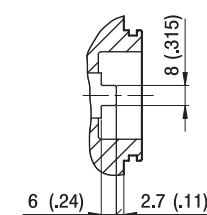
T2

Max Torque 180 Nm



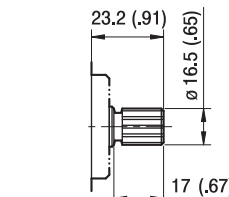
T2

Max Torque 180 Nm



G0

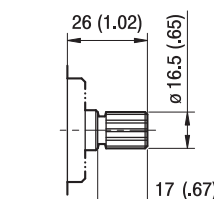
Max Torque 100 Nm



DIN 5482
B17x14

S3

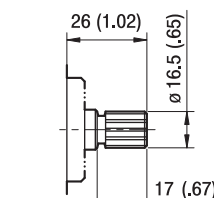
Max Torque 140 Nm



DIN 5482
B17x14

S4

Max Torque 140 Nm



DIN 5482
B17x14

S4

Max Torque 140 Nm

Allow close coupling of hydraulic pumps / motors directly to the flywheel / flywheel housing of diesel engines, electric and hydraulic motors.

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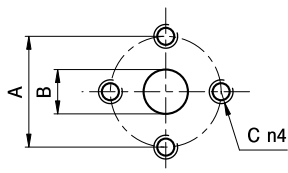
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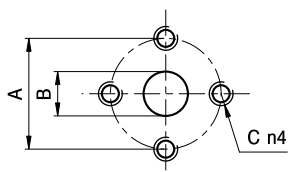
Ports



E

	Bi-directional Motor			Mono-directional motor		
Type	Output -Input			Input		
	A	B	C	A	B	C
ALM2...6 to ALM2...9	30	13	M6	30	13	M6
ALM2...10 to ALM2...13	40	13	M8	40	13	M8
ALM2...16 to ALM2...25	40	19	M8	40	13	M8
ALM2...30 to GALM2...40	40	19	M8	40	19	M8

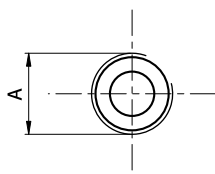
Tightening torques of the fittings screws are specified on page 52 (accessories section).



EP

	Bi-directional Motor			Mono-directional motor		
Type	Output -Input			Input		
	A	B	C	A	B	C
ALM2...6	40	13	M8	30	13	M6
ALM2...10 to ALM2...13	30	13	M6	30	13	M6
ALM2...16 to ALM2...40	40	19	M8	30	13	M6

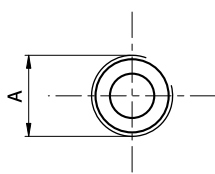
Tightening torques of the fittings screws are specified on page 52 (accessories section).



FG

	Bi-directional Motor		Mono-directional motor	
Type	Output -Input		Input	
	A		A	
ALM2...6 to ALM2...16	G½		G½	
ALM2...20 to ALM2...40	G¾		G½	

Tightening torques for G½ fitting: 50 Nm. Tightening torques for G¾ fitting: 60 Nm. Please check with the fittings suppliers.



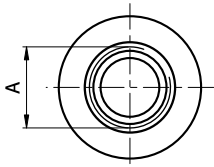
FC

	Bi-directional Motor		Mono-directional motor	
Type	Output -Input		Input	
	A		A	
ALM2...6 to ALM2...16	Rc½		Rc½	
ALM2...20 to ALM2...40	Rc¾		Rc½	

Tightening torques for Rc½ fitting: 50 Nm. Tightening torques for Rc¾ fitting: 60 Nm. Please check with the fittings suppliers.



Ports

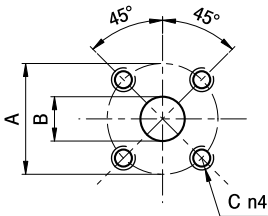


STANDARD SAE J1926/1

FA

	Bi-directional Motor	Mono-directional motor
Type	Output -Input	Input
	A	A
ALM2...6 to ALM2...40	1 1⁄16-12 UNF	7⁄8-14 UNF

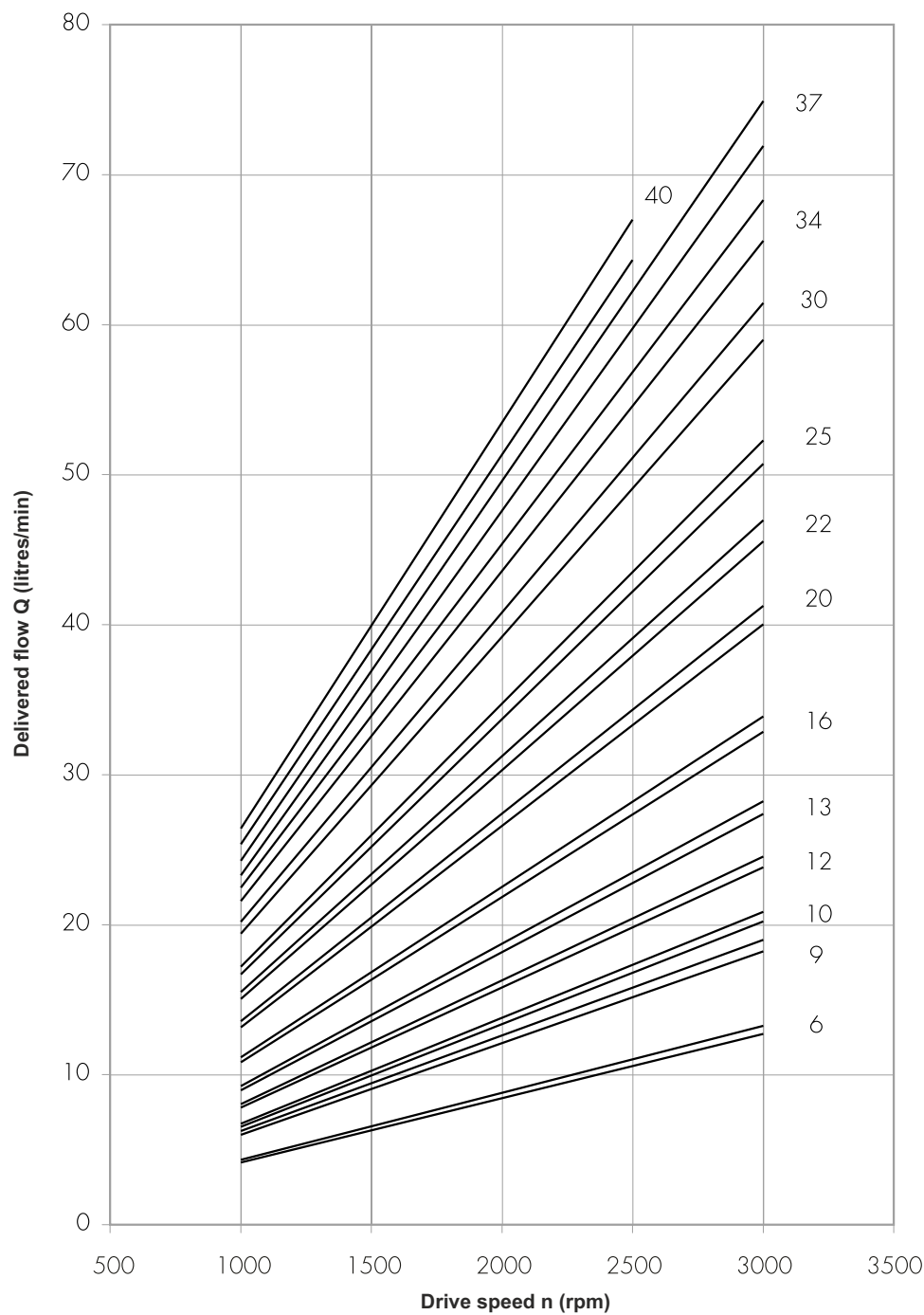
Tightening torques for 7⁄8-14 UNF fitting: 70 Nm. Tightening torques for 1 1⁄16-12 UNF fitting: 70 Nm. Please check with the fittings suppliers.



D

	Bi-directional Motor			Mono-directional motor		
Type	Output -Input			Input		
	A	B	C	A	B	C
ALM2...6 to ALM2...12	40	15	M6	35	15	M6
ALM2...13 to ALM2...40	40	20	M6	35	15	M6

Tightening torques of the fittings screws are specified on page 52 (accessories section).



Each curve has been obtained at 50°C, using oil with viscosity 30 cSt at these pressure.

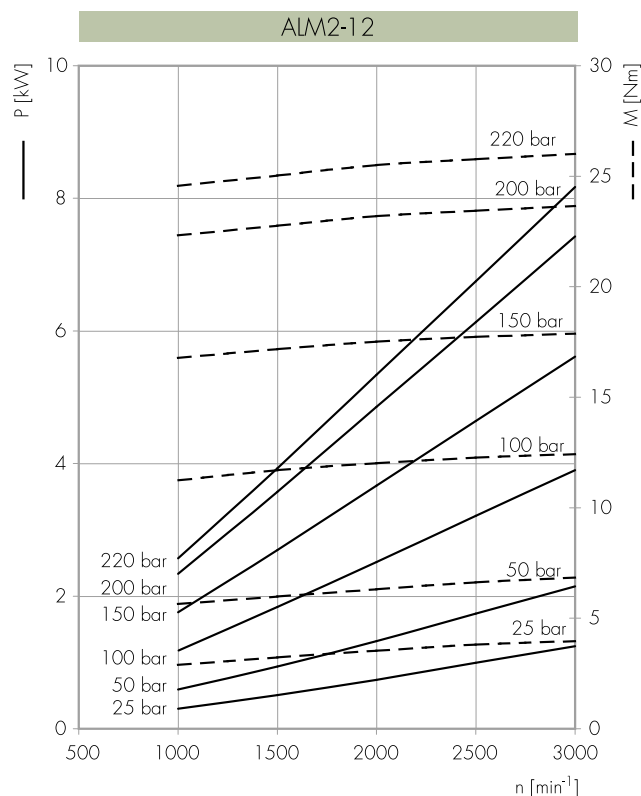
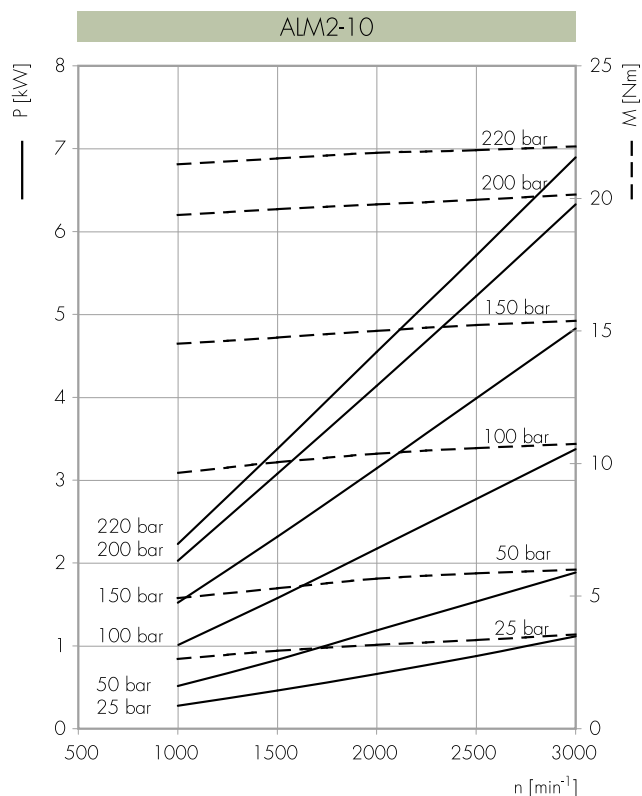
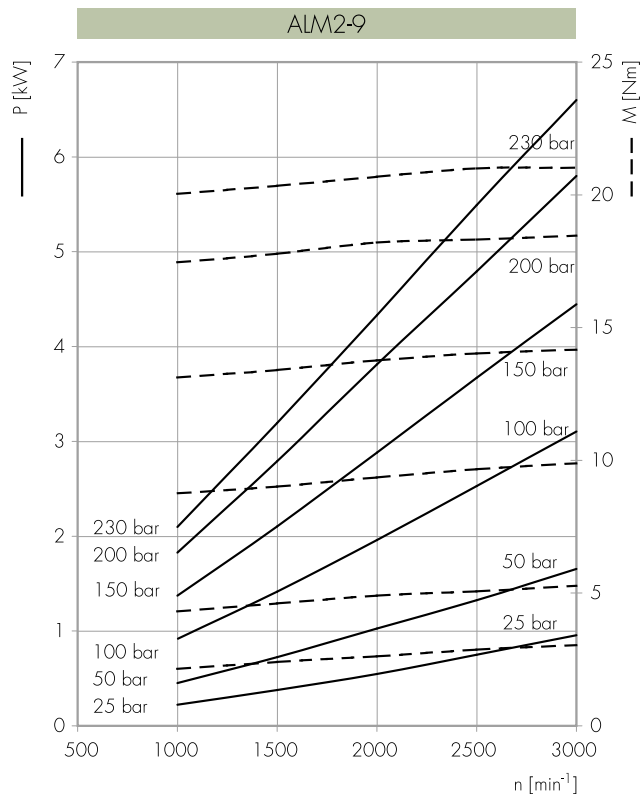
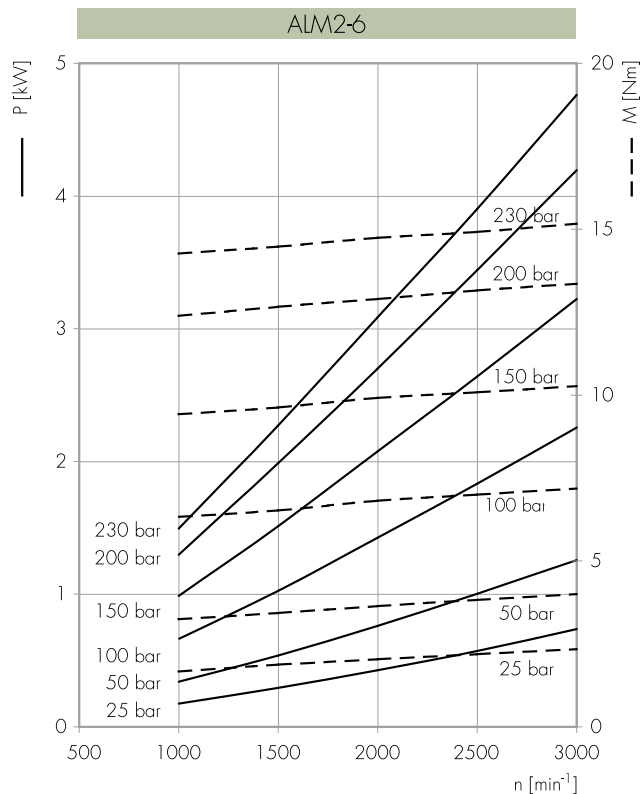
6 |
9 | 25-250 bar
10 |
12 |
13 | 25-240 bar
16 |

20 | 25-220 bar
22 |
25 | 25-210 bar
30 | 25-190 bar

34 | 25-170 bar
37 |
40 | 25-160 bar

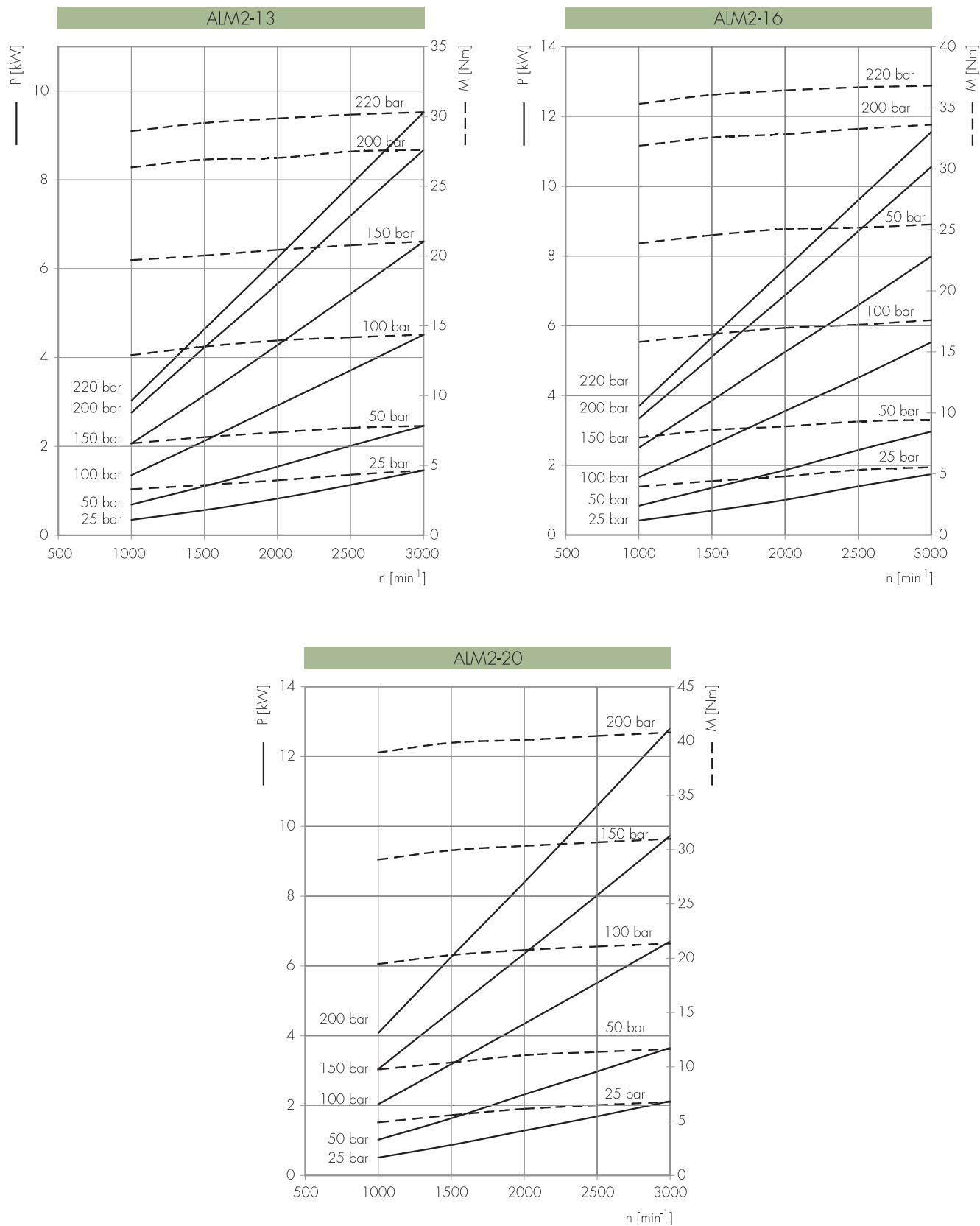


Delivered power P [kW]. Delivered torque M [Nm]. Drive speed n [giri/min] [rpm]

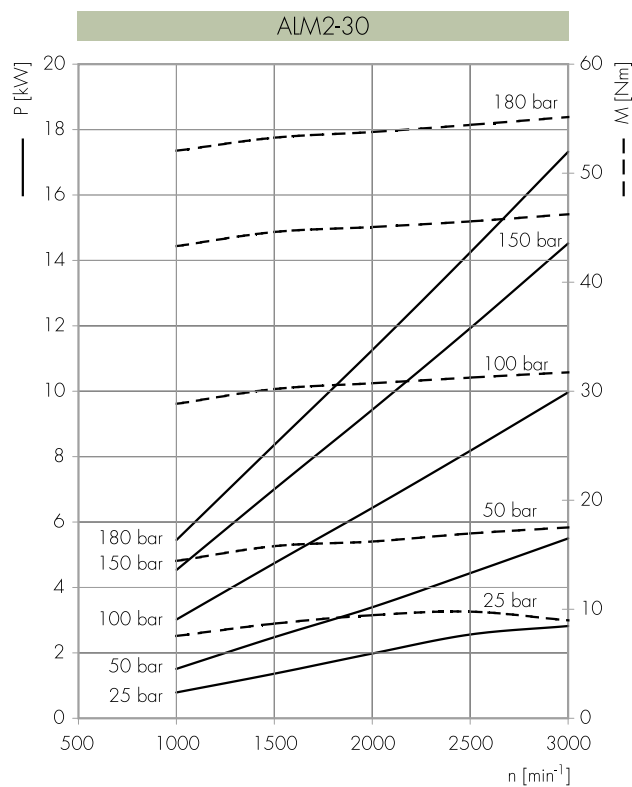
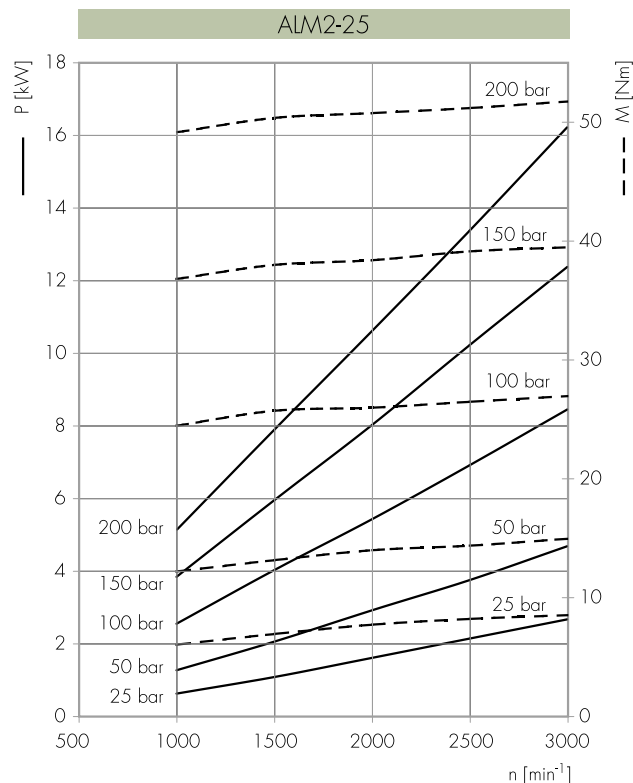
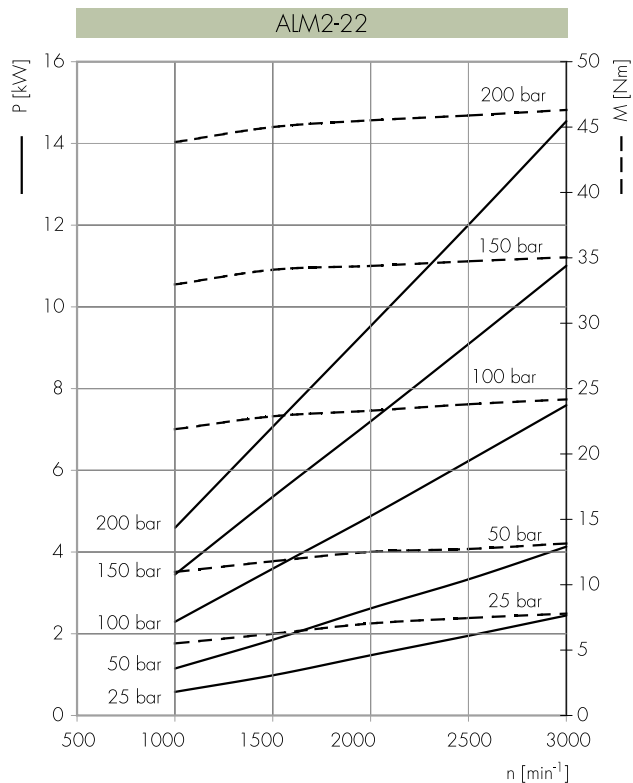




Delivered power P [kW]. Delivered torque M [Nm]. Drive speed n [giri/min] [rpm]

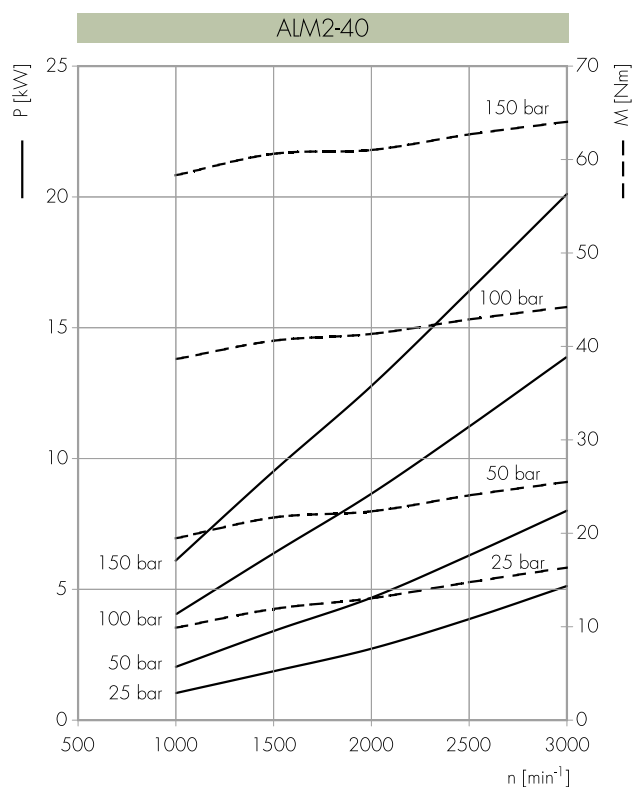
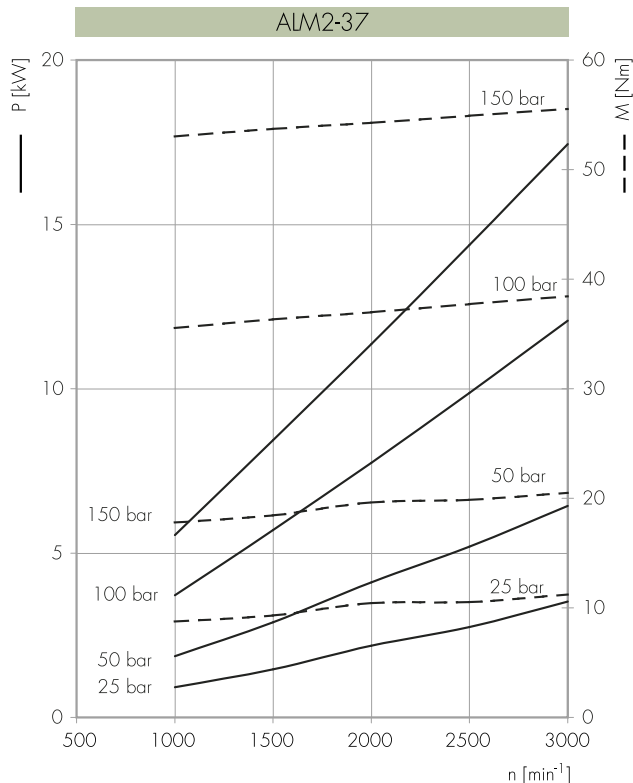
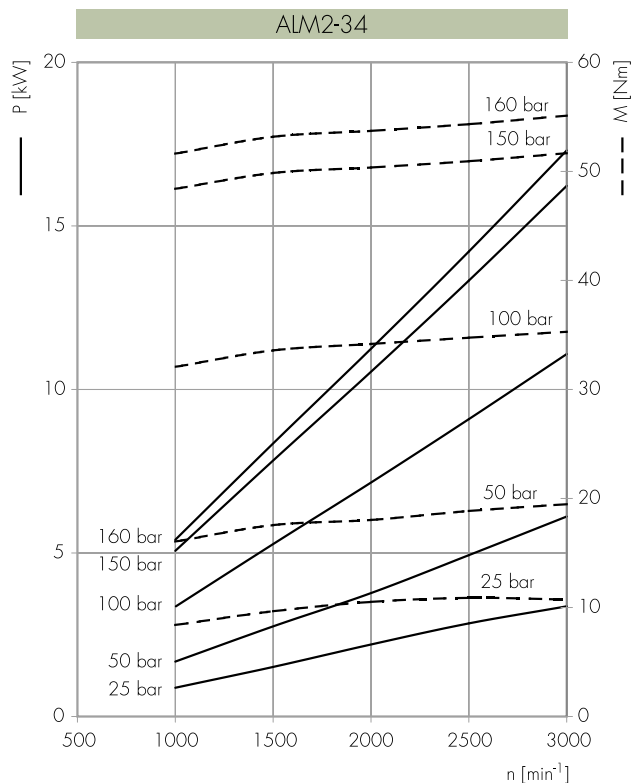


Delivered power P [kW]. Delivered torque M [Nm]. Drive speed n [giri/min] [rpm]





Delivered power P [kW]. Delivered torque M [Nm]. Drive speed n [giri/min] [rpm]





Ordering Code

GHM3	Type	Rotation	Size	Shaft*	Ports*	Seals*	Options*	Drain**
	omit	D Clockwise	...					
	A	S Counter Clockwise	33					
		R Reversible	40					
			50					
			60					
			66					
			80					
			94					
			110					
			120					
			135					

Seals

omit (T range = -10°C + 80°C)

V

...

Options

...

Drain

E0 = internal drain

E1 = external drain G3/8

E2 = drain 3/4-16 UNF ***

E3 = drain G1/4

E4 = drain 9/16-18 UNF ***

(*) = to be specified if different from standard "motor type"

(**) = only for R rotation

(***) = Drain ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO 11926-1).

Motor Standard Types

omit = European flange + shaft T0 + ports E + standard seals

A = flange A + shaft C1 + ports A + standard seals

Examples

ALM3-D-30 = clockwise rotation, 20 cc/rev, European flange, 1:8 tapered shaft, flanged ports E type, standard seals.

ALM3-D-30-C0 = clockwise rotation, 20 cc/rev, European flange, cylindrical shaft (C0), flanged ports E type, standard seals.

ALM3A-D-30-E = clockwise rotation, 20 cc/rev, SAE B 2 bolt flange, cylindrical shaft, European flanged ports (E), standard seals.

ALM3A-R-40-E1 = reversible motor, 26 cc/rev, SAE B 2 bolt flange, cylindrical shaft, European flanged ports A, standard seals, external drain (E1).

The product data sheets show our standard model types. The synoptic tables for flanges, shafts and ports show all the possible configurations. For further details about the availability of each configuration please contact jbj Techniques technical office, email: info@jbj.co.uk or telephone: +44 (0)1737 767493