

ALP3 Series

Gear Pumps



DIMENSIONAL DETAILS

TYPE	DISPLACEMENT CM ³ /REV	FLOW AT 1500 REV/MIN	MAX. WORKING PRESSURE			MAX. SPEED RPM
			P1	P2	P3	
ALP3D30	20	29	230	250	270	3500
ALP3D33	22	31	230	250	270	3500
ALP3D40	26	37	230	250	270	3000
ALP3D50	33	48	230	250	270	3000
ALP3D60	39	56	220	240	260	3000
ALP3D66	44	62	210	230	250	2800
ALP3D80	52	74	200	215	230	2400
ALP3D94	61	87	190	205	220	2800
ALP3D110	71	101	170	185	200	2500
ALP3D120	78	112	160	175	190	2300
ALP3D135	87	124	140	155	170	2000

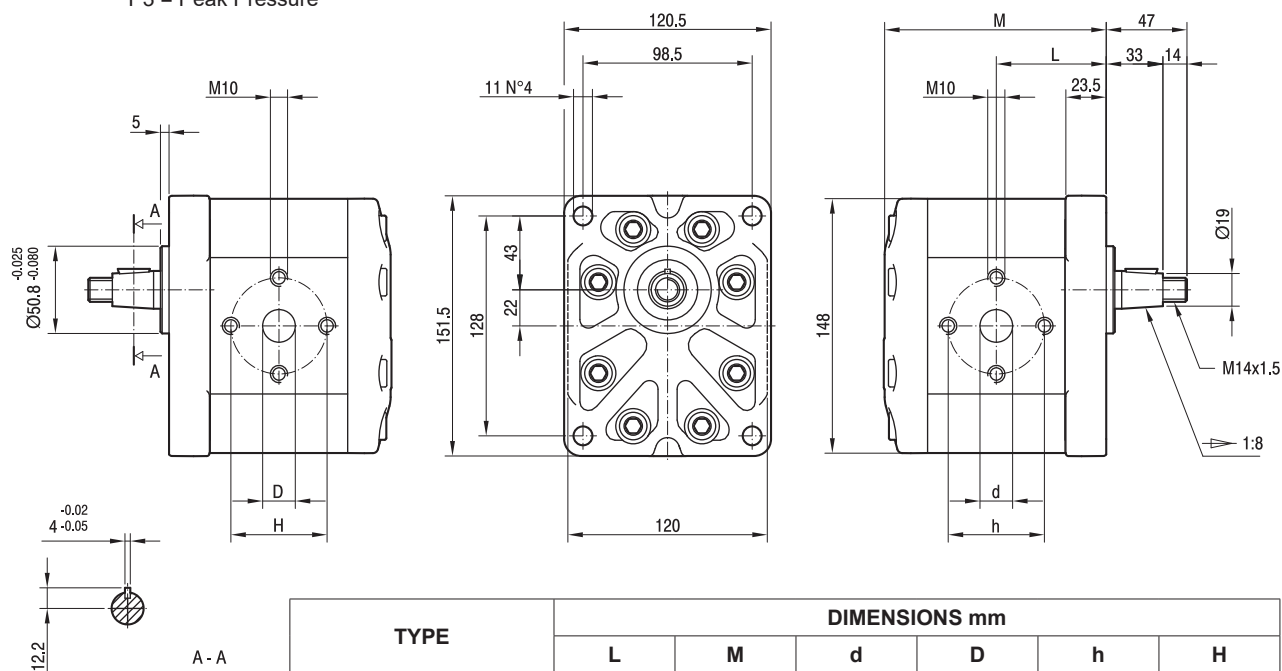
P1 = Continuous Operating Pressure

P2 = Intermittent Operating Pressure

P3 = Peak Pressure

OUTLET

INLET



TYPE	DIMENSIONS mm					
	L	M	d	D	h	H
ALP3D30	64	129.5	27	19	56	56
ALP3D33	64.5	130.5	27	19	56	56
ALP3D40	66	133.5	27	19	56	56
ALP3D50	68.5	138.5	27	19	56	56
ALP3D60	70.5	142.5	27	19	56	56
ALP3D66	72	145.5	27	27	51	51
ALP3D80	75	151.5	27	27	56	56
ALP3D94	78	157.5	33	27	62	51
ALP3D110	81.5	164.5	33	27	62	51
ALP3D120	84	169.5	33	27	62	51
ALP3D135	87	175.5	33	27	62	51

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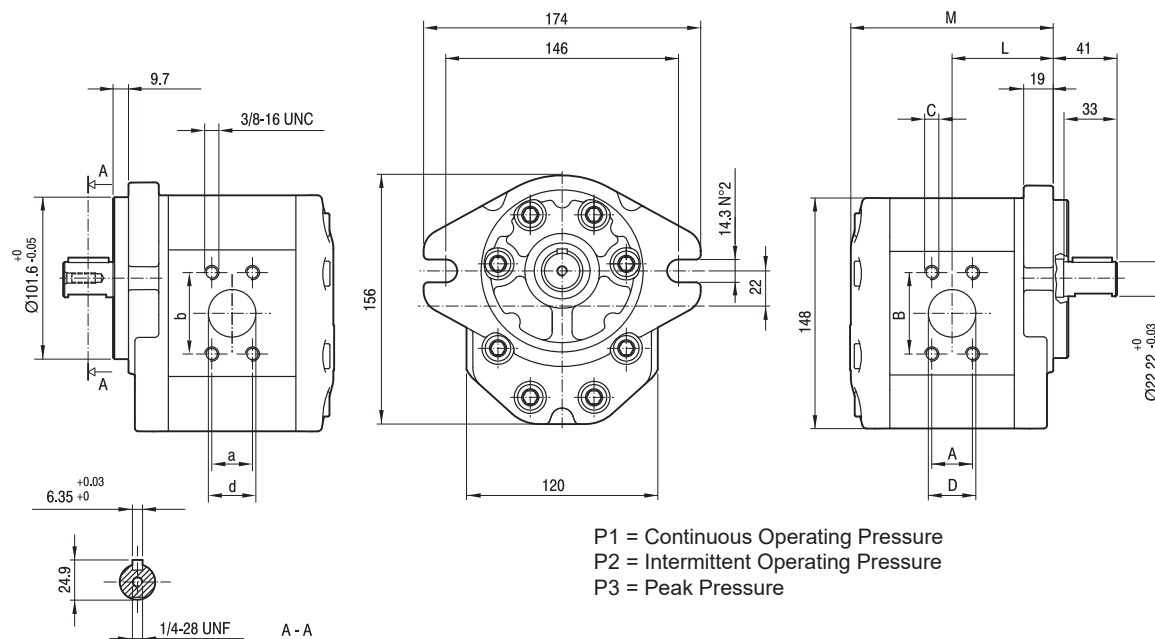


DIMENSIONAL DETAILS

TYPE	DISPLACEMENT CM ³ /REV	FLOW AT 1500 REV/MIN	MAX. WORKING PRESSURE			MAX. SPEED RPM
			P1	P2	P3	
ALP3AD30	20	29	230	250	270	3500
ALP3AD33	22	31	230	250	270	3500
ALP3AD40	26	37	230	250	270	3000
ALP3AD50	33	48	230	250	270	3000
ALP3AD60	39	56	220	240	260	3000
ALP3AD66	44	62	210	230	250	2800
ALP3AD80	52	74	200	215	230	2400
ALP3AD94	61	87	190	205	220	2800
ALP3AD110	71	101	170	185	200	2500
ALP3AD120	78	112	160	175	190	2300
ALP3AD135	87	124	140	155	170	2000

OUTLET

INLET



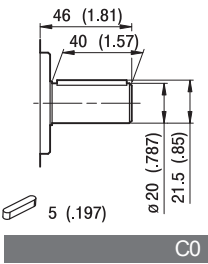
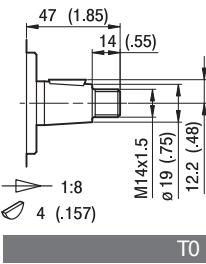
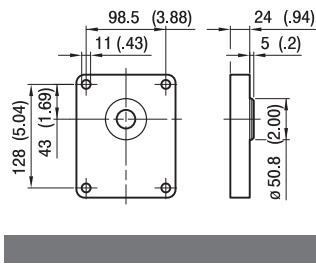
TYPE	DIMENSIONS mm						a	b	d
	L	M	A	B	*C UNC	D			
ALP3AD30	65	130.5	26.19	52.37	3/8	27	22.23	47.63	19
ALP3AD33	65.5	131.5	26.19	52.37	3/8	27	22.23	47.63	19
ALP3AD40	67	134.5	26.19	52.37	3/8	27	22.23	47.63	19
ALP3AD50	69.5	139.5	26.19	52.37	3/8	27	22.23	47.63	19
ALP3AD60	71.5	143.5	26.19	52.37	3/8	27	22.23	47.63	19
ALP3AD66	73	146.5	26.19	52.37	3/8	27	22.23	47.63	19
ALP3AD80	76	152.5	26.19	52.37	3/8	27	22.23	47.63	19
ALP3AD94	79	158.5	30.2	58.7	7/16	33	26.19	52.37	27
ALP3AD110	82.5	165.5	30.2	58.7	7/16	33	26.19	52.37	27
ALP3AD120	85	170.5	30.2	58.7	7/16	33	26.19	52.37	27
ALP3AD135	88	176.5	30.2	58.7	7/16	33	26.19	52.37	27



FLANGE & SHAFT DETAILS

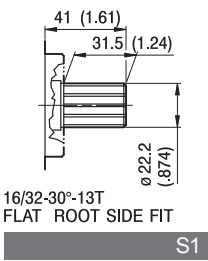
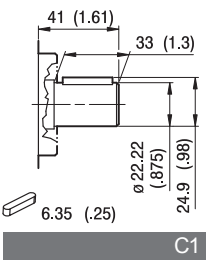
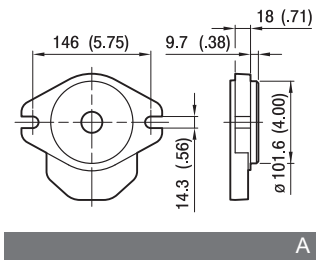
FLANGES

SHAFTS



Max Torque 300 Nm

Max Torque 350 Nm

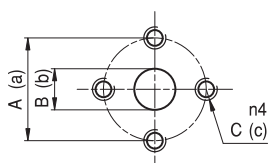


Max Torque 450 Nm

Max Torque 600 Nm

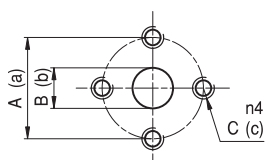
PORT DETAILS

PORTS



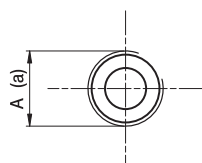
E

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
ALP3...30 ÷ ALP3...60	56	27	M10	56	19	M10
ALP3...66	51	27	M10	51	27	M10
ALP3...80	56	27	M10	56	27	M10
ALP3...94 ÷ ALP3...135	62	33	M10	51	27	M10



EP

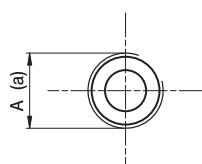
TYPE	INLET			OUTLET		
	A	B	C	a	b	c
ALP3 ... 30 ÷ ALP3 ... 33	40	19	M8	40	19	M8
ALP3 ... 40 ÷ ALP3 ... 80	51	27	M10	40	19	M8



FG

TYPE	INLET	OUTLET
	A	a
ALP3...30 ÷ ALP3...33	G3/4	G3/4
ALP3...40 ÷ ALP3...60	G1	G3/4
ALP3...66 ÷ ALP3...94	G1 1/4	G1
ALP3...110 ÷ ALP3...135	G1 1/2	G1 1/4

Tightening torques for G3/4 fitting: 60 Nm. Tightening torques for G1 fitting: 70 Nm. Tightening torques for G1 1/4 fitting: 80 Nm. Tightening torques for G1 1/2 fitting: 90 Nm. Please check with the fittings suppliers.



FC

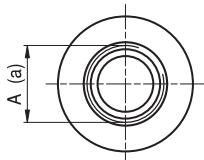
TYPE	INLET	OUTLET
	A	a
ALP3...30 ÷ ALP3...33	Rc3/4	Rc3/4
ALP3...40 ÷ ALP3...60	Rc1	Rc3/4
ALP3...66 ÷ ALP3...94	Rc1 1/4	Rc1
ALP3...110 ÷ ALP3...135	Rc1 1/2	Rc1 1/4

Tightening torques for Rc3/4 fitting: 60 Nm. Tightening torques for Rc1 fitting: 70 Nm. Tightening torques for Rc1 1/4 fitting: 80 Nm. Tightening torques for Rc1 1/2 fitting: 90 Nm. Please check with the fittings suppliers.



PORT DETAILS

PORTS

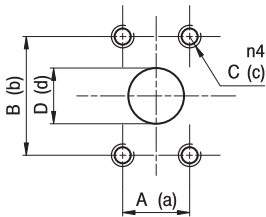


STANDARD SAE J1926/1

FA

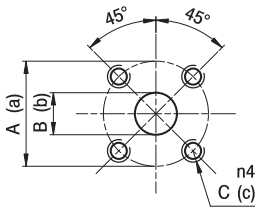
TYPE	INLET	OUTLET
	A	a
ALP3...30 ÷ ALP3...50	1 5/16-12 UNF	1 1/16-12 UNF
ALP3...60 ÷ ALP3...80	1 5/8-12 UNF	1 1/16-12 UNF
ALP3...94 ÷ ALP3...135	1 7/8-12 UNF	1 5/16-12 UNF

Tightening torques for 1 1/16-12 UNF fitting: 70 Nm. Tightening torques for 1 5/16-12 UNF fitting: 80 Nm. Tightening torques for 1 5/8-12 UNF fitting: 80 Nm. Tightening torques for 1 7/8-12 UNF fitting: 80 Nm. Please check with the fittings suppliers.



A

TYPE	INLET				OUTLET			
	A	B	C	D	a	b	c	d
ALP3...30 ÷ ALP3...80	26,19	52,37	3/8-16 UNC	27	22,23	47,63	3/8-16 UNC	19
ALP3...94 ÷ ALP3...135	30,2	58,7	7/16-14 UNC	33	26,19	52,37	3/8-16 UNC	27

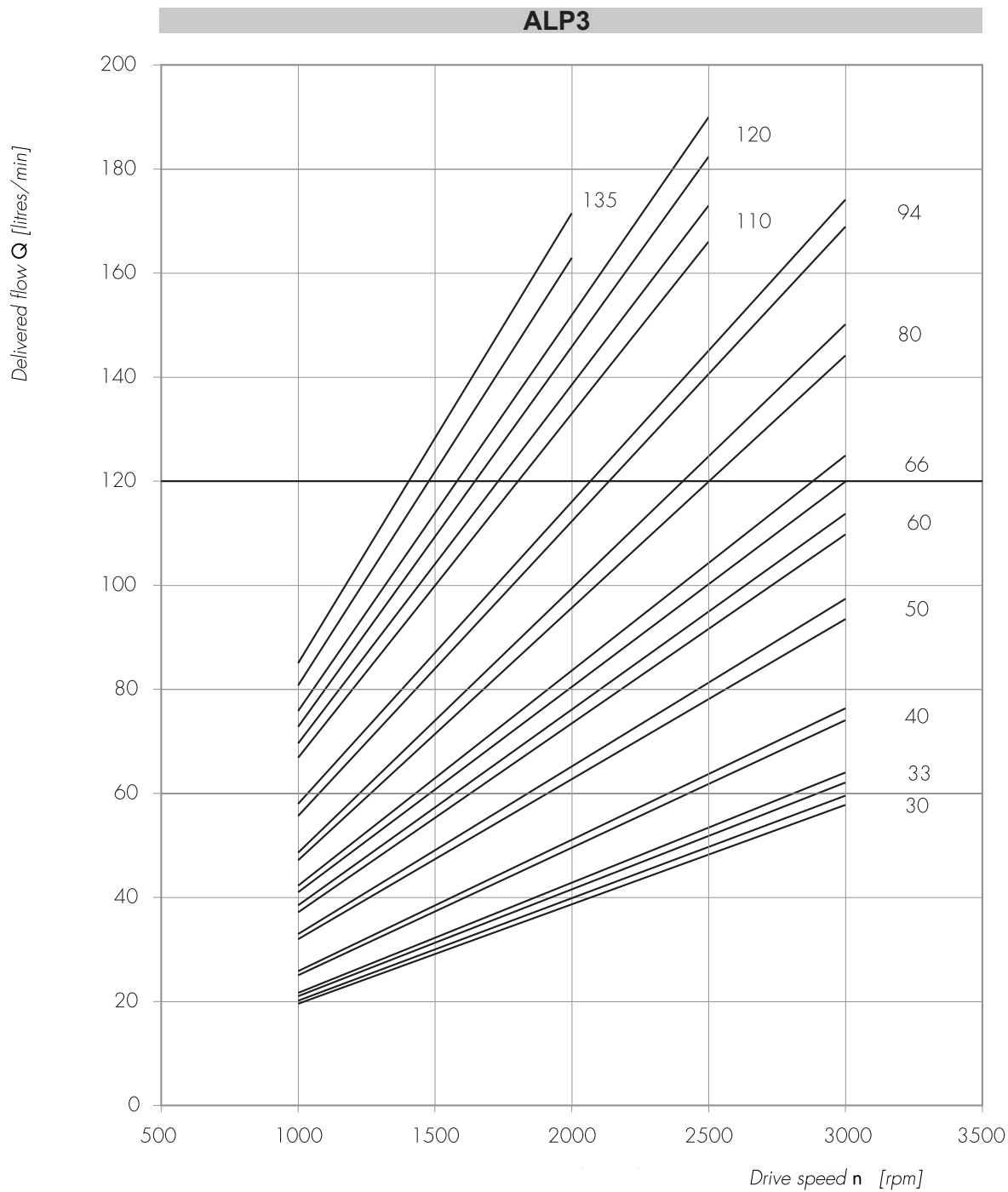


D

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
ALP3...30 ÷ ALP3...80	55	27	M8	55	19	M8



ALP3 PERFORMANCE CURVES



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

80 — 25-220 bar

110 — 25-180 bar

94 — 25-200 bar

120 — 25-170 bar

135 — 25-150 bar

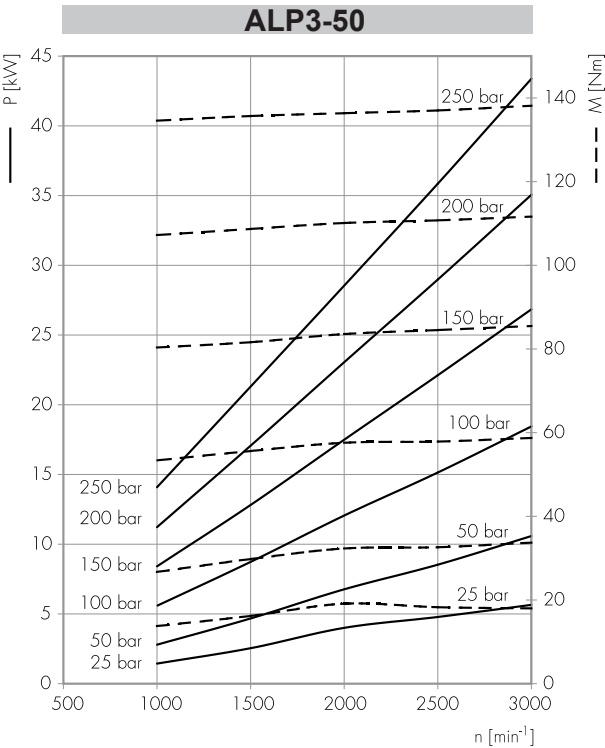
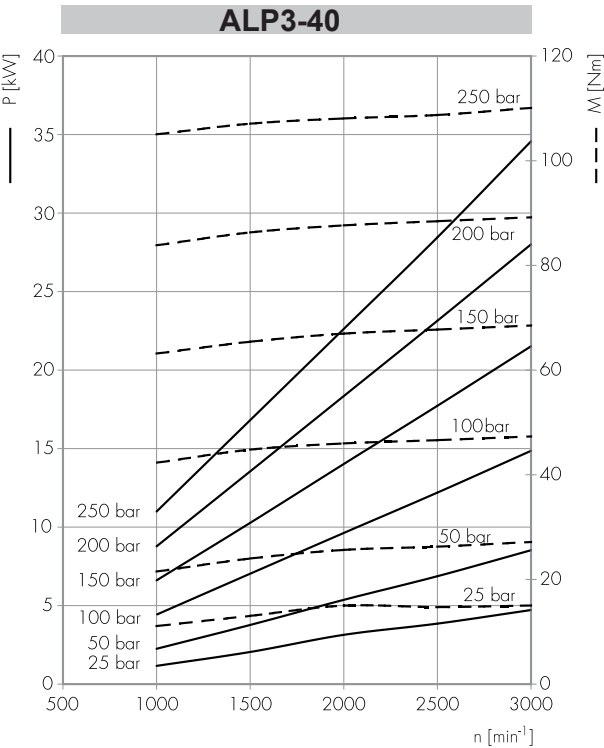
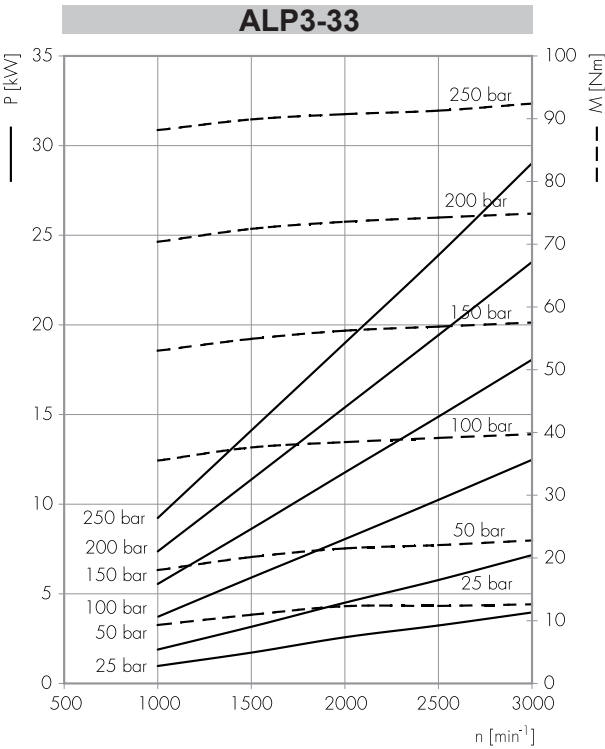
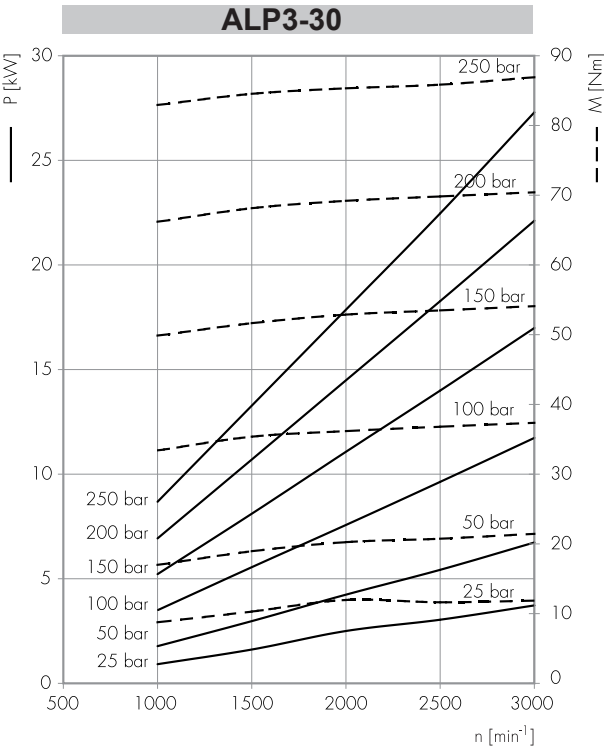
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Gear Pumps



TYPICAL PERFORMANCE DATA

Absorbed power P [kW]
Absorbed torque M [Nm]
Drive speed n [rpm]



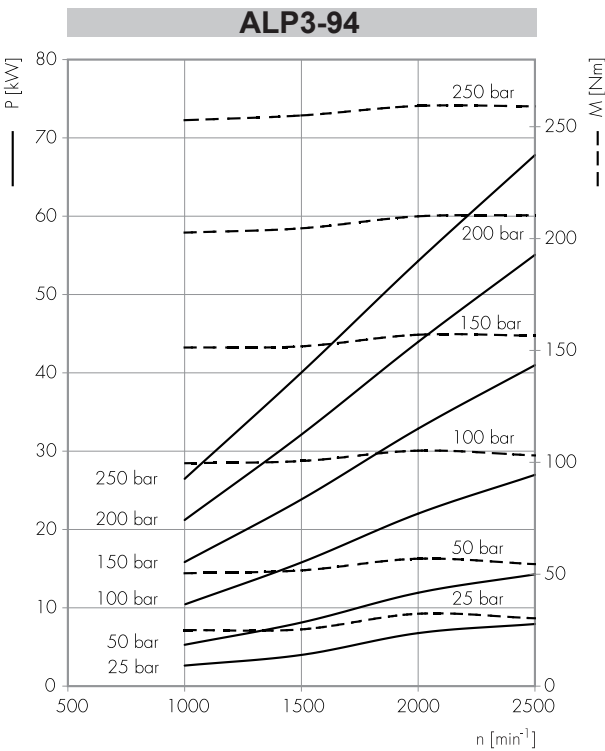
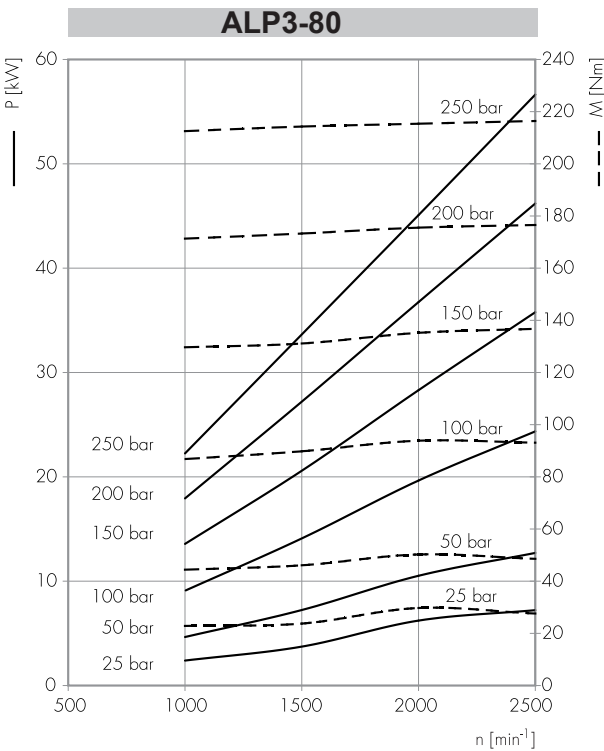
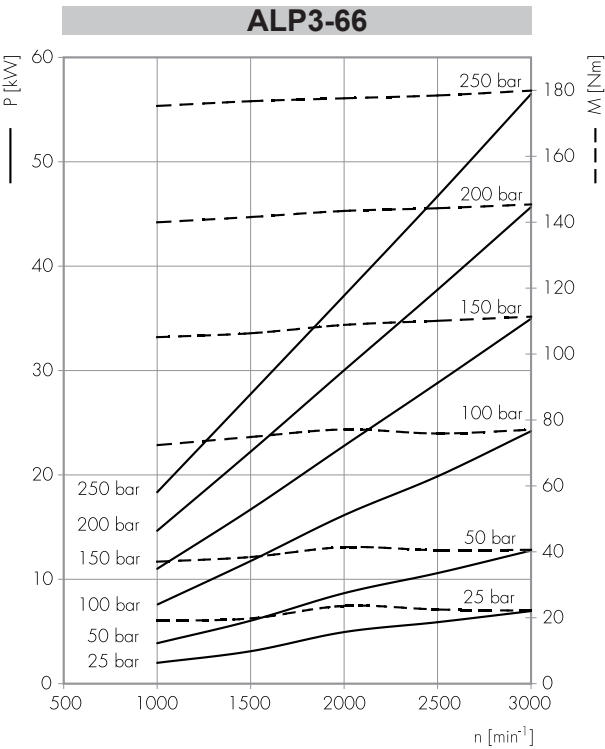
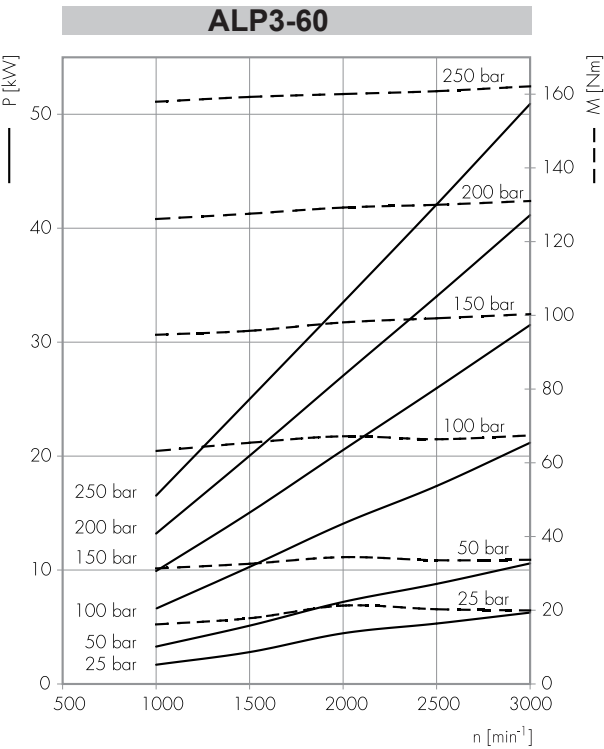
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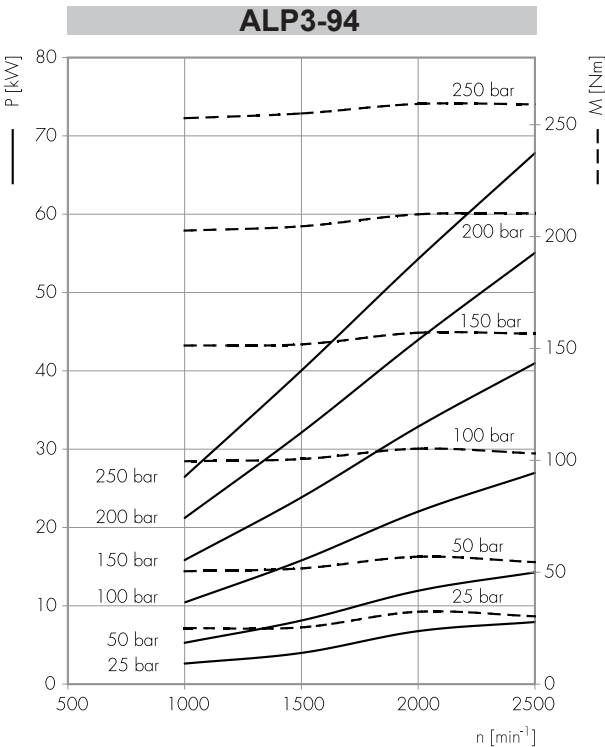
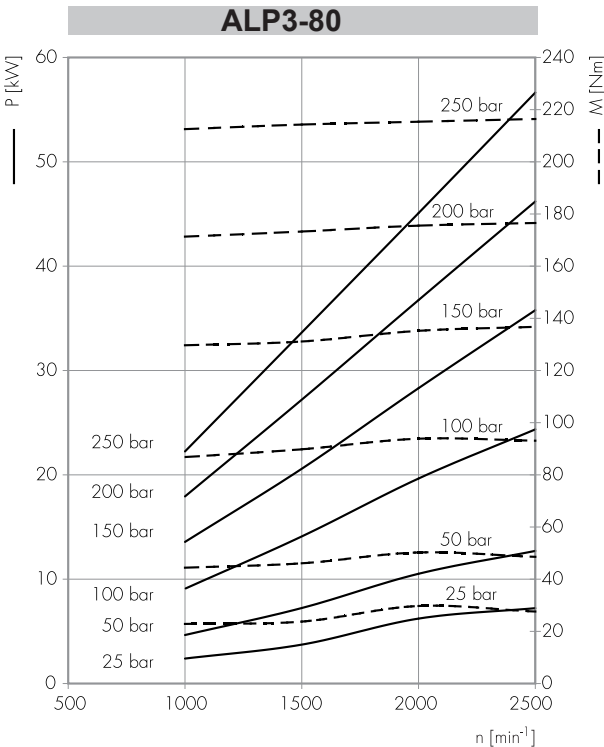
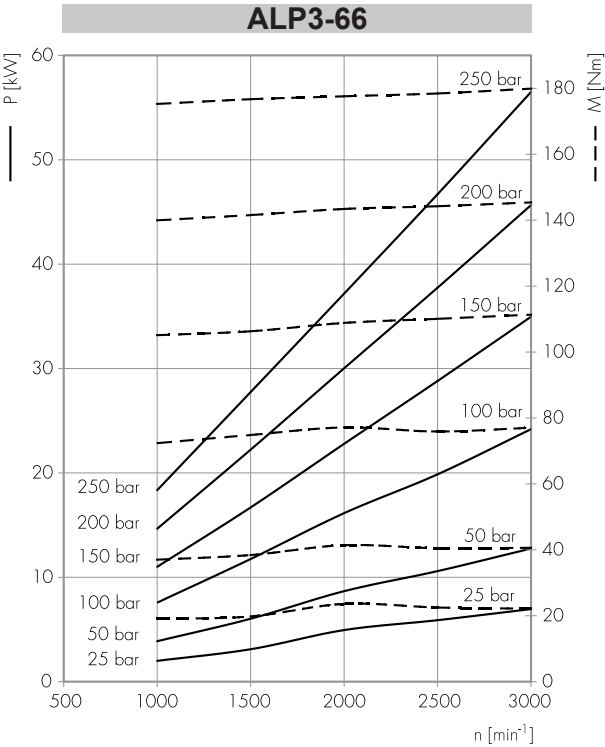
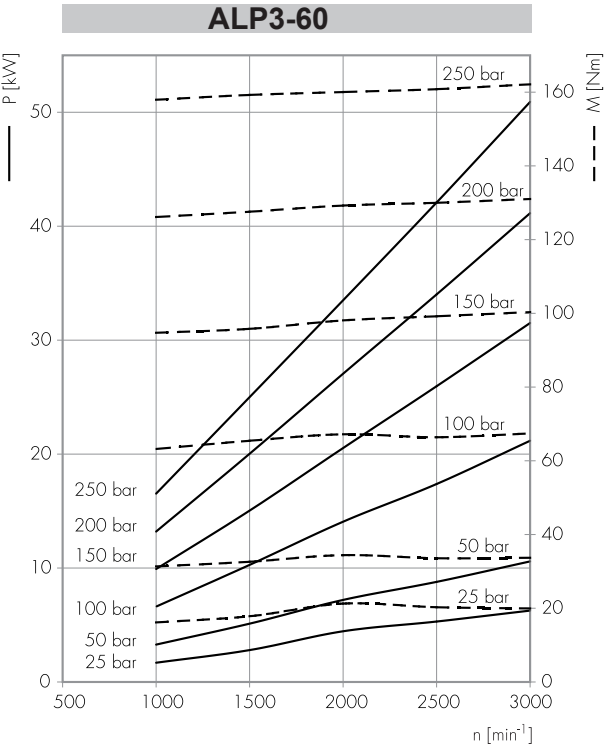
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Drive speed n [rpm]



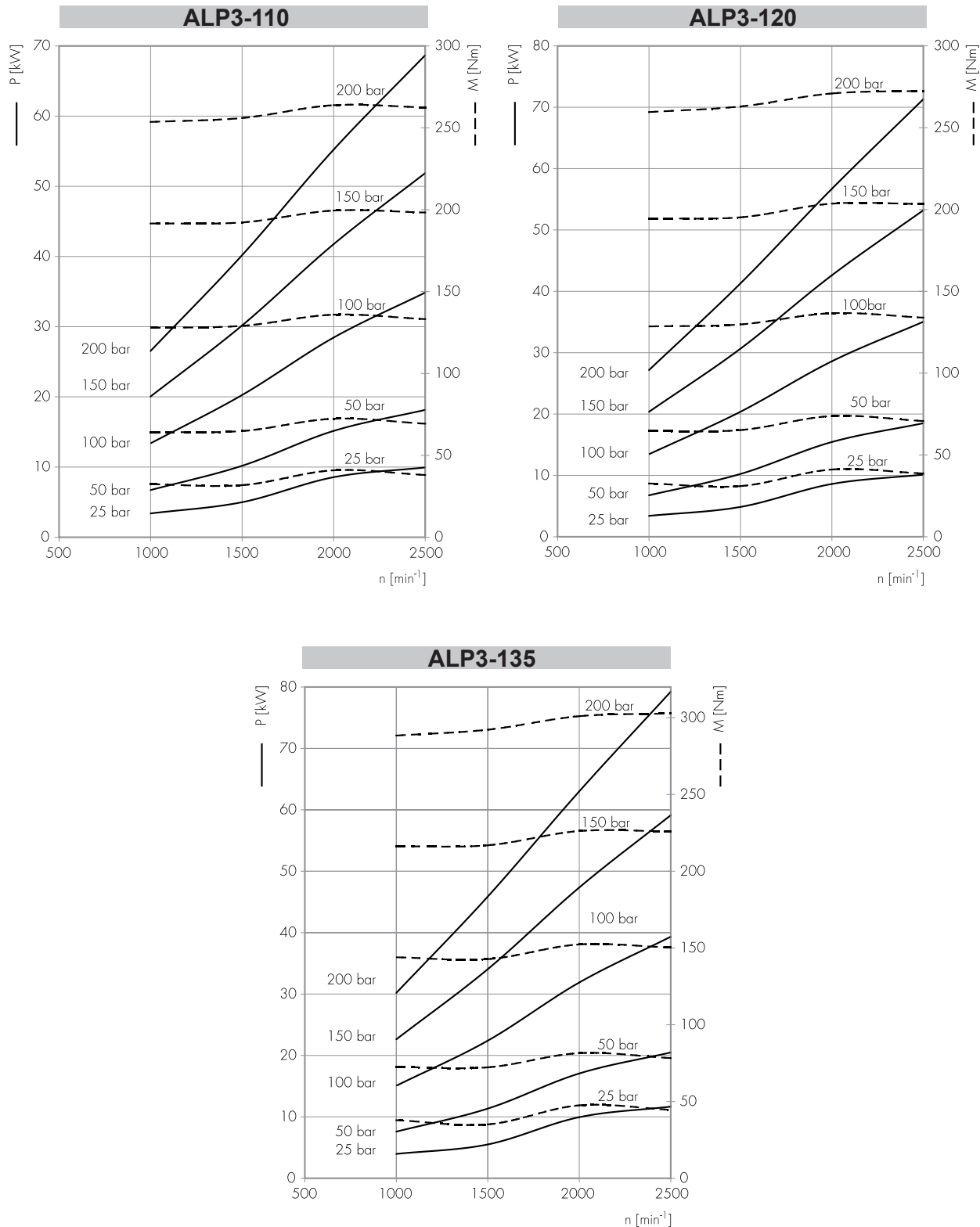
ALP3 Series

Gear Pumps



TYPICAL PERFORMANCE DATA

Absorbed power P [kW]
Absorbed torque M [Nm]
Drive speed n [rpm]



ALP3 Series

Gear Pumps



HOW TO ORDER

ALP3	TYPE	ROTATION	SIZE	SHAFT*	PORTS*	SEALS*	OPTIONS*	DRAIN*
	omit	D CLOCKWISE	30					
	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

TR

...

Drain (only for R rotation)

E0 = internal drain

E1 = external drain G3/8

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

E3 = external drain G1/4

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

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

(**) = R rotation is available for all listed displacements

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

Pump Standard Types

omit = european flange + shaft T0 + ports E + standard seals
A = flange A + shaft C1 + ports A + standard seals

Examples

ALP3-D-30 = clockwise rotation, 20 cc/rev, european flange, 1:8 tapered shaft, flanged ports E type, standard seals

ALP3-D-30-**C0** = clockwise rotation, 20 cc/rev, european flange, cylindrical shaft (**C0**), flanged ports E type, standard seals

ALP3A-D-30-**E** = clockwise rotation, 20 cc/rev, B 2 bolt flange, cylindrical shaft, european flanged ports (**E**), standard seals