

GHP3A Series

Gear Pumps

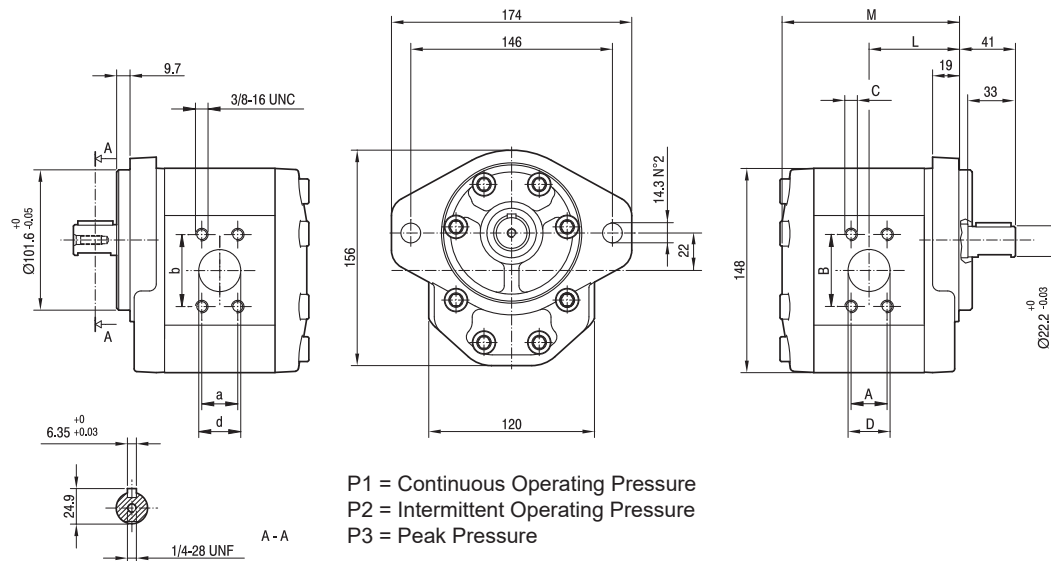


DIMENSIONAL DETAILS

TYPE	DISPLACEMENT CM ³ /REV	FLOW AT 1500 REV/MIN	MAX. WORKING PRESSURE			MAX. SPEED RPM
			P1	P2	P3	
GHP3AD30	20	29	280	295	310	3500
GHP3AD33	22	31	280	295	310	3500
GHP3AD40	26	37	280	295	310	3300
GHP3AD50	33	48	270	285	300	3300
GHP3AD60	39	56	260	275	290	3000
GHP3AD66	44	62	250	265	280	2800
GHP3AD80	52	74	230	245	260	2500
GHP3AD94	61	87	210	225	240	2800
GHP3AD110	71	101	200	215	230	2500
GHP3AD120	78	112	180	195	210	2300
GHP3AD135	87	124	160	175	190	2000

OUTLET

INLET



TYPE	DIMENSIONS								
	L mm	M mm	A mm	B mm	*C UNC	D mm	a mm	b mm	d mm
GHP3AD30	65	128	26.19	52.37	3/8	27	22.23	47.63	19
GHP3AD33	65.5	129	26.19	52.37	3/8	27	22.23	47.63	19
GHP3AD40	67	132	26.19	52.37	3/8	27	22.23	47.63	19
GHP3AD50	69.5	137	26.19	52.37	3/8	27	22.23	47.63	19
GHP3AD60	71.5	141	26.19	52.37	3/8	27	22.23	47.63	19
GHP3AD66	73	144	26.19	52.37	3/8	27	22.23	47.63	19
GHP3AD80	76	150	26.19	52.37	3/8	27	22.23	47.63	19
GHP3AD94	79	156	30.2	58.7	7/16	33	26.19	52.37	27
GHP3AD110	82.5	163	30.2	58.7	7/16	33	26.19	52.37	27
GHP3AD120	85	168	30.2	58.7	7/16	33	26.19	52.37	27
GHP3AD135	88	174	30.2	58.7	7/16	33	26.19	52.37	27

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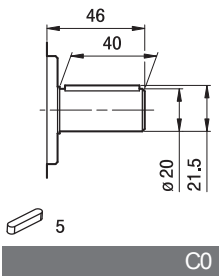
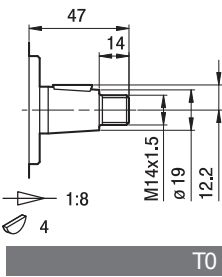
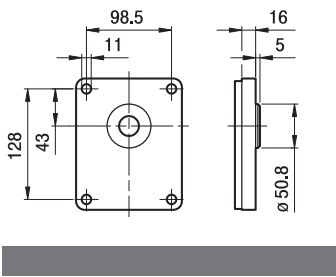
Gear Pumps



FLANGE & SHAFT DETAILS

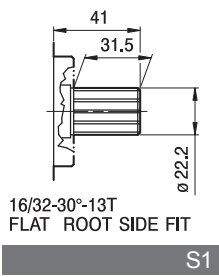
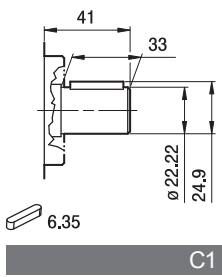
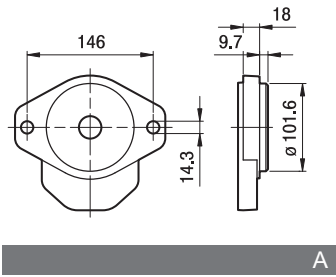
FLANGES

SHAFTS



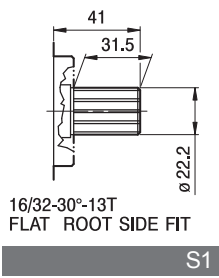
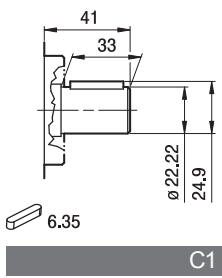
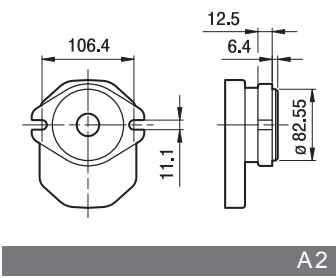
Max Torque 300 Nm

Max Torque 350 Nm



Max Torque 450 Nm

Max Torque 600 Nm



Max Torque 450 Nm

Max Torque 600 Nm

GHP3A Series

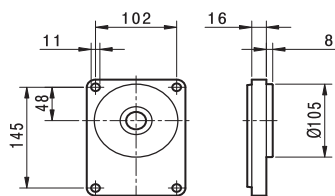
Gear Pumps



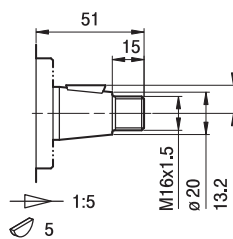
FLANGE & SHAFT DETAILS

FLANGES

SHAFTS

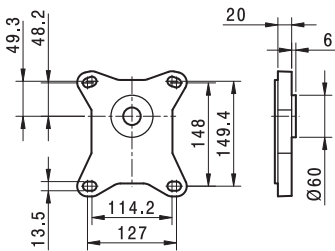


BK1

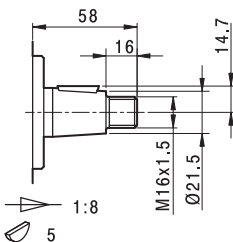


T1

Max Torque 300 Nm



5

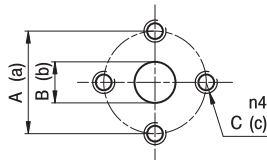


T2

Max Torque 400 Nm

PORT DETAILS

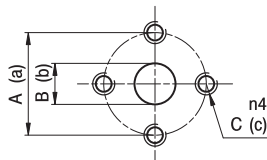
PORTS



E

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
GHP3...30 ÷ GHP3...60	56	27	M10	56	19	M10
GHP3...66	51	27	M10	51	27	M10
GHP3...80	56	27	M10	56	27	M10
GHP3...94 ÷ GHP3...135	62	33	M10	51	27	M10

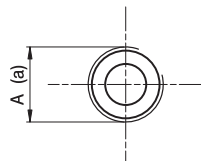
Tightening torques of the fittings screws are specified on page 55 (accessories section).



EP

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
GHP3...30 ÷ GHP3...33	40	19	M8	40	19	M8
GHP3...40 ÷ GHP3...80	51	27	M10	40	19	M8

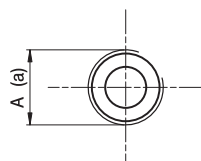
Tightening torques of the fittings screws are specified on page 55 (accessories section).



FG

TYPE	INLET	OUTLET
	A	a
GHP3...30 ÷ GHP3...33	G3/4	G3/4
GHP3...40 ÷ GHP3...60	G1	G3/4
GHP3...66 ÷ GHP3...94	G1 1/4	G1
GHP3...110 ÷ GHP3...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.



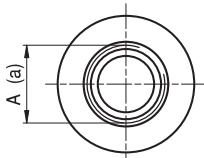
FC

TYPE	INLET	OUTLET
	A	a
GHP3...30 ÷ GHP3...33	Rc3/4	Rc3/4
GHP3...40 ÷ GHP3...60	Rc1	Rc3/4
GHP3...66 ÷ GHP3...94	Rc1 1/4	Rc1
GHP3...110 ÷ GHP3...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

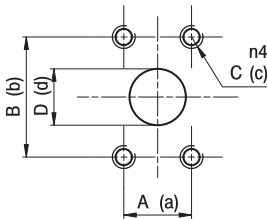


STANDARD SAE J1926/1

FA

TYPE	INLET	OUTLET
	A	a
GHP3...30 ÷ GHP3...50	1 5/16-12 UNF	1 1/16-12 UNF
GHP3...60 ÷ GHP3...80	1 5/8-12 UNF	1 1/16-12 UNF
GHP3...94 ÷ GHP3...135	1 7/8-12 UNF	1 5/16-12 UNF

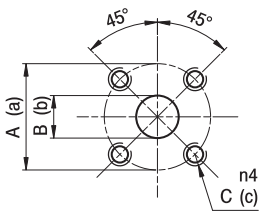
Tightening torques for 1 1/16-12 UNF fitting: 70 Nm. Tightening torques for 1 5/16-12 UNF fitting: 80 Nm. Tightening torques for 1 5/8-12 UNF fitting: 80 Nm. Tightening torques for 1 7/8-12 UNF fitting: 80 Nm. Please check with the fittings suppliers.



A

TYPE	INLET				OUTLET			
	A	B	C	D	a	b	c	d
GHP3...30 ÷ GHP3...80	26,19	52,37	3/8-16 UNC	27	22,23	47,63	3/8-16 UNC	19
GHP3...94 ÷ GHP3...135	30,2	58,7	7/16-14 UNC	33	26,19	52,37	3/8-16 UNC	27

Tightening torques of the fittings screws are specified on page 55 (accessories section).



D

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
GHP3.30 ÷ GHP3.80	55	27	M8	55	19	M8

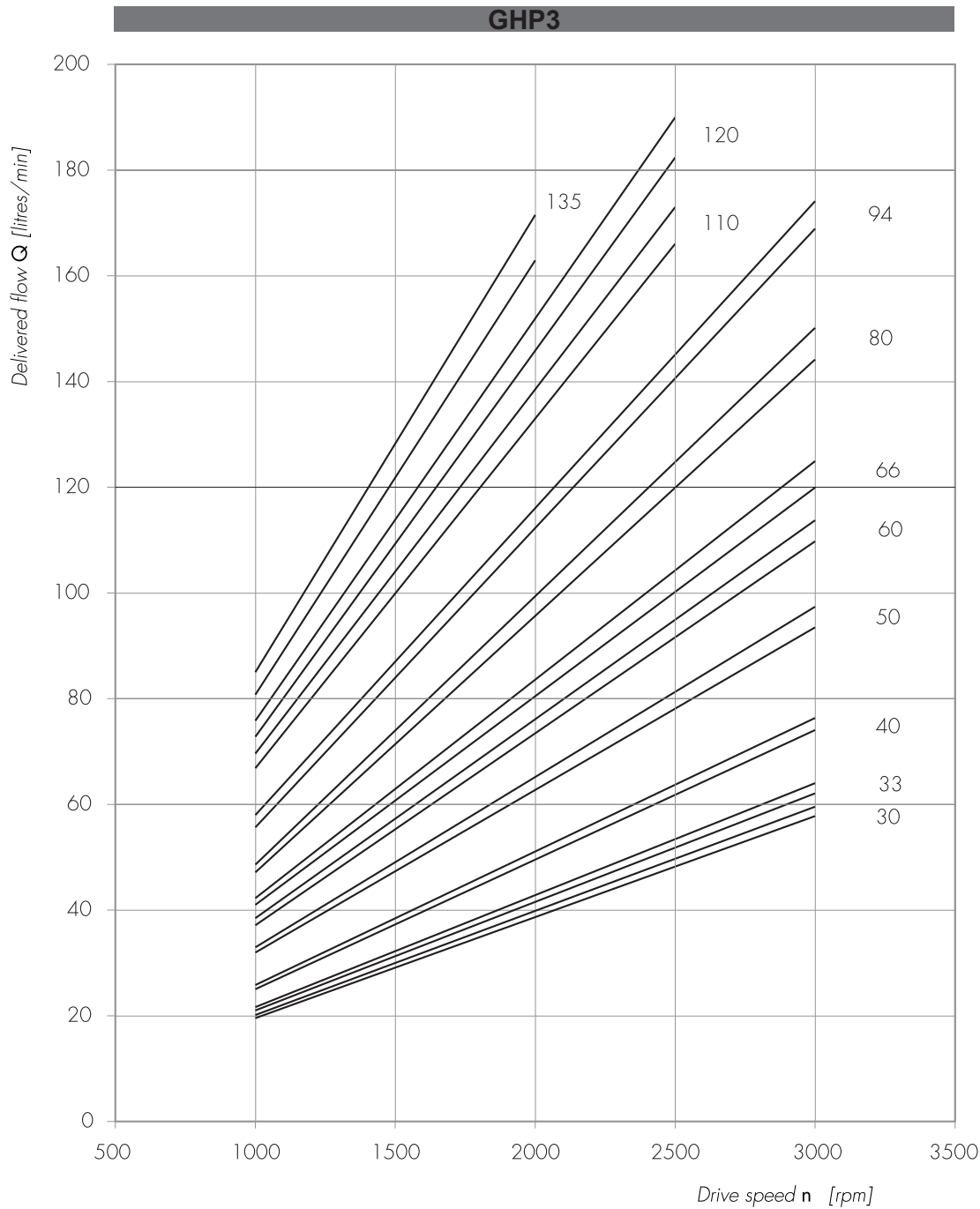
Tightening torques of the fittings screws are specified on page 55 (accessories section).

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GHP3 PERFORMANCE CURVES



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

30	80 25-280 bar	120 25-200 bar
33 25-300 bar		
40	94 25-240 bar	135 25-180 bar
50		
60 25-290 bar	110 25-220 bar	
66		

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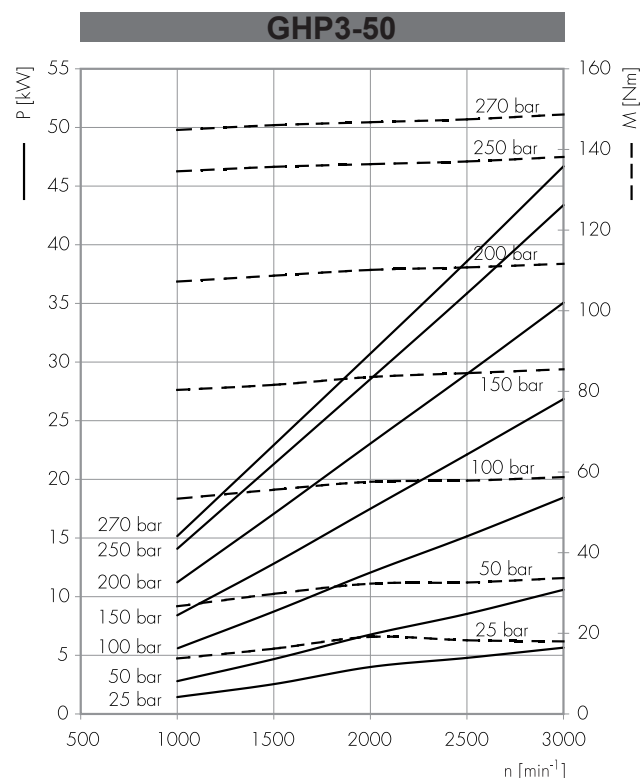
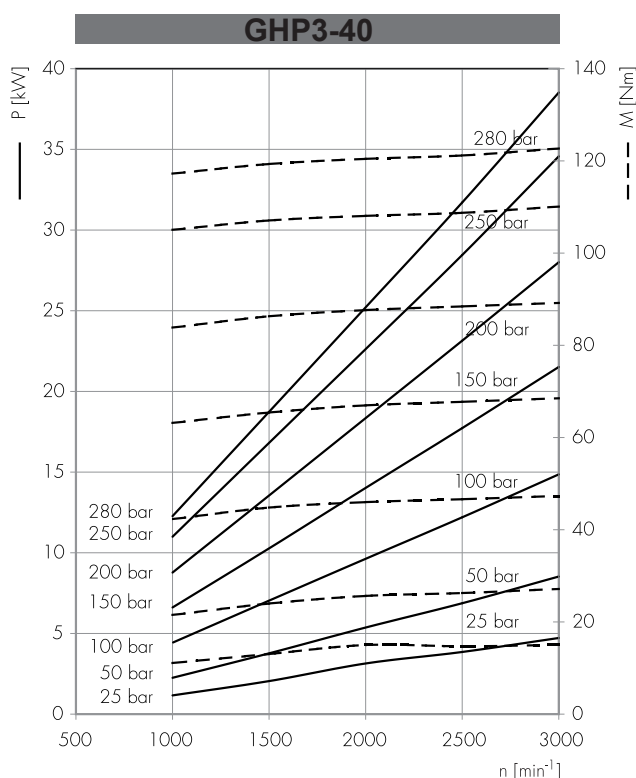
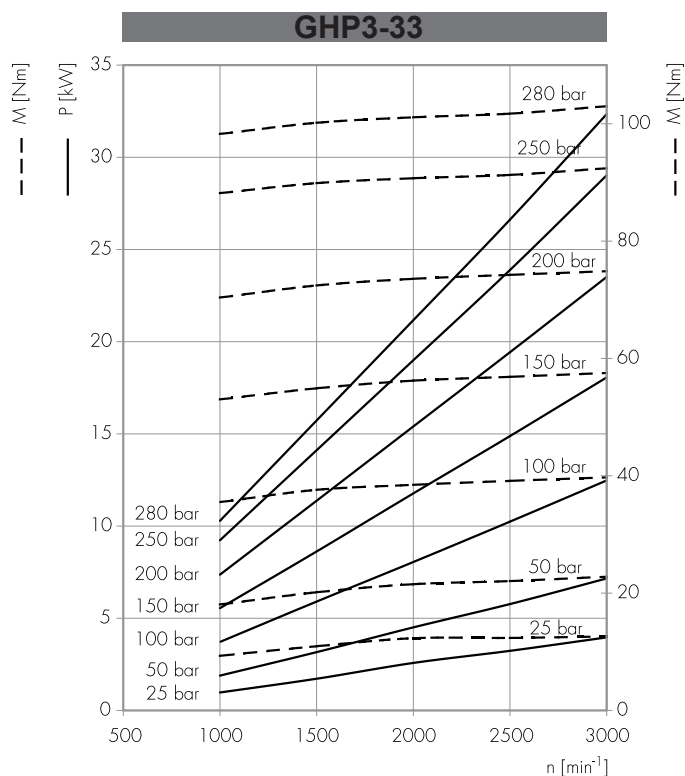
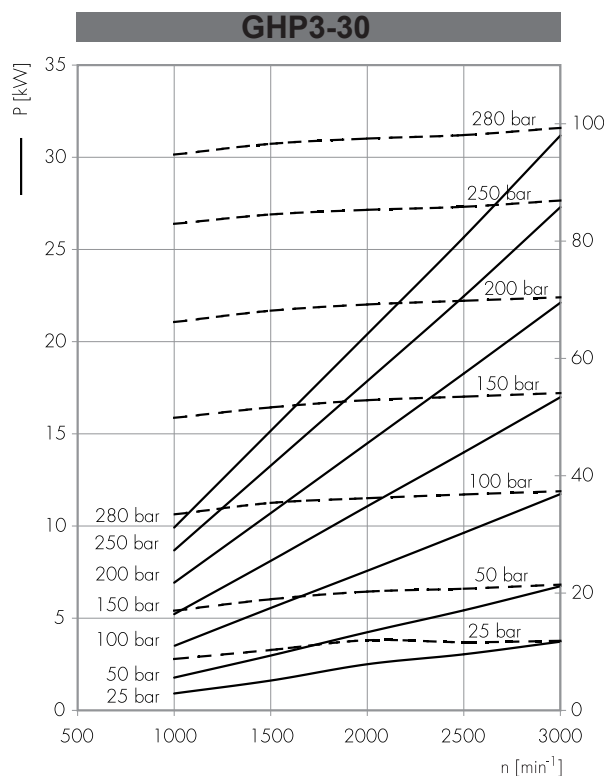


TYPICAL PERFORMANCE DATA

Absorbed power P [kW]

Absorbed torque M [Nm]

Drive speed n [rpm]



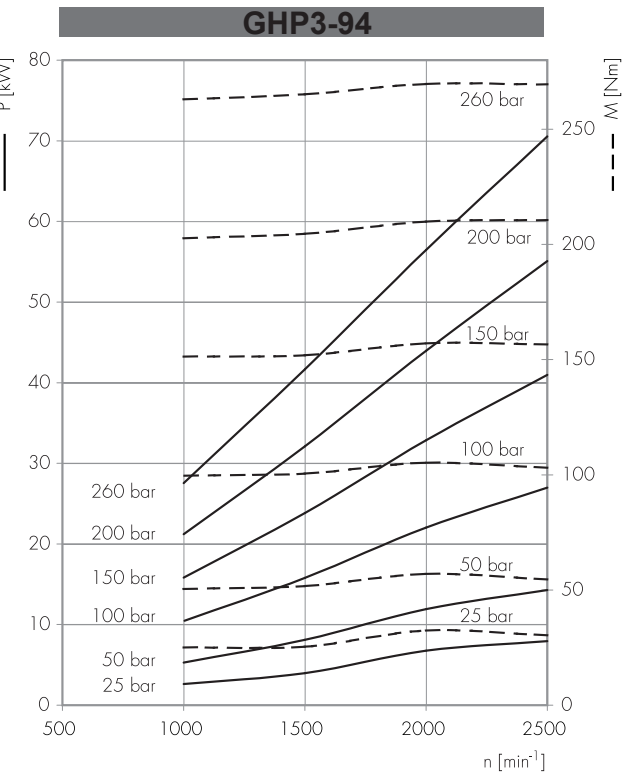
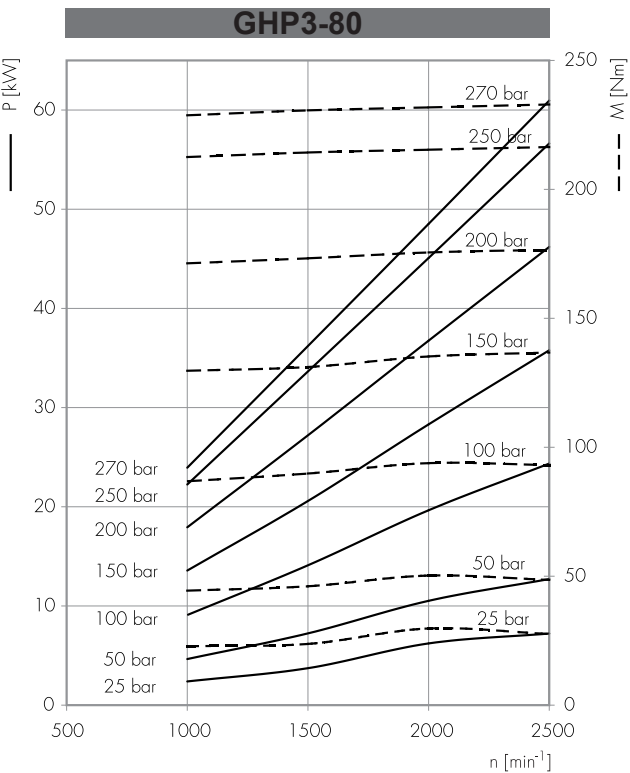
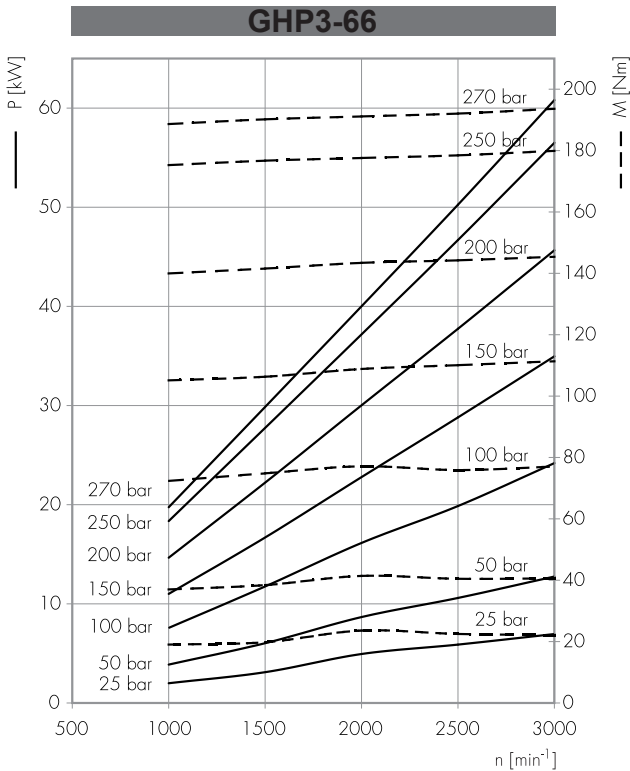
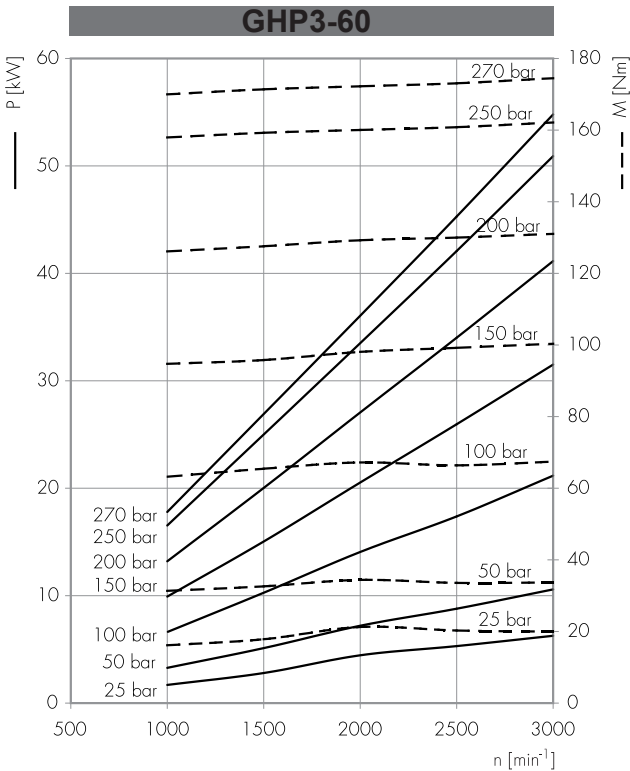
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Absorbed power P [kW]
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Drive speed n [rpm]



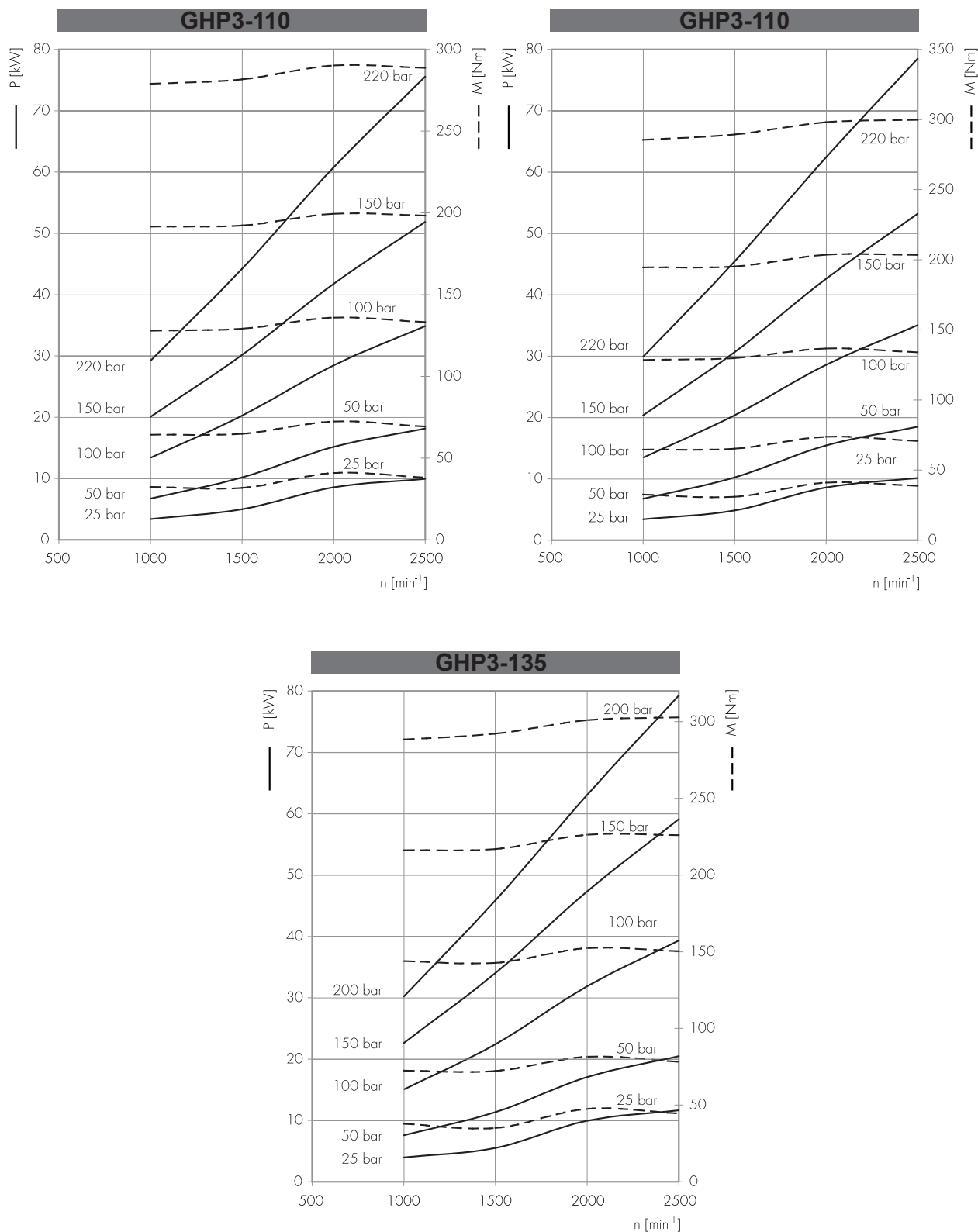
GHP3A Series

Gear Pumps



TYPICAL PERFORMANCE DATA

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



GHP3A Series

Gear Pumps



HOW TO ORDER

GHP3	TYPE	ROTATION	SIZE	SHAFT*	PORTS*	SEALS*	OPTIONS*	DRAIN*
	omit	D CLOCKWISE	30					
	A	S COUNTER CLOCKWISE	33					
	A2		40					
	BK1	R** REVERSIBLE	50					
	5		60					
			66					
			80					
			94					
			110					
			120					
			135					

Seals
omit (T range = -10°C + 80°C)
V
H
...

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 G 1/4
*** E4 = external drain 9/16-18 UNF

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

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

(***) = "E2" drain port is machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO 11926-1). Thread depth 12,7 mm.

Pump Standard Types

- omit = european flange + shaft T0 + ports E + standard seals
- A = flange A + shaft C1 + ports A + standard seals
- A2 = flange A2 + shaft C1 + ports A + standard seals
- BK1 = flange BK1 + shaft T1 + ports D + standard seals
- 5 = flange 5 + shaft T2 + ports E + standard seals