Part number:

HYDROMA HYDRAULICKÉ SYSTÉMY | HIDROMA SISTEMS UKŁADY HYDRAULICZNE | HYDROMA ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

KAPPA 20 GENERAL DATA PUMPS

KP 20

Pump type	Displacement	Max. pressure			Max. speed	Min. speed
		p_1	p_2	p_3		
	in^3/rev (cm^3/rev)	psi (bar)			min^{-1}	
KP 20•4	0.30 (4,95)	4133 (285)	4350 (300)	4785 (330)	4000	350
KP 20•6,3	0.40 (6,61)	4133 (285)	4350 (300)	4785 (330)	4000	350
KP 20•8	0.50 (8,26)	4133 (285)	4350 (300)	4785 (330)	3500	350
KP 20•11,2	0.69 (11,23)	3988 (275)	4205 (290)	4640 (320)	3500	350
KP 20•14	0.89 (14,53)	3843 (265)	4205 (290)	4640 (320)	3500	350
KP 20•16	1.03 (16,85)	3770 (260)	4205 (290)	4640 (320)	3000	300
KP 20•20	1.29 (21,14)	3045 (210)	3335 (230)	3625 (250)	3000	300
KP 20•25	1.61 (26,42)	2610 (180)	2900 (200)	3190 (220)	2500	300
KP 20•31,5	2.01 (33,03)	2030 (140)	2320 (160)	2610 (180)	2000	300

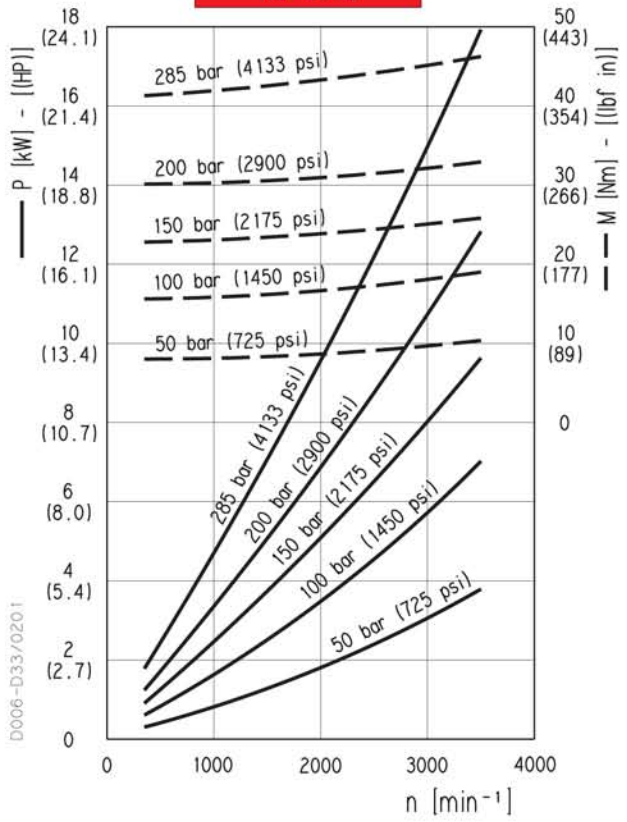
p_1= Max. continuous pressure p_2= Max. intermittent pressure p_3= Max. peak pressure

The values in the table refer to unidirectional pumps.
Reversible pump max pressures are 15% lower than those shown in table.
For different working conditions please consult our sales department.

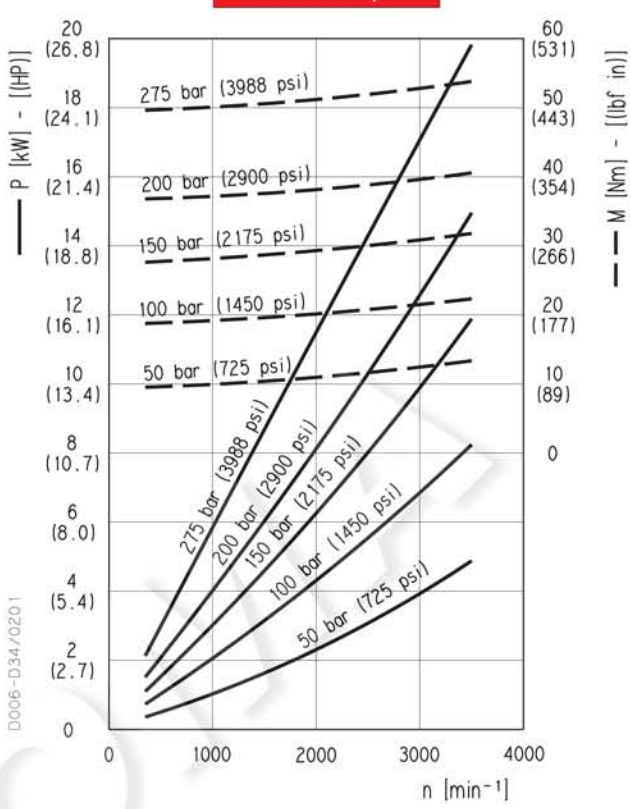
KAPPA 20 GEAR PUMPS PERFORMANCE CURVES

KP 20

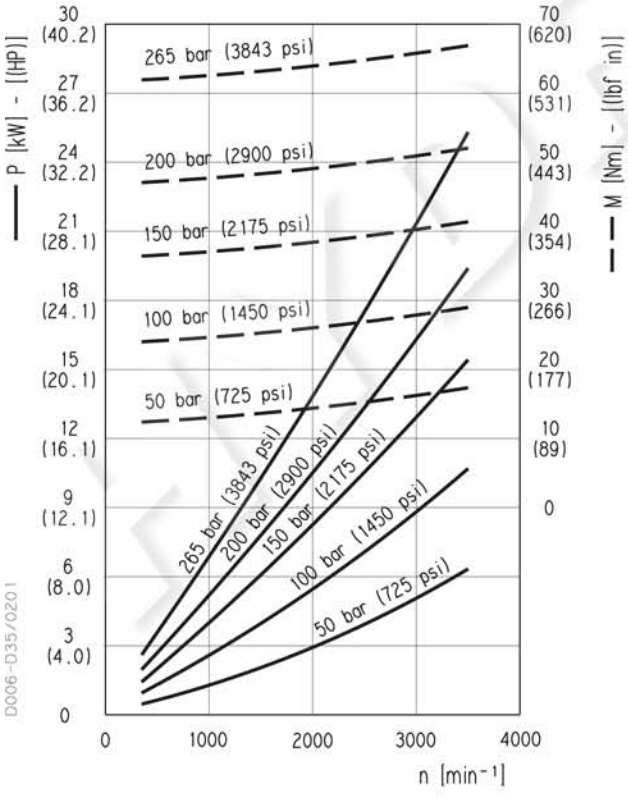
KP 20•8



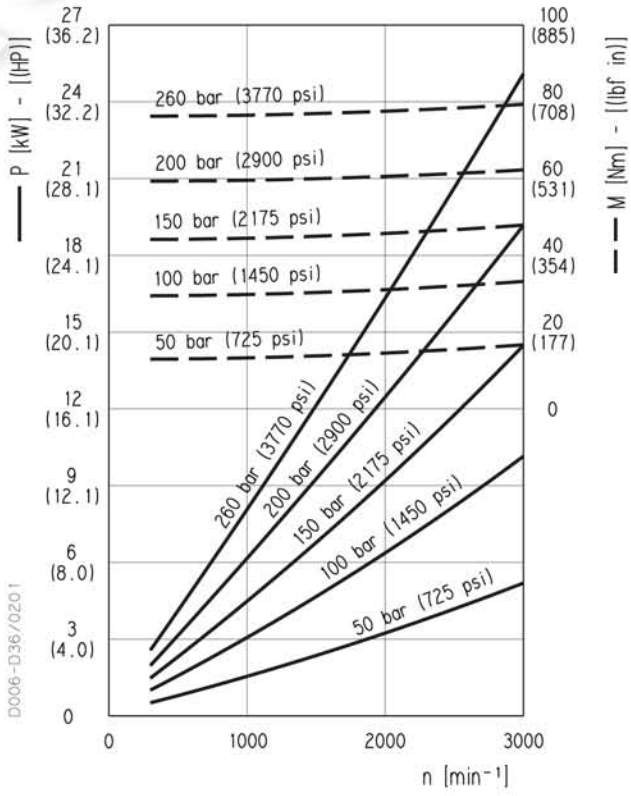
KP 20•11,2



KP 20•14



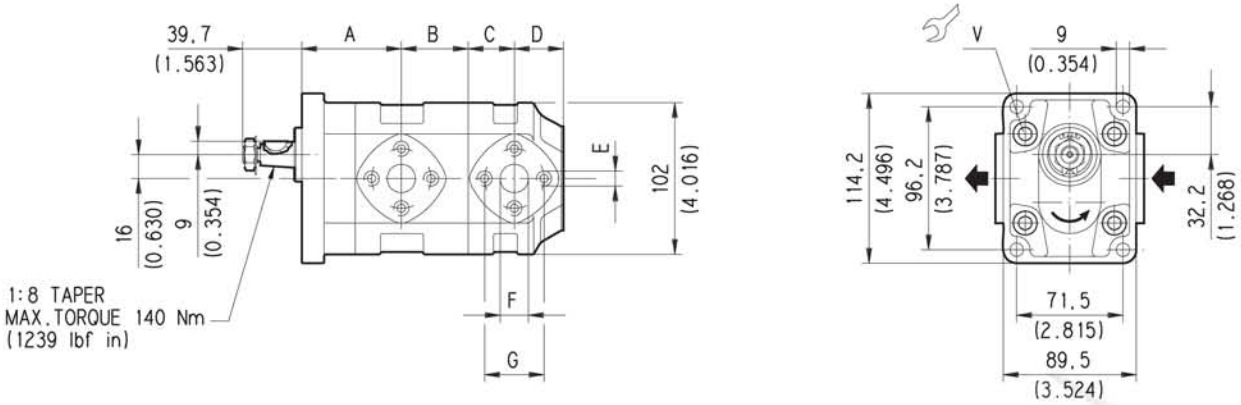
KP 20•16

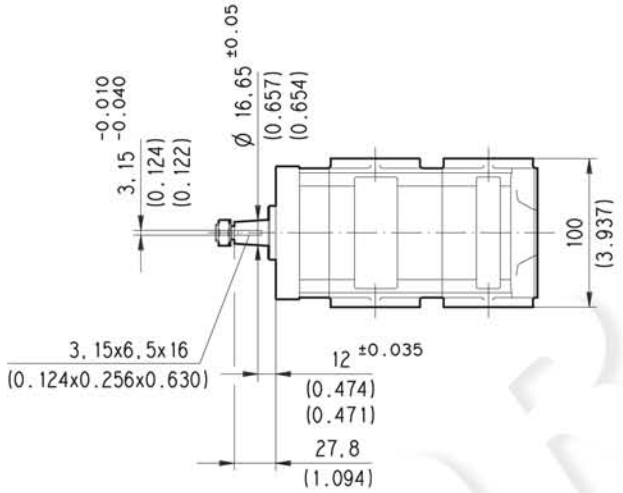


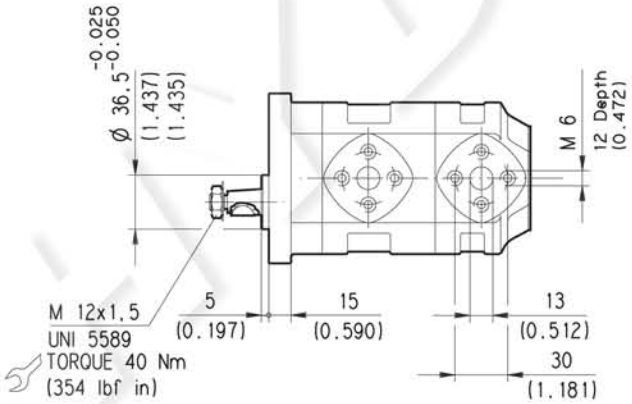
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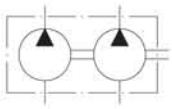
KAPPA 20 | HYDRAULIC GEAR PUMPS EUROPEAN STANDARD | 82 E2

EUROPEAN FLANGED PORTS - 4 Bolts
Metric thread ISO 60° conforms to ISO/R 262









D006-D05/0605

02/06.2005

V Screws tightening torque Nm (lbf in)
70 ±7 (558 ÷ 682)

KAPPA 20 — HYDRAULIC GEAR PUMPS EUROPEAN STANDARD — 82 E2

Pump type	A	B	C	D	E	F	G
	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)
KP 20•4	60 (2.362)	37,5 (1.476)	24 (0.945)	27,5 (1.083)	M 6 Depth 12 (0.472)	13 (0.512)	30 (1.181)
KP 20•6,3	62,5 (2.461)		26,5 (1.043)				
KP 20•8	65 (2.559)		29 (1.142)				
KP 20•11,2	68,5 (2.697)	38,5 (1.51)	32,5 (1.280)				
KP 20•14	67 (2.638)	45 (1.772)	31 (1.220)	33 (1.299)	M 8 Depth 14 (0.551)	19 (0.748)	40 (1.575)
KP 20•16	72,5 (2.854)	43 (1.693)	36,5 (1.437)				
KP 20•20	79 (3.110)		43 (1.693)				
KP 20•25	72 (2.835)	58 (2.283)	36 (1.417)	48 (1.890)			
KP 20•31,5	82 (3.228)		46 (1.811)				

The lenght of a triple pump is obtained with the sum of the following dimensions: **A+B+C+B+C+D.**

How to order a triple pump

(for double pump omit the intermediate pump)

Front pump	/	Intermediate pump	/	Rear pump	Rotation (1)	/	–	Seals (2)
KP20•4	/	20•4	/	20•4	S	–	FS	-

(1) Rotation: S= Left - D= Right

(2) For Buna N seals no code

02/06.2005

ORDER EXAMPLE

Double pump KP20•4/20•4 S/FS

Triple pump KP20•4/20•4/20•4 S/FS

PORTS CONNECTORS TIGHTENING TORQUE

Tightening torque for low pressure side port.

Tightening torque for high pressure side port [values obtained at 350 bar (5075 psi)]

For reversible rotation, please consult only the tightening torque for high pressure side port.

EUROPEAN FLANGED PORTS - 4 Bolts — EUROPEAN

CODE				
	Nm	(lbf in)	Nm	(lbf in)
EA	8 +0,5	71 ÷ 75	8 +0,5	71 ÷ 75
EB	15 +1	133 ÷ 142	20 +1 (KP 20)	177 ÷ 186
			15 +1 (KP 30)	133 ÷ 142
ED	20 +1	177 ÷ 186	30 +2,5	266 ÷ 288
EF	25 +1	221 ÷ 230	50 +2,5	443 ÷ 465

GAS STRAIGHT THREAD PORTS — BSPP

CODE				
	Nm	(lbf in)	Nm	(lbf in)
GB (◆)	15 +1	133 ÷ 142	–	–
GC (■)	15 +1	133 ÷ 142	–	–
GD	20 +1	177 ÷ 186	50 +2,5	443 ÷ 465
GE	30 +2,5	266 ÷ 288	90 +5	797 ÷ 841
GF	50 +2,5	443 ÷ 465	130 +10	1151 ÷ 1239
GG	60 +5	531 ÷ 575	170 +10	1505 ÷ 1593

SAE STRAIGHT THREAD POTRS J514 — ODT

CODE				
	Nm	(lbf in)	Nm	(lbf in)
03 (✹)	12 +1	106 ÷ 115	——	——
OA (■)	15 +1	133 ÷ 142	——	——
OC	30 +2,5	266 ÷ 288	70 +5	620 ÷ 664
OD	40 +2,5	354 ÷ 376	120 +10	1062 ÷ 1151
OF	60 +5	531 ÷ 575	170 +10	1505 ÷ 1593
OG	70 +5	620 ÷ 664	200 +10	1770 ÷ 1859
OH	100 +5	885 ÷ 929	270 +15	2390 ÷ 2523

SAE FLANGED PORTS J518 - Standard pressure series 3000 PSI — SSM

CODE				
	Nm	(lbf in)	Nm	(lbf in)
MA	12 +1	106 ÷ 115	12 +1	106 ÷ 115
MB	20 +1	177 ÷ 186	25 +1	221 ÷ 230
MC	20 +1	177 ÷ 186	25 +1	221 ÷ 230

(◆) Drain port: KAPPA 20 rear drain (R) and KAPPA 30 side drain (L)
(✹) Drain port: KAPPA 20 rear drain (R)
(■) Drain port: KAPPA 30 rear drain (R)

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