

Part number:

HYDROMA

HYDRAULICKÉ SYSTÉMY

HIDROMA
SYSTEMS

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

p₁= Max. continuous pressure

p₂= Max. intermittent pressure

p₃= Max. peak pressure

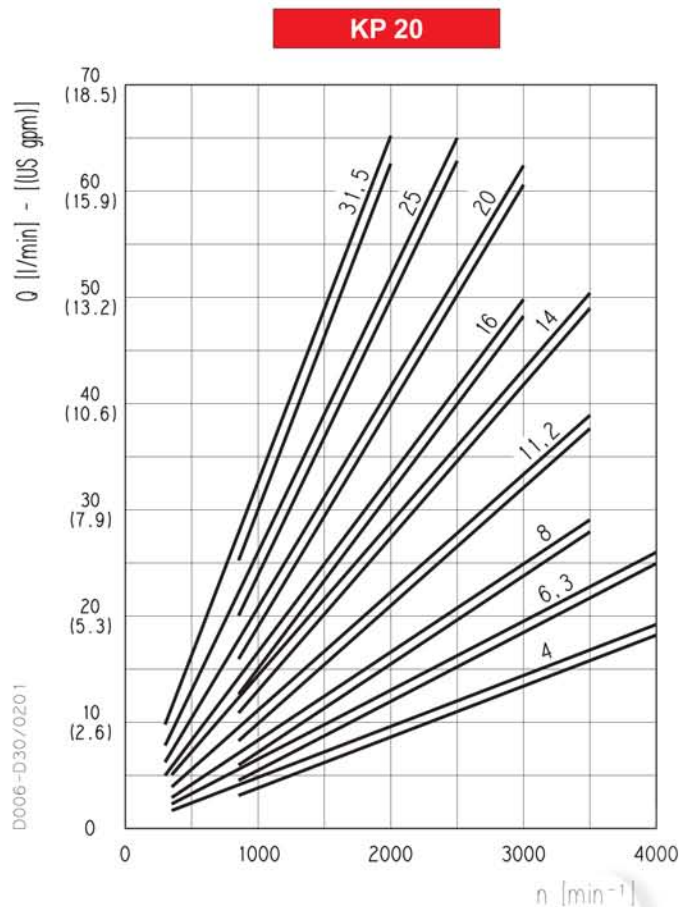
The values in the table refer to unidirectional pumps.

Reversible pump max pressures are 15% lower than those shown in table.

For different working conditions please consult our sales department.

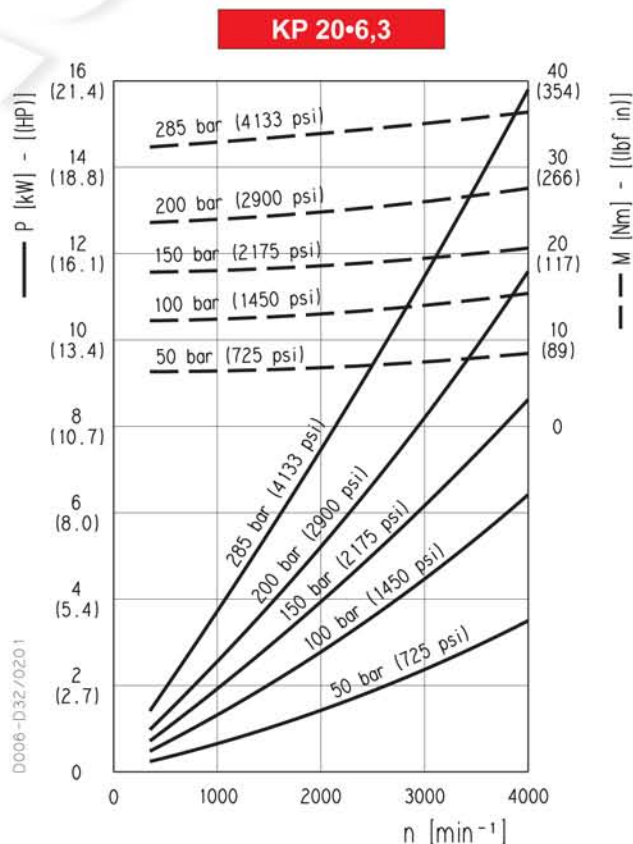
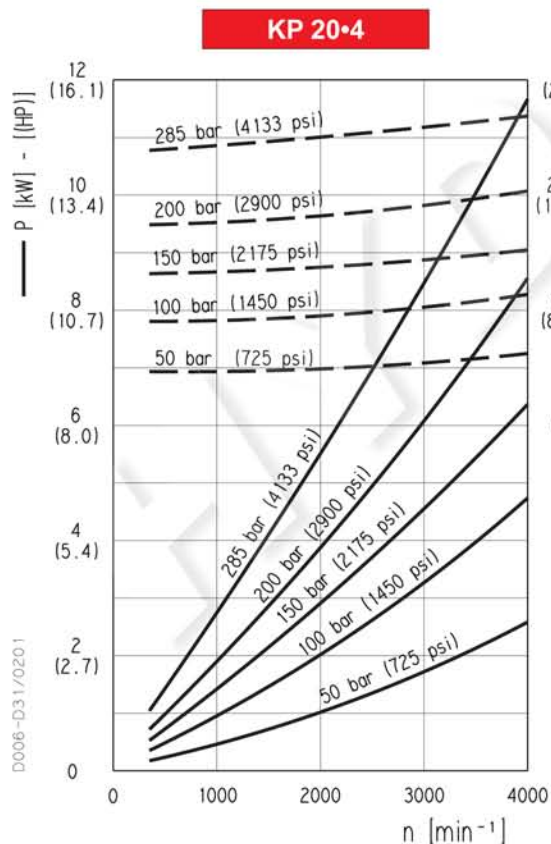
KAPPA 20 GEAR PUMPS PERFORMANCE CURVES

KP 20



Each curve has been obtained at 122 °F (50 °C), using oil with viscosity 168 SSU (36 cSt) at 104 °F (40 °C) and at these pressures:

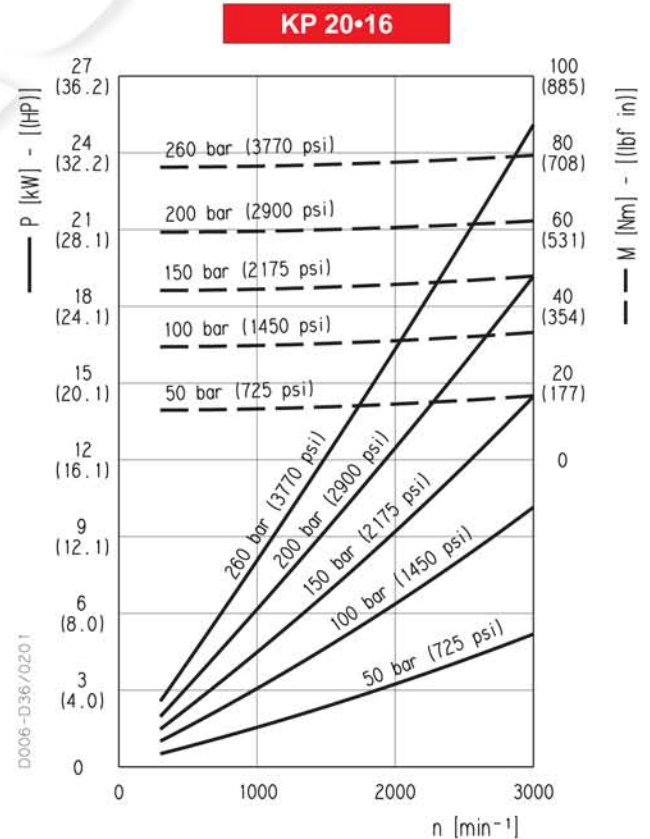
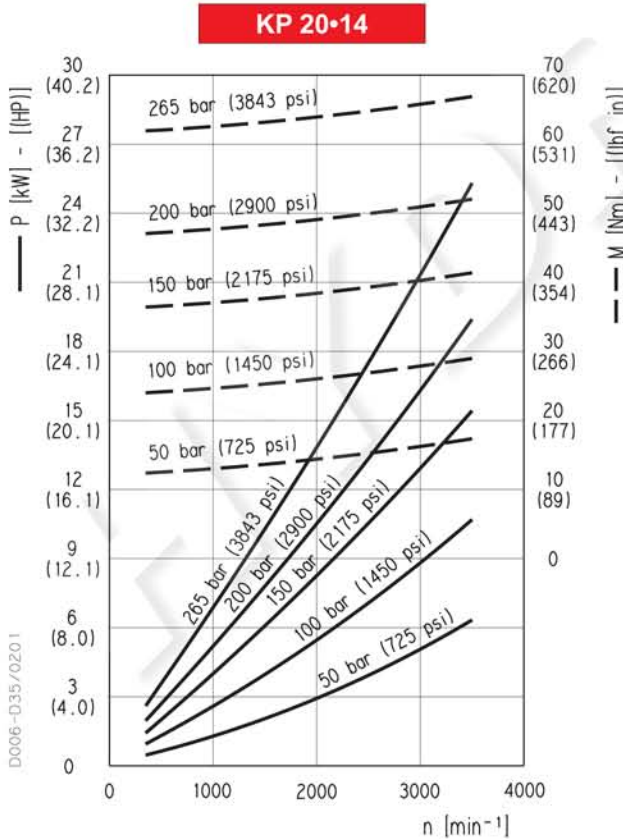
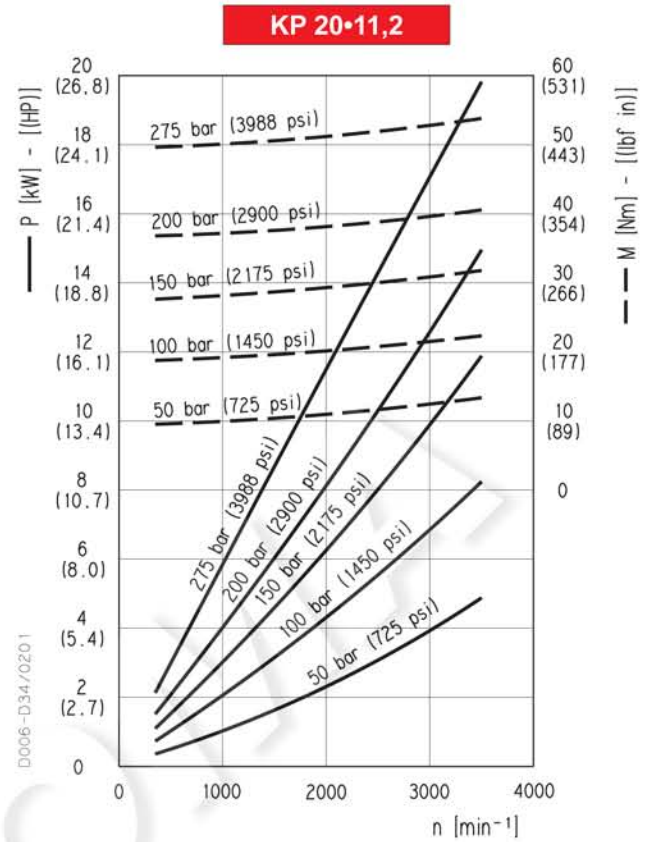
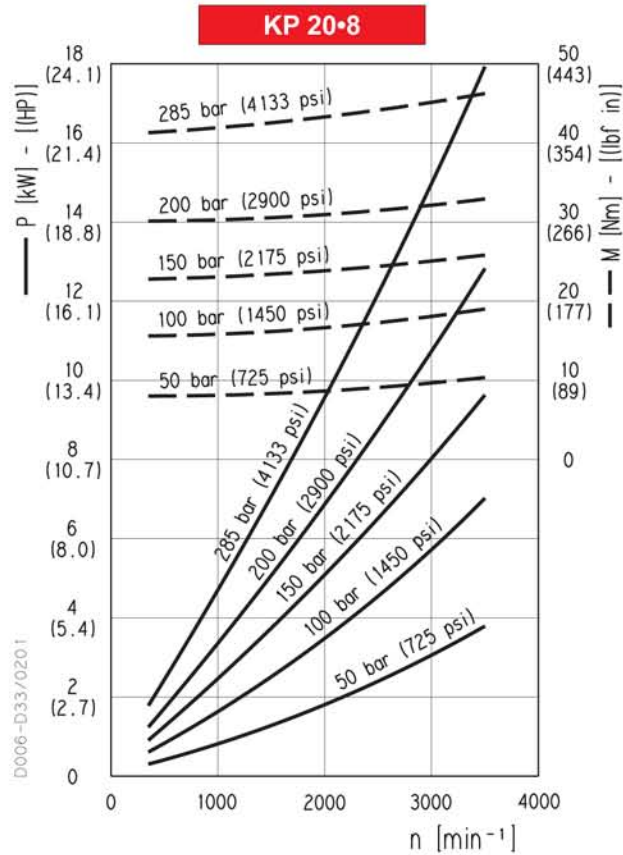
KP 20•4. 290-4133 psi (20-285 bar)
 KP 20•6,3 290-4133 psi (20-285 bar)
 KP 20•8. 290-4133 psi (20-285 bar)
 KP 20•11,2 290-3988 psi (20-275 bar)
 KP 20•14. 290-3843 psi (20-265 bar)
 KP 20•16. 290-3770 psi (20-260 bar)
 KP 20•20. 290-3045 psi (20-210 bar)
 KP 20•25. 290-2610 psi (20-180 bar)
 KP 20•31,5 290-2030 psi (20-140 bar)



01/03.2002

KAPPA 20 GEAR PUMPS PERFORMANCE CURVES

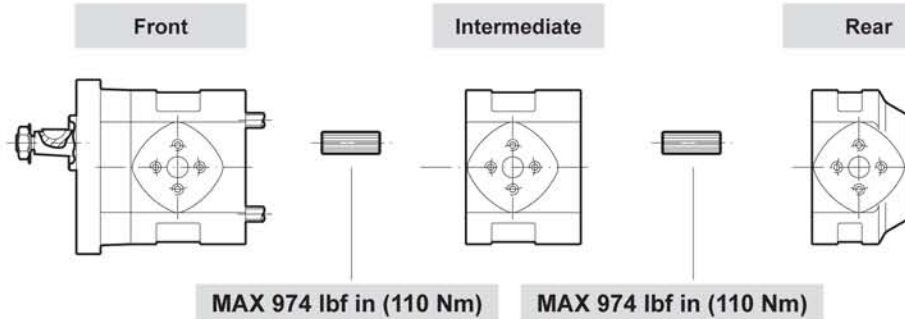
KP 20



01/03.2002

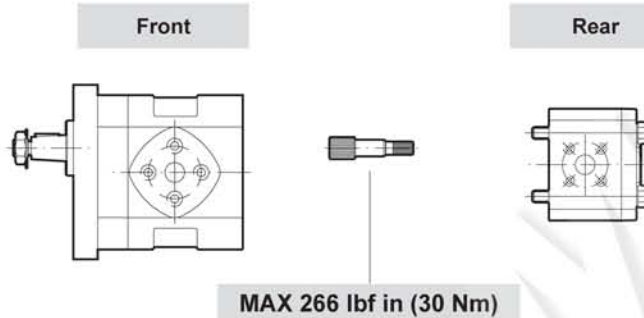
KAPPA 20 + KAPPA 20

D006-D27/0701



KAPPA 20 + POLARIS 10

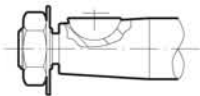
D006-D21/0701



KAPPA 20 END DRIVE SHAFT

EUROPEAN TAPERED 1:8

82



MAX 1239 lbf in (140 Nm)

SAE "A" SPLINE

03



MAX 885 lbf in (100 Nm)

SAE SPLINE

01



MAX 1151 lbf in (130 Nm)

SAE SPLINE

07



MAX 1505 lbf in (170 Nm)

SAE "B" SPLINE

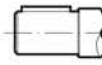
04



MAX 2478 lbf in (280 Nm)

SAE "A" STRAIGHT

31



MAX 620 lbf in (70 Nm)

STRAIGHT

49



MAX 1239 lbf in (140 Nm)

STRAIGHT

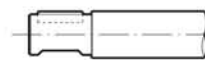
50



MAX 885 lbf in (100 Nm)

SAE "B" STRAIGHT

32

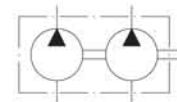
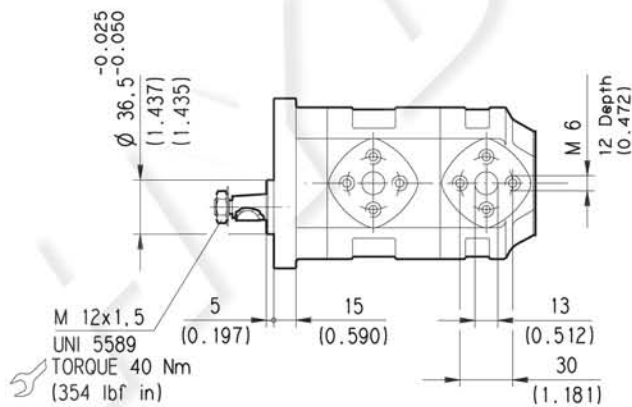
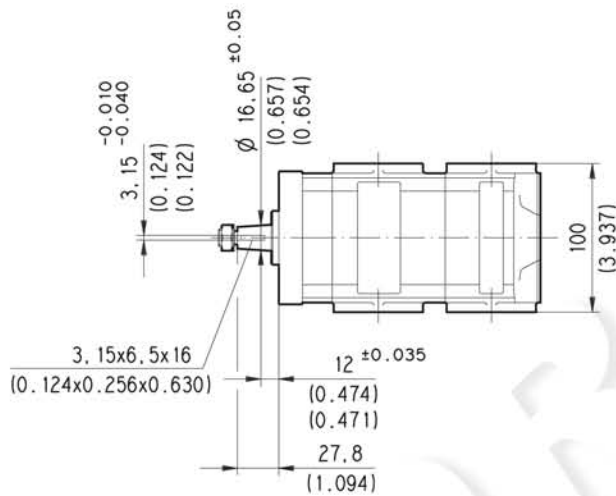
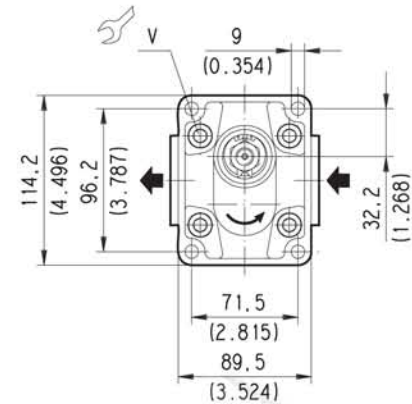
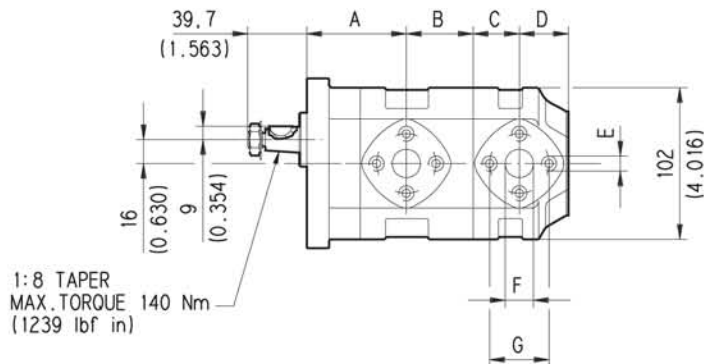


MAX 1770 lbf in (200 Nm)

Replaces: 01/03.2002

03/03.2006

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



V Screws tightening torque Nm (lbf in)

70 ±7 (558 ± 682)

02/06.2005

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)		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 length 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

ORDER EXAMPLE

Double pump **KP20•4/20•4 S/FS**

Triple pump **KP20•4/20•4/20•4 S/FS**

02/06.2005