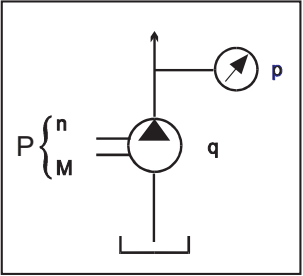


TECHNICAL DETAILS	ТЕХНИЧЕСКИ ХАРАКТЕРИСТИКИ		
Oil viscosity: admissible recommended	Вискозитет на хидравличното масло: допустим препоръчва се	$[\text{mm}^2/\text{s}]$	6 ... 200 20 ... 60
Degree of filtration:	Степен на филтрация:	$[\mu\text{m}]$	25
Operating temperature of the hydraulic oil: recommended	Работна температура на маслото: препоръчва се	$[\text{°C}]$	-25 ... +80 30 ... 50
Inlet pressure (abs):	Налягане на входа (абс):	[ bar ]	0.8 ... 2.2
Recommended oil speed: in intake in delivery	Препоръчителна скорост на хидравличното масло: в зоната на засмукване (вход) в зоната на изтичане (изход)	[ m/s ]	0.3 ... 1.3 2 ... 5.5

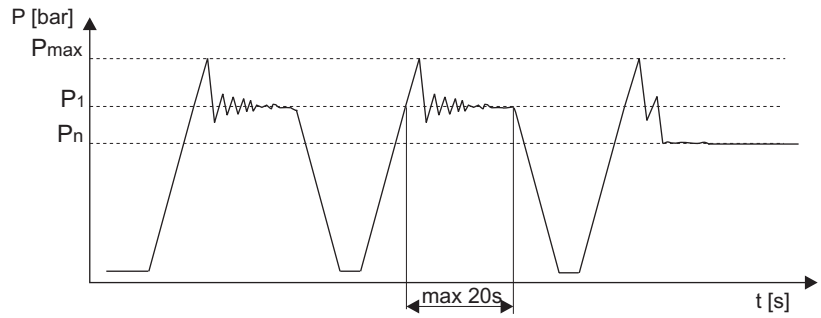
DESIGN CALCULATION FOR PUMPS	ИЗЧИСЛЕНИЯ ЗА ПОМПИТЕ		
			$p$ [bar] $q$ [ $\text{cm}^3$ ] $n$ [ $\text{min}^{-1}$ ] $\eta_o$ - 90... 94% (75...96)% $\eta$ - 80 ... 85% (67...86)%
Delivery:	Дебит:		$Q = \frac{qn\eta_o}{1000} [\text{l/min}] = \frac{60qn\eta_o}{1000000} [\text{m}^3/\text{h}]$
Theoretical drive torque	Теоретичен въртящ момент:		$M_t = \frac{qp}{20\pi} [\text{Nm}]$
Theoretical drive power	Теоретична мощност:		$P_t = \frac{Qp}{612} [\text{kW}]$
Drive power	Мощност на двигателя:		$P = \frac{P_t}{\eta} [\text{kW}]$

Operating conditions / Режим на работа

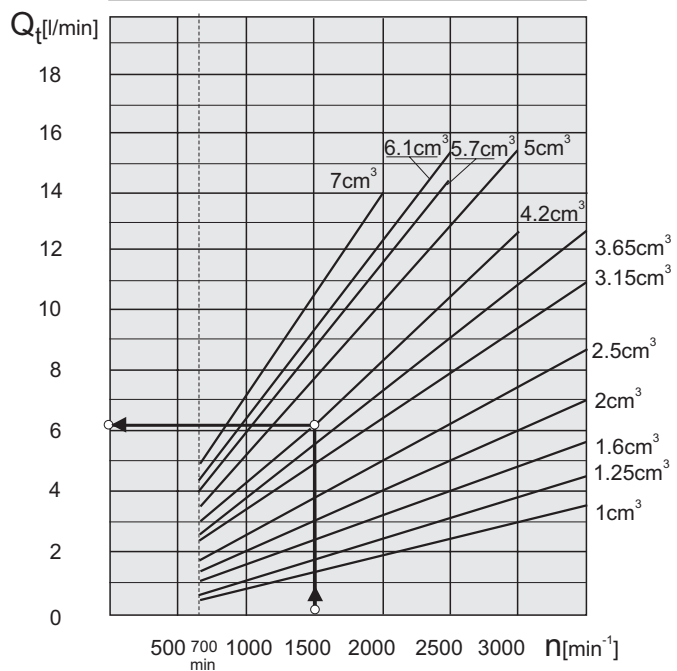
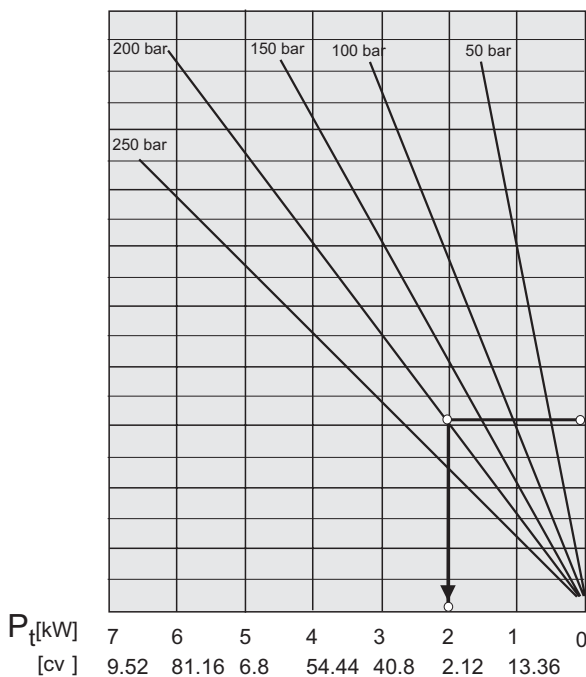
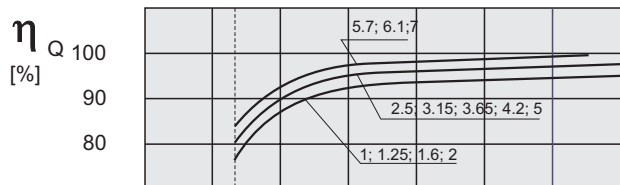
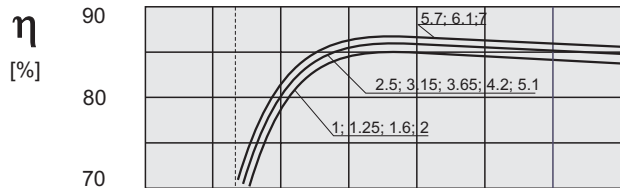
$P_{max}$  - maximum (peak) pressure  
 $P_{max}$  - максимално (пиково) налягане

$P_1 = P_n + 10$  bar - intermittent operating pressure  
 $P_1 = P_n + 10$  bar - моментно работно налягане

$P_n$  - continuous operating (nominal) pressure  
 $P_n$  - постоянно работно (номинално) налягане

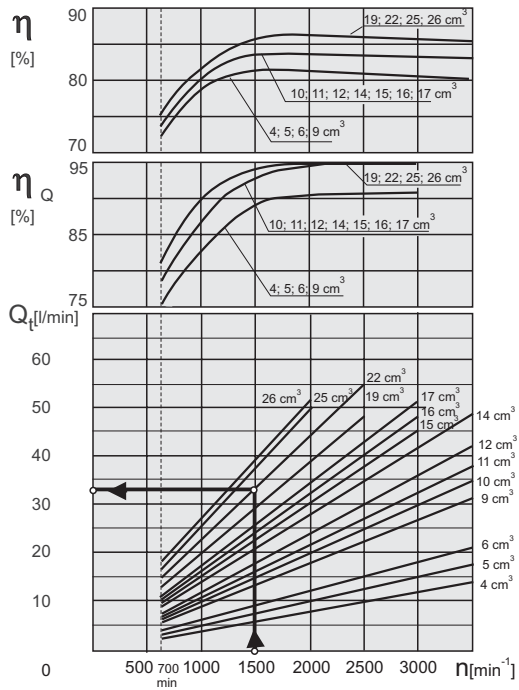
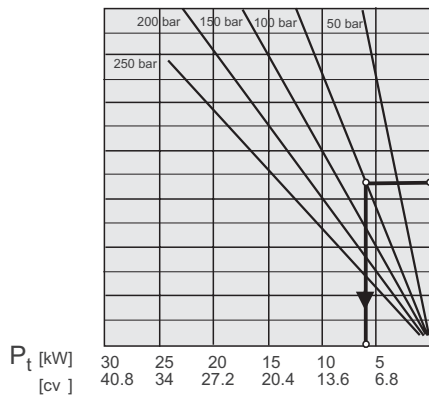


Group Група	I
$q = 1 \dots 7 \text{ cm}^3$ $Q = 1.35 \dots 9.8 \text{ l/min}$ ( $1500 \text{ min}^{-1}$ )	

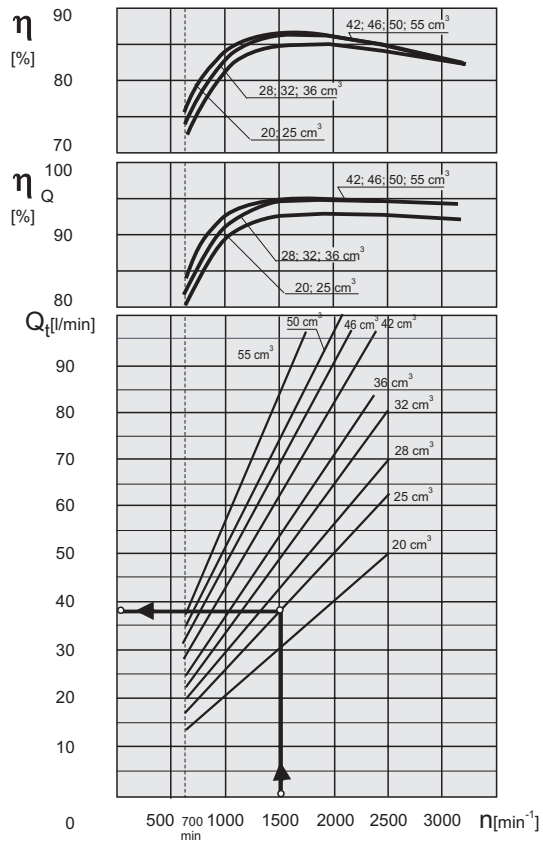
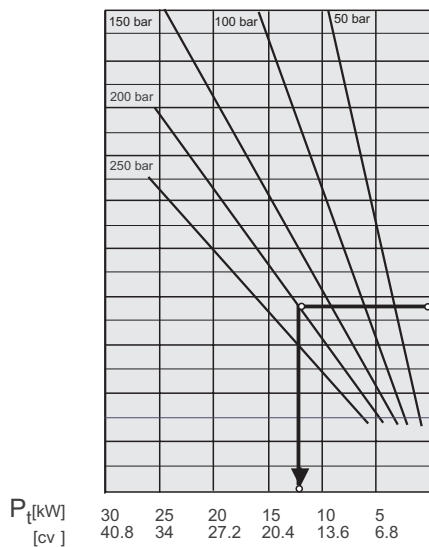


DIAGRAMS / ДИАГРАМИ

Group Група	<b>II</b>
$q = 4 \dots 26 \text{ cm}^3$ $Q = 6.5 \dots 37.5 \text{ l/min}$ (1500 $\text{min}^{-1}$ )	



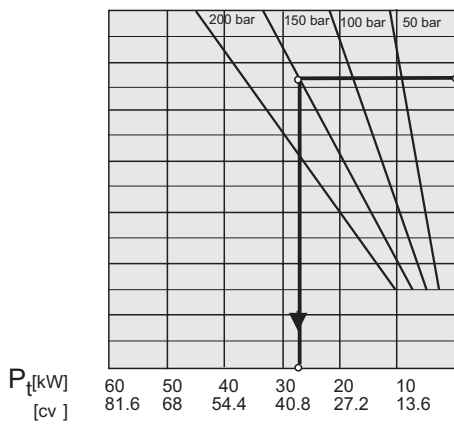
Group Група	<b>III</b>
$q = 20 \dots 55 \text{ cm}^3$ $Q = 28.2 \dots 80 \text{ l/min}$ (1500 $\text{min}^{-1}$ )	



DIAGRAMS / ДИАГРАМИ

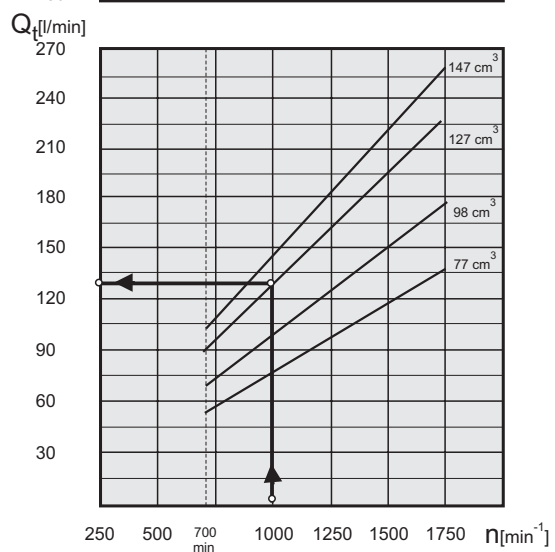
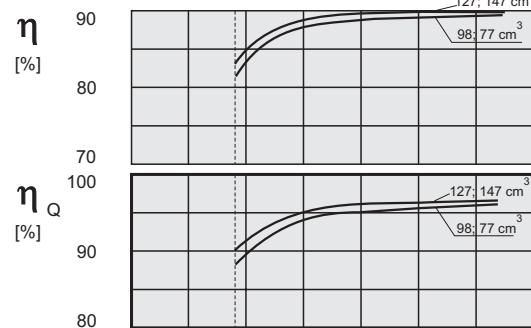
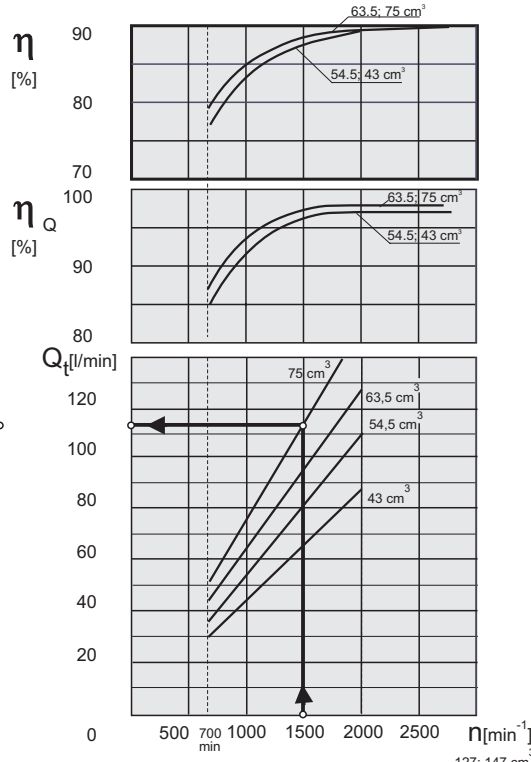
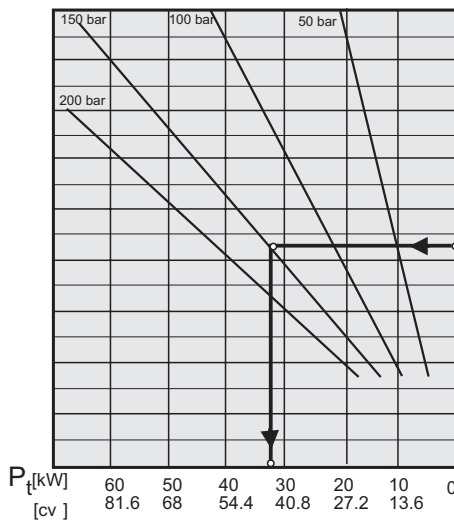
Group IV  
Група IV

$q = 43 \dots 75 \text{ cm}^3$   
 $Q = 62.3 \dots 109 \text{ l/min}$   
( $1500 \text{ min}^{-1}$ )



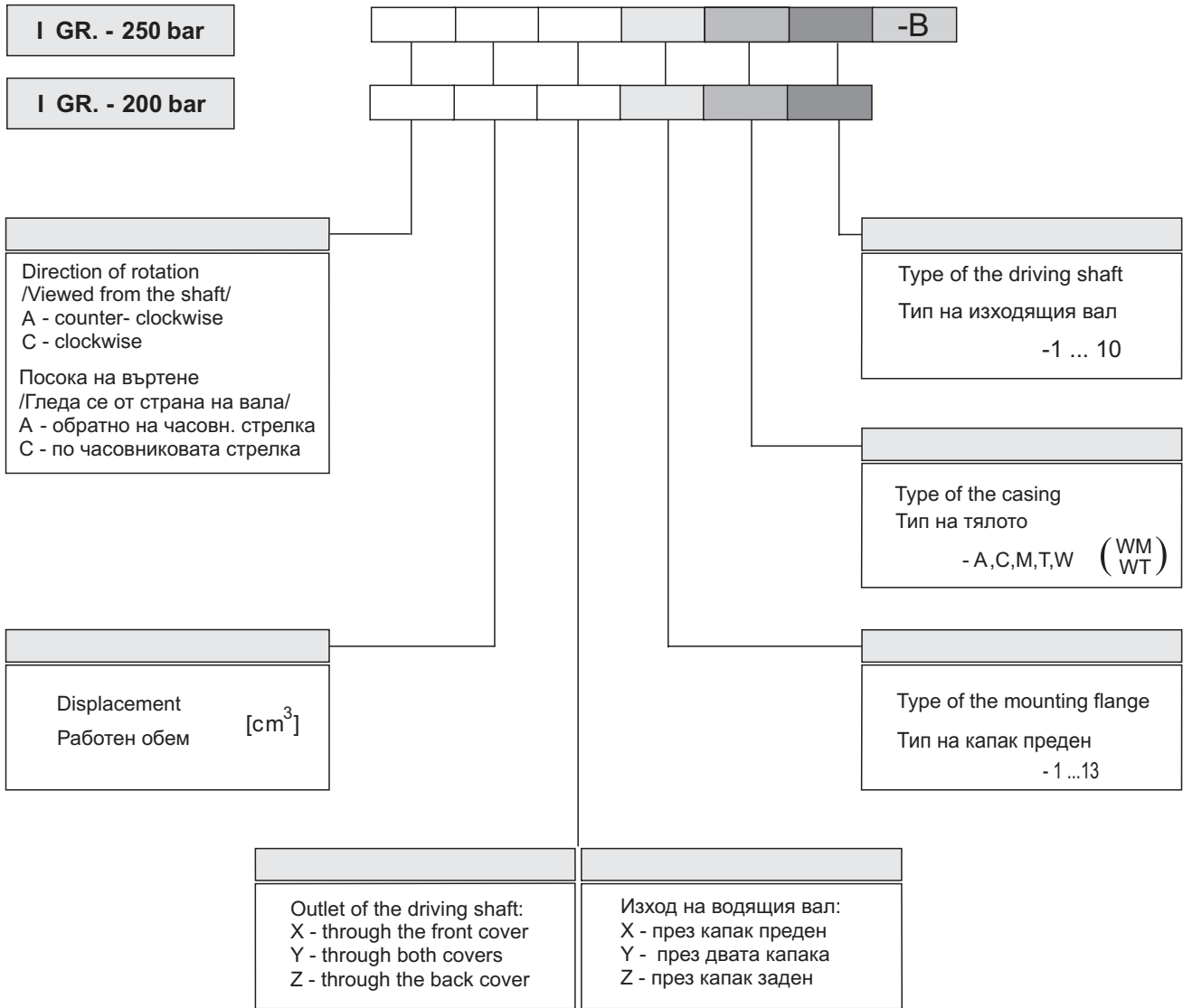
Group V  
Група V

$q = 77 \dots 147 \text{ cm}^3$   
 $Q = 115 \dots 215 \text{ l/min}$   
( $1500 \text{ min}^{-1}$ )



GROUP I / ГРУПА I

ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ



<p><b>Example:</b></p> <p>200 bar : C5,1X1A1 Gear pump group I, direction of rotation clockwise, displacement 5 cm<sup>3</sup>, shaft outlet throughout the front cover, modification 1A1.</p> <p>250 bar : C5,1X1A1-B Gear pump group I, direction of rotation - clockwise, displacement 5 cm<sup>3</sup>, shaft outlet throughout the front cover, modification 1A1-B</p>	<p><b>Пример:</b></p> <p>200 bar : C5,1X1A1 Зъбна помпа първа група, посока на въртене по часовниковата стрелка, работен обем 5 cm<sup>3</sup>, изход на вала през капак преден, модификация 1A1.</p> <p>250 bar : C5,1X1A1-B Зъбна помпа първа група, посока на въртене по часовниковата стрелка, работен обем 5 cm<sup>3</sup>, изход на вала през капак преден, модификация 1A1-B.</p>
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