HYDROSTATIC STEERING UNIT TYPE HKUQ.../4



HKUQ.../4 is a new series of hydrostatic steering units with an additionally increased flow. The hydrostatic steering unit type HKUQ/4 is available for steering medium and large sized vehicles, allowing easy control either in servo-amplified mode or in emergency operation.

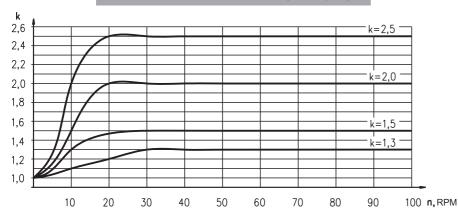
HKUQ/4 is an Open Center-Non Load Reaction hydrostatic steering in which restrictor for amplifying factor from 1,3 to 2,5 is built-in.

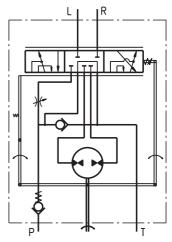
In accordance with the size of the gear wheel set and amplifying factor, HKUQ4 has the following working volume:

- from 80 cm³ to 200 cm³ for emergency operation mode (manual steering without servo-amplifying;
 - from 100 cm³ to 500 cm³ for normal operation mode (with total flow amplifying).

There is no servo-amplifying of flow if low steering speed up to 10 RPM is applied. In steering speed increase over 20 RPM there is total servo-amplifying of flow. In this mode gear wheel set flow and restrictor flow are added.

VARIABLE AMPLIFYING FACTOR





"Open Center - Non Load Reaction" HKUQ.../4

SPECIFICATION DATA

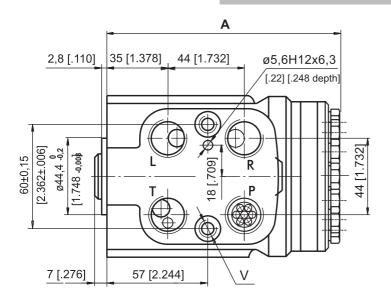
											Tv	ре									
Parameters		HKUQ 80//4				HKUQ 100//4				HKUQ 125//4			HKUQ 160//4			HKUQ 200//4					
Displacement - without servo-amplifying (in emergency mode) cm³/rev		79,2 [4.83]			99,0 [6.04]				123,8 [7.56]			158,4 [9.67]			198 [12.08]						
- with servo-amplifing	[in³/rev]	100	125	160	200	125	160	200	250	160	200	250	320	200	250	320	400	250	320	400	500
		[6.10]	[7.6 2]	[9.76]	[12.4]	[7.6 2]	[9.76]	[12.2]	[15.2]	[9.76]	[12.3]	[15.2]	[19.5] 2	[12. 2]	[15.2]	[19.5]2	[24.4	[15.2]	[19.5]2	[24.4	[30.\$
Rated Flow*	l/min	10	12,5	16	20	12,5	16	20	25	16	20	25	32	20	25	32	40	25	32	40	50
	[GPM]	[2.64	[3.30]	[4.23]	[5.28]	[3.30]	[4.23]	[5.28]	[6.6¶	[4.23]	[5.28]	[6.6]	[8.45]	[5.28]	[6.6¶	[8.45]	[10.5]	[6.60]	[8.45]	[10.5]	[13.2]
Amplifying Factor																					
(at shaft revolution over	r 20 min ⁻¹)	1,3	1,5	2,0	2,5	1,3	1,5	2,0	2,5	1,3	1,5	2,0	2,5	1,3	1,5	2,0	2,5	1,3	1,5	2,0	2,5
Rated Pressure	ıre bar [PSI] 170 [2465]																				
Max. Cont. Pressure																					
in Line T	bar [PSI]		25 [363]																		
Max. Torque at		3																			
Servoamplifying	Nm [lb-in]	[26]																			
Max. Torque w/o																					
Servoamplifying	Nm [lb-in]	120 [1065]																			
Weight, avg.	kg [lb]	5,6 [12.4]			5,7 [12.6]				5,8 [12.8]			6,0 [13.2]			6,3 [13.9]						
Dimension A mm [in] 136,2 [5.36]			138,8 [5.47]			142,2 [5.60]			146,8 [5.78]			152,2 [5.99]									

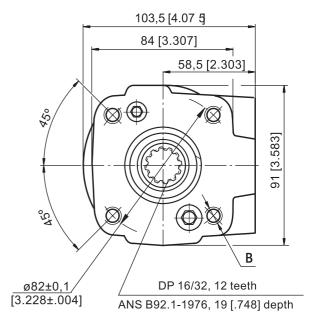
Rated Flow at 100 RPM.





DIMENSIONS AND MOUNTING DATA





c o d e	Ports - P*, T, R, L	Column Mounting	Valve Mounting
	Thread	Thread - B	Thread - V
-	G1/2	4 x M10	2 x M10x1
	17 [.67] depth	18 [.71] depth	16[.63] depth
М	M22x1,5	4 x M10	2 x M10x1
	17 [.67] depth	18 [.71] depth	16 [.63] depth
Α	3/4 - 16 UNF	4 x 3/8 - 16 UNC	2 x 3/8 - 24 UNF
	O-ring 17 [.67] depth	15,7 [.62] depth	14,2 [.56] depth



ORDER CODE for HKUQ...

	1		2		3		4	5	6
HKUQ		1		1	4	-			

Pos.1 -Displacement code Pos.3 - Versions - 79,2 [4.83] cm³/rev [in³/rev] - Version 4Open Center - Non Load Reaction **100** - 99,0 [6.04] cm³/rev [in³/rev] Pos.4 -Ports **125** - 123,8 [7.56] cm³/rev [in³/rev] omit - BSPP (ISO 228) **160** - 158,4 [9.67] cm³/rev [in³/rev] - SAE (ANSI B 1.1 - 1982) **200** - 198,0 [12.10] cm³/rev [in³/rev] - Metric (ISO 262) Pos.2 - Displacement with amplifying factor Pos.5 -Option (Paint)** 1,3; 1,5; 2,0 or 2,5 - No Paint 100 | 125 | 160 | 200 80 - Painted Low Gloss Color 100 - Corrosion Protected Paint 125 160 Pos.6 - Design Series 200 omit - Factory specified 250 ■ k=1.3 320 ■ k=1,5 **NOTES:** 400 ■ k=2,0 Exemplary designation of steering unit with displacement 500 ■ k=2,5 200 cm³ and amplifying factor 2,5: HKUQ 200/500/4

The steering units are mangano-phosphatized as standard.



** Colour at customers request.

^{*}Threaded Ports P min 16 [.63] depth for pipe mounting.