HYDROSTATIC STEERING UNIT TYPE HKUQ.../4



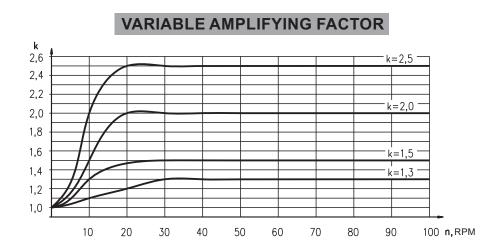
HKUQ.../4 is a new series of hydrostatic steering units with an additionally increased flow. The hydrostatic steering unit type HKUQ.../4 is available for steering medium and large sized vehicles, allowing easy control either in servo-amplified mode or in emergency operation.

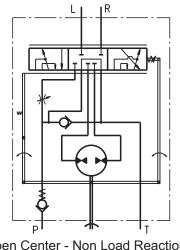
HKUQ.../4 is an "Open Center-Non Load Reaction" hydrostatic steering in which restrictor for amplifying factor from 1,3 to 2,5 is built-in.

In accordance with the size of the gear wheel set and amplifying factor, HKUQ...4 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.





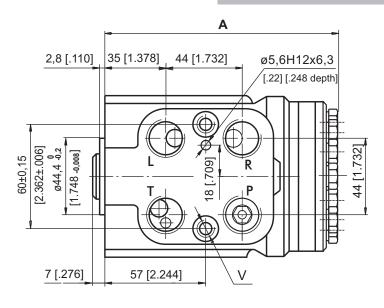
"Open Center - Non Load Reaction" HKUQ.../4

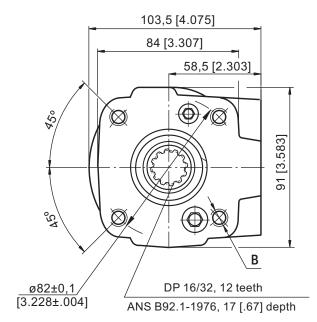
SPECIFICATION DATA

			Туре																		
Parameters		HKUQ 80//4				HKUQ 100//4				HKUQ 125//4			HKUQ 160//4			HKUQ 200//4					
Displacement - without servo-amplifyin (in emergency mode)	ng cm³/rev	79,2 [4.83]				99,0 [6.04]				123,8 [7.56]			158,4 [9.67]			198 [12.08]					
- with servo-amplifying		100	125			125	160	200	250	160	200		320	200	250	320	400	250	320	400	500
- · · · ·	[in ³ /rev]		[7.62]																		
Rated Flow*	l/min		12,5	16	20	12,5		20	25	16	20	25	32	20	25	32	40	25	32	40	50
	[GPM]	[2.64]	[3.30]	[4.22]	[5.28]	[3.30]	[4.22]	[5.28]	[6.60]	[4.22]	[5.28]	[6.60]	[8.45]	[5.28]	[6.60]	[8.45]	[10.57]	[6.60]	[8.45]	[10.57]	[13.21]
Amplifying Factor																					
(at shaft revolution over	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	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		400 [4005]																			
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 od 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	4	-			

Pos.1 - Displacement code Pos.3 - Versions - 79,2 [4.83] cm³/rev [in³/rev] - Version 4 "Open 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) - Metric (ISO 262) **200** - 198,0 [12.10] cm³/rev [in³/rev] Pos.5 - Option (Paint)** Pos.2 - Displacement with amplifying factor 1,3; 1,5; 2,0 or 2,5 omit - No Paint 100 | 125 | 160 | 200 80 - Painted 100 PC - Corrosion Protected Paint - Special Paint*** 125 PCS - Special Corrosion Protected Paint*** 160 200 Pos.6 - Design Series 250 ■ k=1.3 omit - Factory specified 320 ■ k=1,5 **NOTES:** Exemplary designation of steering unit with displacement 400 ■ k=2,0 200 cm³ and amplifying factor 2,5: HKUQ 200/500/4 500 ■ k=2,5

The steering units are mangano-phosphatized as standard.

** Colour at customer's request.

*** Non painted feeding surfaces, colour at customer's request.

^{*}Threaded Ports P min 15 [.59] depth for pipe mounting.