## **HYDROSTATIC STEERING UNIT TYPE HKU.../7 -**

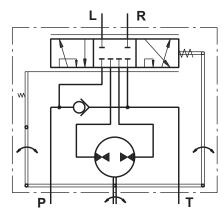


The HKU.../7 is a "Closed Center - Non Load Reaction" hydrostatic steering unit, designed for integration into systems with built-in hydroaccumulator, achieving minimal energy losses.

When connecting to a differential cylinder the L and R ports of the steering unit must be connected as follows: L to the greater piston area, and R - to the smaller one.

For the "Closed Center - Non Load Reaction" and "Closed Center - Non Reaction and Load Sensing" steering units is possible to observe Thermal Shock - condition caused when the hydraulic system has operated for some time without turning the steering wheel, causing the fluid in the reservoir and

the system to heat up while the steering unit is relatively cool (i.e. there is more than 500F [100C] difference in the temperature). If, under the condition of Thermal Shock, the steering wheel is turned very quickly, it is possible to experience temporary seizure and have the internal parts of the steering unit damaged. The temporary seizure may be followed by a total free wheeling.



"Closed Center - Non Load Reaction" Version 7 - HKU.../7

## **SPECIFICATION DATA**

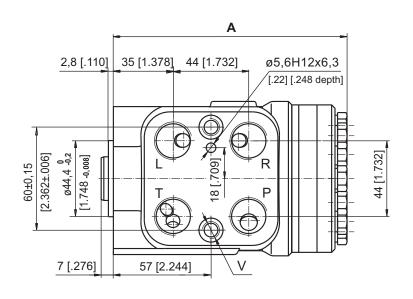
		Туре													
Paramete	ers	HKU 40/7	HKU 50/7	HKU 63/7	HKU 80/7	HKU 100/7	HKU 125/7	HKU 160/7	HKU 200/7	HKU 250/7	HKU 320/7	HKU 400/7	HKU 500/7	HKU 630/7	HKU 800/7
Displacement	cm³/rev	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8	396	495	623,6	793
	[in³/rev]	[2.42]	[3.0]	[4.0]	[4.83]	[6.04]	[7.56]	[9.67]	[12.1]	[15.1]	[19.3]	[24.2]	[30.2]	[38.05]	[48.4]
Rated Flow*	lpm	4	5	6	8	10	13	16	20	25	32	40	50	63	80
	[GPM]	[1.1]	[1.3]	[1.6]	[2.1]	[2.6]	[3.4]	[4.2]	[5.3]	[6.6]	[8.4]	[10.6]	[13.2]	[16.6]	[21.1]
Rated Pressure	bar	125	140					1	75						
	[PSI]	[1810]	[2030]					[25	540]						
Max. Cont. Press	ure														
in Line T	bar [PSI]														
- standard								25	[363]						
- high pressure (H option)		40 [580]													
Max. Torque at															
Servoamplifying	Nm [lb-in]														
- with standard springs		3,0 [26]													
- with soft springs	(LT option)				1	,8 [16]							-		
Max. Torque w/o								1	20						
Servoamplifying	Nm [lb-in]							[10	065]						
Weight	kg	5,3	5,4	5,5	5,6	5,7	5,8	6,0	6,3	6,5	7,0	7,4	8,0	8,7	9,6
	[lb]	[11.7]	[11.9]	[12.2]	[12.4]	[12.6]	[12.8]	[13.2]	[13.9]	[14.3]	[15.4]	[16.3]	[17.6]	[19.2]	[21.2]
Dimension A	mm	130,8	132,2	133,9	136,2	138,8	142,2	146,8	152,2	158,8	168,2	178,8	192	209,3	232,2
	[in]	[5.15]	[5.20]	[5.27]	[5.36]	[5.47]	[5.60]	[5.78]	[5.99]	[6.25]	[6.62]	[7.04]	[7.56]	[8.24]	[9.14]

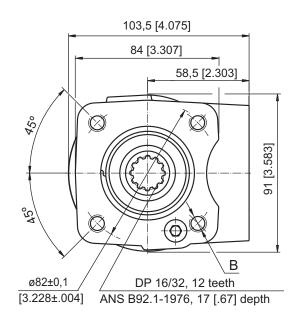
<sup>\*</sup> Inlet flow providing maximum speed of rotation:

- 100 RPM from HKU40 to HKU630;
- 87 RPM for HKU800.



## **DIMENSIONS AND MOUNTING DATA - HKU.../3, 4, 7**

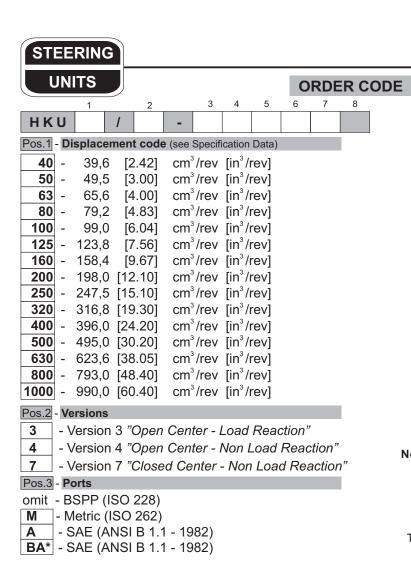






c od e	Ports - P, T, R, L	Column Mounting	Valve Mounting
	Thread	Thread - B	Thread - V
-	G1/2	4 x M10	2 x M10x1
	17 [.67] depth	18 [.71] depth	16[.63 ] depth
М	M22x1,5	4 x M10	2 x M10x1
	17 [.67] depth	18 [.71] depth	16 [.63] depth
Α	3/4 - 16 UNF	4 x 3/8 - 16 UNC	2 x 3/8 - 24 UNF
	O-ring 17 [.67] depth	15,7 [.62] depth	14,2 [.56] depth
BA*	9/16 - 18 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

<sup>\*</sup> These threads are for displacements from HKU40 to HKU200 only.



Pos.4 - Max. Cont. Pressure in line T
omit - Standard
H - High pressure
Pos.5 - Input torque
omit - Standard
LT* - Low
Pos.6 - Noise level
omit - Standard
LN** - Low
Pos.7 - Option (Paint)***
omit - No Paint
P - Painted
PC - Corrosion Protected Paint
PS - Special Paint****
PCS - Special Corrosion Protected Paint****
Pos.8 - Design Series
omit - Factory specified

Notes: \* Available only for displacement from 40 to 200.

\*\* Available only for versions 3 and 4 with displacement from 40 to 200.

\*\*\* Colour at customer's request.

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

The steering units are mangano-phosphatized as standard.