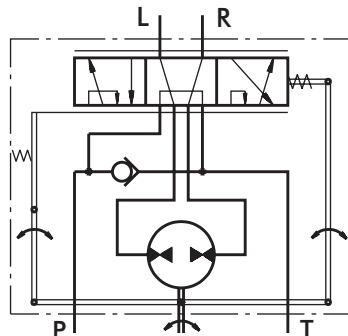


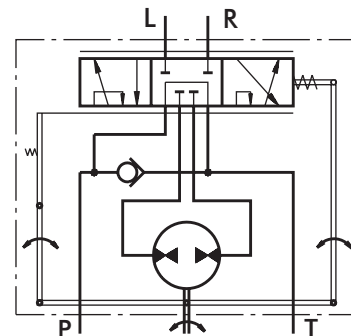
HYDROSTATIC STEERING UNITS TYPE HKU.../3, 4 - Series 2



The newly designed HKU steering units, with radial distribution, incorporate two rotary tracing valves in the housing, which turn on the metering pump.



"Open Center - Load Reaction"
Version 3 - HKU.../3

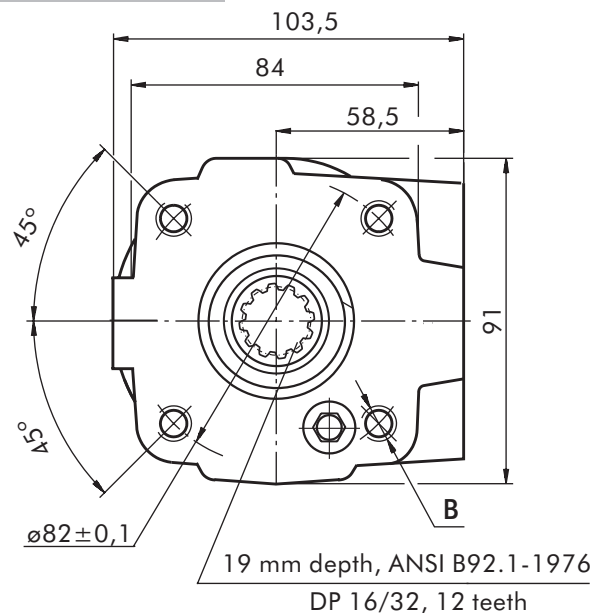
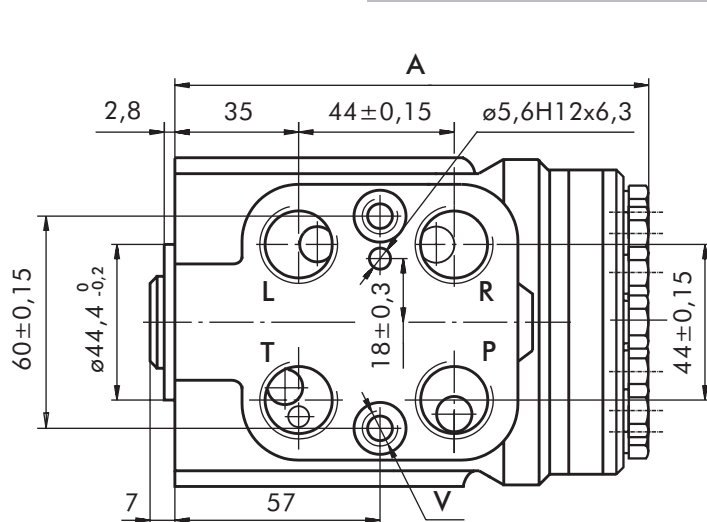


"Open Center - Non Load Reaction"
Version 4 - HKU.../4

SPECIFICATION DATA

Parameters	Type															
	HKU 40/3	HKU 50/3	HKU 63/3	HKU 80/3	HKU 100/3	HKU 125/3	HKU 160/3	HKU 200/3	HKU 250/3	HKU 320/3	HKU 400/3					
	HKU 40/4	HKU 50/4	HKU 63/4	HKU 80/4	HKU 100/4	HKU 125/4	HKU 160/4	HKU 200/4	HKU 250/4	HKU 320/4	HKU 400/4	HKU 500/4	HKU 630/4	HKU 800/4	HKU 1000/4	
Displacement [cm ³ /rev]	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8	396	495	618,7	793	990	
Rated Flow [l/min]		6		9		12		17	24	30	40	50	63	80		
Rated Pressure [bar]	160												140		100	
Max. Cont. Pressure in Line T - P _T [bar]	25															
Max. Torque at Servoamplifying [Nm]	6 (by P _{T max})															
Max. Torque w/o Servoamplifying [Nm]	120															
Weight, avg. [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	10,6	
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	258,6	

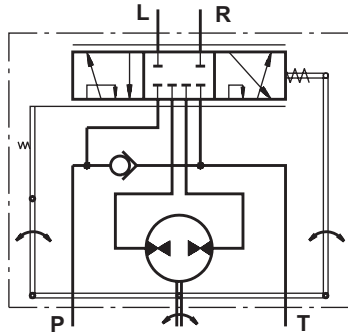
DIMENSIONS AND MOUNTING DATA



* The ports are shown in the Table of page 7.

HYDROSTATIC STEERING UNIT TYPE HKU.../7 - Series 2

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.



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

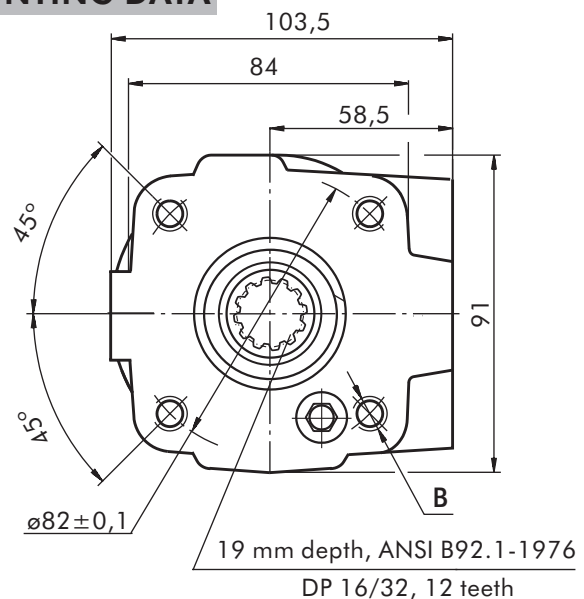
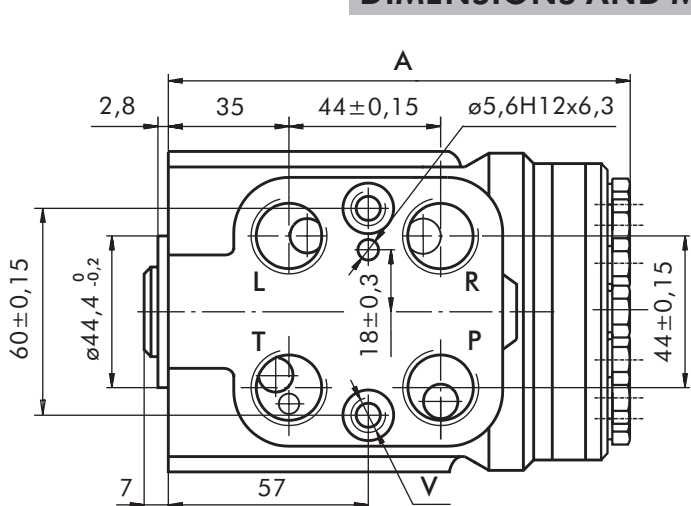
When connecting to a differential cylinder the L and R ports of the steering unit must be connected as follows: L to the greater piston area, and R - to the smaller one.

For the "Closed Center - Non Load Reaction" and "Closed Center - Non Reaction and Load Sensing" steering units it 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 50°F [10°C] 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.

SPECIFICATION DATA

Parameters	Type													
	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, [cm ³ /U]	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8	396	495	618,7	793
Rated Flow, [l/min]	4	5	6	9		12		17	24	30	40	50	63	80
Rated Pressure, [bar]	175													
Max. Cont. Pressure in Line T, [bar]	20													
Max. Torque at Servoamplifying, [Nm]	6 (by P _T max)													
Max. Torque w/o Servoamplifying, [Nm]	120													
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
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

DIMENSIONS AND MOUNTING DATA



* The ports are shown in the Table of page 7.

THREADED PORTS

Code	Ports - P, T, R, L Thread	Column Mounting Thread - B	Valve Mounting Thread - V
-	G1/2 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth
A	3/4 - 16 UNF O-ring 17 mm depth	4x 3/8 - 16 UNC 15,7 mm depth	2 x 3/8 - 24 UNF 14,2 mm depth
M	M22x1,5 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth

ORDER CODE

	1	2	3	4	5
H K U		/	-		

Pos.1 - Displacement code (see Specification Data)

40	- 39,6 [cm ³ /rev]
50	- 49,5 [cm ³ /rev]
63	- 65,6 [cm ³ /rev]
80	- 79,2 [cm ³ /rev]
100	- 99,0 [cm ³ /rev]
125	- 123,8 [cm ³ /rev]
160	- 158,4 [cm ³ /rev]
200	- 198,0 [cm ³ /rev]
250	- 247,5 [cm ³ /rev]
320	- 316,8 [cm ³ /rev]
400	- 396,0 [cm ³ /rev]
500	- 495,0 [cm ³ /rev]
630	- 618,7 [cm ³ /rev]
800	- 792,0 [cm ³ /rev]
1000	- 990,0 [cm ³ /rev]

Pos.2 - Versions

3	- Version 3 "Open Center - Load Reaction"
4	- Version 4 "Open Center - Non Load Reaction"
7	- Version 7 "Closed Center - Non Load Reaction"

Pos.3 - Ports

omit	- BSPP (ISO 228)
A	- SAE (ANSI B 1.1 - 1982)
M	- Metric (ISO 262)

Pos.4 - Option (Paint)*

omit	- No Paint
P	- Painted
PC	- Corrosion Protected Paint

Pos.5 - Design Series

omit	- Factory specified
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NOTES:

* Colour at customer's request.

The steering units are mangano-phosphatized as standard.

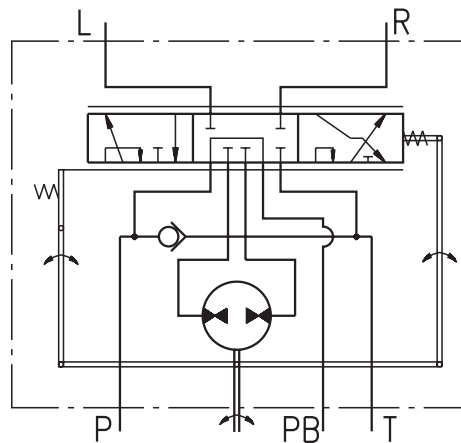
HYDROSTATIC STEERING UNIT TYPE HKU.../4PB- Series 2 –



The hydrostatic steering unit is available for steering medium and large sized transport vehicles as building and agricultural machines.

HKU.../4PB works as standard steering unit with auxiliary port destined for flow providing additional vehicles functions. When the steering wheel is not turned, the flow will be delivered to port PB. After steering wheel has been turned a part of flow will be deviated to the steering unit and the flow trough port PB will be inconstant.

It is not recommended to use this unit in systems with auxiliary functions during the vehicle steering.



"Open Center - Non Load Reaction"
HKU.../4PB - Power Beyond

SPECIFICATION DATA

Parameters	Type					
	HKU 40/4PB	HKU 50/4PB	HKU 63/4PB	HKU 80/4PB	HKU 100/4PB	HKU 125/4PB
Displacement, [cm ³ /rev]	39,6	49,5	65,6	79,2	99,0	123,8
Rated Flow -5 Port (Power Beyond) [l/min]	15					
Rated Pressure, [bar]	125					
Max. Pressure in Line PB, [bar]	125					
Max. Cont. Pressure in Line T - P _T , [bar]	10					
Max. Torque at Servoamplifying, [Nm]	2,8 (by P _{T,max})					
Max. Torque w/o Servoamplifying, [Nm]	135					
Weight, [kg]	5,3	5,4	5,5	5,6	5,7	5,8
Dimension A, [mm]	130,8	132,2	133,9	136,2	138,8	142,2