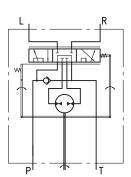
HYDROSTATIC STEERING UNITS TYPE HKUM.../4(PB)



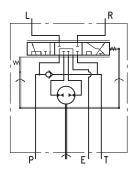
M+S Hydraulic expands its range of hydrostatic steering units with mini steering units, which are used in lawn and garden machines, minitracktors and municipal vehicles.

HKUM.../4 is open centre steering units in neutral position have open connection between pump and tank.

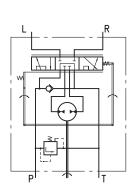
HKUM.../4PB works as standard steering unit with auxiliary port designed for flow providing additional vehicles functions. When the steering wheel is not turned, the flow will be delivered to port PB. After the steering wheel has been turned a part of the flow will be deviated to the steering unit and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



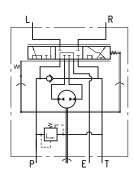
"Open Center - Non Load Reaction" HKUM.../4



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

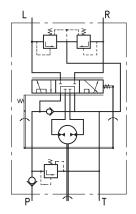


"Open Center - Non Load Reaction" HKUMR.../4

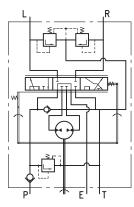


"Open Center - Non Load Reaction" HKUMR.../4PB - Power Beyond

SPECIFICATION DATA



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



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

🗚 M4S HYDRAULIC

	Туре											
Parameters	HKUM 32/4(PB)	HKUM 40/4(PB)	HKUM 50/4(PB)	HKUM 63/4(PB)	HKUM 70/4(PB)	HKUM 80/4(PB)	HKUM 100/4(PB)					
Displacement	cm ³ /rev [in ³ /rev]	31,8 [1.94]	40 [2.44]	50 [3.05]	63 [3.84]	70 [4.27]	80 [4.88]	100 [6.10]				
Rated Flow* Ipm		3,2 [.85]	4,0 [1.06]	5,0 [1.32]	6,0 [1.59]	7,0 [1.85]	8,0 [2.11]	10,0 [2.64]				
Max. recomended oil frow	20 [5.3]											
Rated Pressure	bar [PSI]	125 [1810]										
Relief Valve Pressure Settings	s** bar [PSI]	60 [870]	70 [1015]	80 [1160]	90 [1305]	100 [1450]	110 [1595]	125 [1810]				
Shock Valves Pressure Settings*** bar [I		120 [1740]	130 [1885]	140 [2030]	150 [2175]	160 [2320]	170 [2465]	185 [2683]				
Max. Cont. Pressure in Line T	20 [290]											
Max. Torque at Servoamplifing	2,0 [17.7]											
Max. Torque w/o Servoamplifi	80 [708]											
Weight, kg [lb] for	Weight, kg [lb] for HKUM/4		2,4 [5.3]	2,5 [5.5]	2,6 [5.7]	2,65 [5.84]	2,7 [5.95]	2,9 [6.39]				
for	2,6 [5.7]	2,7 [5.9]	2,8 [6.2]	2,9 [6.4]	2,95 [6.5]	3,0 [6.6]	3,2 [7.1]					

* Rated Flow at 100 RPM.

** Pressure Settings are at flow rate of 12 I/min [3.17 GPM] and viscosity 21 mm²/s [105 SUS] at 50°C [120°F].

*** Pressure Settings are at flow rate of 1 I/min [.26 GPM] and viscosity 21 mm²/s [105 SUS] at 50°C [120°F].



STEER	RING													
UN	ITS		C		CODE	E for	HKUM	/4(PB	3)					
НК		2	3	4		5		6 7	8					
пк		/		-	-		-							
Pos.1	- Option						Pos.4	- Relief	Valve	Pres	ssure	Settin	gs* [bar]
	Relief	Check Valve	Shock				60	70	80	90	100	110	125	
	Valve	in P-port		_			Pos.5	- Shaft '	Versio	ons				
omit	no	build-in va	lves	_			omit	- Spline						
R	•			_			K1	- Tapere	ed 1:20), key	, 5x6,5	5 DIN 6	8888	
S	•	•	•				K2	- Tapere	ed 1:12	2, with	n 11/1	6 in-40	serration	าร
Pos.2	- Displac	ement co	de				Pos 6	- Ports						
32	- 31,8 cn	n³/rev [1.94	4 in³/rev]				A	- ORFS	main r	norts	- 150	8434-	3	
40	- 40,0 cn	n³/rev [2.44	4 in³/rev]								100	0-10-1	0	_
50	- 50,0 cn	n³/rev [3.05	5 in³/rev]				Pos.7		`	nt)**				
63	- 63,0 cn	n³/rev [3.84	4 in³/rev]					- no Pai	nt					
70	- 70,0 cn	n ³ /rev [4.27	7 in³/rev]				Р	- Painte	d					
80	- 80,0 cn	n³/rev [4.88	3 in³/rev]				PC	- Corros	sion Pro	otect	ed Pa	int		
100	- 100,0 cn	n³/rev [6.10) in³/rev]				Pos.8 - Design Series							
Pos.3	- Version	S					omit	- Factor	v spec	ified				
4	- "Open C	enter - No	n Load Re	eaction"					5					
4PB	- "Open C with 5 p	center - No orts (Powe	n Load Re er Beyond,	eaction"			Notes	** Colo The	our at c	custo ng un	mer's	reque		sphatized

ORDER CODE for HKUM.../5DT

											-						
	1	2	3	4		5		6		7	8	9					
НΚ	UM	1	5D	Т	-		-		-								
Pos.1	- Option							Po	s.5 -	Relie	f Valv	ve Pr	essure	e Setti	ings	[bar]	
	Relief Valve	Check Valve in P-port	Shoc Valve							70	80	90	100	110	12	25	
R	•	•						Po	5.6 -	Shaft	vers	sions					
S	•	•	•					or	nit	Spline	ed B1	7x14	DIN 5	482			
	D's des							K 1		Taper	ed 1:	20, ke	ey 5x6	,5 DIN	6888	3	
		ement co						K	2 -	Taper	ed 1:	12, w	ith 11/*	16 in-4	0 ser	rrations	
		m³/rev [1.94	-						-7								
40	- 40,0 cr	m³/rev [2.44	1 in³/rev]					Po		Ports							
50	- 50,0 cr	m³/rev [3.05	5 in³/rev]					Α	-	ORFS	s mai	n por	ts - ISC	D 8434	-3		
63	- 63,0 cr	m³/rev [3.84	1 in³/rev]					Po	s 8 -	Optio	n (Pa	aint)*					
70	- 70,0 cr	m³/rev [4.27	7 in ³ /rev]							no Pa	,	anny					
80	- 80,0 cr	m³/rev [4.88	3 in³/rev]					-									
100	- 100,0 cr	m³/rev [6.10) in ³ /rev]					P		Painte							
Pos 3	- Version	-	-					PC	-	Corro	sion I	Prote	cted Pa	aint			
								Po	s.9 -	Desig	ın Se	eries					
5D	- Version	5 "Close Ce and Dyna				on				Facto			d				
Pos.4	- Priority	Valve Cor	nnection	า													
Т	- Pipe Mc	ounting						Not	es: *		steeri	ing ur		reques mang		phosphatiz	<u>r</u> ed

-33

