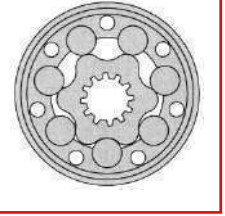




Model PHDH



The PHDH hydraulic motor is a high-torque, low-speed hydraulic motor that is designed for use in mobile and industrial applications. It is typically used in applications such as winches, hoists, conveyors, and other hydraulic systems where high torque output is required.

The motor is constructed with a housing made from durable materials and features a radial piston design. The piston design allows for high torque output and low speed operation, making it ideal for use in demanding applications. The motor is capable of operating in either a clockwise or counterclockwise direction, providing versatility in the field.

One of the key features of the PHDH hydraulic motor is its ability to maintain high efficiency even under high loads. The motor is also designed to be maintenance-free, with a sealed construction that helps prevent contamination and extends the life of the motor.

In addition to its rugged design, the PHDH hydraulic motor is also known for its smooth operation, making it an ideal choice for applications where smoothness and precision are required. The motor is also capable of operating over a wide range of temperatures, providing reliable performance in a variety of environments.

Overall, the PHDH hydraulic motor is a highly reliable and efficient hydraulic motor that is well-suited for a wide range of demanding applications in both mobile and industrial settings.

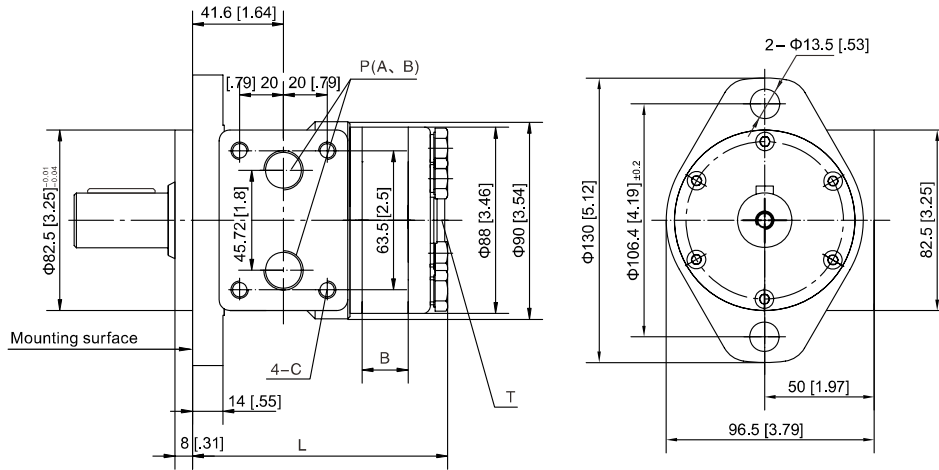
MAIN SPECIFICATIONS

		PHDH 50	PHDH 80	PHDH 100	PHDH 125	PHDH 160	PHDH 200	PHDH 250	PHDH 315	PHDH 400	
Displacement	m ³ /r cc	49.3	76.6	95.8	120.4	153.2	191.6	240.8	306.5	383.1	
	[in ³ ./rev.]	[3.01]	[4.67]	[5.85]	[7.35]	[9.35]	[11.69]	[14.69]	[18.70]	[23.38]	
Max.Pressure.Drop	cont.	105	105	105	105	105	105	90	70	70	
		bar	[1522.5]	[1522.5]	[1522.5]	[1522.5]	[1522.5]	[1522.5]	[1305]	[1015]	[1015]
	int.	140	140	140	140	140	140	115	105	90	
		bar	[2030]	[2030]	[2030]	[2030]	[2030]	[1675]	[1522.5]	[1305]	
	peak.	80	180	180	180	180	180	150	140	110	
		bar	[2610]	[2610]	[2610]	[2610]	[2610]	[2175]	[2030]	[1595]	
Max.Torque	cont.	65	105	130	160	205	255	275	305	335	
		n.m	[576]	[938]	[1167]	[1455]	[1842]	[2295]	[2456]	[2689]	[2913]
	int.	90	140	175	220	280	350	360	410	429	
		n.m	[791]	[1241]	[1553]	[1944]	[2451]	[3122]	[3187]	[3606]	[3787]
	peak.	115	180	225	285	366	455	475	560	550	
		n.m	[1003]	[1607]	[2017]	[2499]	[3201]	[4041]	[4197]	[4980]	[4895]
Max.Speed	cont.	810	520	415	330	260	205	165	125	100	
		r/min									
Max.Flow	cont.	40	40	40	40	40	40	40	40	40	
		L/min	[10.57]	[10.57]	[10.57]	[10.57]	[10.57]	[10.57]	[10.57]	[10.57]	[10.57]
		G/min									
Max.Output.Power	cont.	4.5	4.8	4.8	4.8	4.8	4.6	4	3.5	3	
		kw	[6.03]	[6.44]	[6.44]	[6.44]	[6.44]	[6.17]	[5.36]	[4.69]	[4.02]
		[hsp]									

Intermittent operation the permissible values may occur for max. 10% of every minute

Peak load: the permissible values may occur for max. 1% of every minute

DIMENSIONS AND MOUNTING



PHDH

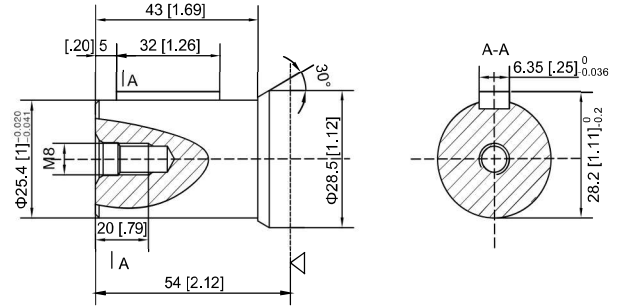
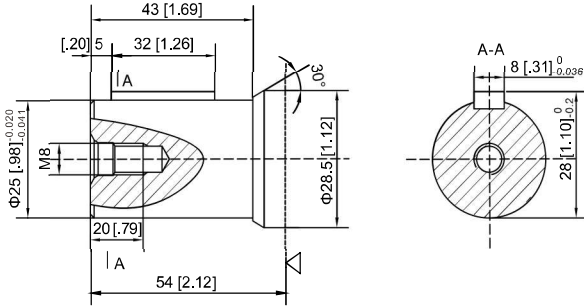
	PHDH 50	PHDH 80	PHDH 100	PHDH 125	PHDH 160	PHDH 200	PHDH 250	PHDH 315	PHDH 400
L	107 [4.21]	112 [4.41]	115.5 [4.55]	120 [4.72]	126 [4.96]	133[5.24]	142 [5.59]	154 [6.06]	168 [6.61]
B	9 [.35]	14 [.55]	17.5 [.69]	22 [.87]	28 [1.10]	35 [1.38]	44 [1.73]	56 [2.20]	70 [2.75]

Port Codes	Ports (A,B)	Mounting Thread (C)	Drain Connection (T)
Y	G1/2 (15)	M8 (13)	M14x1.5 (12)
Y1	M18x1.5 (15)	M8 (13)	M14x1.5 (12)
Y2	M22x1.5 (15)	M8 (13)	M14x1.5 (12)
Y9	NPTF1/2 (15)	5/16-18UNC (13)	7/16-20UNF (12)
Y10	G1/2 (15)	M8 (13)	G1/4 (12)
Y15	7/8-14UNF (15)	5/16-18UNC (13)	7/16-20UNF (12)

Note:P(A, B)--Ports, C--Mounting Thread (—Indicates no this thread) , T--Drain connetion

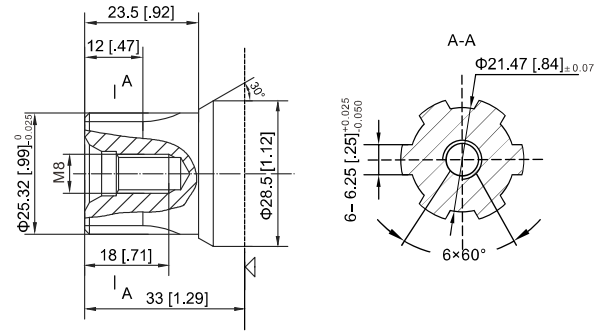
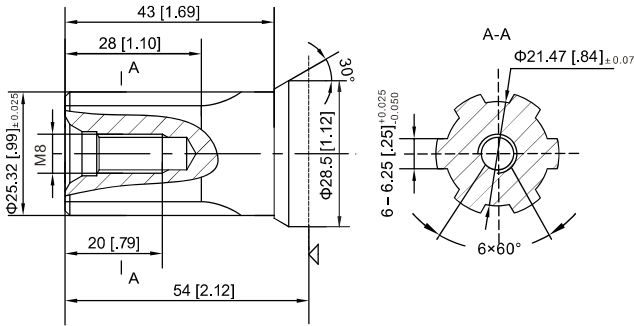
P1 : Φ [.98] Cylindrical shaft, parallel key [.31] x [.27] x [1.26]
 Φ 25 Cylindrical shaft, parallel key 8x7x32

P3 : Φ [1] Cylindrical shaft, parallel key [.25] x [.25] x [1.26]
 Φ 25.4 Cylindrical shaft, parallel key 6.35x6.35x32



H3 : Φ [.99] Splined shaft, 6 – [.99] x [.84] x [.25]
 Φ 25.3 Splined shaft, 6–25.32 x 21.47 x 6.25

H5 : Φ [.99] Splined shaft, 6 – [.99] x [.84] x [.25]
 Φ 25.3 Splined shaft, 6–25.32 x 21.47 x 6.25





ORDERING CODE

1	2	3	4	5	6	7
PHDH	—				—	—

Pos.1	2	3		4		5		6		7			
Series	Disp	Output		Flange		Code	Ports		Special features	Rotation direction			
							Ports(A,B)(deep)	Drain port T(deep)					
PHDH	50	P1	Φ[.98] Cylindrical shaft, parallel key [.31] x [.27] x [1.26]		A2	2 – Φ[.53] Oval flange pilot Φ[3.25] x [.31] 2 – Φ13.5 Oval flange pilot Φ82.5 x 8	Y	G1/2 (15)	M14x1.5 (12)	Omit	Standard	Omit	Standard
	80		Φ 25 Cylindrical shaft, parallel key 8x7x32				Y1	M18x1.5 (15)	M14x1.5 (12)				
	100	P3	Φ[1] Cylindrical shaft, parallel key [.25] x [.25] x [1.26]				Y2	M22x1.5 (15)	M14x1.5 (12)				
	125		Φ 25.4 Cylindrical shaft, parallel key 6.35x6.35x32				Y9	NPTF1/2 (15)	7/16-20UNF (12)				
	160	H3	Φ[.99] Splined shaft, 6 – [.99] x [.84] x [.25]				Y10	G1/2 (15)	G1/4 (12)				
	200		Φ25.3 Splined shaft, 6-25.32x21.47x6.25				Y15	7/8-14UNF (15)	7/16-20UNF (12)				
250	H5	Φ[.99] Splined shaft, 6 – [.99] x [.84] x [.25]											
315		Φ25.3 Splined shaft, 6-25.32x21.47x6.25											
400													