

Model PHDMM

Introducing the PHDMM hydraulic motor - the perfect solution for your heavy-duty power needs. Our motor is designed with advanced technology and high-quality materials to deliver superior performance in even the toughest applications. Check out some of the features and benefits of the PHDMM motor:

- **Maximum durability:** The PHDMM motor is built to last, with a rugged design that can withstand even the most demanding environments.
- **High efficiency:** With its advanced technology, the PHDMM motor provides smooth and efficient operation for optimal performance.
- **Powerful performance:** Whether you're powering heavy machinery or industrial equipment, the PHDMM motor provides the power and precision you need to get the job done right.
- **Superior quality:** Our motor is crafted with the highest quality materials and rigorous manufacturing standards, ensuring a long-lasting and reliable solution for your power needs.

Order now and experience the superior quality and performance of the PHDMM motor for yourself.

MAIN SPECIFICATIONS

		PHDMM 8	PHDMM 12.5	PHDMM 20	PHDMM 32	PHDMM 40	PHDMM 50
Displacement	ml/r cc [in ³ ./rev.]	8.2 [.50]	12.9 [.79]	19.9 [1.21]	31.6 [1.93]	39.8 [2.43]	50.3 [3.07]
Max.Pressure.Drop	cont. bar [psi]	100 [1450]	100 [1450]	100 [1450]	100 [1450]	90 [1305]	70 [1015]
	int. bar [psi]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
	peak. bar [psi]	200 [2900]	200 [2900]	200 [2900]	160 [2320]	160 [2320]	160 [2320]
Max.Torque	cont. n.m [Lb.in]	11 [97]	16 [141]	25 [221]	40 [354]	45 [398]	46 [407]
	int. n.m [Lb.in]	15 [132]	23 [203]	35 [309]	57 [504]	70 [619]	88 [778]
	peak. n.m [Lb.in]	21 [185]	33 [292]	51 [451]	64 [566]	82 [725]	100 [885]
Max.Speed	cont. r/min	1950	1550	1005	630	500	395
Max.Flow	cont. L/min [G/min]	16 [4.22]	20 [5.28]	20 [5.28]	20 [5.28]	20 [5.28]	20 [5.28]
Max.Output.Power	cont. kw [hp]	1.8 [2.41]	2.4 [3.21]	2.4 [3.21]	2.4 [3.21]	2.2 [2.95]	1.8 [2.41]
Weight	kg [lbs]	1.9 [4.18]	2 [4.40]	2.1 [4.62]	2.2 [4.85]	2.3 [5.07]	2.4 [5.29]

- **Rated speed and rated torque:** Output value of speed and torque under rated flow and rated pressure.
- **Continuous pressure:** Max. value of operating motor continuously.
- **Intermittent pressure:** Max. value of operating motor in 6 seconds per minute.
- **Peak pressure:** Max. value of operating motor in 0.6 second per minute.



PERFORMANCE DATA

PHDMM 8 (8.2cc)

		[507]	[725]	[1015]	[1450]	[1740]	[2030]	[PSI]		
		35	50	70	100	120	140	BAR	Max cont.	Max int.
[GPM]	[0.53]	[26]	[44]	[71]	[88]	[106]	[124]			
L/min	2	3	5	8	10	12	14			
	[1.06]	[26]	[44]	[62]	[97]	[115]	[133]			
	4	474	471	463	426	391	331			
	[2.11]	[26]	[44]	[62]	[97]	[115]	[133]			
Flow	8	3	5	7	11	13	15			
		953	946	926	884	855	816			
	[3.17]	[18]	[44]	[62]	[88]	[115]	[133]			
	12	2	5	7	10	13	15			
		1444	1426	1402	1360	1324	1288			
	[4.23]		[35]	[62]	[88]	[106]	[124]			
Max cont.	16		4	7	10	12	14		Max cont.	
			1912	1900	1861	1833	1780			
	[5.28]			[53]	[88]	[97]	[124]			
Max int.	20			6	10	11	14		Max int.	
				2395	2350	2328	2281			

PHDMM 12.5 (12.9cc)

		[507]	[725]	[1015]	[1450]	[1740]	[2030]	[PSI]		
		35	50	70	100	120	140	BAR	Max cont.	Max int.
[GPM]	[0.53]	[53]	[71]	[97]	[132]	[168]				
L/min	2	6	8	11	15	19				
	[1.06]	[53]	[71]	[106]	[141]	[168]	[203]			
	4	296	289	274	229	200	145			
	[2.11]	[44]	[71]	[106]	[141]	[177]	[212]			
Flow	8	5	8	12	16	20	24			
		605	596	583	543	514	469			
	[3.17]	[44]	[71]	[97]	[141]	[177]	[212]			
	12	5	8	11	16	20	24			
		912	905	895	859	834	784			
	[3.96]	[44]	[62]	[97]	[142]	[168]	[203]			
Max cont.	15	5	7	11	16	19	23			
		1152	1144	1136	1102	1078	1036			
	[5.28]	[27]	[62]	[88]	[133]	[168]	[195]			
Max cont.	20	3	7	10	15	19	22		Max cont.	
		1542	1532	1521	1500	1482	1437			
	[6.60]	[18]	[53]	[80]	[124]	[159]	[195]			
Max int.	25	2	6	9	14	18	22		Max int.	
		1910	1891	1878	1848	1828	1788			

PHDMM 20 (19.9cc)

		[246]	[507]	[725]	[1015]	[1450]	[1740]	[2030]	[PSI]		
		17	35	50	70	100	120	140	BAR	Max cont.	Max int.
[GPM]	[0.53]	[35]	[80]	[124]	[168]	[212]	[265]				
L/min	2	4	9	14	19	24	30				
	[1.06]	[35]	[80]	[124]	[168]	[212]	[274]	[318]			
	4	4	9	14	19	24	31	36			
	[2.11]	[35]	[80]	[115]	[168]	[221]	[274]	[318]			
Flow	8	4	9	13	19	25	31	36			
		398	395	391	377	340	319	288			
	[3.17]	[27]	[71]	[115]	[159]	[221]	[274]	[327]			
	12	3	8	13	18	25	31	37			
		596	594	588	579	545	523	493			
	[3.96]	[27]	[71]	[106]	[150]	[221]	[265]	[318]			
Max cont.	15	3	8	12	17	25	30	36		Max cont.	
		745	741	738	728	695	684	660			
	[5.28]	[9]	[53]	[97]	[168]	[212]	[256]	[310]			
Max cont.	20	1	6	11	19	24	29	35		Max cont.	
		998	995	991	985	962	916	885			
	[6.60]		[35]	[80]	[124]	[203]	[248]	[292]			
Max int.	25		4	9	14	23	28	33		Max int.	
			1247	1245	1242	1189	1180	1176			

PHDMM 32 (31.6cc)

		[290]	[507]	[725]	[1015]	[1450]	[1740]	[2030]	[PSI]		
		20	35	50	70	100	120	140	BAR	Max cont.	Max int.
[GPM]	[0.53]	[62]	[133]	[186]	[248]	[345]					
L/min	2	7	15	21	28	39					
	[1.06]	[62]	[133]	[186]	[256]	[354]	[424]	[504]			
	4	7	15	21	29	40	48	57			
	[2.11]	[62]	[133]	[186]	[256]	[354]	[433]	[513]			
Flow	8	7	15	21	29	40	49	58			
		250	244	239	231	207	194	167			
	[3.17]	[53]	[115]	[177]	[248]	[354]	[424]	[513]			
	12	6	13	20	28	40	48	58			
		378	374	369	362	338	322	297			
	[3.96]	[35]	[106]	[159]	[239]	[345]	[415]	[504]			
Max cont.	15	4	12	18	27	39	47	57		Max cont.	
		474	472	468	462	441	429	406			
	[5.28]	[27]	[88]	[150]	[221]	[327]	[407]	[486]			
Max cont.	20	3	10	17	25	37	46	55		Max cont.	
		631	630	627	619	601	585	566			
	[6.60]	[9]	[70]	[133]	[203]	[309]	[380]	[460]			
Max int.	25	1	8	15	23	35	43	52		Max int.	
		791	789	787	783	766	753	732			



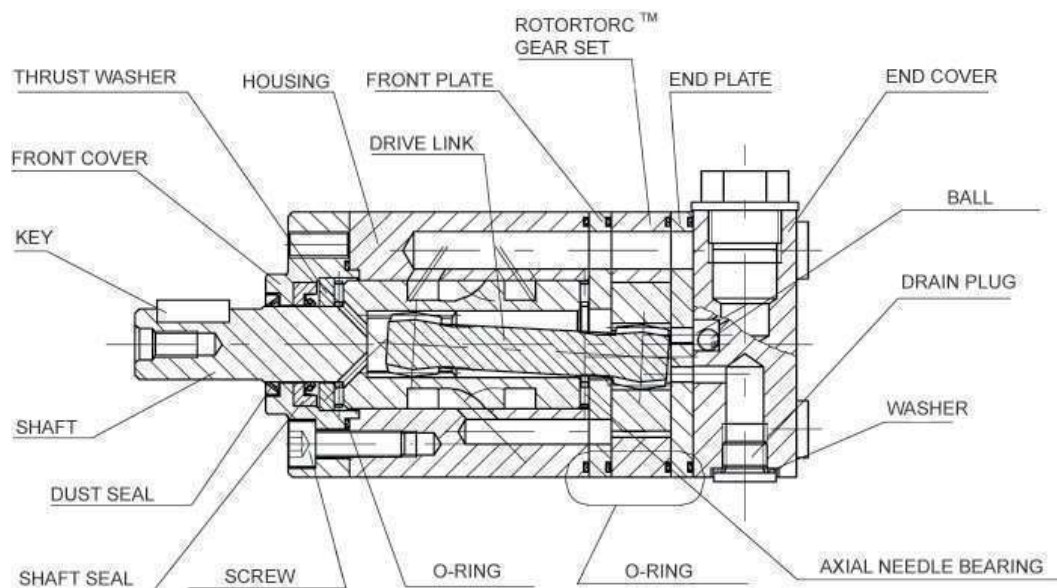
PERFORMANCE DATA

PHDMM 40 (39.8cc) Max cont. Max int.

	[435] 30	[725] 50	[1015] 70	[1305] 90	[1450] 100	[1740] 120	[PSI] BAR	
[GPM] L/min	[0.53] 2	[142] 16 45	[239] 27 40	[318] 36 34	[389] 44 28	[451] 51 17		
	[1.06] 4	[142] 16 96	[239] 27 93	[327] 37 85	[398] 45 79	[548] 62 52	TORQUE [LB-IN] TORQUE N•M SPEED RPM	
Flow	[2.11] 8	[133] 15 197	[230] 26 195	[319] 36 182	[398] 45 176	[460] 52 166	[557] 63 154	
	[3.17] 12	[124] 14 293	[221] 25 287	[310] 35 282	[380] 43 277	[451] 51 268	[548] 62 257	
	[3.96] 15	[115] 13 371	[212] 24 365	[301] 34 360	[371] 42 355	[442] 50 347	[548] 62 338	
Max cont.	[5.28] 20	[88] 10 497	[186] 21 492	[274] 31 487	[345] 39 480	[425] 48 472	[522] 59 463	Max cont.
Max int.	[6.60] 25	[62] 7 622	[168] 19 617	[256] 29 612	[327] 37 607	[389] 44 600	[495] 56 591	Max int.

PHDMM 50(50.3cc) Max cont. Max int.

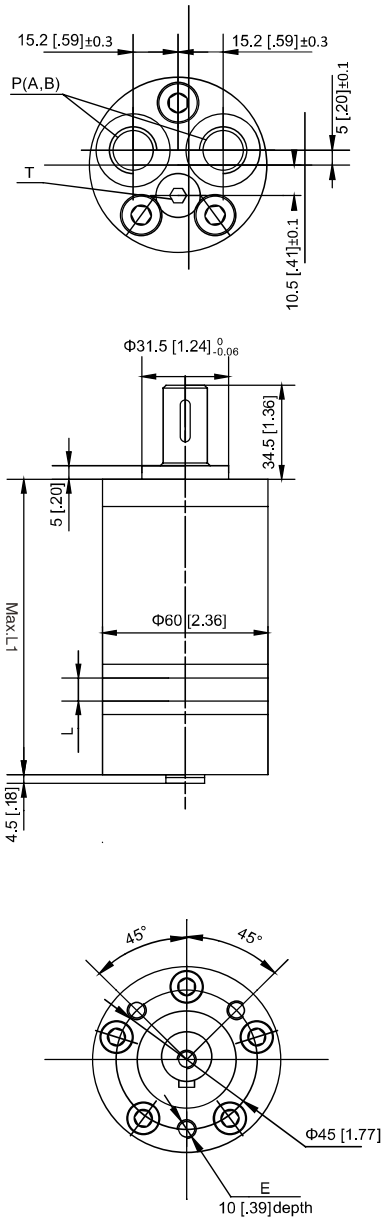
	[217] 15	[435] 30	[725] 50	[1015] 70	[1450] 100	[PSI] BAR	
[GPM] L/min	[0.53] 2	[79] 9 37	[159] 18 33	[283] 32 27	[398] 45 22		
	[1.06] 4	[79] 9 76	[168] 19 73	[292] 33 68	[407] 46 63	[619] 64 55	TORQUE [LB-IN] TORQUE N•M SPEED RPM
Flow	[2.11] 8	[79] 9 157	[168] 19 154	[292] 33 149	[407] 46 145	[566] 64 137	
	[3.17] 12	[79] 9 237	[159] 18 234	[283] 32 231	[407] 46 226	[557] 63 218	
	[3.96] 15	[70] 8 296	[150] 17 295	[274] 31 294	[371] 42 288	[548] 62 282	
Max cont.	[5.28] 20	[53] 6 395	[115] 13 395	[238] 27 393	[354] 40 390	[522] 59 381	Max cont.
Max int.	[6.60] 25	[35] 4 497	[97] 11 496	[221] 25 494	[327] 37 490	[513] 58 484	Max int.



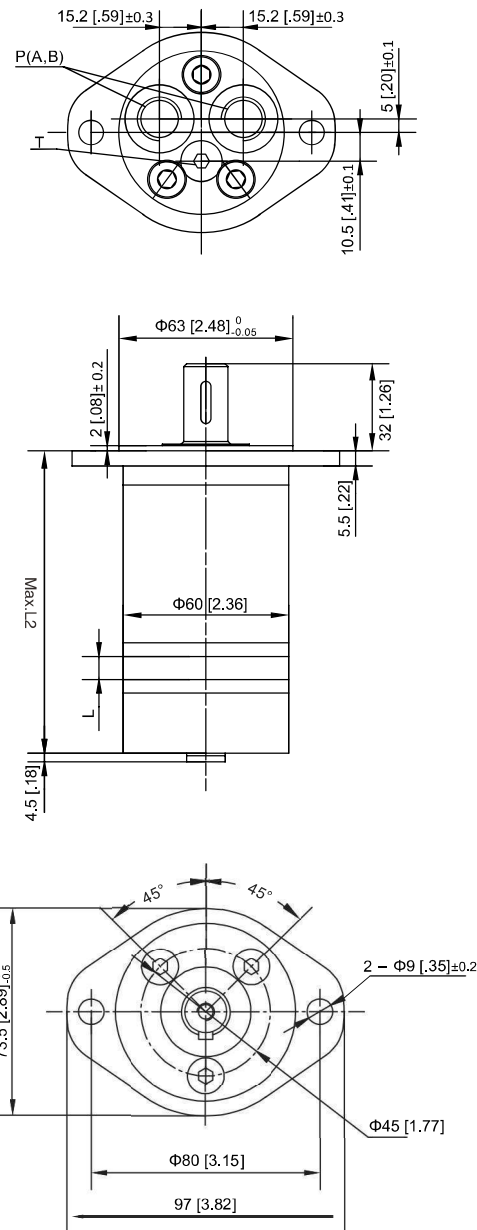
DIMENSIONS AND MOUNTING

(End Port Y*)

C, C1 Flange



A2 2-Hole Oval Flange



PHDMM

Flange	E
C	3-M6
C1	3-1/4-28UNF

	PHDMM-8	PHDMM-12.5	PHDMM-20	PHDMM-32	PHDMM-40	PHDMM-50
L	3.5mm [0.137"]	5.5mm [0.216"]	8.5mm [0.334"]	13.5mm [0.531"]	17mm [0.669"]	21.5mm [0.846"]
L1	104.5mm [4.114"]	106.5mm [4.192"]	109.5mm [4.311"]	114.5mm [4.507"]	118mm [4.645"]	122.5mm [4.822"]
L2	107mm [4.212"]	109mm [4.291"]	112mm [4.409"]	117mm [4.606"]	120.5mm [4.744"]	125mm [4.921"]

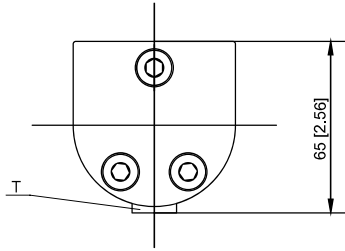


DIMENSIONS AND MOUNTING

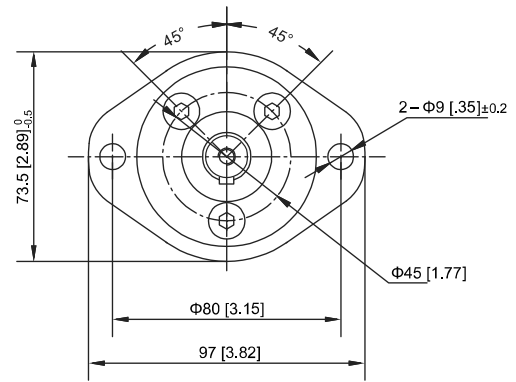
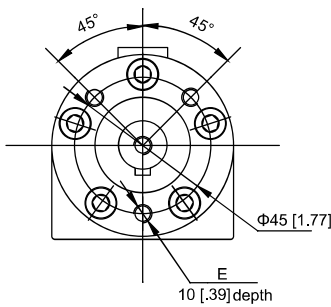
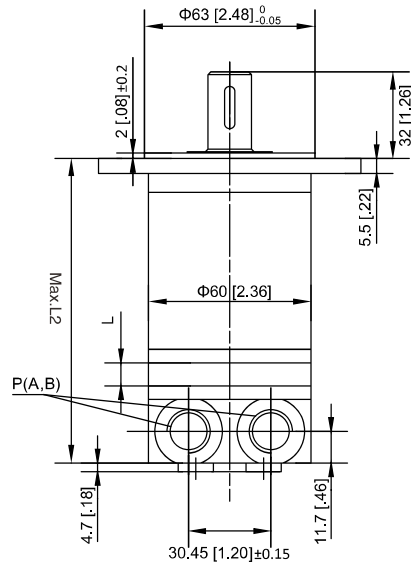
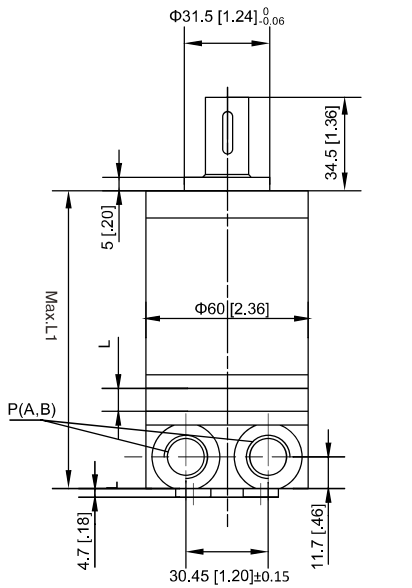
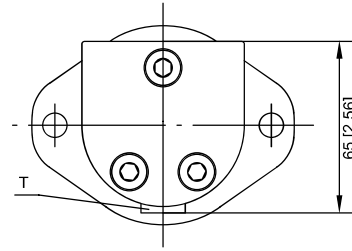
PHDMM

(Side Port S*)

C, C1 Flange



A2 2-Hole Oval Flange

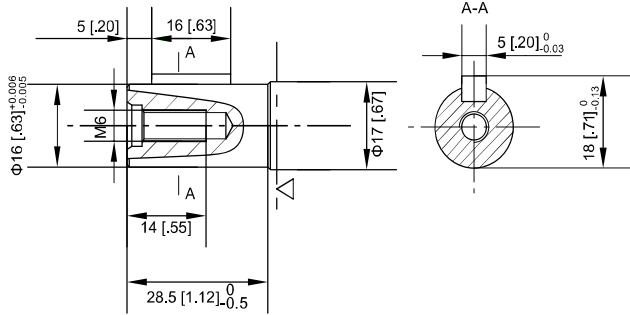


Flange	E
C	3-M6
C1	3-1/4-28UNF

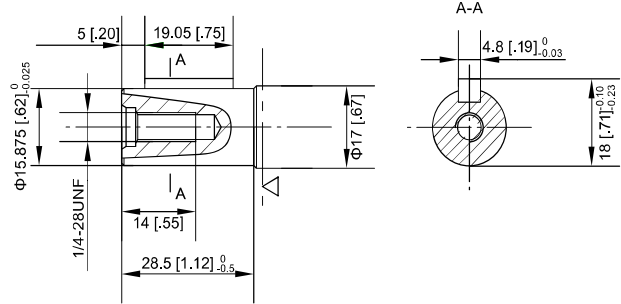
	PHDMM-8	PHDMM-12.5	PHDMM-20	PHDMM-32	PHDMM-40	PHDMM-50
L	3.5mm[0.137"]	5.5mm[0.216"]	8.5mm[0.334"]	13.5mm[0.531"]	17mm[0.669"]	21.5mm[0.846"]
L1	106mm[4.173"]	108mm[4.251"]	111mm[4.370"]	116mm[4.566"]	119.5mm[4.704"]	124mm[4.881"]
L2	108.5mm[4.271"]	110.5mm[4.350"]	113.5mm[4.468"]	118.5mm[4.665"]	122mm[4.803"]	126.5mm[4.980"]

DIMENSIONS AND MOUNTING

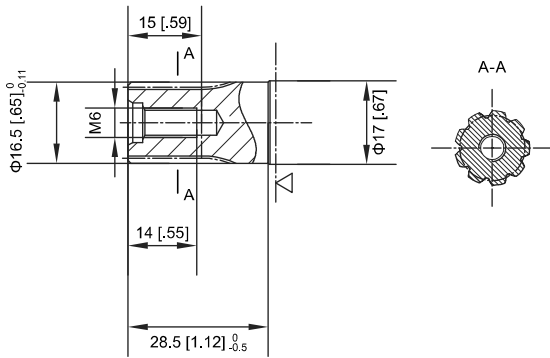
P1 : $\Phi 16$ Cylindrical shaft, parallel key $5 \times 5 \times 16$
 $\Phi[.63]$ Cylindrical shaft, parallel key $[.20] \times [.20] \times [.63]$



P2 : $\Phi 15.875$ Cylindrical shaft, parallel key $4.8 \times 4.8 \times 19.05$
 $\Phi[.62]$ Cylindrical shaft, parallel key $[.18] \times [.18] \times [.75]$



K1 : $\Phi 16.5$ involute splined shaft B17 $\times 14$ DIN5482
 $\Phi[.649]$ involute splined shaft B17 $\times 14$ DIN5482



PHDMM

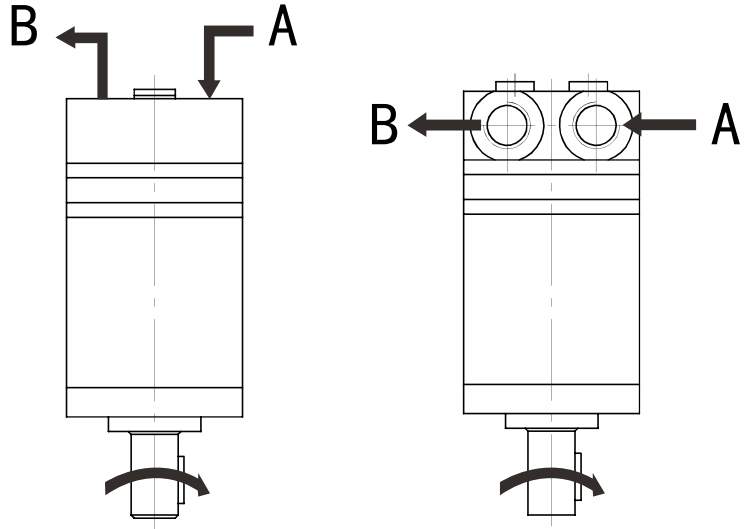


PHDMM SERIES MOTOR

■ PHDMM Direction of Shaft Rotation: Standard

Direction of shaft rotation: Standard

When facing shaft end of motor, shaft to rotate:
Clockwise when port "A" is pressurized.
Counter-clockwise when port "B" is pressurized.





ORDERING INFORMATION

1	2	3	4	5	6	7
PHDMM	—				—	—

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)				
PHDMM	8	P1	Φ[.63] Cylindrical shaft, parallel key [.19] x [.19] x [.63] Φ 16 Cylindrical shaft, parallel key 5 x 5 x 16	C	3-M6 Flange, pilot Φ[1.24] 3-M6 Flange, pilot Φ 31.5	Y1	* End Port Y *		Omit	Standard	Omit	Standard
	12.5						G3/8(12),G1/8(8)					
	20	P2	Φ[.62] Cylindrical shaft, parallel key [.19] x [.19] x [.75] Φ 15.875 Cylindrical shaft, parallel key 4.8 x 4.8 x 19.05	C1	3-1/4-28UNF Flange, pilot Φ[1.24] 3-1/4-28UNF Fange, pilot Φ 31.5	Y2	9/16-18UNF(12),3/8-24UNF(8)					
	32						* Side port S *					
	40	K1	Φ[.65] Involute splined shaft, B17 x 14 DIN5482 Φ 16.5 involute splined shaft, B17 x 14 DIN5482	A2	2-Φ[.35] Oval flange, pilot Φ[2.48] 2-Φ 9 Oval fange, pilot Φ 63	S1	G3/8(12),G1/8(8)					
	50						9/16-18UNF(12),3/8-24UNF(8)					
						S2	9/16-18UNF(12),3/8-24UNF(8)				L	Opposite