



EVO VANE BUYER'S GUIDE

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EVO Vane Series Pumps Industrial and Mobile

Series PT6C	Cam Ring												
	003	005	006	008	010	012	014	017	020	022	025	028	031
GPM/1000 RPM/3500 PSI	1.35	3.04	3.38	4.73	6.76	7.56	9.91	13.16	14.61	16.33	18.70 ₍₁₎	21.50 ₍₁₎	24.46 ₍₁₎
LPM/1000 RPM/241 BAR	5.1	11.5	12.8	17.9	25.6	28.6	37.5	49.8	55.3	61.8	70.8 ₍₁₎	81.4 ₍₁₎	92.6 ₍₁₎
IN ³	0.66	1.05	1.30	1.61	2.08	2.26	2.81	3.56	3.89	4.29	4.84	5.42	6.10
CC	10.8	17.2	21.3	26.4	34.1	37.1	46.0	58.3	63.8	70.3	79.3	88.8	100.0
Max PSI	3000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3000	3000
CONTINUOUS PSI	3000	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	2300	2300
MAX RPM	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2500	2500	2500
MIN RPM	600	600	600	600	600	600	600	600	600	600	600	600	600

Series PT6D	Cam Ring											
	014	017	020	024	028	031	035	038	042	045	050	
GPM/1000 RPM/3500 PSI	8.48	12.63	13.34	16.91	19.60	21.87	25.23	27.69	31.83	34.40	38.30	
LPM/1000 RPM/241 BAR	32.1	47.8	50.5	64.0	74.2	82.8	95.5	104.8	120.5	130.2	145.0	
IN ³	2.90	3.55	4.03	4.85	5.47	6.00	6.77	7.34	8.30	8.89	9.64	
CC	47.6	58.2	66.0	79.5	89.7	98.3	111.0	120.3	136.0	145.7	158.0	
Max PSI	3500	3500	3500	3500	3500	3500	3500	4500	3500	3500	3000	
CONTINUOUS PSI	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2300	
MAX RPM	2500	2500	2500	2500	2500	2500	2500	2500	2200	2200	2200	
MIN RPM	600	600	600	600	600	600	600	600	600	600	600	

Series PT6E	Cam Ring								
	042	045	050	052	062	066	072	085	
GPM/1000 RPM/3500 PSI	30.43	33.10	37.35	39.02	47.45	51.83	55.48	70.03 ₍₁₎	
LPM/1000 RPM/241 BAR	115.2	125.3	141.4	147.7	179.6	196.2	210.0	265.1 ₍₁₎	
IN ³	8.07	8.69	9.67	10.06	12.00	13.02	13.86	16.46	
CC	132.3	142.4	158.5	164.8	196.7	213.3	227.1	269.8	
Max PSI	3500	3500	3500	3500	3500	3500	3500	1450	
CONTINUOUS PSI	3000	3000	3000	3000	3000	3000	3000	1090	
MAX RPM	2200	2200	2200	2200	2200	2200	2200	2000	
MIN RPM	600	600	600	600	600	600	600	600	

Series PT7B/PT7BS	Cam Ring												
	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B14	B15
GPM/1800 RPM/4650 PSI	1.72	3.62	5.07	6.53	8.37	9.64	10.80	12.26	14.11	15.59 ₍₁₎	18.52 ₍₁₎	20.34 ₍₁₎	22.85 ₍₁₎
LPM/1800 RPM/320 BAR	6.5	13.7	19.2	24.7	31.7	36.5	40.9	46.4	55.5	59.0 ₍₁₎	70.1 ₍₁₎	79.2 ₍₁₎	86.5 ₍₁₎
IN ³	0.35	0.60	0.78	0.97	1.21	1.37	1.52	1.71	1.94	2.13	2.50	2.75	3.05
CC	5.7	9.8	12.8	15.9	19.8	22.5	24.9	28.0	31.8	34.9	40.9	45.1	50.0
*Max PSI	4650	4650	4650	4650	4650	4650	4650	4650	4650	4350	4350	4350	4060
CONTINUOUS PSI	4200	4200	4200	4200	4200	4200	4200	4200	4200	4000	4000	4000	3500
MAX RPM	3600	3600	3600	3600	3600	3600	3600	3600	3600	3000	3000	3000	3000
MIN RPM	600	600	600	600	600	600	600	600	600	600	600	600	400

Performance data shown throughout this catalog is a result of a series of laboratory tests and is not representative of any one unit.

*Consult Permco for all pressure applications over 4350 PSI.

(1) Performance stated at Max RPM and MAX PSI for given cam ring.

EVO Vane Series Pumps Industrial and Mobile

Series PT7D/PT7DS	Cam Ring										
	B14	B17	B20	B24	B28	B31	B35	B38	B42	B45	B50
GPM/1800 RPM/4375 PSI	17.14	22.38	27.61	34.77	38.99	43.38	50.35 ₍₁₎	53.79 ₍₁₎	62.05 ₍₁₎	65.38 ₍₁₎	71.67 ₍₁₎
LPM/1800 RPM/302 BAR	64.9	84.7	104.5	131.6	147.6	164.2	190.6 ₍₁₎	203.6 ₍₁₎	234.9 ₍₁₎	247.5 ₍₁₎	271.3 ₍₁₎
IN ³	2.68	3.36	4.03	4.95	5.49	6.05	6.92	7.36	8.39	8.89	9.64
CC	43.9	55.0	66.0	81.1	89.9	99.1	113.4	120.6	137.5	145.7	157.9
*Max PSI	4375	4375	4375	4375	4375	4375	4083	4083	3791	3500	3062
CONTINUOUS PSI	3600	3600	3600	3600	3600	3600	3600	3600	3400	3000	2300
MAX RPM	3000	3000	3000	3000	3000	3000	2800	2800	2500	2200	2200
MIN RPM	600	600	600	600	600	600	600	600	600	600	600

Series PT6CM	Cam Ring												
	B03	B05	B06	B08	B10	B12	B14	B17	B20	B22	B25	B28	B31
GPM/1000 RPM/3500 PSI	1.35	3.04	3.38	4.73	6.76	7.56	9.91	13.16	14.61	16.33	18.70 ₍₁₎	21.50 ₍₁₎	24.46 ₍₁₎
LPM/1000 RPM/241 BAR	5.1	11.5	12.8	17.9	25.6	28.6	37.5	49.8	55.3	61.8	70.8 ₍₁₎	81.4 ₍₁₎	92.6 ₍₁₎
IN ³	0.66	1.05	1.30	1.61	2.08	2.26	2.81	3.56	3.89	4.29	4.84	5.42	6.10
CC	10.8	17.2	21.3	26.4	34.1	37.1	46.0	58.3	63.8	70.3	79.3	88.8	100.0
Max PSI	3000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3000	3000
CONTINUOUS PSI	3000	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	2300	2300
MAX RPM	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2500	2500	2500
MIN RPM	400	400	400	400	400	400	400	400	400	400	400	400	400

Series PT6DM	Cam Ring											
	B14	B17	B20	B24	B28	B31	B35	B38	B42	B45	B50	
GPM/1000 RPM/3500 PSI	8.48	12.63	13.34	16.91	19.60	21.87	25.23	27.69	31.83	34.40	38.30	
LPM/1000 RPM/241 BAR	32.1	47.8	50.5	64.0	74.2	82.8	95.5	104.8	120.5	130.2	145.0	
IN ³	2.90	3.55	4.03	4.85	5.47	6.00	6.77	7.34	8.30	8.89	9.64	
CC	47.6	58.2	66.0	79.5	89.7	98.3	111.0	120.3	136.0	145.7	158.0	
Max PSI	3500	3500	3500	3500	3500	3500	3500	4500	3500	3500	3000	
CONTINUOUS PSI	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2300	
MAX RPM	2500	2500	2500	2500	2500	2500	2500	2500	2200	2200	2200	
MIN RPM	400	400	400	400	400	400	400	400	400	400	400	

Series PT6EM	Cam Ring								
	042	045	050	052	062	066	072	085	
GPM/1000 RPM/3500 PSI	30.43	33.10	37.35	39.02	47.45	51.83	55.48	70.03 ₍₁₎	
LPM/1000 RPM/241 BAR	115.2	125.3	141.4	147.7	179.6	196.2	210.0	265.1 ₍₁₎	
IN ³	8.07	8.69	9.67	10.06	12.00	13.02	13.86	16.46	
CC	132.3	142.4	158.5	164.8	196.7	213.3	227.1	269.8	
Max PSI	3500	3500	3500	3500	3500	3500	3500	1450	
CONTINUOUS PSI	3000	3000	3000	3000	3000	3000	3000	1090	
MAX RPM	2200	2200	2200	2200	2200	2200	2200	2000	
MIN RPM	400	400	400	400	400	400	400	400	

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(1) Performance stated at Max RPM and MAX PSI for given cam ring.



EVO Vane Series Motors

Series PM4C	Cam Ring						
	024	027	031	043	055	067	075
INPUT GPM @ 2500 PSI = 2000 RPM	17.70	19.55	22.98	29.32	35.93	42.27	47.02
INPUT LPM @ 172 BAR = 2000 RPM	67.0	74.0	87.0	111.0	136.0	160.0	178.0
IN ³	1.49	1.72	2.11	2.84	3.59	4.34	4.89
CC	24.4	28.2	34.5	46.5	58.8	71.1	80.1
Max PSI	2500	2500	2500	2500	2500	2500	2500
TORQUE 2500 PSI 2000 RPM = IN-LBS	535.4	619.8	768.1	1062	1319	1504	1752
MAX RPM CONTINUOUS	2500	2500	2500	2500	2500	2500	2500
MAX RPM INTERMITTENT	3600	3600	3600	3600	3600	3600	3600

Series PM4D	Cam Ring						
	062	074	088	102	113	128	138
INPUT GPM @ 2500 PSI = 2000 RPM	40.68	47.02	54.42	63.67	67.89	76.35	82.69
INPUT LPM @ 172 BAR = 2000 RPM	154.0	178.0	206.0	241.0	257.0	289.0	313.0
IN ³	3.97	4.69	5.56	6.44	7.12	8.08	8.81
CC	65.1	76.8	91.1	105.5	116.7	132.4	144.4
Max PSI	2500	2500	2500	2500	2500	2500	2500
TORQUE 2500 PSI 2000 RPM = IN-LBS	1460	1770	2089	2336	2655	3009	3292
MAX RPM CONTINUOUS	2500	2500	2500	2500	2500	2500	2500
MAX RPM INTERMITTENT	3000	3000	3000	3000	3000	3000	3000

Series PM4E	Cam Ring		
	153	185	214
INPUT GPM @ 2500 PSI = 2000 RPM	90.61	108.1	124.2
INPUT LPM @ 172 BAR = 2000 RPM	343.0	409.0	470.0
IN ³	9.67	11.69	13.55
CC	158.5	191.6	222.0
Max PSI	2500	2500	2500
TORQUE 2500 PSI 2000 RPM = IN-LBS	3522	4283	5018
MAX RPM CONTINUOUS	2500	2500	2500
MAX RPM INTERMITTENT	3000	3000	3000

Permco offers a complete line of hydraulic vane pumps, motors and through drives in singles, doubles and triples; available units as follows.

Singles:

PT6C PT6EM
 PT6CM PT6GC
 PT6D PT7B
 PT6DM PT7BS
 PT6DS PT7D
 PT6DSM PT7DS
 PT6E

Doubles:

PT6CC PT6EDM
 PT6CCM PT6EE
 PT6DC PT6EES
 PT6DCM PT6GCC
 PT6DDS PT6QDC
 PT6DDSM PT67CB
 PT6EC PT67DB
 PT6ECM PT67EB
 PT6ED PT67DCM

Triples:

PT6DCC
 PT6DDCM
 PT6DDCS
 PT6DDCSM
 PT6EDC

Through Drives:

PT6CR PR6DRS
 PT6CRM PT6DRSM
 PT6DR PT6DRSS
 PT6DRM PT6DRSSM
 PT6ER

Motors:

PM4C
 PM4D
 PM4E

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