

T2-03

Micro Diaphragm Pumps (air/gas)

Chemical Compatibility Chart*

Chemical	Chemical Compatibility of Wetted Path Materials					
	FKM	EPDM	ABS	Neoprene Rubber (CR)	PPS	Silicone
Air	1	1	1	1	1	1
Ozone (1000 ppm)	4	4	2	3	1	1
Oxygen	1	1	1	1	1	2
Ethylene (Ethene)	1	4	-	1	1	4
Acetylene	1	1	2	2	1	3
Propane	1	4	2	1	1	4
Methane	1	4	4	2	1	4
Nitrogen	1	1	1	1	1	1
Carbon Dioxide	1	2	2	1	1	2
Halothane (Up to 5%)	1	4	1	4	1	4

*The above is an Abbreviated Chemical Compatibility Chart. Please consult factory for details.

Compatibility Legend

1. EXCELLENT
Minimal or no effect
2. GOOD
Possible swelling and/or loss of physical properties
3. DOUBTFUL
Moderate or severe swelling and loss of physical properties
4. NOT RECOMMENDED
Severe effect and should not be considered

Note: Consult factory for other gases.

Ordering Information

T2-03 Micro Pumps

Configuration	Vacuum: LPM @ Load					Free Flow	Pressure: LPM @ Load					Max		PCD ¹		Wetted Materials ²	
	18 in Hg 457 mm Hg	16 in Hg 406 mm Hg	12 in Hg 305 mm Hg	8 in Hg 203 mm Hg	4 in Hg 102 mm Hg		2 psig 134 mbar	4 psig 276 mbar	6 psig 414 mbar	8 psig 552 mbar	10 psig 689 mbar	Vac in Hg	Press psig	Motor Type	VDC		mA
T3CP-1HE-04-1SNB				0.3	0.9	2.5	1.1	0.5				8.6	4.5	Coreless Brush	4	313	CR, VMQ, CR
T3CP-1HE-04-2SEB				0.1	0.3	1.1	0.5	0.2				10.4	5.5	Coreless Brush	4	103	EPDM, VMQ, CR
T3CP-1HE-06-1SNB				0.6	1.2	2.8	1.5	0.8	0.5			12.2	6.5	Coreless Brush	6	317	CR, VMQ, CR
T3EP-1ST-05-3FFP			0.3	0.6	0.8	1.5	1.2	0.7	0.6	0.4		16.7	11.7	PMDC Brush	5.6	411	FKM
T3EP-1ST-08-1SNB		0.2	0.6	0.7	1.3	2.5	1.6	1.2	0.7	0.6		20.8	10.5	PMDC Brush	8.3	385	CR, VMQ, CR
T3HP-1PD-12-1SNP		0.2	0.4	0.7	1.0	2.5	1.3	0.9	0.7	0.4	0.3	18.0	12	Coreless Brush	12.4	97	CR, VMQ, CR

1. PCD: Peak Current Draw 2. CR: Neoprene, VMQ: Silicone, FKM: Fluorocarbon, EPDM: Ethylene Propylene Diene Monomer

To order on-line go to www.parker.com/precisionfluidics/t3 and configure your T2-03 Micro Diaphragm Pump.

Serviceable – PPF products are designed for use through the rated life and Parker does not sell replacement parts, nor is it recommended to service these in the field

Note: In addition to Parker's innovative and flexible pump designs, we offer applications engineering expertise to our customers in order to configure and recommend the optimal pump for the application. Contact Parker Applications Engineering to discuss and configure alternate pump configurations to meet your specific application requirements. Providing information on the following requirements will assist us in developing an optimal solution for your application:

- Noise
- Operating Pressure / Vacuum
- Power Consumption
- Life Requirement
- Size
- Motor Control
- Media
- Voltage

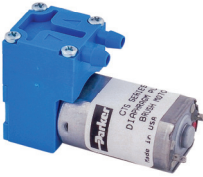
Parker Hannifin Precision Fluidics Division reserves the right to make changes. Drawings are for reference only.



CTS Series

Micro Diaphragm Pumps (air/gas)

Ordering Information

Configuration	Voltage	Speed at Nominal Voltage	Part Number	-16 inHg -406 mmHg	-12 inHg -305 mmHg	-8 inHg -203 mmHg	-4 inHg -102 mmHg	0 Free Flow	4 PSIG 276 mbar	8 PSIG 552 mbar	12 PSIG 827 mbar
CTS Iron Core Brush Motor 	6	3940	E155-11-060	-	0.15	0.32	0.52	0.78	0.48	0.29	0.14
	9	6050	E163-11-090	-	0.19	0.52	0.80	1.53	0.82	0.46	0.19
	12	8460	E155-11-120	-	0.27	0.81	1.24	1.73	1.18	0.66	0.35
	6	7310	E161-11-060	-	0.20	0.65	1.00	1.78	1.01	0.54	0.15
	6	5000	E265-13	-	-	-	-	1.60	1.20	0.90	0.70
	9	7350	E107-13-090	-	-	-	-	2.50	1.70	1.40	0.90
	12	7570	E129-13-120	-	-	-	-	2.60	1.80	1.40	1.00
	6	4850	E107-12-060	0.22	0.47	0.74	1.08	1.88	-	-	-
	6	6600	E253-12	-	0.90	1.30	1.70	2.30	-	-	-
	12	7900	E129-12-120	0.50	0.90	1.40	1.90	2.50	-	-	-
	9	7450	E107-12-090	0.50	0.90	1.30	1.90	2.60	-	-	-
CTS Coreless Motor 	5	2800	E134-11-050	-	0.10	0.21	0.35	0.54	0.31	0.16	-
	6	6700	E164-11-060	-	0.26	0.58	0.96	1.36	0.88	0.54	-
	9	8350	E165-11-090	-	0.35	0.73	1.10	1.60	1.10	0.75	0.46
	12	7000	E134-11-120	-	0.20	0.60	0.90	1.70	0.90	0.45	0.30
	12	6950	E146A-12	0.40	0.70	1.05	1.50	2.10	-	-	-
	9	7600	E245-12	0.50	0.90	1.30	1.80	2.40	-	-	-
CTS Brushless DC Motor 	6	3950	E243-11	-	0.17	0.34	0.55	0.74	0.53	0.34	0.16
	12	8000	E258-11	-	-	0.32	0.68	1.00	0.67	0.22	-
	9	6000	E244-11	-	0.29	0.54	0.92	1.39	0.88	0.60	0.22
	12	8000	E257-11	-	-	0.78	1.15	1.75	1.10	0.70	-
	5	4200	E256-13	-	-	-	-	1.30	0.95	0.70	0.50
	5	4150	E256-12	0.25	0.49	0.72	1.00	1.32	-	-	-
	12	7650	E259-12	0.40	1.00	1.40	1.90	2.50	-	-	-

*PCD: Peak Current Draw

Note: The Ordering Information Section includes a few selected part numbers for the product line. Other performances and configurations are available. Please contact your Sales Representative or an Application Engineer to discuss your application needs.

