

BTX-Connect Miniature Diaphragm Pump Ordering Information

Configuration	Voltage	Motor Control	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	16 PSIg 1103 mbar
B1C BTX-Connect Single Head with Compact BLDC 	12	On/Off	B1C-050F12AN-00	0.4	1.1	1.8	2.5	3.3	2.7	2.1	1.6	1.1
	12	PWM	B1C-050F12AN-03	0.4	1.1	1.8	2.5	3.3	2.7	2.1	1.6	1.1
	24	On/Off	B1C-050F24AN-00	0.4	1.1	1.8	2.5	3.3	2.7	2.1	1.6	1.1
	24	PWM	B1C-050F24AN-03	0.4	1.1	1.8	2.5	3.3	2.7	2.1	1.6	1.1
	12	On/Off	B1C-070P12AN-00	-	-	-	-	4.5	3.5	2.7	2.0	1.2
	12	0-5Vdc	B1C-070P12AN-02	-	-	-	-	4.3	3.1	2.5	1.8	1.2
	12	On/Off	B1C-090P12AN-00	-	-	-	-	5.5	4.5	3.5	2.8	2.2
	12	PWM	B1C-090P12AN-03	-	-	-	-	5.5	4.5	3.5	2.8	2.2
	24	On/Off	B1C-090P24AN-00	-	-	-	-	5.5	4.5	3.5	2.8	2.2
	24	0-5Vdc	B1C-090P24AN-02					6.1	4.9	4.0	3.2	2.5
	12	On/Off	B1C-090V12AN-00	1.5	2.5	3.5	4.7	5.8	-	-	-	-
	12	0-5Vdc	B1C-090V12AN-02	1.2	2	3	4.1	5.2	-	-	-	-
	12	PWM	B1C-090V12AN-03	1.5	2.5	3.5	4.7	5.8	-	-	-	-
	24	On/Off	B1C-090V24AN-00	1.5	2.5	3.5	4.7	5.8	-	-	-	-
	24	PWM	B1C-090V24AN-03	1.5	2.5	3.5	4.7	5.8	-	-	-	-
B1S BTX-Connect Single Head with Slotless BLDC 	12	On/Off	B1S-090P12AN-00	-	-	-	-	4.8	3.9	3.1	2.5	2.0
	24	On/Off	B1S-090P24AN-00	-	-	-	-	4.8	3.9	3.1	2.5	2.0
B2C BTX-Connect Dual Head with Compact BLDC 	12	On/Off	B2C-050F12AN-00	0.4	1.7	2.6	3.8	5.1	4	3.2	2.3	1.1
	12	PWM	B2C-050F12AN-03	0.4	1.7	2.6	3.8	5.1	4	3.2	2.3	1.1
	24	On/Off	B2C-050F24AN-00	0.4	1.7	2.6	3.8	5.1	4	3.2	2.3	1.1
	24	PWM	B2C-050F24AN-03	0.4	1.7	2.6	3.8	5.1	4	3.2	2.3	1.1
	12	On/Off	B2C-070P12AN-00	-	-	-	-	8.2	6	4.4	3.0	2.0
	12	On/Off	B2C-090V12AN-00	2.2	3.5	5.4	7.5	9.5	-	-	-	-
	12	PWM	B2C-090V12AN-03	2.2	3.5	5.4	7.5	9.5	-	-	-	-

BTX-Connect Miniature Diaphragm Pump

Ordering Information

Configuration	Voltage	Motor Control	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	16 PSIg 1103 mbar
B2S BTX-Connect Dual Head with Slotless BLDC 	12	On/Off	B2S-050F12AN-00	0.8	1.9	2.9	4.1	5.3	4.3	3.5	2.7	2.0
	24	On/Off	B2S-050F24AN-00	0.8	1.9	2.9	4.1	5.3	4.3	3.5	2.7	2.0
	12	On/Off	B2S-090P12AN-00	-	-	-	-	9.0	7.2	5.7	4.5	3.3
	24	On/Off	B2S-090P24AN-00	-	-	-	-	9.0	7.0	5.7	4.3	3.2
	12	On/Off	B2S-090V12AN-00	2.2	3.8	5.7	7.6	9.3	-	-	-	-
B2H BTX-Connect Dual Head with High Performance Slotless BLDC 	12	On/Off	B2H-050A12AN-00	1.6	2.9	4.2	5.7	7.2	5.8	4.8	3.9	3.0
	12	On/Off	B2H-090V12AN-00	2.8	4.6	6.6	8.7	10.5	-	-	-	-
	12	On/Off	B2H-090R12AN-00	-	-	-	-	10.7	8.9	7.3	5.8	4.4

Accessories Ordering Table

Part No.	Description	Comments
02040-10	2 Pin Wire Harness 20" (508mm) Long	2 Pin wire harness for on/off control only
02042-10	4 Pin Wire Harness 20" (508mm) Long	4 Pin wire harness for speed control and tachometer output
02043-10	6 Pin Wire Harness 20" (508mm) Long	6 Pin wire harness required for UART
00492-15	Filter-Muffler	Filter to 10 microns. Not included with pump
01881-KT	Tubing Assembly	As needed for parallel flow. Not included with pump

BTX Part Number Description (see Appendix A comment 9)

<u>B</u>	<u>1</u>	<u>C</u>	-	<u>090</u>	<u>P</u>	<u>12</u>	<u>A</u>	<u>N</u>	-	<u>00</u>
Model	Pump Heads	Motor Type		Pump Offset	Diaphragm Configuration	Voltage	Material	Tubing		Special
B - BTX	1 - Single Head	C - Compact		050 - 0.050" Offset	F - Universal Pressure & Vacuum	12 - 12 Vdc	A - 80D AEPDM Diaphragm & low noise Valves	N - None		00 - Factory set speed
	2 - Dual Head	S - Slotless		070 - 0.070" Offset	P - Pressure Only	24 - 24 Vdc	B - 80D AEPDM Diaphragm & 80D Valves	P - Parallel (dual head only)		01 - Digital UART speed control
		H - High Performance Slotless		090 - 0.090" Offset	V - Vacuum Only			S - Series (dual head only)		02 - Analog 0-5 Vdc
					A - Universal Pressure & Vacuum (High Compression Chamber)					03 - PWM speed control
					R - Pressure Only (High Compression Chamber)					
					Y - Vacuum Only (High Compression Chamber)					



Helix Miniature High Pressure Pump

Accessories Information

A **Filter-Muffler** is always recommended in the air inlet or outlet to reduce noise and risk of debris that may affect pump performance. Parker recommends 40 micron or better filtration to be used with this pump series.

6mm Push-In Fittings are recommended to connect the Helix pump pneumatic ports to tubing.



P/N: 00492-15
(10 micron Filter)



P/N: 00085-15-0001
(0.01 micron Filter)



P/N: 20934-15
(6mm to 6mm Legris Connector)

Ordering Information

Configuration	Voltage	Motor Control	Speed at Free Flow 3.0 Vdc Control	Part Number	0	15	30	45	60	75	90
					Free Flow	PSIg 1.0 Bar	PSIg 2.1 Bar	PSIg 3.1 Bar	PSIg 4.1 Bar	PSIg 5.2 Bar	PSIg 6.2 Bar
 H1R Helix Single Head with Unloading Valve	24	0-5 Vdc	2950	H1R-080P24HV-02	5.5	4.3	3.6	2.9	2.2	1.4	0.7

Part Number Description

<u>H</u>	<u>1</u>	<u>R</u>	-	<u>080</u>	<u>P</u>	<u>24</u>	<u>H</u>	<u>V</u>	-	<u>02</u>
Model	Pump Heads	Motor Type		Pump Offset	Configuration	Voltage	Materials	Plumbing		Special
H - Helix	1 - Single Head	R - Outer Rotor BLCD		080 - 0.080" Offset	P - Pressure Only	12 - 12 Vdc	H - PTFE, FKM, EPDM	N - None		02 - Analog 0-5 Vdc
								V - Un-loading Valve		

Accessories Ordering Table

Part No.	Description	Comments
00492-15	Filter-Muffler - 1/8" / 4mm Barbs	Filter to 10 microns
00085-15-0001	Filter-Muffler - Straight 1/4" Port	Filter to 0.01 microns
20934-15	6mm to 6mm Legris Connector	Connects 6mm tubing to Helix pneumatic ports