

Pump Selection Guide

POCKET BELLOWS PUMPS

- Using **Chart A** and **B**, select a bellows module and a motor RPM combination whose maximum output meets or exceeds your flow requirements. Then refer to **Chart D** to select an appropriate model number. If T-head valve body is required, please consult factory.
- Using **Chart C**, select the appropriate X-code for each module's O-ring, and poppet or duckbill valve elastomers. Refer to example.

(Order notes continued on following page.)

Order Notes: When ordering a pocket bellows model, refer to steps 1 through 3 and follow the example provided.

Example: The model number and codes for a pump with 1" bellows module, with EPT/EPDM elastomers and 3/8" barbed connector, driven by a 115V, 50/60 Hz, 8 RPM motor would be: 16503-050 X-112 T-003.

CHART A

BELLOWS MODULE OUTPUT

Bellows Size	1/2"	3/4"	1"	1 1/2"
Full Stroke Displacement (ml)	.4	1.5	4.5	10.0

CHART B

TYPICAL FLOW

Typical Flow (ml/min)	Bellows Size							
	1/2"		3/4"		1"		1 1/2"	
Motor RPM	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
8	2.7	3.2	10.0	12.0	30.0	36.0	66.7	80.0
15	5.0	6.0	18.7	22.5	56.3	67.5	125.0	150.0
24	8.0	9.6	30.0	36.0	90.0	108.0	200.0	240.0

CHART C

O-RING AND POPPET/DUCKBILL VALVE OPTIONS

Materials	Bellows Size					
	1/2"		3/4"		1" & 1 1/2"	
	Poppet	Duckbill	Poppet	Duckbill	Poppet	Duckbill
EPT/EPDM	X-002	X-092	X-162	X-172	X-112	X-032
Hypalon®	X-005	X-095	X-165	X-175	X-115	X-035
Viton®/ Fluoroelastomer	X-006	X-096	X-166	X-176	X-116	X-036

CHART D

SELECTED POCKET BELLOWS PUMPS				
Model Number	RPM @ 60 Hz	Bellows Size	Volts	Hz
16501-050	8	1/2"	115	50/60
16501-053	8	1/2"	230	50/60
16502-050	8	3/4"	115	50/60
16502-053	8	3/4"	230	50/60
16503-050	8	1"	115	50/60
16503-053	8	1"	230	50/60
16504-050	8	1 1/2"	115	50/60
16504-053	8	1 1/2"	230	50/60
16501-051	15	1/2"	115	50/60
16501-054	15	1/2"	230	50/60
16502-051	15	3/4"	115	50/60
16502-054	15	3/4"	230	50/60
16503-051	15	1"	115	50/60
16503-054	15	1"	230	50/60
16504-051	15	1 1/2"	115	50/60
16504-054	15	1 1/2"	230	50/60
16501-052	24	1/2"	115	50/60
16501-055	24	1/2"	230	50/60
16502-052	24	3/4"	115	50/60
16502-055	24	3/4"	230	50/60
16503-052	24	1"	115	50/60
16503-055	24	1"	230	50/60
16504-052	24	1 1/2"	115	50/60
16504-055	24	1 1/2"	230	50/60

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(continued)

Tubing Connectors

The image displays 12 different tubing connector models arranged in a 3x4 grid. Each model is shown in a white plastic finish against a dark background. The models are labeled as follows:

- Row 1: T-001 (straight barbed), T-002 (straight barbed), T-003 (straight barbed)
- Row 2: T-004 (straight barbed), T-008 (elbow swivel), T-009 (elbow swivel)
- Row 3: T-011 (elbow swivel), T-013 (elbow swivel), T-014 (straight barbed)

3. Using **Tubing Connector Chart**, select one T-code for each X-code chosen from Chart C.

T-CODES			
T-Code	For Elastomeric Tubing Size	Connector Type	Bellows Module Size
T-001	1/8" I.D. x 1/4" O.D.	Barbed Compression	1/2" & 3/4"
T-002	1/4" I.D. x 3/8" O.D.	Barbed Compression	1/2" & 3/4"
T-003	3/8" I.D.	Barbed	1" & 1 1/2"
T-004	1/2" I.D.	Barbed	1" & 1 1/2"
T-008	3/8" I.D.	Elbow Swivel, Barbed	1" & 1 1/2"
T-009	1/2" I.D.	Elbow Swivel, Barbed	1" & 1 1/2"
T-011	1/4" I.D.	Elbow Swivel, Barbed	1"
T-013	4mm (5/32") I.D.	Elbow Swivel, Barbed	1/2" & 3/4"
T-014	1/4" I.D.	Barbed	1"