

Pump Selection Guide

COMPACT BELLOWS PUMPS

BASE MODELS

Model No.	Description
16001-XXX	Single Pump
16002-XXX	2 - Tandem Pump
16003-XXX	3 - Tandem Pump
16004-XXX	4 - Tandem Pump

- Using **Chart A**, select bellows module(s) and a motor RPM combination whose maximum output meets or exceeds your flow requirements. Best metering accuracy occurs when bellows modules operate at 50% or more of their maximum output.
- Using **Chart B**, select appropriate 3-digit dash number to add to base model number according to the motor RPM determined in Chart A.
- Using **Chart C**, select appropriate F-code for each module's O-ring and poppet valve elastomers. Place largest bellows module closest to motor. Refer to example at the top of this page.

(Order notes continued on following page.)

Order Notes: When ordering a compact bellows model, refer to steps 1 through 5 and follow the example provided.

Example: The model number and code for a 4-tandem pump with 1½", 1", 1" and ½" bellows, with EPT/EPDM elastomers for the first two bellows modules and Hypalon® for the last two bellows modules and ¾" elbow connectors, and a ⅛" I.D. compression fitting on the ½" module, all driven by a 230V, 50/60 Hz, 45.6 RPM motor would be: 16004-004 F-008 T-008, F-005 T-008, F-004 T-008, F-001 T-001.

CHART A

BELLOWS MODULE OUTPUT

Bellows Size		½"	¾"	1"	1½"	2"					
Flow Rate (ml per stroke)		.5	1.8	5	10.5	18					
Flow Rate (ml/min per motor RPM @ 50/60 Hz)		Bellows Size									
		½"	¾"	1"	1½"	2"					
Motor RPM	Hz	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
38	50	3.8	19	13.7	68.4	19	190	39.9	399	68.4	684
45.6	60	4.5	22.8	16.4	82.1	22.8	228	47.8	478.8	82.1	820.8
75	50	7.5	37.5	27	135	37.5	375	78.8	787.5	135	1350
90	60	9	45	32.4	162	45	450	94.5	945	162	1620

CHART B

BASE MODELS (with Motor)

Motor (Volts/RPM's)

Base Model Number	115V	115V	230V	230V
	45.6 RPM @ 60 Hz 38 RPM @ 50 Hz	90 RPM @ 60 Hz 75 RPM @ 50 Hz	45.6 RPM @ 60 Hz 38 RPM @ 50 Hz	90 RPM @ 60 Hz 75 RPM @ 50 Hz
16001	-002	-003	-004	-005
16002	-002	-003	-004	-005
16003	-002	-003	-004	-005
16004	-002	-003	-004	-005

CHART C

O-RING AND POPPET VALVE ELASTOMER OPTIONS

Bellows Size	EPT/EPDM	Hypalon®	Viton®/Fluoroelastomer
½"	F-001	F-002	F-003
¾"	F-035	F-036	F-037
1"	F-004	F-005	F-006
1½"	F-007	F-008	F-009
2"	F-031	F-032	F-033

