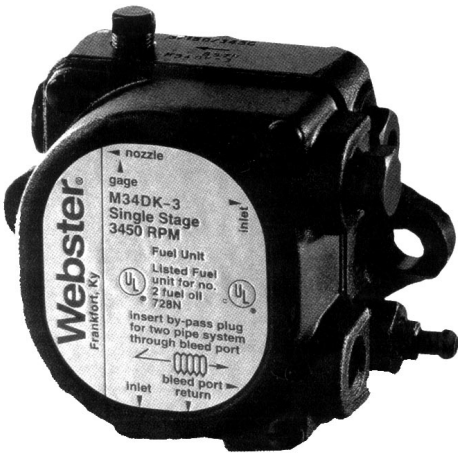


# M34DK-3 SERIES FUEL UNITS

## SINGLE STAGE UNITS

To meet the needs of today's fuel-efficient, downsized and space efficient burners, Webster's popular M34DK-3 incorporates improved access to both the bleed valve and bypass plug. Locating the bleed port plug assembly on the side of the fuel unit provides the service technician with one visible and accessible location to either bleed the fuel unit or change the bypass plug without removing the burner. The M34DK-3 retains all of the industry accepted, state-of-the-art features of the M34DJ-3 fuel unit. These include faster fuel cut-off, improved priming on one-pipe installations, and reduced inlet line flow on two-pipe systems which results in reduced line noise. Webster's M34DK-3 fuel unit is available in a single stage, 3450 RPM model rated at 3 GPH. Operating pressure is factory set at 100 psi and is adjustable to 150 psi. The M34DK-3 is capable of maintaining its 3 gallon per hour fire size at up to 150 psi throughout its service life.



## FUEL UNIT SPECIFICATIONS

### M Series

#### Single- and Two-Stage Units

### M34DK-3 Fuel Units

#### Single-Stage Unit

#### *Capacities:*

M Series rated 3 gph @ 100 psi with #1, #2 fuel oil or kerosene.

**M34DK-3 unit rated 3 gph fire size for pressure from 100 to 150 psi with #1, #2 fuel oil or kerosene.**

#### *Pressure:*

Built in pressure regulator.

M Series factory set at 100 psi

**M34DK-3 unit factory set at 100 psi, adjustable to 150 psi.**

#### *Speeds:*

M Series—1725 and 3450 rpm

**M34DK-3—3450 rpm.**

#### *Rotation:*

Clockwise (D Style) or counterclockwise (C Style) when viewed from shaft end.

#### *Porting:*

1/8" NPTF: side location nozzle port, top located gauge port

1/4" NPTF: 2 inlets, and bottom return.

#### *Shaft:*

5/16" dia. x 1.65" extension from mounting face with keyless "D" drive.

#### *Seal:*

Double lip type Buna N.

#### *Mounting:*

Two bolt flange.

#### *Filter:*

Self cleaning rotary type internal

**NOTE:** External filter recommended with each installation

#### *Weight: (shipped oil filled)*

M17 models—4 lbs, 4 oz

M34 models—4 lbs, 2 oz

2M17 models—4 lbs, 12 oz

2M34 models—4 lbs, 9 oz

#### *Maximum Inlet Vacuum:*

M models—10" Hg

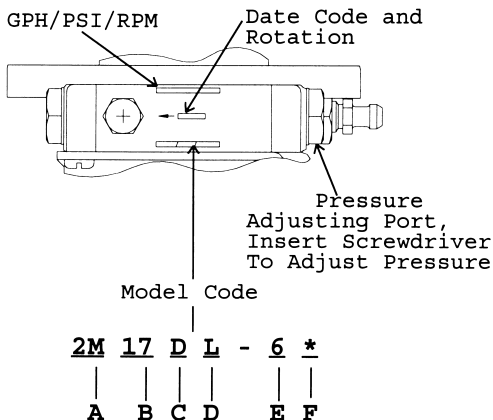
2M models—15" Hg

Refer to Table "Total Allowable Feet of Line" in this section.

#### *U.L. Listed.*

To assure compliance with National Fire Protection Association's Bulletin 31, "Installation of Oil Burning Equipment," fuel unit inlet pressure should not exceed 3 psig. Refer to the section on Oil Safety Valves (page 107) for additional information.

## M-SERIES FUEL UNIT-CODE ANALYSIS



A— M = Single Stage  
2M= Two Stage

B— 17 = 1725 RPM  
34 = 3450 RPM

C— C = CCW rotation, outlet left  
D = CW rotation, outlet right  
(as viewed from shaft end)

D— A = Key drive, face seal, old style porting  
B = Std., face seal, old style porting  
C = Special, face seal, old style porting  
D = Std. lip seal, old style porting  
E = Special, lip seal, old style porting  
F = Same as D except revised porting  
G = Same as E except revised porting  
H = Same as F except o-ring on pressure adjusting screw  
J = Same as H except revised internal porting  
K = Same as J except revised porting and bleed valve location  
L = Same as K except revised porting and bleed valve location

M = BIO Pump  
E— 3 = 3gph max. recommended fire size  
6 = 6gph max. recommended fire size  
15 = 15gph max. recommended fire size

F— No \*=unit set 1 pipe  
(bypass plug not installed)  
\*=Unit set 2 pipe  
(Bypass plug installed)

## SELECTION TABLES & DIMENSIONS

### M Model Unit—Single-Stage

Models	Speed rpm	Rota- tion*	Style	Nozzle Loca- tion*	Max. Suction	
					Fire Size gph at 100 psi	Gear Cap.**
M17CL-6	1725	CCW	C	Left	6	32
M17DL-6	1725	CW	D	Right	6	32
M34CL-3	3450	CCW	C	Left	3	29
M34DK-3	3450	CW	D	Right	3	17
M34CL-6	3450	CCW	C	Left	6	29
M34DL-6	3450	CW	D	Right	6	29

\*As viewed from shaft end

\*\* Based on two-pipe installation

### 2M Model Unit—Two-Stage

Models	Speed rpm	Rota- tion*	Style	Nozzle Loca- tion*	Max. Suction	
					Fire Size gph at 100 psi	Gear Cap.**
2M17CL-6	1725	CCW	C	Left	6	35
2M17DL-6	1725	CW	D	Right	6	35
2M34CL-3	3450	CCW	C	Left	3	35
2M34DL-3	3450	CW	D	Right	3	35
2M34CL-6	3450	CCW	C	Left	6	35
2M34DL-6	3450	CW	D	Right	6	35

\*As viewed from shaft end

\*\* Based on two-pipe installation

### FUEL UNITS (CROSS REFERENCE)

Webster Model No.	Suntec Model No.
M17DL-6	A1VA-7112
M17DL-6	A1VB-7113
M17CL-6	A1VC-7114
M34DK-3	A2VA-7116
M34DK-3	A2VB-7117
M34DK-3	A2VA-7142
M17CL-6	A1VD-7741
M17DL-6	A1YA-7912
M17CL-6	A1YD-7915
M34DL-6	A2YA-7916
2M17DL-6	B1VA-8212
2M34DL-3	B2VA-8216
2M34DL-6	B2YA-8916

### Dimensions

The dimensions indicated apply to both M Model, single-stage units, and 2M Model, two-stage units. Refer to table for variable dimension X.

Dimension drawing shows nozzle, inlet and gage port locations for D Style units. C Style units are the opposite of that pictured.

The model number and rating information (gph/psi/rpm) are stamped into the machined surface on top of the pump body. Check to confirm pump is correct for the application.

Dimensions ( ) = centimeters

Variable Dimension

Model X

M Single-Stage 2.33" [ 5.92]

2M Two-Stage 2.96" [ 7.52]

