



Suntec

PERFORMANCE

PROVEN

FUEL UNITS

AND VALVES

Quality Is Our Business

*... for residential and
commercial applications*

Specifications/Ordering Information

Model A-7000 Single-Stage Fuel Units

Fuels – Suitable for kerosene,
No. 1 or No. 2 Fuel Oil

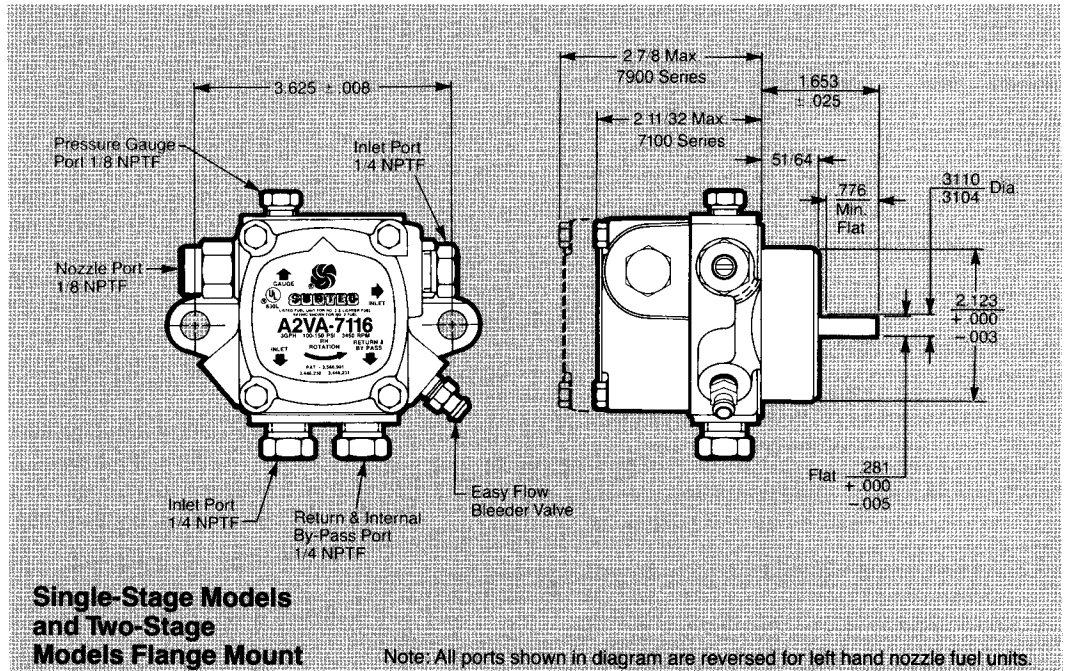
Pressure at 1725 RPM:
Factory set at 100 PSI;
Adjustable 100-150 PSI

Pressure at 3450 RPM:
Factory set at 100 PSI;
Adjustable 100-150 PSI

For operational speeds and
variations not shown, please
consult the factory.

Strainer Identification	
Strainer Symbol	Rating (GPH)
V	3
Y	7
T	16
G	23
R	3
	(waste oil)

On all UL labeled burners, fuel unit
strainer rating should not be exceeded.



**Single-Stage Models
and Two-Stage
Models Flange Mount**

Note: All ports shown in diagram are reversed for left hand nozzle fuel units.

Model Number	RPM	Rotation ¹	Nozzle Port Location ¹	Strainer & Nozzle Rating at 100 psi	Special Features
A1VA-7112	1725	R.H.	R.H.	3 gph	—
A1VB-7113	1725	R.H.	L.H.	3 gph	—
A1VC-7114	1725	L.H.	L.H.	3 gph	—
A1VD-7741	1725	L.H.	R.H.	3 gph	3-bolt mtg hub
A1YA-7912	1725	R.H.	R.H.	7 gph	—
A2VA-7142	2850	R.H.	R.H.	2.25 gph	—
A2VA-7116	3450	R.H.	R.H.	3 gph	—
A2VB-7117	3450	R.H.	L.H.	3 gph	—
A2VC-7118	3450	L.H.	L.H.	3 gph	—
A2YA-7743	3450/2850	R.H.	R.H.	7 gph	—
A2YA-7916*	3450	R.H.	R.H.	7 gph	3 gph at 200 psi
A2VD-7519	3450	L.H.	R.H.	3 gph	Solenoid dumping fuel unit, 32mm hub
A2RA-7710	3450/100	R.H.	R.H.	2.5/4 gph	Waste oil application
A2RA-7736	3450/1725	R.H.	R.H.	2.5/1.5 gph	Waste oil application
A2RA-7737	3450/1725	R.H.	R.H.	2.5/1.5 gph	10-20 psi waste oil application
A1RA-7738	1725	R.H.	R.H.	2.5 gph	Waste oil application
A2RA-7739	3450/1725	R.H.	R.H.	2.5/1.5 gph	30-50 psi waste oil

*Applies to "-6" model numbers (shown on fuel unit). For example: "7916-6", etc.

NOTE (1) Viewed from shaft end.

Model B-8000 Two-Stage Fuel Units

Fuels – Suitable for kerosene,
No. 1 or No. 2 Fuel Oil

Pressure at 1725 RPM:
Factory set at 100 PSI;
Adjustable 100-150 PSI

Pressure at 3450 RPM:
Factory set at 100 PSI;
Adjustable 100-150 PSI

Model Number	RPM	Rotation ¹	Nozzle Port Location ¹	Strainer & Nozzle Rating at 100 psi	Special Features
B1VA-8212	1725	R.H.	R.H.	3 gph	—
B2VA-8216	3450	R.H.	R.H.	3 gph	—
B2YA-8916*	3450	R.H.	R.H.	7 gph	3 gph at 200 psi
B2VA-8241	3450	R.H.	R.H.	—	boost pump, 20 gph at 10-20 psi
B2VA-8242	2850	R.H.	R.H.	2.25 gph	—

*Applies to "-8" model numbers (shown on fuel unit). For example: "8916-8", etc.

NOTE (1) Viewed from shaft end.

Model B-8800 Two-Stage, Two-Step Fuel Units

Fuels – Suitable for No. 2 Fuel Oil

Pressure at 3450 RPM:

Low Fire: Factory set at 100 PSI;
Adjustable 100-200 PSI
(Solenoid De-energized)

High Fire: Factory set at 300 PSI;
Adjustable 200-300 PSI

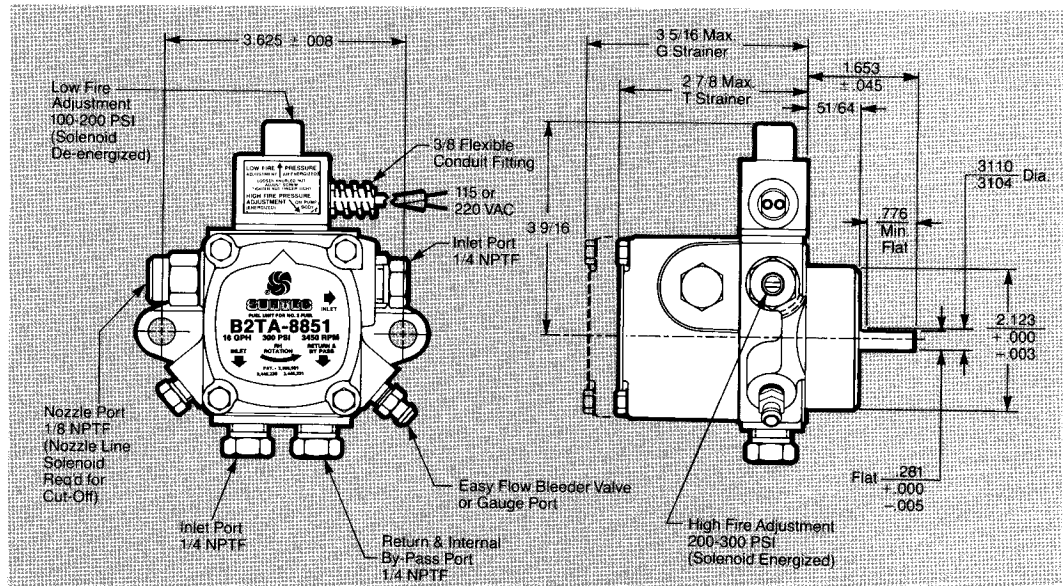
Model B-8200 Two-Stage High Capacity Fuel Units

Fuels – Suitable for No. 2 Fuel Oil

Pressure at 3450 RPM:

Models adjustable 100-150 PSI;
Factory set at 100 PSI

Models adjustable 200-300 PSI;
Factory set at 300 PSI



Two-Step Two-Stage Models Flange Mount

Model Number	RPM	Rotation ¹	Nozzle Port Location ¹	Strainer & Nozzle Rating at 300 psi
High Capacity Units				
B2VA-8243	3450	R.H.	R.H.	3 gph ²
B2TA-8245	3450	R.H.	R.H.	16 gph
B2TA-8248	3450	R.H.	R.H.	8 gph ³
Two-Step Units				
B2TA-8850*	3450	R.H.	R.H.	10 gph
B2TA-8851	3450	R.H.	R.H.	16 gph
B2GA-8852	3450	R.H.	R.H.	23 gph

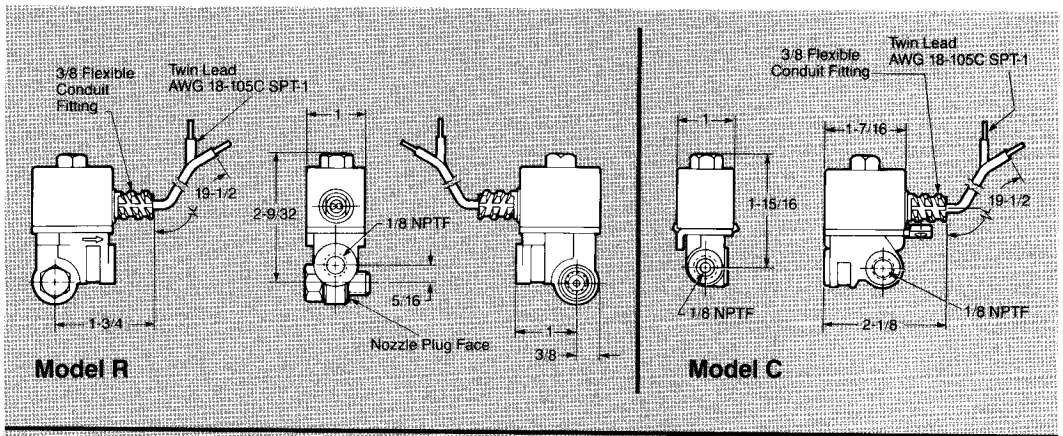
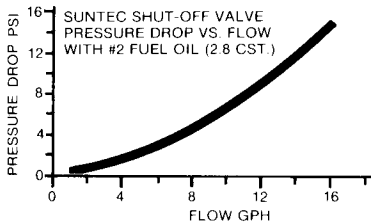
*Also apply to "B" model numbers (shown on fuel unit). For example: "8850-B", etc.

NOTES (1) Viewed from shaft end. (2) At 130 psi. (3) At 150 psi.

Model R & C Shut-Off Valves

Fuels – Suitable for kerosene, No. 1 or No. 2 Fuel Oil

Solenoid – 24V, .5A, 60 Hz
– 115 V, .1A, 60 Hz
– 220V, .05A, 50/60 Hz



Valve Model No.		Opening Response	Voltage (50/60 Hz.)	Max. Operating Pressure	Color Code	
Pump Mount	Burner Mount				Coil	Lead Wires
R642N	C642N	Non-Delay	115	300 psi	Black	Orange/White
R641D	C641D	Delay	115	150 psi	Grey	Orange/White
R753N	C753N	Non-Delay	220	300 psi	Black	Red/White
R261N	C261N	Non-Delay	24AC/12VDC	300 psi	Green	Orange/White

Specifications/Ordering Information

Model J Single Stage Fuel Units & Model H Two Stage Fuel Units

Fuels – Suitable for kerosene, No. 4 and lighter fuel oil. Special models available for gasoline.

Pressure (Standard) at 95-150 PSI. Do not adjust J2, JJ2, H2 or HH2 models higher than 110 PSI.

Special Pressure Spring Options

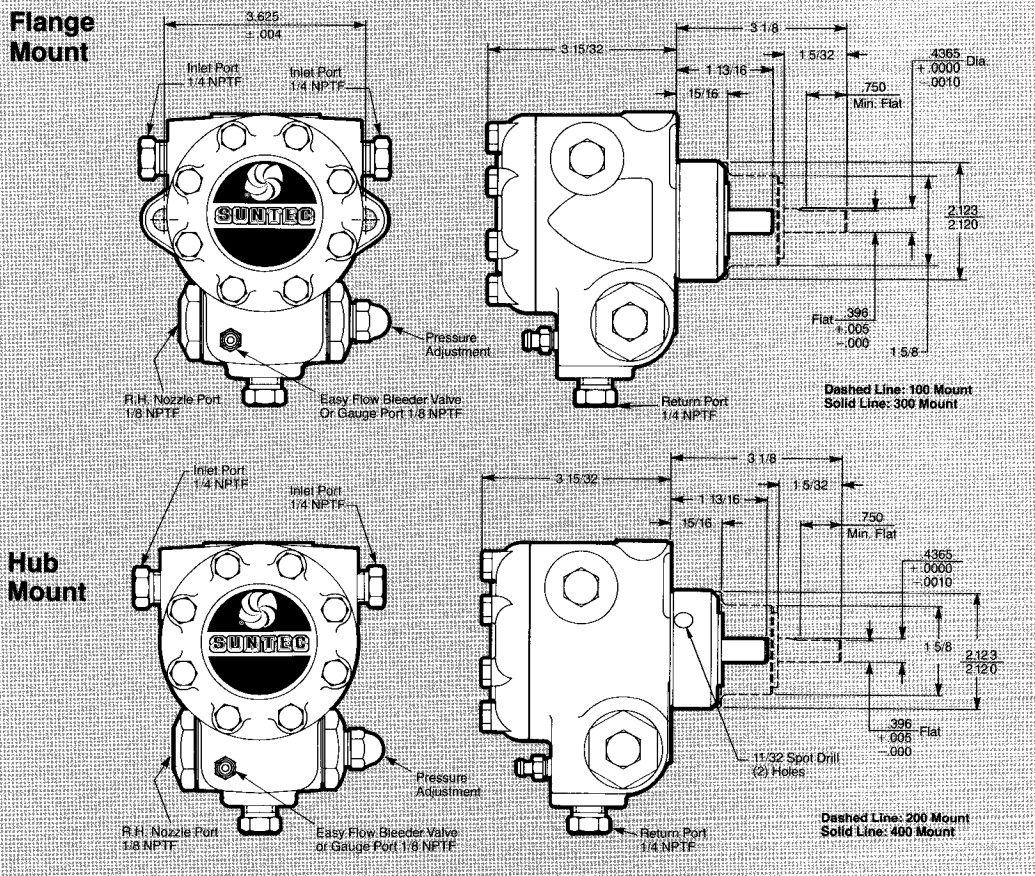
A = 20-40 PSI D = 40-80 PSI
 B = 75-200 PSI E = 10-20 PSI
 C = 150-300 PSI

Standard models are rated up to speeds of 3450 RPM.

Rotation – Indicated by a directional arrow on the fuel unit body and by a letter A, B, C, or D. (See below.)

Style Letter	Rotation*	Nozzle Port Location*
A	R.H.	R.H.
B	R.H.	L.H.
C	L.H.	L.H.
D	L.H.	R.H.

*As viewed from the shaft end. For additional information on various requirements, please consult the factory.

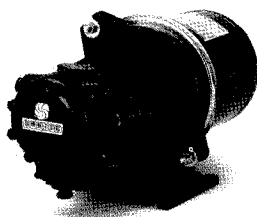


Model Number ¹	Piston Type	Maximum Firing Rate (gph)			
		1725 rpm		3450 rpm	
		100 psi	300 psi ²	100 psi	300 psi ³
JJ2	Std	—	—	3	—
JA2	HA2	—	—	7	—
JB2	Std	—	—	10	—
J2	H2	3	—	16	—
J3	Std	7	—	20	—
	G	8	—	24	10
	N	9	—	26	14
J4	Std	11	—	30	17
	N	13	—	33	23

Model Number ¹	Piston Type	Maximum Firing Rate (gph)			
		1725 rpm		3450 rpm	
		100 psi	300 psi ²	100 psi	300 psi ³
J5	H5	17	—	40	28
	N	19	5	46	32
J6	Std	24	7	55	40
	N	26	10	60	45
H7	Std	40	17	—	—
	N	42	20	—	—
H8	Std	80	47	—	—
	N	83	55	—	—

- NOTES:**
 (1) Do not adjust H2 and 3450 rpm-only models (HA, HB, HH) to higher than 110 psi.
 Do not adjust J2 and 3450 rpm-only models (JA, JB, JJ) to higher than 110 psi
 (2) Requires C spring (100-300 psi range).
 (3) Requires C spring and hardened gear.

BOOST PUMP



Item	Boost Model	Includes Pump Model	Pump Rotation (from shaft end)	Delivery gph
Complete Boost Pump Assembly: (Including Motor)	BB-1020M	B2VA-8241-5	R.H.	20
	BH-1030M	H3BA-E100B	R.H.	30
	BH-1070M	H6BA-E100B	R.H.	70
Boost Pump Assembly Less Motor: (Includes Pump, Bracket, Coupling and Motor Mounting Bolts)	BB-1020R	B2VA-8241-5	R.H.	20
	BH-1030R	H3BA-E100B	R.H.	30
	BH-1070R	H6BA-E100B	R.H.	70
Pressure Switch	P/N 128117		40VA & 150 psi Max.	
Adapter for 48N Motor	P/N 134462			

The above table lists leading particulars for the boost pump and the pressure switch supplied by Suntec.



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