
SUNTEC PERFORMANCE-PROVEN FUEL UNITS AND VALVES

...for residential and commercial applications

SUNTEC, THE INDUSTRY LEADERS ●
BUILT ON OUR COMMITMENT

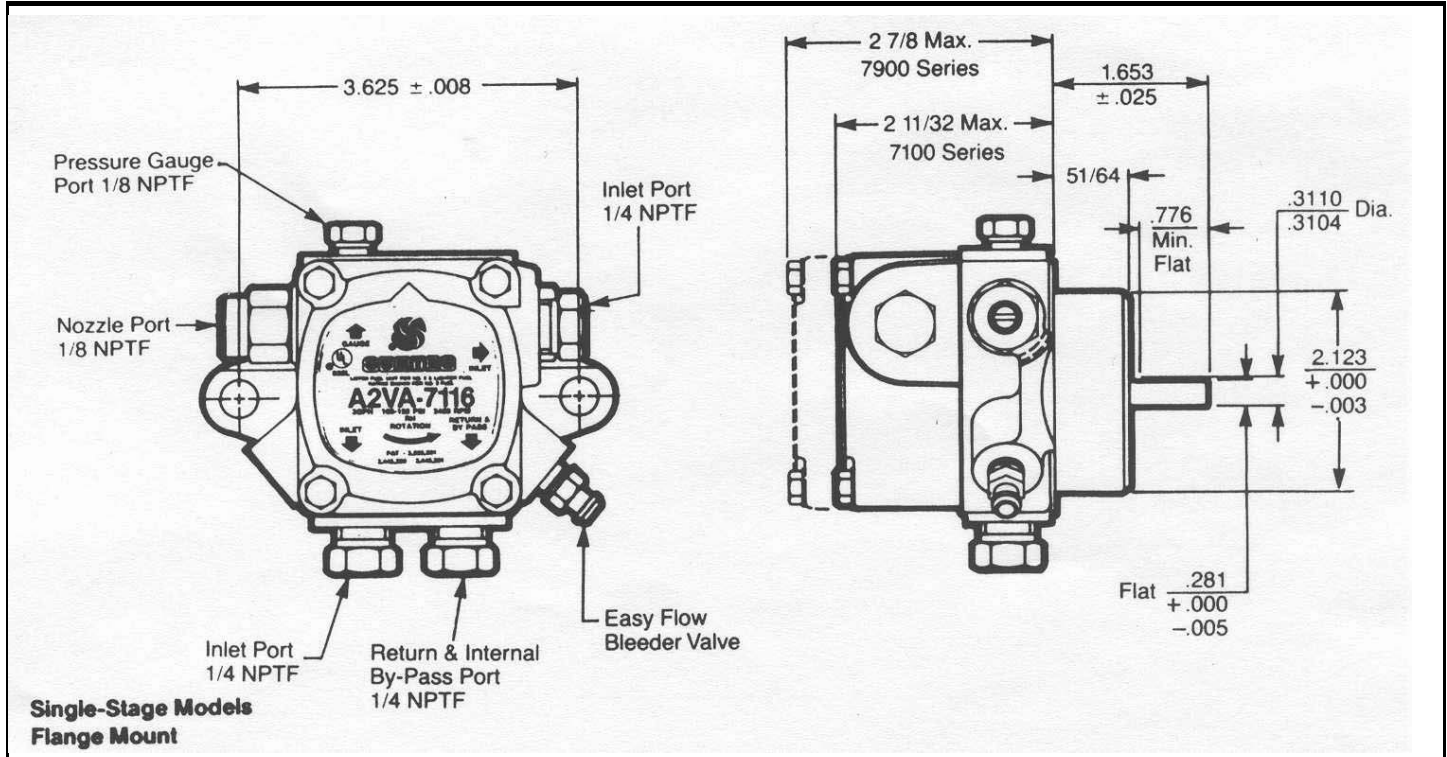
Knowing the industry's need and responding to them with the right products and services is one of the responsibilities of leadership. Over the years, Suntec has been committed to being involved, asking questions, listening and providing answers. Today, as the industry leaders, our involvement is as strong as ever. We still work hard to earn your trust in us as the experts in our field. You shouldn't have to settle for less.

MODEL A-7000 ● SINGLE-STAGE FUEL UNITS

- Single-pipe installations to 6" hg. vacuum
- Two-pipe installations to 12" hg. vacuum
- Lift or gravity feed applications with 10 psi maximum inlet/return pressure
- Choice of 1725, 2850, 3450 rpm
- Suitable for no. 2, no. 1 fuel oil, or kerosene
- Mounting in any position
- Factory-set at 100 psi
- Adjustable range 100-150 psi at 3450 rpm, 100-135 psi at 1725 rpm. Models available to 200 and 300 psi.



SPECIFICATIONS* /ORDERING INFORMATION



| 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-3006 | | | | | |
| 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 | -- |
| A2VA-7416 | 3450 | R.H. | R.H. | 3 gph | Solenoid dumping fuel unit |
| A2YA-7743 | 3450/2850 | R.H. | R.H. | 7 gph | |
| A2YA-7916 | 3450 | R.H. | R.H. | 7 gph | 3 gph at 200 psi |
| A2YA-7430 | 3450 | R.H. | R.H. | 3 gph | Solenoid dumping fuel unit |
| 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. | 2.5/2.5**gph | Waste oil application |
| A2RA-7737 | 3450/1725 | R.H. | R.H. | 2.5/2.5**gph | 10-20 psi waste oil application |
| A1RA-7738 | 1725 | R.H. | R.H. | 2.5 | Waste oil application |
| A2RA-7739 | 3450/1725 | R.H. | R.H. | 2.5/1.5 gph | 30-50 psi waste oil |

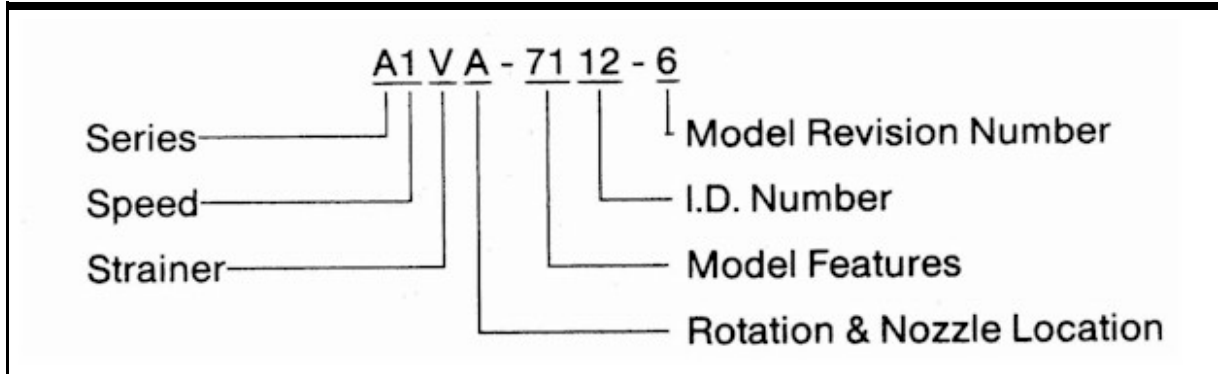
*Also apply to "-6" model numbers (shown on fuel unit).

For example: "7916-6," etc. ¹Viewed from shaft end.

**Use gage port for rated flow @ 1725 rpm, no cut off.

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

Typical Model Number Nomenclature (Model A & Model B):*



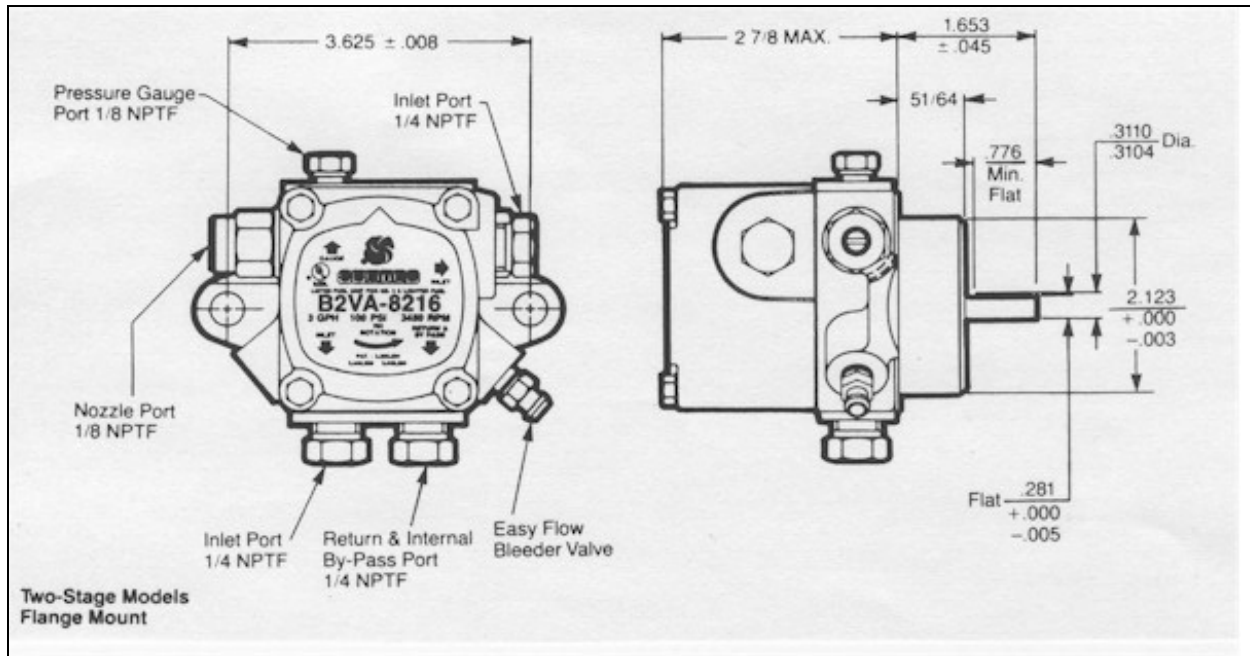
*The model number appears on the fuel unit label.

MODEL B-8000 • TWO-STAGE FUEL UNITS

- Two-pipe installations up to 17" hg. vacuum
- Lift or gravity feed applications with 10 psi maximum inlet/return pressure
- Capacities to 7 gph, except boost pumps
- Factory-set at 100 psi
- Pressure adjustable from 100 to 150 psi at 3450 rpm, 100 to 135 psi at 1725 rpm. Models available to 200 and 300 psi
- Choice of 1725, 2850, 3450 rpm
- Suitable for no.2, no.1 fuel oil, or kerosene
- Mounting in any position except upside down.



SPECIFICATION*/ORDERING INFORMATION



| 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-8416 | 3450 | R.H. | R.H. | 3 gph | Solenoid dumping fuel unit |
| 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 | -- |

*Also apply to “-8” model numbers (shown on fuel unit). For example: “8212-6,” etc.

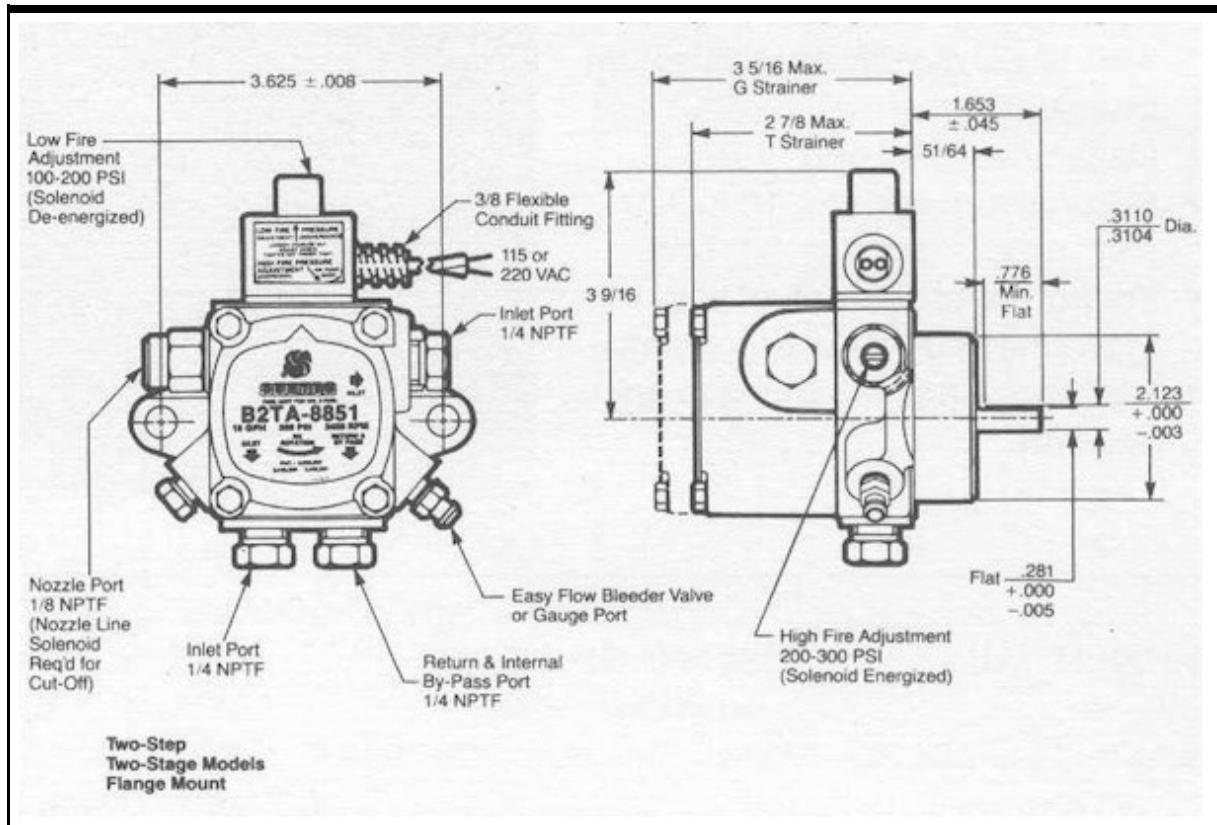
¹Viewed from shaft end.

**MODEL B-8200 • TWO-STAGE HIGH CAPACITY
HIGH PRESSURE (NOT PICTURED) AND
MODEL B-8800 • TWO-STEP TWO-STAGE**

- Two-pipe installations up to 17" hg. Vacuum
- Lift or gravity feed applications with 10 psi maximum inlet/return pressure
- Adjustable manual or automatic high/low firing
- High efficiency burner applications
- Capacities to 23 gph
- Pressure adjustable (100 to 200 psi low fire, 200-300 psi high fire)
- For no. 2 fuel oil. For other fuels, consult factory
- Two-bolt flange mounting in any position except upside down.



SPECIFICATIONS*/ORDERING INFORMATION



| 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 “-8” model numbers (shown on fuel unit). For example: “8850-8,” etc.

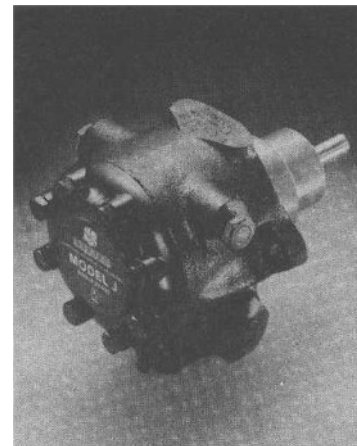
¹Viewed from shaft end.

²At 130 psi.

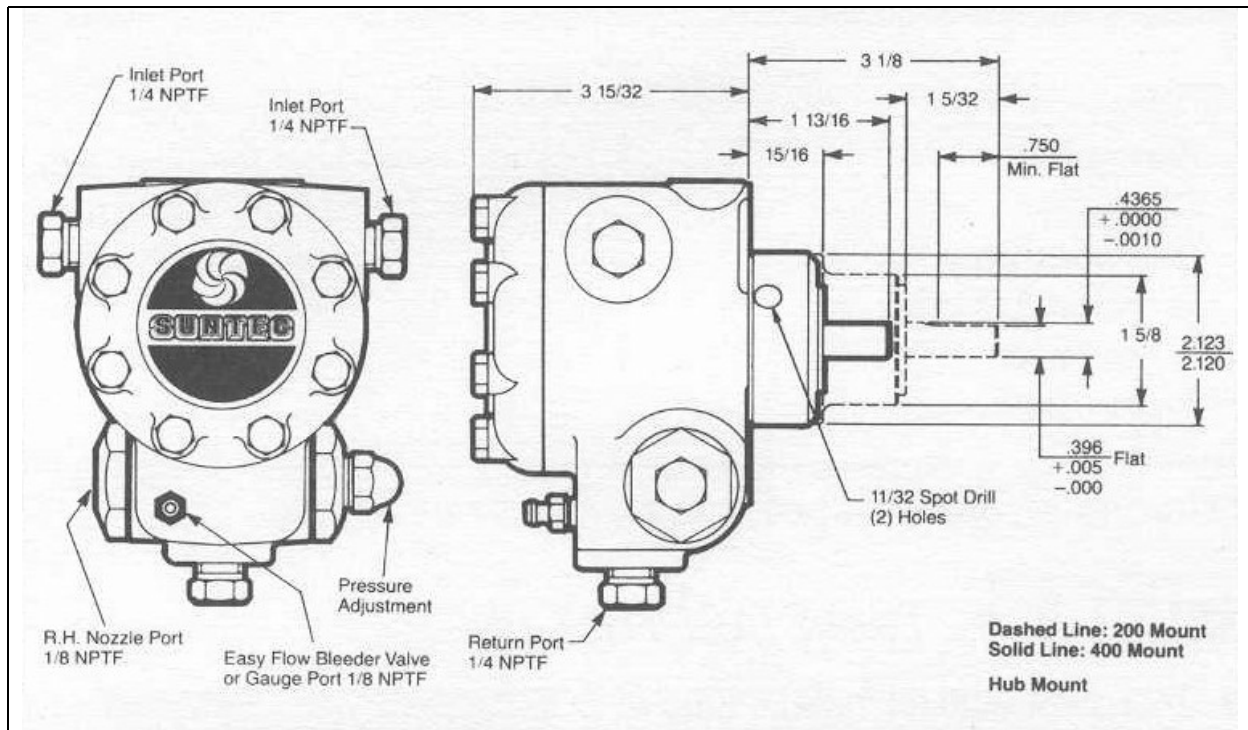
³At 150 psi.

MODEL J • SINGLE-STAGE FUEL UNITS

- Single-pipe gravity feed installations
- Two-pipe lift installations to 12” hg. vacuum
- Lift or gravity feed applications with 10 psi maximum inlet/return pressure
- Capacities to 60 gph
- Six pressure options, 10 to 300 psi*
- For no. 4 and lighter fuel oils (gasoline and JP fuels, special)
- Hub and flange mounting in any position.



SPECIFICATION* /ORDERING INFORMATION



| 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 | Std. | -- | -- | 7 | -- |
| JB2 | Std. | -- | -- | 10 | -- |
| J2 | Std. | 3 | -- | 16 | -- |
| J3 | Std. | 7 | -- | 20 | -- |
| | G | 8 | -- | 24 | 10 |
| | N | 9 | -- | 26 | 14 |
| J4 | Std. | 11 | -- | 30 | 17 |
| | N | 13 | -- | 33 | 23 |
| J5 | Std. | 17 | -- | 40 | 28 |
| | N | 19 | 5 | 46 | 32 |
| J6 | Std. | 24 | 7 | 55 | 40 |
| | N | 26 | 10 | 60 | 45 |

*Special Pressure Spring Choices:

A = 20-40 psi

C = 150-300 psi

E = 10-20 psi

B = 75-200 psi

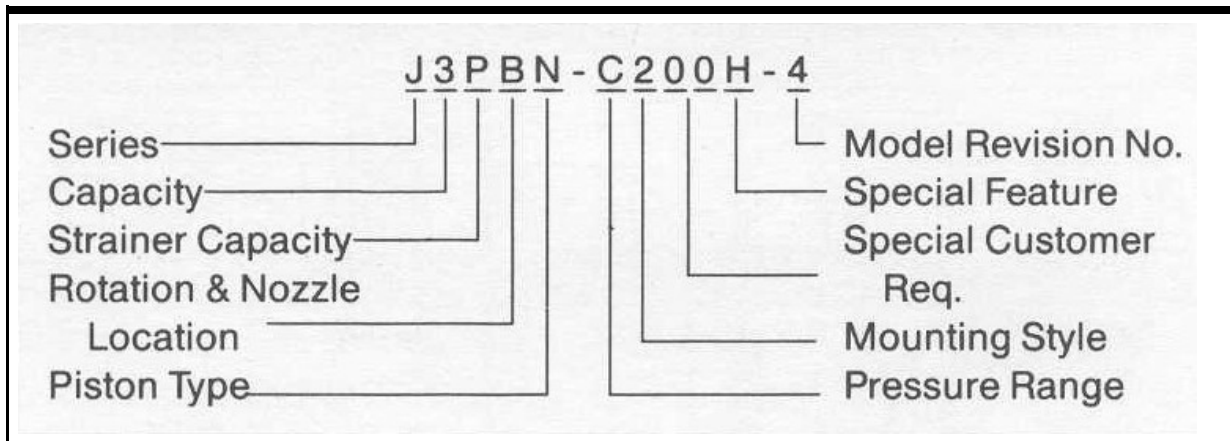
D = 40-80 psi

¹Do not adjust J2 and 3450 rpm-only models (JA, JB, JJ) to higher than 100 psi.

²Requires C spring (100-300 psi range).

³Requires C spring and hardened gear.

Typical Model Number Nomenclature (Model J & Model H):*



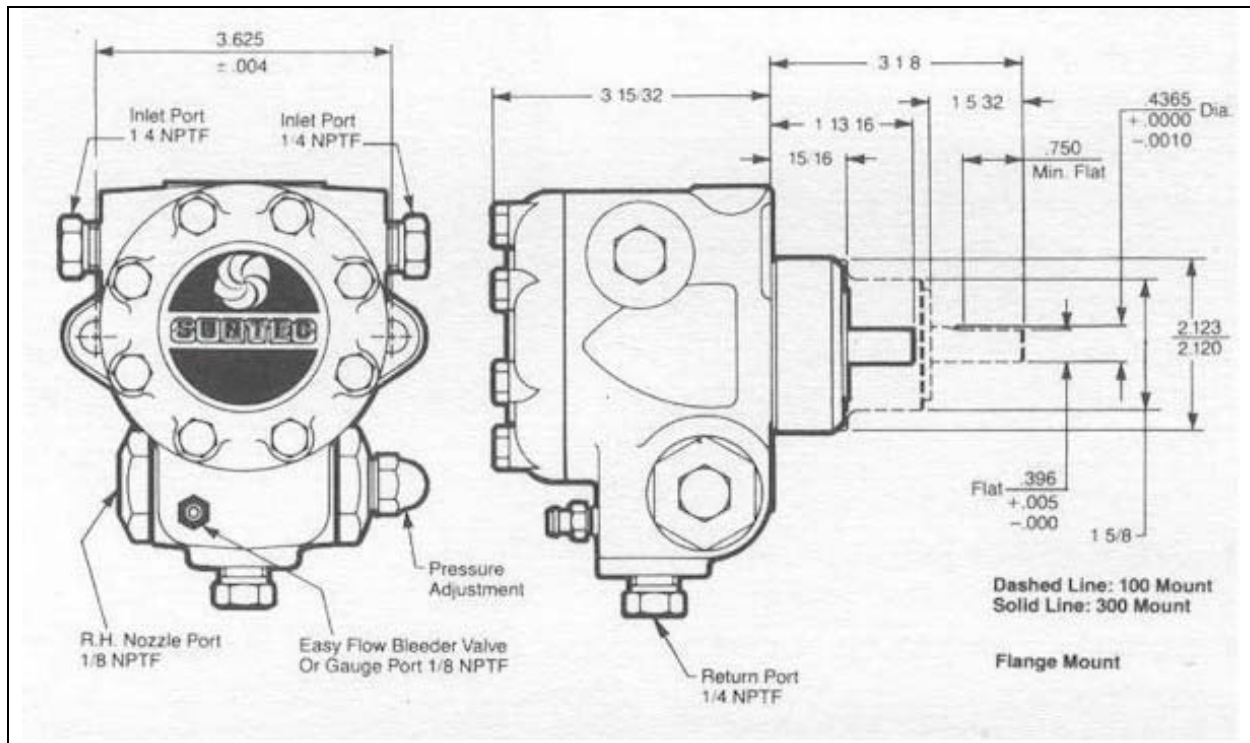
* The model number appears on the top of the fuel unit.

MODEL H TWO-STAGE FUEL UNITS

- Two-pipe high lift installations to 17" hg. vacuum
- Capacities to 83 gph
- Lift or gravity feed applications with 10 psi maximum inlet/return pressure
- Six pressure options, 10 to 300 psi*
- For no. 4 and lighter fuel oils (gasoline and JP fuels, special)
- Three hub and flange mounting options: Model H may be mounted with the valve horizontal at either the top or bottom. Valve may be mounted vertical provided the adjusting screw is at the top of CW rotation-left nozzle and CCW rotation-right nozzle models, or adjusting screw at bottom on CW rotation-right nozzle and CCW rotation-left nozzle models.



SPECIFICATIONS* /ORDERING INFORMATION



| Model Number ¹ | Piston Type | Maximum Firing Rate* (gph) | | | |
|---------------------------|-------------|----------------------------|----------------------|----------|----------------------|
| | | 1725 rpm | | 3450 rpm | |
| | | 100 psi | 300 psi ² | 100 psi | 300 psi ³ |
| HA2 | Std. | -- | -- | 7 | -- |
| H2 | Std. | 3 | -- | 16 | -- |
| H3 | Std. | 7 | -- | 20 | -- |
| | G | 8 | -- | 24 | 10 |
| | N | 9 | -- | 26 | 14 |
| H4 | Std. | 11 | -- | 30 | 17 |
| | N | 13 | -- | 33 | 23 |
| H5 | Std. | 17 | -- | 40 | 28 |
| | N | 19 | 5 | 46 | 32 |
| H6 | Std. | 24 | 7 | 55 | 40 |
| | N | 26 | 10 | 60 | 45 |
| H7 | Std. | 40 | 17 | -- | -- |
| | N | 42 | 20 | -- | -- |
| H8 | Std. | 80 | 47 | -- | -- |
| | N | 83 | 55 | -- | -- |

*Special Pressure Spring Choices:

A = 20-40 psi

C = 150-300 psi

E = 10-20 psi

B = 75-200 psi

D = 40-80 psi

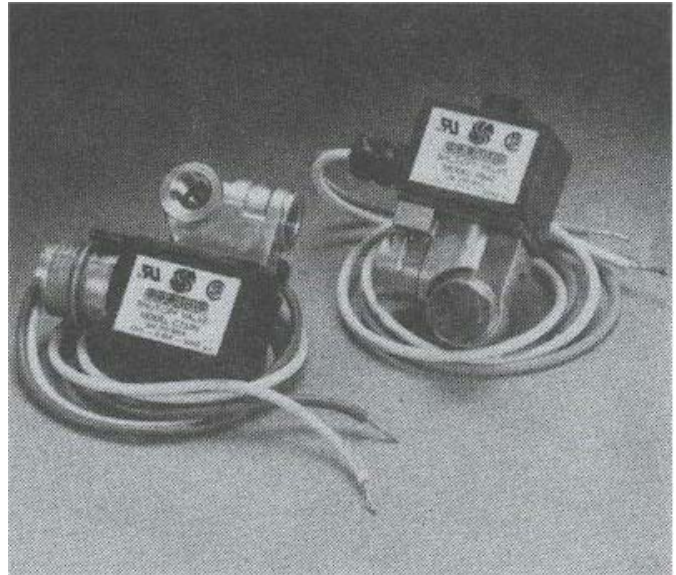
¹Do not adjust H2 and 3450 rpm-only models (HA, HB, HH) to higher than 110 psi.

²Requires C spring (100-300 psi range).

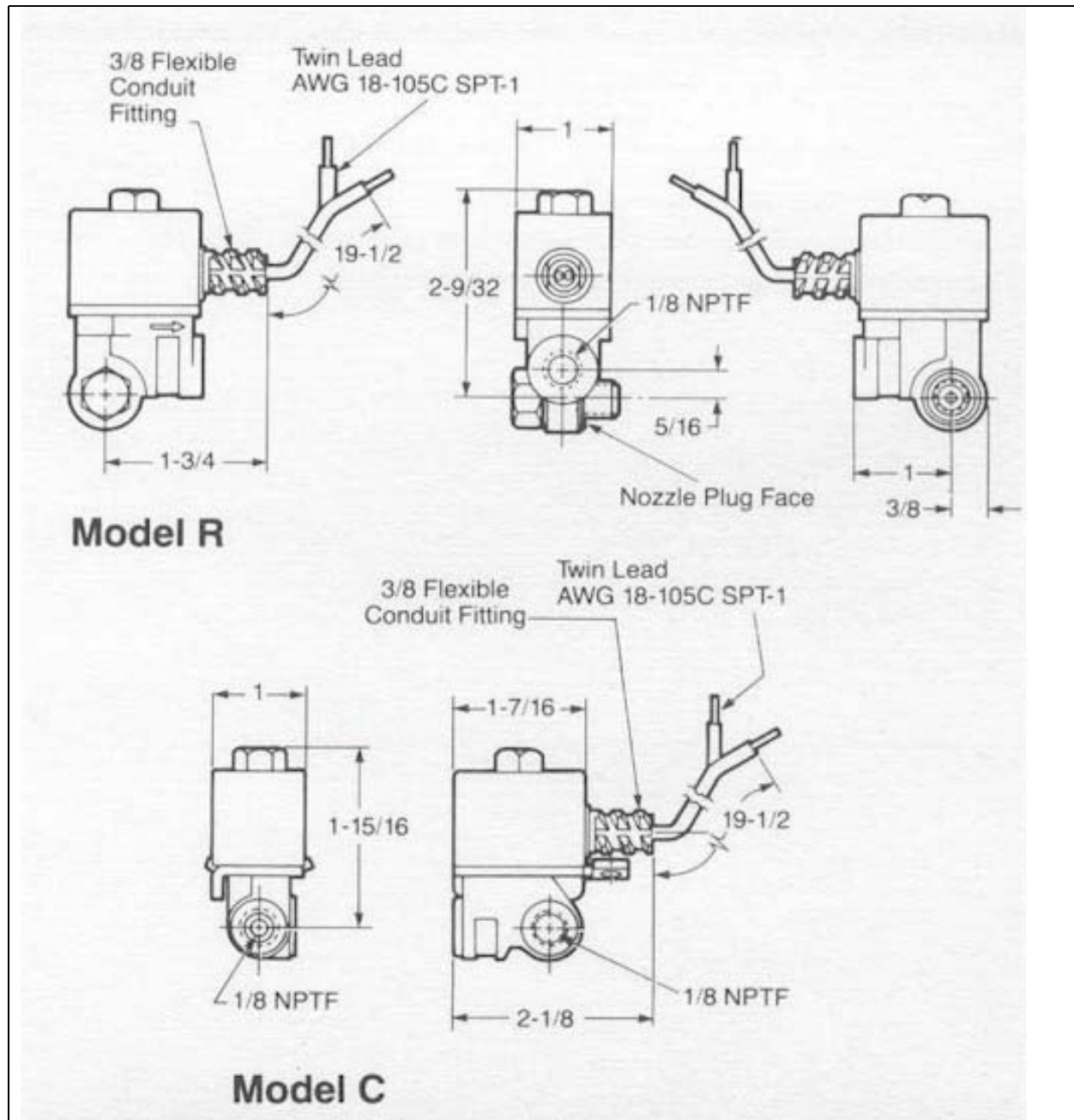
³Requires C spring and hardened gear.

MODEL R & C • SHUT-OFF VALVES

- For instantaneous, redundant cutoff of fuel supply
- Provides back-up protection
- Closes when current to solenoid coil is interrupted
- Blocks oil flow to nozzle
- Delay or non-delay opening
- Two model choices: Model R mounts to fuel unit; Model C mounts to burner or other remote locations
- Easy installation
- Use with any fuel unit rated up to 16 gph
- Suitable for no. 2, no. 1 fuel oil or kerosene
- Mount in any position

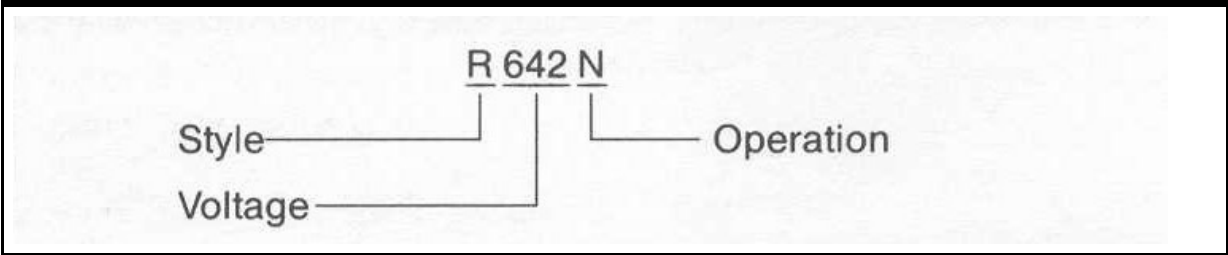


SPECIFICATIONS/ ORDERING INFORMATION



| Valve Model No. | | Opening Response | Voltage (50/60 Hz.) | Maximum 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 | 24 | 300 psi | Green | Blue/Brown/ Yellow & Green |

**Typical Model Number Nomenclature
(Model R & Model C):***



*The model number appears on the valve label.