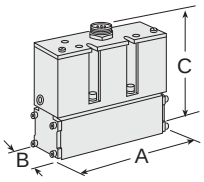
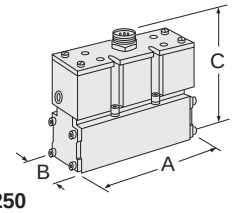
Spool & Sleeve Valves for SAE Sub-Bases Series 80

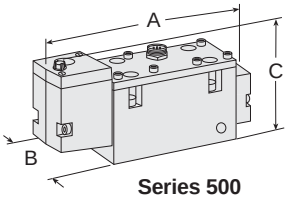
5/2 Spool Valves



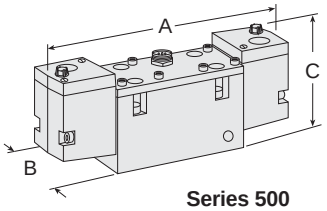
Series 125
Single or Double Solenoid



Series 250
Single or Double Solenoid



Series 500
Single Solenoid



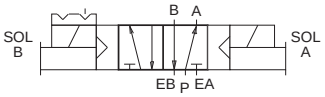
Series 500
Double Solenoid

Valve Model Numbers (Base not included)

SAE Series	Type of Wiring Ford	Chrysler	Hardwire	Avg. C_v	Dimensions inches (mm) A	B	C	Weight lb (kg)
Single Solenoid Pilot Valves								
125	8076C3331	8076C3341	8076C3351	1.4	5.5 (140)	1.8 (45)	5.1 (129)	3.5 (1.6)
250	8076C4331	8076C4341	8076C4351	4.0	7.3 (185)	2.6 (65)	5.6 (142)	6.5 (2.9)
500	8076C6331	8076C6341	8076C6351	8.2	10.1 (257)	3.0 (76)	4.8 (121)	8.3 (3.7)
Double Solenoid Pilot Valves								
125	8076C3332	8076C3342	8076C3352	1.4	5.5 (140)	1.8 (45)	5.1 (129)	3.5 (1.6)
250	8076C4332	8076C4342	8076C4352	4.0	7.3 (185)	2.6 (65)	5.6 (142)	7.0 (3.2)
500	8076C6332	8076C6342	8076C6352	8.0	11.2 (285)	3.0 (76)	4.8 (121)	9.5 (4.3)

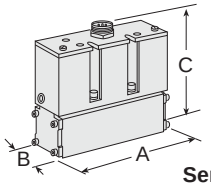
*Sub-bases and manifolds on pages 33-34.

Single Solenoid

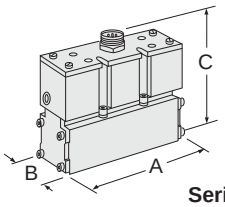


Double Solenoid

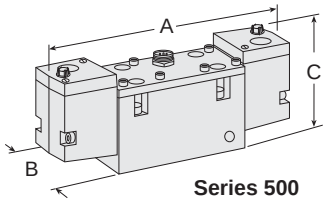
5/3 Spool Valves



Series 125



Series 250



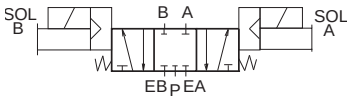
Series 500
Double Solenoid

Valve Model Numbers (Base not included)

SAE Series	Type of Wiring Ford	Chrysler	Hardwire	Avg. C_v	Dimensions inches (mm) A	B	C	Weight lb (kg)
Power Center Solenoid Pilot Valves								
125	8077C3910	8077C3904	–	1.4	5.5 (140)	1.8 (45)	5.1 (129)	3.5 (1.6)
250	8077C4907	8077C4904	–	4.0	7.3 (185)	2.6 (65)	5.6 (142)	6.5 (2.9)
Open Center Solenoid Pilot Valves								
125	8077C3332	8077C3342	8077B3352	1.4	5.5 (140)	1.8 (45)	5.1 (129)	3.5 (1.6)
250	8077C4332	8077C4342	8077B4352	4.0	7.3 (185)	2.6 (65)	5.6 (142)	7.0 (3.2)
500	8077C6332	8077C6342	8077B6352	8.0	12.0 (306)	3.0 (76)	4.8 (121)	9.5 (4.3)
Closed Center Solenoid Pilot Valves								
125	8077C3331	8077C3341	8077B3351	1.4	5.5 (140)	1.8 (45)	5.1 (129)	3.5 (1.6)
250	8077C4331	8077C4341	8077B4351	4.0	7.3 (185)	2.6 (65)	5.6 (142)	7.0 (3.2)
500	8077C6331	8077C6341	8077B6351	8.0	12.0 (306)	3.0 (76)	4.8 (121)	9.5 (4.3)

*Sub-bases and manifolds on pages 33-34.

Power Center



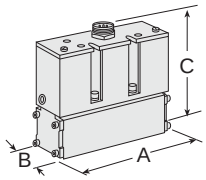
Closed Center

Open Center

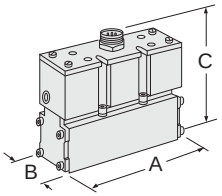
STANDARD SPECIFICATIONS (for valves on this page)**:**
Solenoids: AC or DC power. Rated for continuous duty.
Standard Voltages:
Series 125, 250 models: 100-110 volts, 50 Hz; 100-120 volts, 60 Hz; 24 volts DC; 110 volts DC. For other voltages, consult ROSS.
Series 500 models: 100-110 volts, 50 Hz; 100-120 volts, 60 Hz; 24 volts DC; 110 volts DC. For other voltages, consult ROSS.
Power Consumption: Each solenoid:
Series 125, 250 models: 8 VA inrush; 6 VA holding on 50/60 Hz; 8 watts on DC.
Power Consumption: Each solenoid:
Series 500 models: 87 VA inrush; 30 VA holding on 50/60 Hz; 14 watts on DC.
Indicator Light: One for each solenoid.
Ambient Temperature: 40° to 120°F (4° to 50°C).
Media Temperature: 40° to 175°F (4° to 80°C).
Flow Media: Filtered air; 5 micron recommended.
Inlet Pressure: Vacuum to 150 psig (10 bar).
Pilot Pressure: At least 15 psig (1 bar).
Options: Pressure Controlled Valves–Interposed Pressure Regulators.

IMPORTANT NOTE: Please read carefully and thoroughly all of the **CAUTIONS** on the inside back cover.

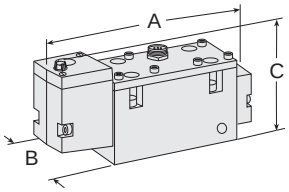
Poppet Valves for SAE Sub-Bases Series 84



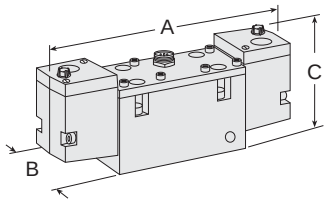
Series 125
Single or Double Solenoid



Series 250
Single or Double Solenoid

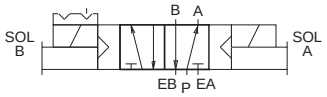


Series 500
Single Solenoid



Series 500
Double Solenoid

Single Solenoid



Double Solenoid

SAE Series	Valve Model Numbers (Base not included) Type of Wiring Ford	Chrysler	Hardwire	Avg. C_v	Dimensions inches (mm) A	B	C	Weight lb (kg)
Single Solenoid Pilot Valves								
125	8476C3331	8476C3341	8476C3351	1.8	5.5 (140)	1.8 (45)	5.1 (129)	2.8 (1.3)
250	8476C4331	8476C4341	8476C4351	5.5	7.3 (185)	2.6 (65)	5.6 (142)	5.2 (2.4)
500	8476C6331	8476C6341	8476C6351	7.9	10.1(257)	3.0 (76)	4.8 (121)	7.7 (3.5)
Double Solenoid Pilot Valves								
125	8476C3332	8476C3342	8476C3352	1.8	5.5 (140)	1.8 (45)	5.1 (129)	3.3 (1.5)
250	8476C4332	8476C4342	8476C4352	5.7	7.3 (185)	2.6 (65)	5.6 (142)	5.7 (2.6)
500	8476C6332	8476C6342	8476C6352	7.6	11.2 (285)	3.0 (76)	7.1 (180)	8.9 (4.1)

* Sub-bases and manifolds on pages 33-34.

Interposed devices are also available, for more information, refer to Bulletin 376D (form number A10084).

IMPORTANT NOTE:

The C_v values given in the table above should not be used in comparing ROSS valves with those of other makers. These C_v values are intended only for use with performance charts published by ROSS. The C_v ratings in the chart above are averages for the various flow paths through the valve and are for steady flow conditions.

STANDARD SPECIFICATIONS (for valves on this page)**:**
Solenoids: AC or DC power. Rated for continuous duty.
Standard Voltages:
Series 125, 250 models: 100-110 volts, 50 Hz; 100-120 volts, 60 Hz; 24 volts DC; 110 volts DC. For other voltages, consult ROSS.
Series 500 models: 100-110 volts, 50 Hz; 100-120 volts, 60 Hz; 24 volts DC; 110 volts DC. For other voltages, consult ROSS.
Power Consumption: Each solenoid:
Series 125, 250 models: 8 VA inrush; 6 VA holding on 50/60 Hz; 8 watts on DC.
Series 500 models: 87 VA inrush; 30 VA holding on 50/60 Hz; 14 watts on DC.

Indicator Light: One for each solenoid.
Ambient Temperature: 40° to 120°F (4° to 50°C).
Media Temperature: 40° to 175°F (4° to 80°C).
Flow Media: Filtered air.
Inlet Pressure: 30 to 150 psig (10 bar).
Pilot Pressure: Must be equal to or greater than inlet pressure.
Options: Pressure Controlled Valves–Interposed Pressure Regulators.

IMPORTANT NOTE: Please read carefully and thoroughly all of the **CAUTIONS** on the inside back cover.

Sub-Bases for SAE Valves Series 80 & 84

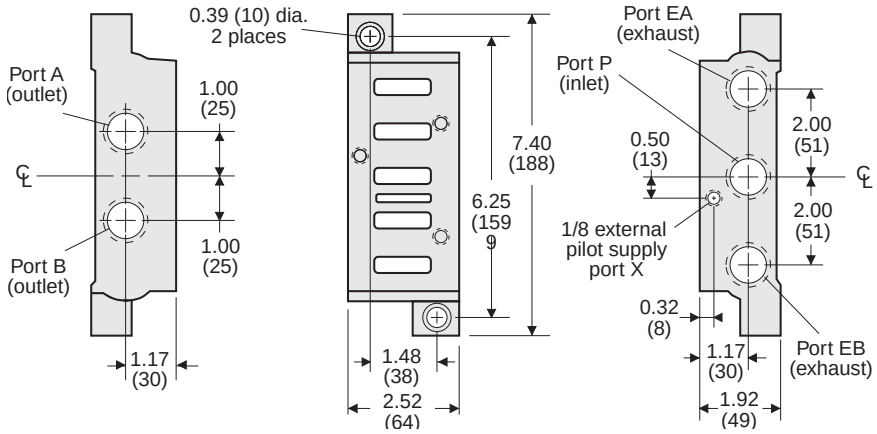
Side-Ported

Dimensions: inches (mm)

Series 125

Sub-Base Number	Port Size* A, B	P, EA, EB
577K91	1/8	1/4
578K91	1/4	3/8
579K91	3/8	3/8

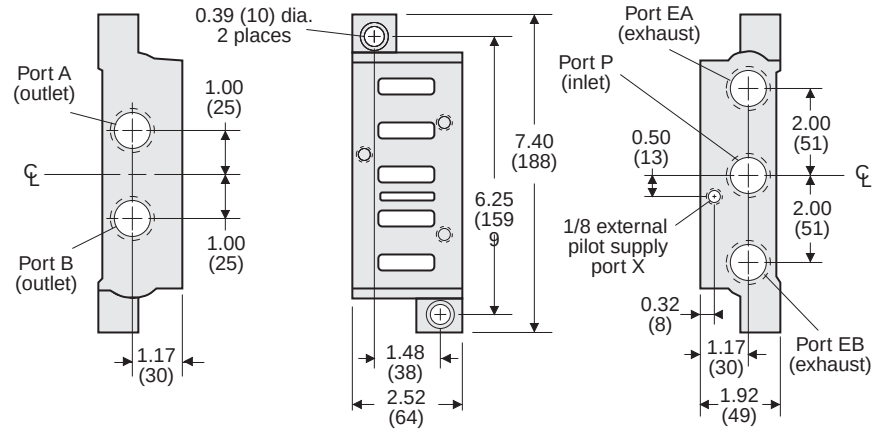
*NPT threads. For SAE threads, consult ROSS.



Series 250

Sub-Base Number	Port Size* A, B	P, EA, EB
539K91	1/4	3/8
540K91	3/8	1/2
541K91	1/2	1/2
542K91	3/4	3/4

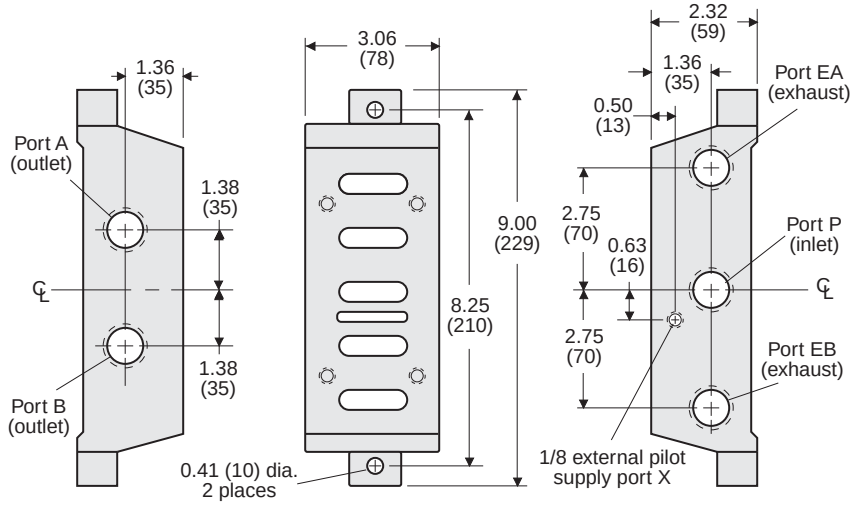
*NPT threads. For SAE threads, consult ROSS.



Series 500

Sub-Base Number	Port Size* A, B	P, EA, EB
582K91	1/2	3/4
728K91	3/4	3/4
583K91	3/4	1
584K91	1	1

*NPT threads. For SAE threads, consult ROSS.



Manifolds for SAE Valves Series 80 & 84

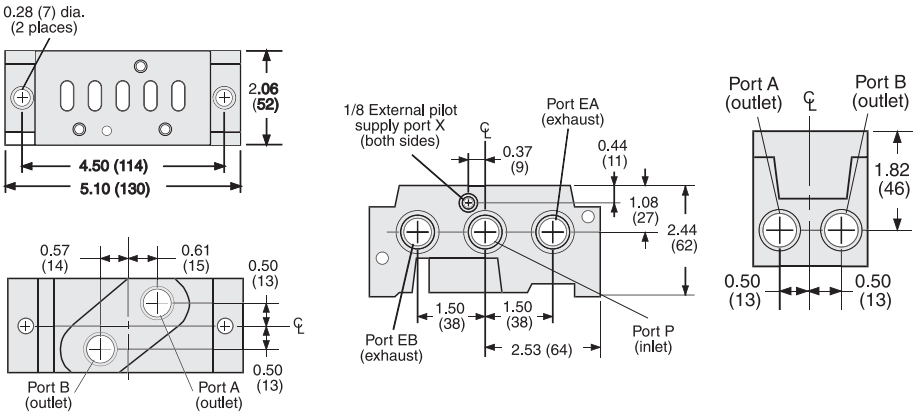
Series 125 Manifold Stations

Dimensions: inches (mm)

Station Number	Port Sizes* A, B	P, EA, EB
580K91	1/4	3/8
581K91	3/8	3/8

*NPT threads. For SAE threads, consult ROSS.

Blanking Plate: For manifold stations not occupied by a valve, blanking plates are available. These plates block the unused air passages.
Order by part number **820K77.**

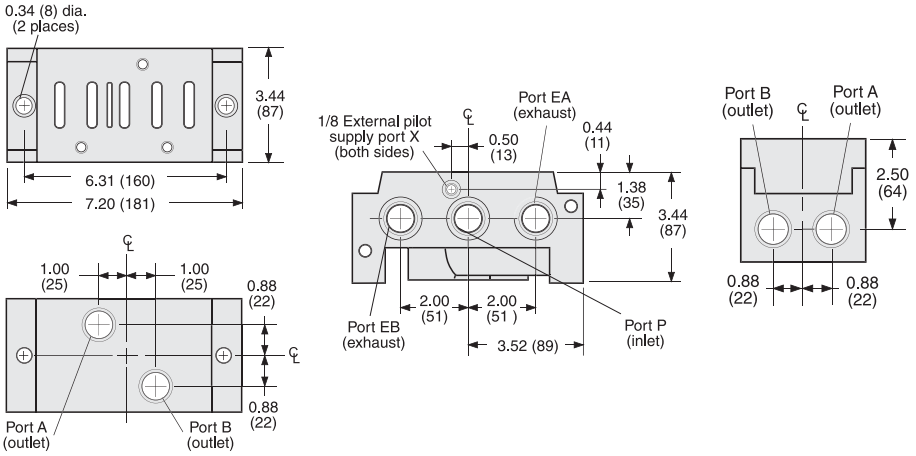


Series 250 Manifold Stations

Station Number	Port Sizes* A, B	P, EA, EB
553K91	3/8	1/2
554K91	1/2	3/4
555K91	3/4	3/4

*NPT threads. For SAE threads, consult ROSS.

Blanking Plate: For manifold stations not occupied by a valve, blanking plates are available. These plates block the unused air passages.
Order by part number **821K77.**

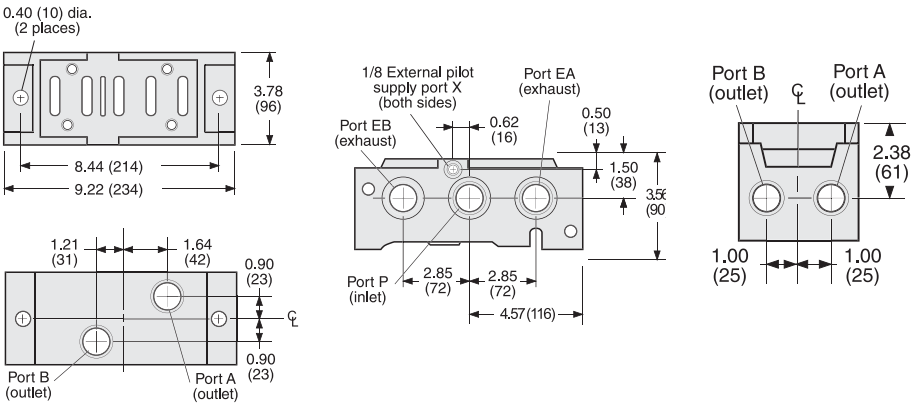


Series 500 Manifold Stations

Station Number	Port Sizes* A, B	P, EA, EB
585K91	1/2	3/4
586K91	3/4	1
587K91	1	1

*NPT threads. For SAE threads, consult ROSS.

Blanking Plate: For manifold stations not occupied by a valve, blanking plates are available. These plates block the unused air passages.
Order by part number **822K77.**



Manifolds supplied with all necessary seals and hardware for assembly. End plates not required with these manifolds. Each station has all ports threaded to accept piping.

Manual Override Kits for Series 500 Valves available. For more information, refer to Bulletin 376D (form number A10084).

IMPORTANT NOTE: Please read carefully and thoroughly all of the **CAUTIONS** on the inside back cover.