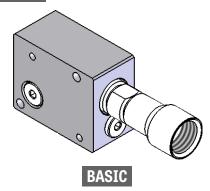
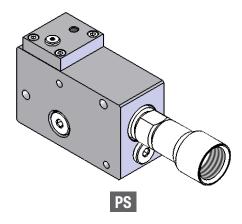
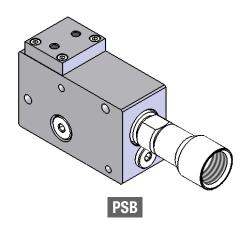
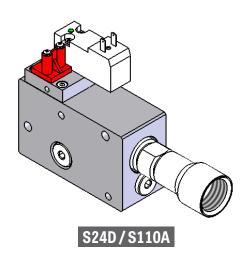
J PUMPS SECTION 13

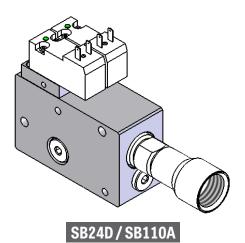






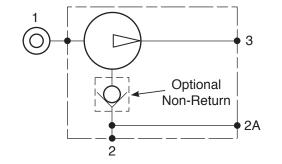


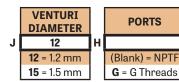




Basic Pumps	13:3 - 13:4
PS: Air Pilot Controlled Air Supply	13:5 - 13:6
PSB: Air Pilot Controlled Air Supply & Blow-Off	13:7 - 13:8
S24D / S110A: Solenoid Controlled Air Supply	13:9 - 13:10
SB24D / S110A: Solenoid Controlled Air Supply & Blow-Off	13:11 - 13:12
Options	13:13
Accessories	13:13
Performance	13:14

Basic J-series pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. Vacuum on/off control is accomplished via external control valves in the pump air supply. An optional non-return vacuum check valve is available for use in sealed systems, but some method of releasing vacuum must be added to the system – see RC18 Release Check. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level.



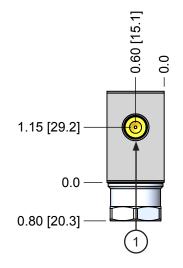


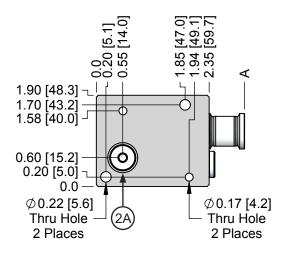
	NON RETURN
-	
ĺ	(Blank) = No
	NR = Yes

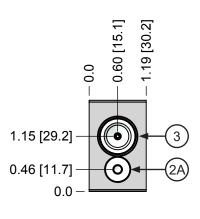
	SILENCER
-	
1	(Blank) = None
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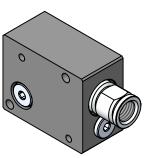
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/4 NPSF	G 1/4 NPSF

VENTURI DIAMETER	A in [mm]
12	3.09 [78.5]
15	3.49 [88.7]

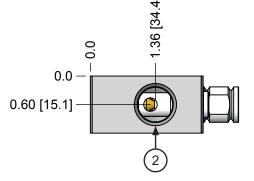




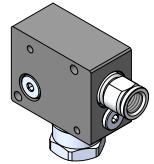




Weight: 0.47 lbs [213.0 g]

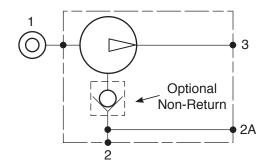


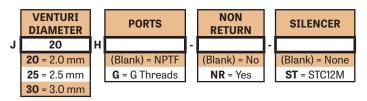
Non-Return Valve Option



Weight: 0.52 lbs [236.0 g]

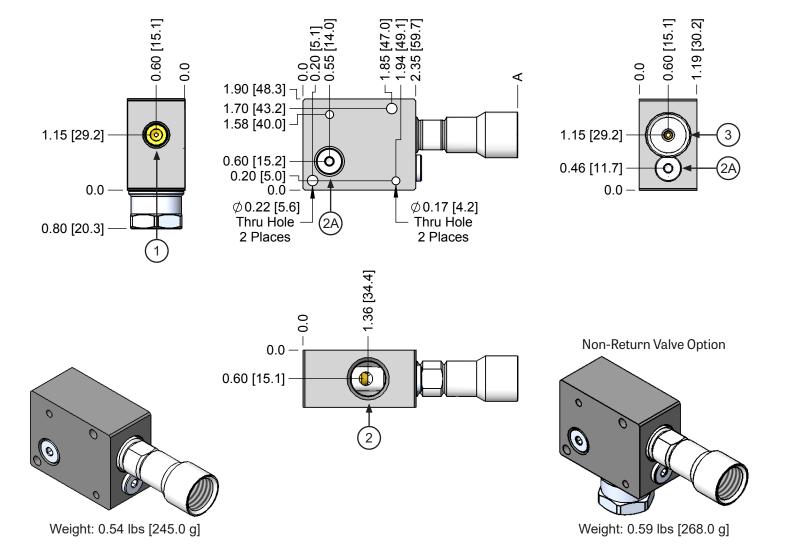
Basic J-series pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. Vacuum on/off control is accomplished via external control valves in the pump air supply. An optional non-return vacuum check valve is available for use in sealed systems, but some method of releasing vacuum must be added to the system – see RC18 Release Check. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level.





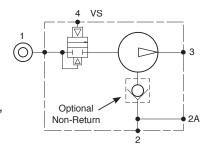
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/2 NPSF	G 1/2 NPSF

VENTURI	Α
DIAMETER	in (mm)
20	4.47 (113.5)
25	4.87 (123.6)
30	5.71 (144.9)



J SERIES PUMPS PS: AIR PILOT CONTROLLED VACUUM SUPPLY

Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral pilot-operated valve provides on/off vacuum control. An optional non-return vacuum check valve is available for use in sealed systems, but some method of releasing vacuum must be added to the system – see RC18 Release Check. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2" vacuum port readily handles the high vacuum flow produced by coaxial ejectors.



Air-pilot operation simplifies integration into field-bus systems by shifting electrical control to a bank of pneumatic 3-way solenoid valves. Flexing control wires in an automation system are replaced with small diameter air tubing for greater reliability.

VENTURI DIAMETER	A in (mm)
12	3.09 (78.5)
15	3.49 (88.7)

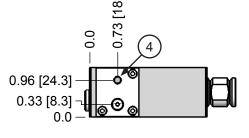


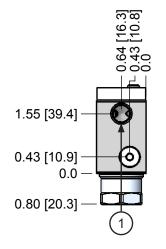


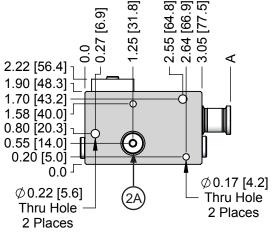
	NON RETURN	
S-		ĺ
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	NR = Yes	l

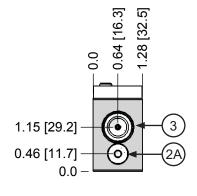
SILENCER	
-	
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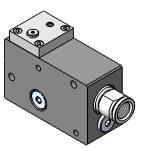
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/4 NPSF	G 1/4 NPSF
4	Pilot Signal - Vacuum	M5X0.8 (10-32 UNF)	M5X0.8 (10-32 UNF)



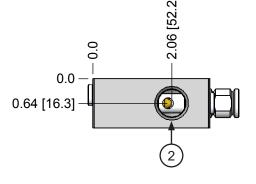




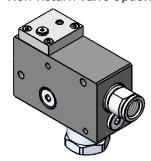




Weight: 0.69 lbs [313.0 g]



Non-Return Valve Option



Weight: 0.74 lbs [336.0 g]

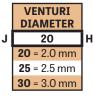
J SERIES PUMPS PS: AIR PILOT CONTROLLED VACUUM SUPPLY

Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral pilot-operated valve provides on/off vacuum control. An optional non-return vacuum check valve is available for use in sealed systems, but some method of releasing vacuum must be added to the system – see RC18 Release Check. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2" vacuum port readily handles the high vacuum flow produced by coaxial ejectors.

4 VS
Optional
Non-Return
2A

VENTURI DIAMETER	A in (mm)
20	4.47 (113.5)
25	4.87 (123.6)
30	5.71 (144.9)

Air-pilot operation simplifies integration into field-bus systems by shifting electrical control to a bank of pneumatic 3-way solenoid valves. Flexing control wires in an automation system are replaced with small diameter air tubing for greater reliability.

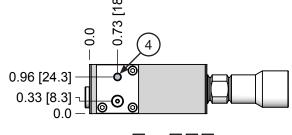


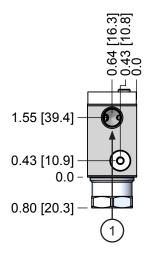


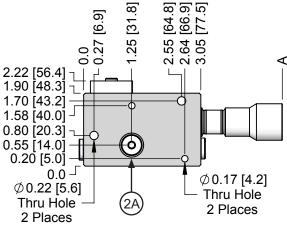
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S-		İ
	(Blank) = No	I
	NR = Yes	l

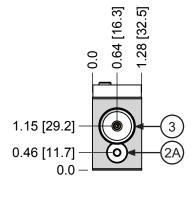
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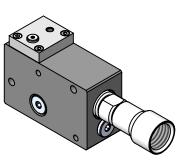
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/2 NPSF	G 1/2 NPSF
4	Pilot Signal - Vacuum	M5X0.8 (10-32 UNF)	M5X0.8 (10-32 UNF)



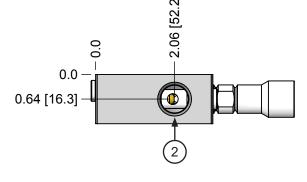




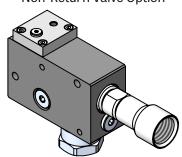




Weight: 0.76 lbs [345.0 g]



Non-Return Valve Option

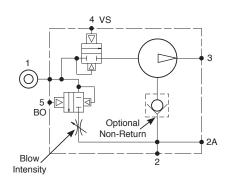


Weight: 0.81 lbs [367.0 g]

PSB: AIR PILOT CONTROLLED VACUUM SUPPLY & BLOW-OFF

Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral pilot-operated valve provides on/off vacuum control. A second integral pilot-operated valve provides quick-release air control, while an integral flow control valve that fine-tunes the blow intensity to suit the application. An optional non-return valve is available for use in sealed non-porous systems. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2" vacuum port readily handles the high vacuum flow produced by coaxial ejectors.

Air-pilot operation simplifies integration into field-bus systems by shifting electrical control to a bank of pneumatic 3-way solenoid valves. Flexing control wires in an automation system are replaced with small diameter air tubing for greater reliability.



VENTURI DIAMETER	A in (mm)
12	3.09 [78.5]
15	3.49 [88.7]

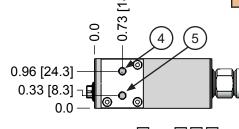


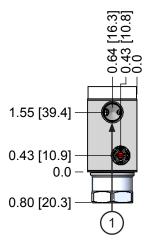
	PORTS
۱	
1	(Blank) = NPTF
	G = G Threads

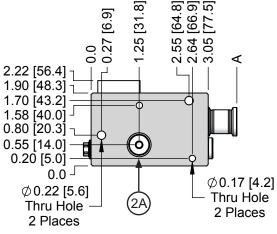
NON RETURN
(Blank) = No
NR = Yes

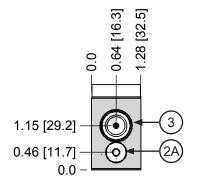
	SILENCER
-	
-	(Blank) = None
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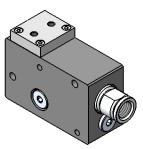
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/4 NPSF	G 1/4 NPSF
4	Pilot Signal - Vacuum	M5X0.8 (10-32 UNF)	M5X0.8 (10-32 UNF)
5	Pilot Signal - Blow-Off	M5X0.8 (10-32 UNF)	M5X0.8 (10-32 UNF)



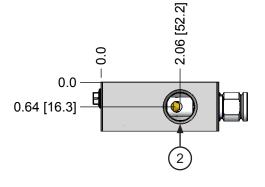




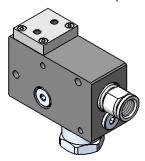




Weight: 0.69 lbs [313.0 g]



Non-Return Valve Option



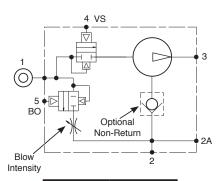
Weight: 0.74 lbs [336.0 g]

Weight: 0.76 lbs [345.0 g]

PSB: AIR PILOT CONTROLLED VACUUM SUPPLY & BLOW-OFF

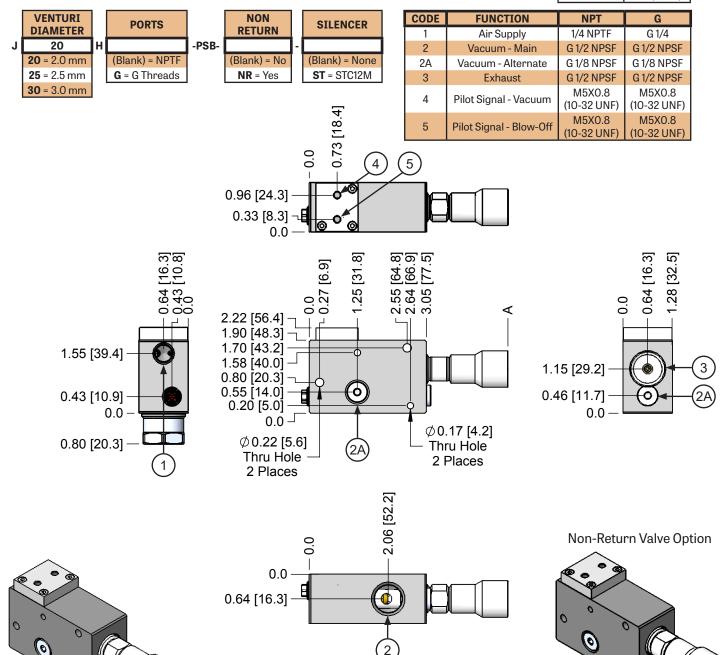
Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral pilot-operated valve provides on/off vacuum control. A second integral pilot-operated valve provides quick-release air control, while an integral flow control valve that fine-tunes the blow intensity to suit the application. An optional non-return valve is available for use in sealed non-porous systems. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2" vacuum port readily handles the high vacuum flow produced by coaxial ejectors.

Air-pilot operation simplifies integration into field-bus systems by shifting electrical control to a bank of pneumatic 3-way solenoid valves. Flexing control wires in an automation system are replaced with small diameter air tubing for greater reliability.



VENTURI	Α
DIAMETER	in (mm)
20	4.47 (113.5)
25	4.87 (123.6)
30	5.71 (144.9)

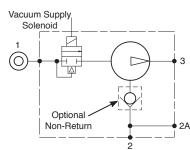
Weight: 0.81 lbs [367.0 g]



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S24D / S110A: SOLENOID CONTROLLED VACUUM SUPPLY

Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral solenoid valve provides on/off vacuum control. An optional non-return vacuum check valve is available for use in sealed systems, but some method of releasing vacuum must be added to the system – see RC18 Release Check. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2' vacuum port readily handles the high vacuum flow produced by coaxial ejectors.





Į	PORTS	
İ		
Ì	(Blank) = NPTF	Ī
I	G = G Threads	l

SOLENOID VOLTAGE
24D
24D = 24V DC
110A = 110V AC

SILENCER
(Blank) = None
ST = STA14M

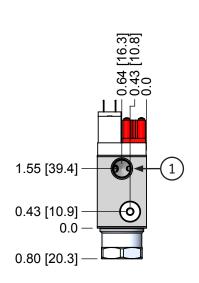
for		
the		
r of		
1/2"		

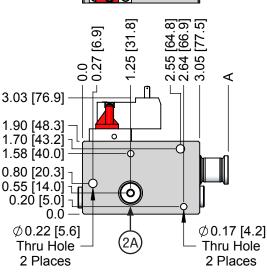
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/4 NPSF	G 1/4 NPSF

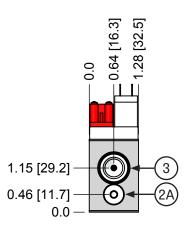
VENTURI DIAMETER	A in (mm)
12	3.09 [78.5]
15	3.49 [88.7]

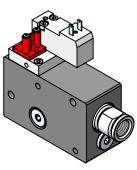
<u>•</u>

Order DIN T-9 Molded Cords Separately: 923-2M01 = Std. 2M 923-2M31 = L.E.D. 0-50V, 2M 923-2M81 = L.E.D.70-250V, 2M

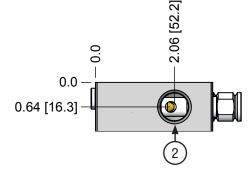




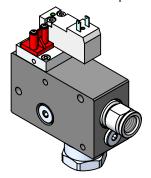




Weight: 0.77 lbs [349.0 g]



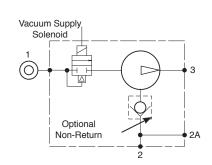
Non-Return Valve Option



Weight: 0.82 lbs [372.0 g]

S24D / S110A: SOLENOID CONTROLLED VACUUM SUPPLY

Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral solenoid valve provides on/off vacuum control. An optional non-return vacuum check valve is available for use in sealed systems, but some method of releasing vacuum must be added to the system – see RC18 Release Check. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2" vacuum port readily handles the high vacuum flow produced by coaxial ejectors.









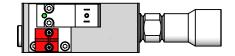
	NON RETURN
١	
1	(Blank) = No
	NR = Yes

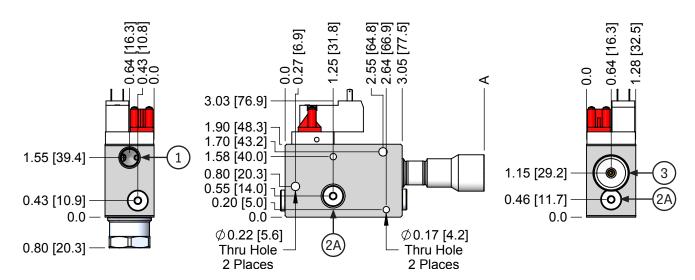
SILENCER	
	ı
(Blank) = None	ĺ
ST = STC12M	

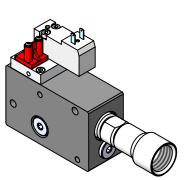
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/2 NPSF	G 1/2 NPSF

VENTURI DIAMETER	A in (mm)
20	4.47 (113.5)
25	4.87 (123.6)
30	5.71 (144.9)

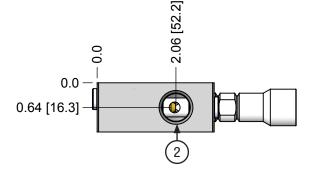
Order DIN T-9 Molded Cords Separately: 923-2M01 = Std. 2M 923-2M31 = L.E.D. 0-50V, 2M 923-2M81 = L.E.D.70-250V, 2M







Weight: 0.84 lbs [381.0 g]

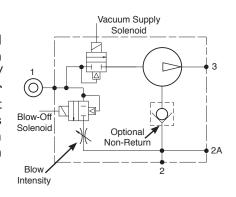


Non-Return Valve Option

Weight: 0.89 lbs [404.0 g]

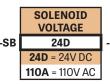
SB24D / SB110A: SOLENOID CONTROLLED VACUUM SUPPLY & BLOW-OFF

Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral solenoid valve provides on/off vacuum control. A second integral pilot-operated valve provides quick-release air control while an integral flow control valve that fine-tunes the blow intensity to suit the application. An optional non-return valve is available for use in sealed non-porous systems. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2" vacuum port readily handles the high vacuum flow produced by coaxial ejectors.









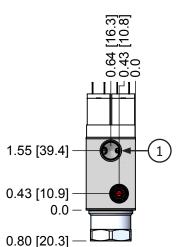
NON RETURN		SI
	-	
(Blank) = No	Ι΄	(Bla
NR = Yes		ST

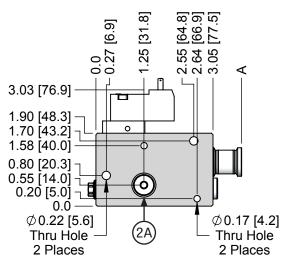
	SILENCER	
-		ı
Ì	(Blank) = None	Ī
	ST = STA14M	

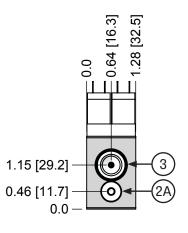
CODE	FUNCTION	NPT	G
1	Air Supply	1/4 NPTF	G 1/4
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF
3	Exhaust	G 1/4 NPSF	G 1/4 NPSF

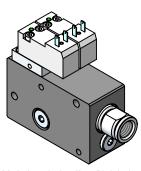
Α
in (mm)
3.09 (78.5)
3.49 (88.7)

Order DIN T-9 Molded Cords Separately: 923-2M01 = Std. 2M 923-2M31 = L.E.D. 0-50V, 2M 923-2M81 = L.E.D.70-250V, 2M

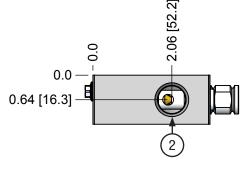




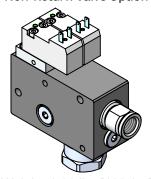




Weight: 0.85 lbs [386.0 g]



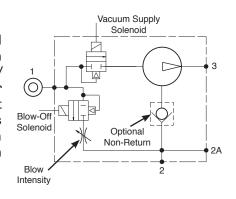
Non-Return Valve Option



Weight: 0.90 lbs [408.0 g]

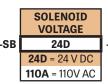
SB24D / SB110A: SOLENOID CONTROLLED VACUUM SUPPLY & BLOW-OFF

Large capacity J-series coaxial pumps provide full control features in an integrated package. Pumps may be ordered with any of five different coaxial ejectors to match pump performance to system requirements. An integral solenoid valve provides on/off vacuum control. A second integral pilot-operated valve provides quick-release air control while an integral flow control valve that fine-tunes the blow intensity to suit the application. An optional non-return valve is available for use in sealed non-porous systems. Vacuum sensors may be installed in either of the two 1/8" auxiliary vacuum ports to monitor system vacuum level. Large 1/2" vacuum port readily handles the high vacuum flow produced by coaxial ejectors.









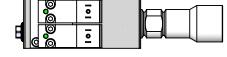


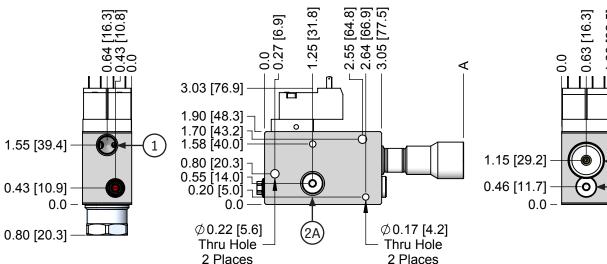
	SILENCER	
ا-		
1	(Blank) = None	Ī
	ST = STC12M	l

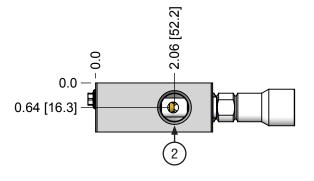
CODE	FUNCTION	NPT	G		
1	Air Supply	1/4 NPTF	G 1/4		
2	Vacuum - Main	G 1/2 NPSF	G 1/2 NPSF		
2A	Vacuum - Alternate	G 1/8 NPSF	G 1/8 NPSF		
3	Exhaust	G 1/2 NPSF	G 1/2 NPSF		

VENTURI DIAMETER	A in (mm)			
20	4.47 (113.5)			
25	4.87 (123.6)			
30	5.71 (144.9)			

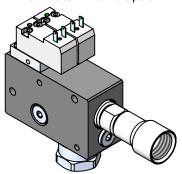
Order DIN T-9 Molded Cords Separately: 923-2M01 = Std. 2M 923-2M31 = L.E.D. 0-50V, 2M 923-2M81 = L.E.D.70-250V, 2M



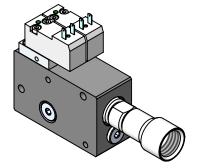




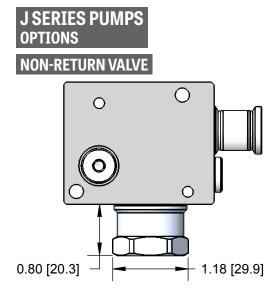
Non-Return Valve Option

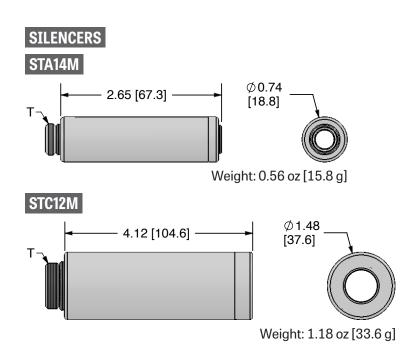


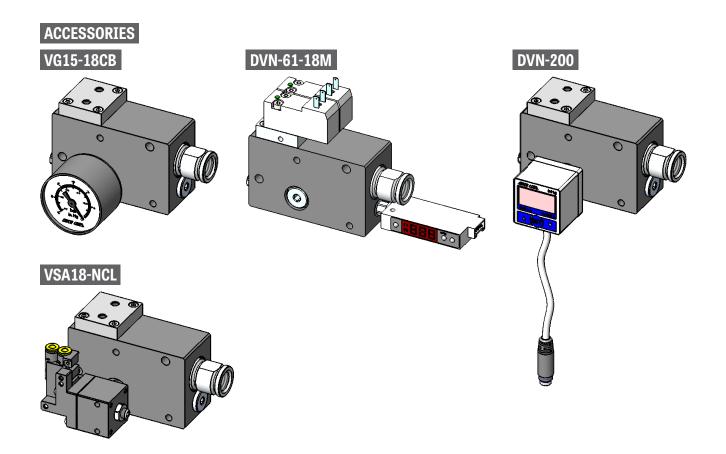
Weight: 0.97 lbs [440.0 g]



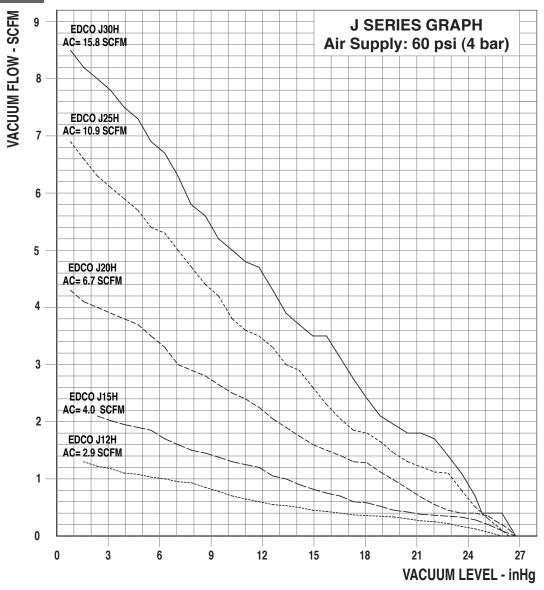
Weight: 0.92 lbs [417.0 g]







All performance data presented is a representatation of production pumps but is not a guarantee due to variations in local barometric pressure and of mass produced components.



VACUUM FLOW - SCFM

MODEL	AIR SUPPLY	AIR CONS	MAX VACUUM	SCFM AT VACUUM LEVEL							
	PSI	SCFM	inHG	3 inHG	6 inHG	9 inHG	12 inHG	15 inHG	18 inHG	21 inHG	24 inHG
J12H	60	2.9	26	1.2	1.0	0.8	0.6	0.5	0.4	0.3	0.1
J15H	60	4.0	26.7	2.0	1.8	1.4	1.2	0.8	0.6	0.4	0.3
J20H	60	6.7	26.7	3.9	3.4	2.7	2.2	1.6	1.3	0.7	0.4
J25H	60	10.9	26.3	6.1	5.3	4.3	3.5	2.6	1.8	1.2	0.7
J30H	60	15.8	26.7	7.8	6.8	5.4	4.6	3.5	2.4	1.8	0.9

SCFM X 28.32 = nl/m

EVACUATION TIME - SEC / FT³

MODEL	AIR SUPPLY	AIR CONS	MAX VACUUM	SECONDS TO VACUUM LEVEL							
	PSI	SCFM	inHG	3 inHG	6 inHG	9 inHG	12 inHG	15 inHG	18 inHG	21 inHG	24 inHG
J12H	60	2.9	26	3.7	1.0	16.5	28.4	47.2	78.0	134.0	252.0
J15H	60	4.0	26.7	2.2	5.2	9.7	16.4	27.0	63.3	77.0	147.0
J20H	60	6.7	26.7	1.1	2.7	5.1	8.5	14.0	23.1	39.8	76.2
J25H	60	10.9	26.3	0.7	1.7	3.2	5.4	8.9	14.7	25.3	48.0
J30H	60	15.8	26.7	0.6	1.4	2.5	4.3	7.0	11.4	19.6	37.2

 $sec/ft^3 X 35.32 = sec/m^3$