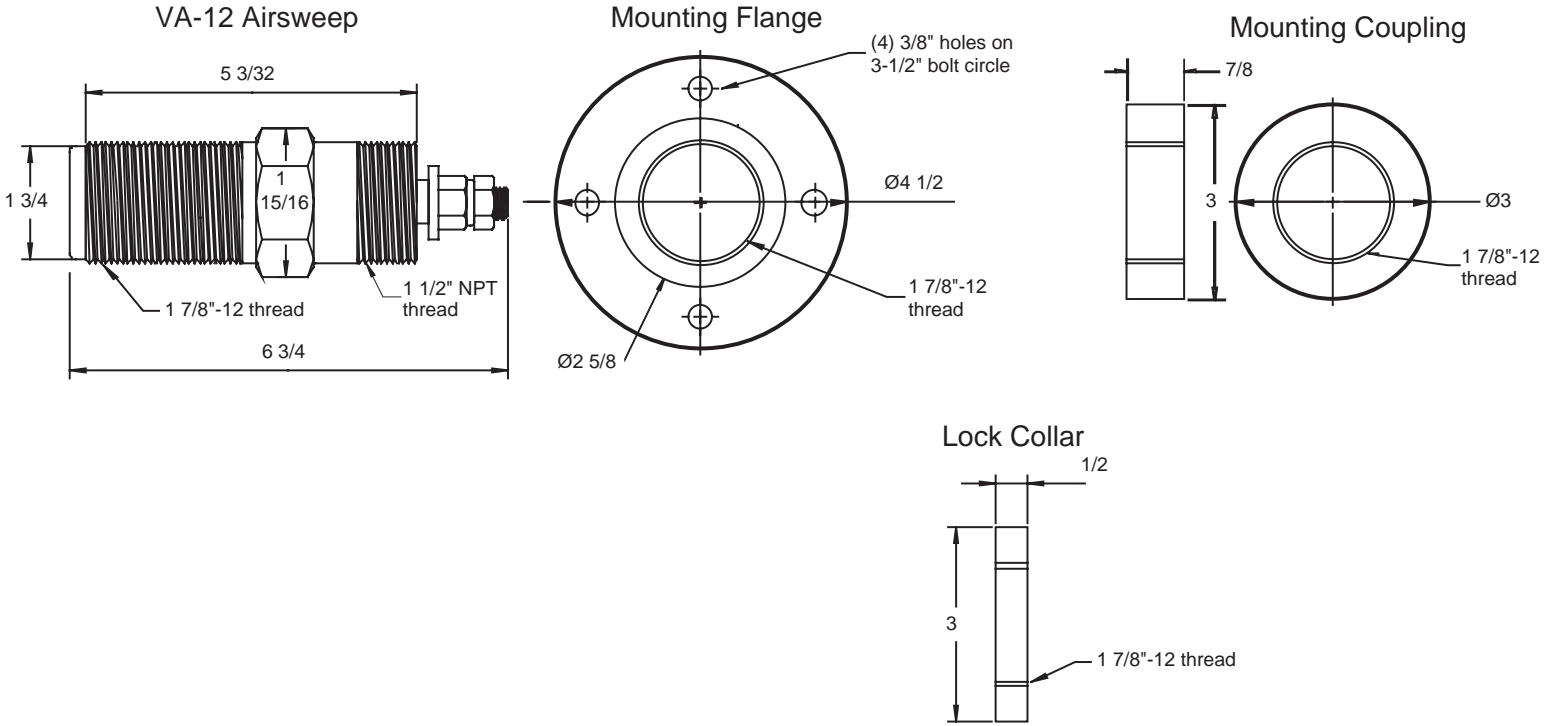


Model VA-12 (1-1/2")



- For medium to large hoppers, chutes, etc.
- Activates 6-8' diameter of material
- Threaded mounting style
- Uses approximately 1.9 cf per pulse @ 80 psi

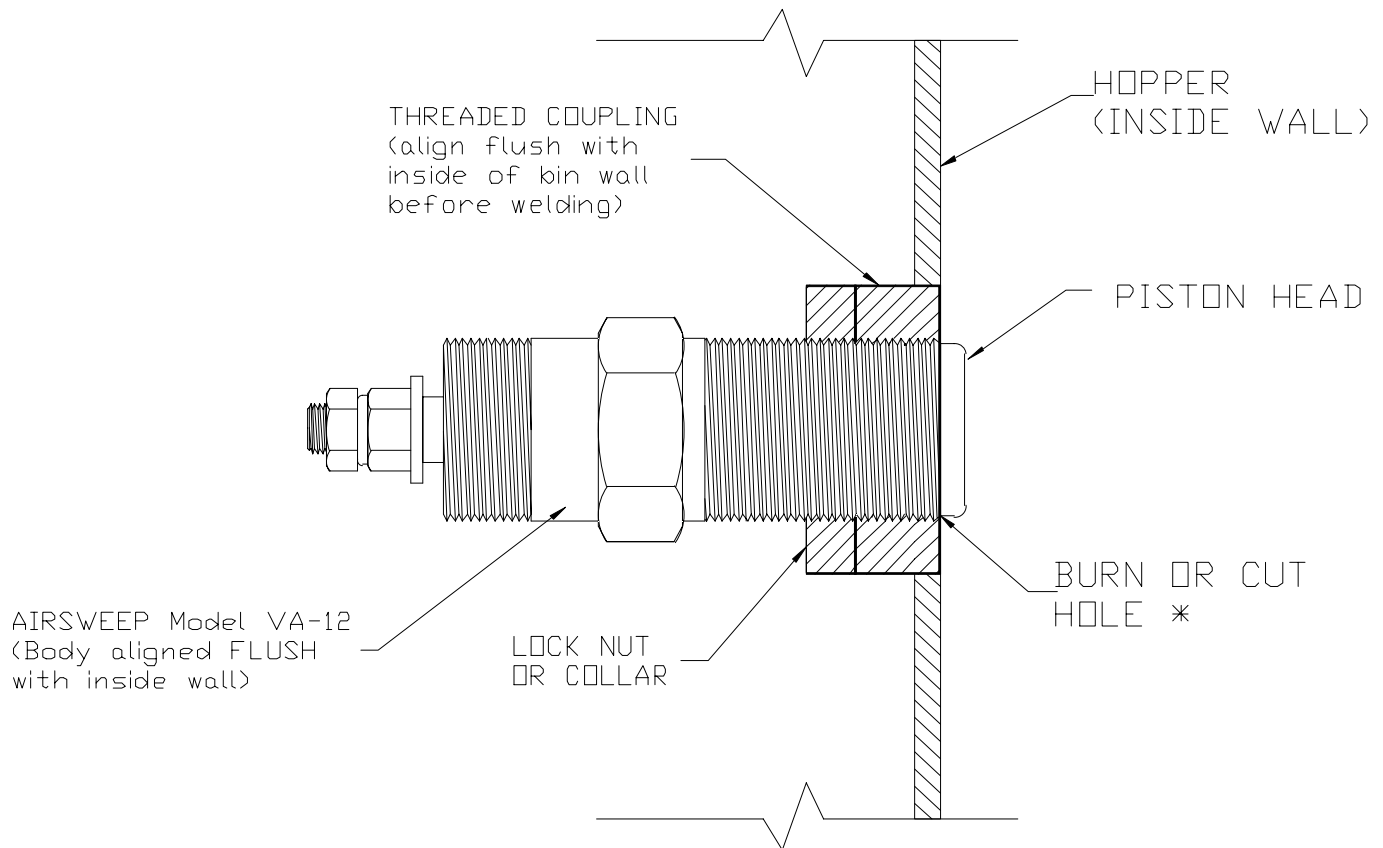
VA-12 Airsweep[®] and mounting options



Materials of Construction	Diaphragm valve port size	Air Pressure (PSI)	Air Sweep Diameter *	Air consumption (scf) (per 0.25-second pulse)
Carbon Steel	1 ½ "	80	4.5'	1.9 cubic feet
304 or 316 SS		100	6'	2.2 cubic feet
(other -- call factory)				

* Average effective diameter of material activation in 75 lbs. per cubic ft. (dry) material, 0.25 sec. air pulse

MC-12 Mounting Coupling Installation



Mounting Coupling Installation

1. Cut hole in hopper wall, diameter to fit (slightly greater than diameter of coupling is recommended to allow coupling to pass through curved wall).

*** Hole size = 3-1/16"**

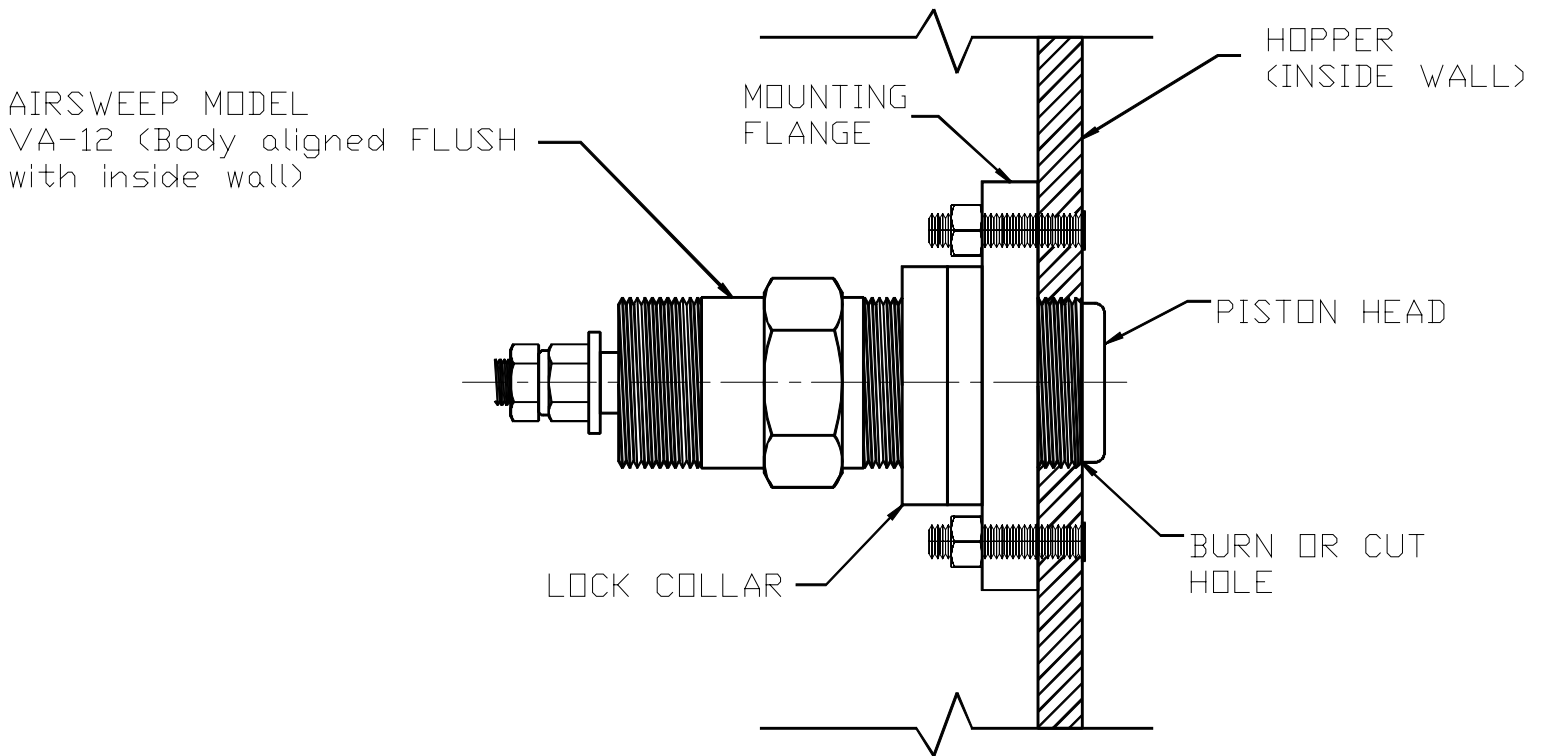
2. Align coupling flush with inside of vessel wall and weld continuous bead to exterior of wall.

3. Apply anti-seize compound to front threaded section of Airsweep. Thread Airsweep into position, so that front of **body** of Airsweep is aligned with front of coupling. This will properly position piston head within the bin.

4. After position of Airsweep is determined to be correct, tighten lock nut or collar against coupling to keep Airsweep in position.

Note: On sharply curved bin walls, body of Airsweep will extend slightly into the bin at top & bottom (12:00 & 6:00 positions), and should be flush at sides (3:00 & 9:00 positions).

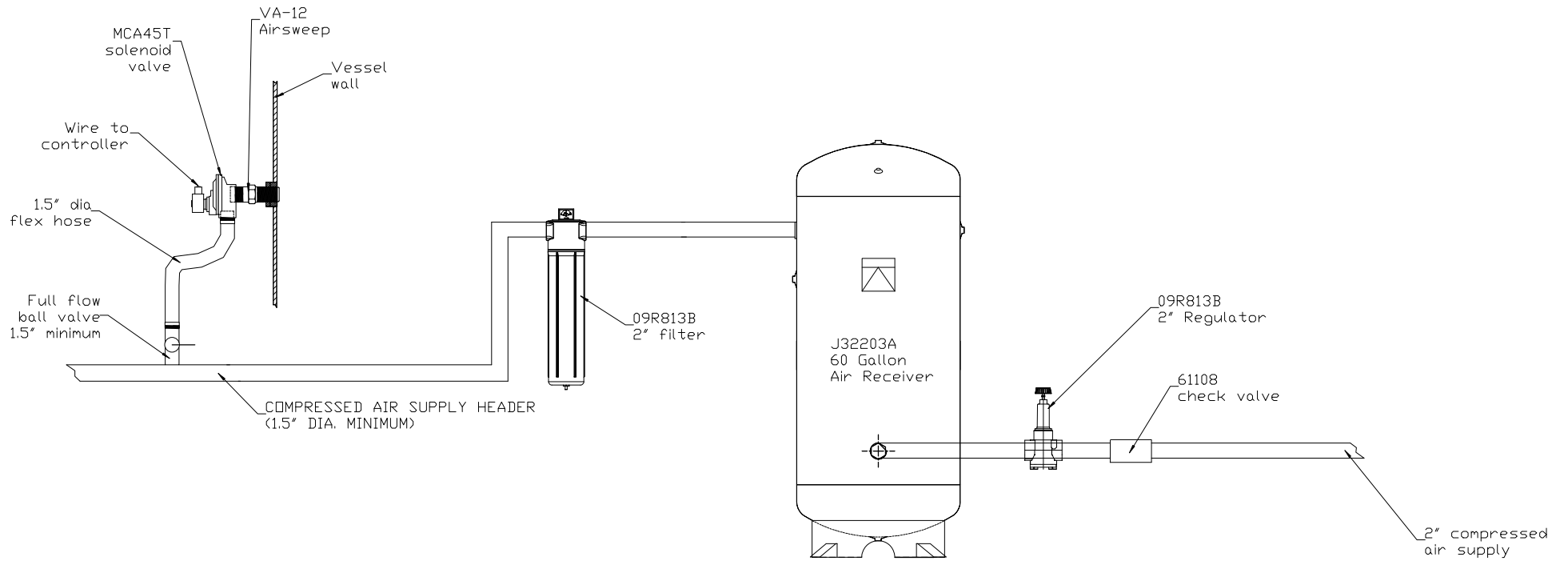
VA-12 Airsweep Mounting Flange Installation

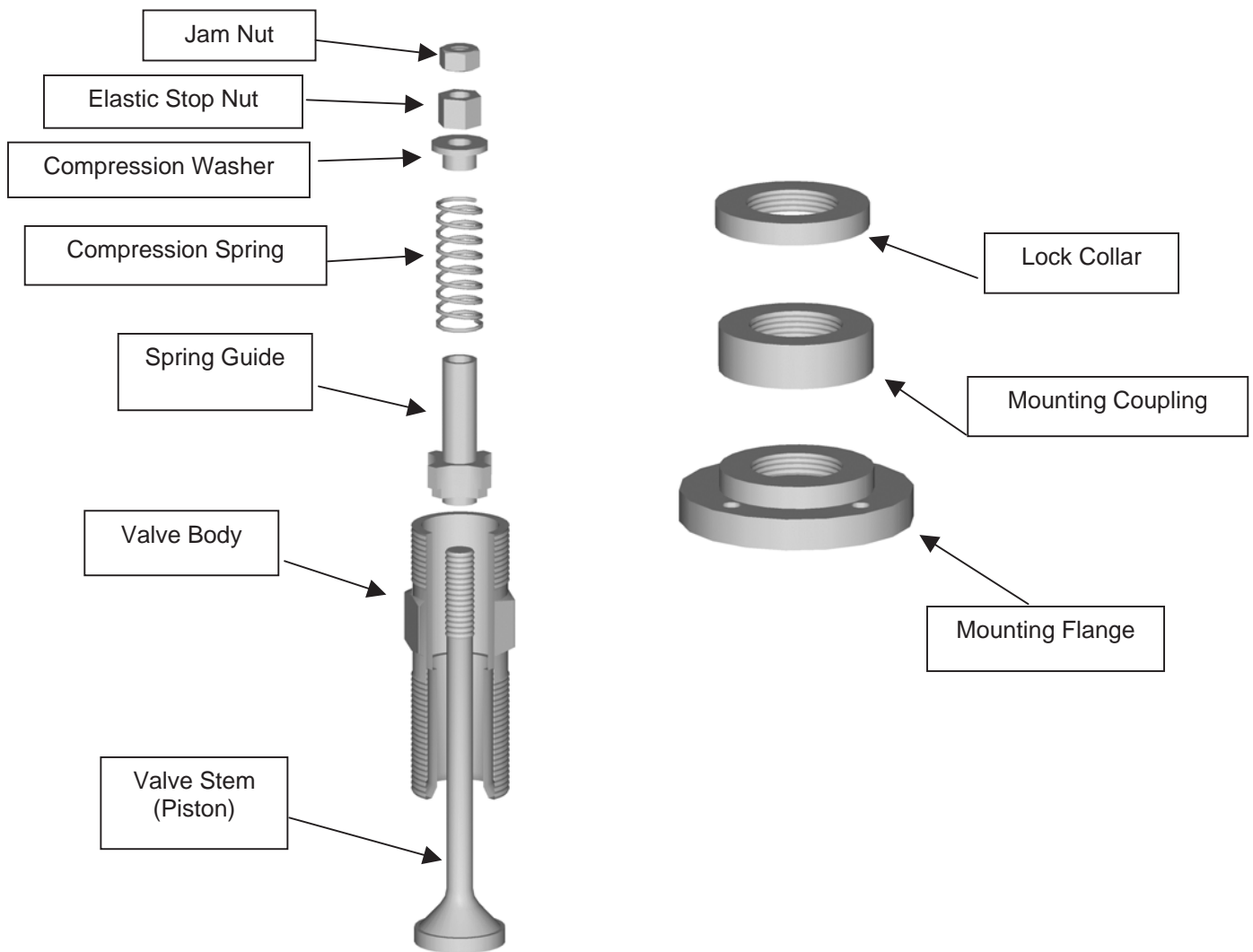


Mounting flange Installation

1. Position flange on wall surface. Mark hole for Airsweep. If bolting, mark bolt circle layout.
2. Drill or cut hole for Airsweep (and bolt holes, if needed). Hole size for Airsweep should be sufficient diameter to allow Airsweep to pass through wall (approx $\text{Ø}1.875''$).
3. Fasten flange to wall by bolting, or weld continuous bead around flange to exterior of wall.
4. Apply anti-seize compound to front threaded section of Airsweep. Thread Airsweep into position, so that front of body of Airsweep is aligned with the inside wall of vessel. This will properly position piston head within the bin.
4. After position of Airsweep is determined to be correct, tighten lock collar against flange to keep Airsweep in position.

TYPICAL PIPING AND ACCESSORIES, VA-12 AIRSWEEP SYSTEM





VA-12 Airsweep® assembly and mounting

Qty	Description	Part Number (carbon steel)	Part Number (stainless steel)
1	Valve Body	VB-12	VB-12-SS
*1	Valve Stem	VCW-12	VCW-12-SS
*1	Spring Guide	SG-12	SG-12-SS
*1	Compression Spring	CS-12/51	CS-12/51-SS
*1	Compression Washer	CW-12/51	CW-12/51-SS
*1	Elastic Stop Nut	ESN-12/51	ESN-12/51-SS
*1	Jam Nut	JN-12/51	JN-12/51-SS
1	Mounting Coupling	MC-12	MC-12-SS
1	Mounting Flange	MF-12	MF-12-SS
1	Lock Collar	LC-12	LC-12-SS

Note: (*) denotes part included in rebuild kit.

Order **RK-12** for carbon steel construction, **RK-12-SS** for stainless steel construction.

TYPICAL OPERATING PARAMETERS / COMPRESSED AIR CONSUMPTION

VA-12 AIRSWEEP

Recommended Operating Pressure Range: 70-90 psi

Typical effective radius of material activation (dry, powdered material, 60-75lbs/ft³):
3 to 3.5 feet around each nozzle

Typical recommended pulse time: 1/4 second.

Approximate per pulse consumption rate (1/4 sec. pulse): 1.9 cubic feet @ 80 psi.

Typical sequence rate range (application/materialdependent): 3 pulses - 12 pulses per minute.

Typical (approximate) consumption rate range (based on the preceding typical sequence rate range):
5.7- 22.8 cfm @ 80 psi.

