

# Anti-Clog Air Blow Off Valve

Oldcastle Precast  
Lexington, Kentucky



# Problem

Most Precaster's will use compressed air to help release our Precast Products from the mold.

To prevent clogging of the valve, we all tend to tape over the valve opening. Eventually, the opening get's clogged leading to extra time and potential of a damaged product.



# Solution

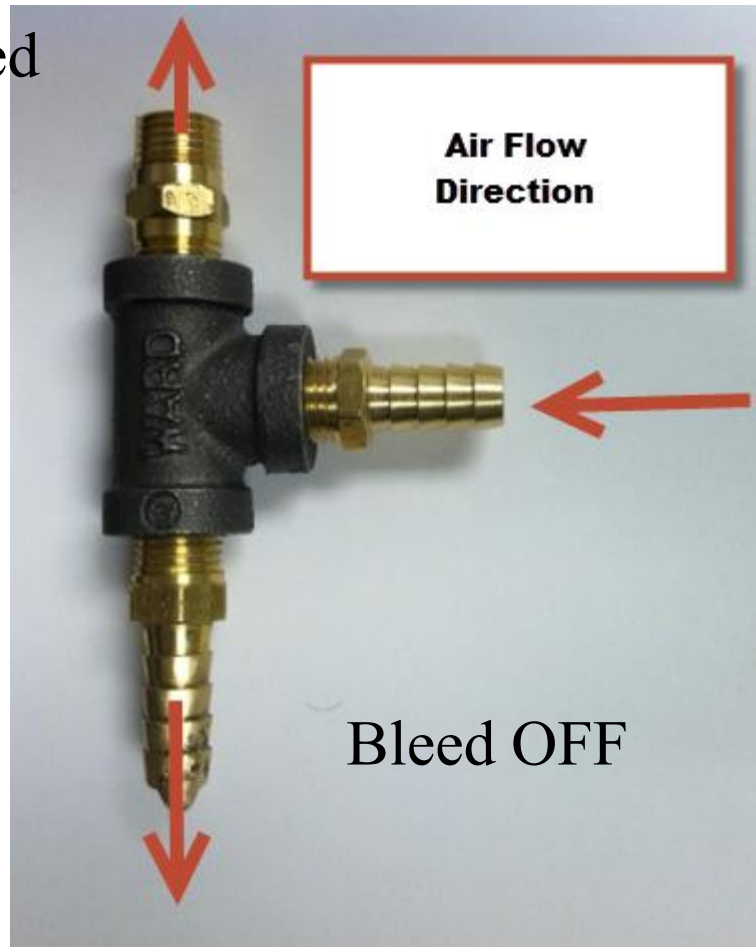
## The Anti-Clog Air Blow Off Valve

- Our Maintenance Manager developed a device that is a spring loaded plunger that keeps the air valve opening closed, except when the compressed air is added.
- After months of use this device it has not clogged.



# Anti-Clog Air Blow Off Valve

Fully Engaged  
to Mold



# Anti-Clog Air Blow Off Valve



**Valve Closed**



**Valve Open**

# Stripping Process with New Device



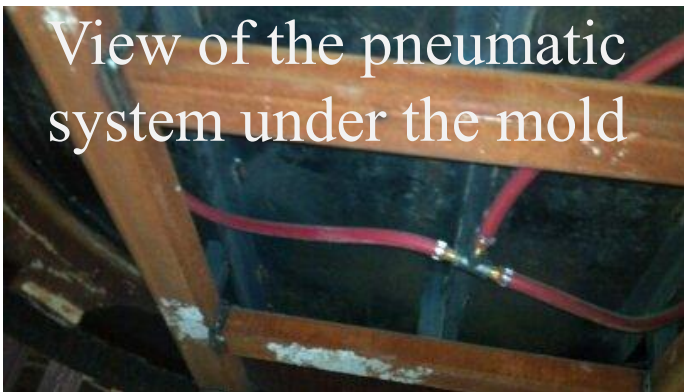
# Anti-Clog System Parts



Valve Closed



Valve Open



View of the pneumatic system under the mold



# Anti-Clog Air Blow Off Valve Parts List - \$18.25 Each

## 1/4"-20 x 4" Plain Finish SAE J429 Grade 8 Hex Cap Screw



### General Information

Fastenal Part No. (SKU): 14019

UNSPSC : 31161501

Manufacturer: Fastenal Approved Vendor

Category: Fasteners > Bolts > Cap Screws & Hex Bolts



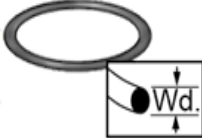
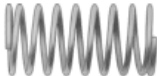

Wholesale:

\$0.6239

Quantity:

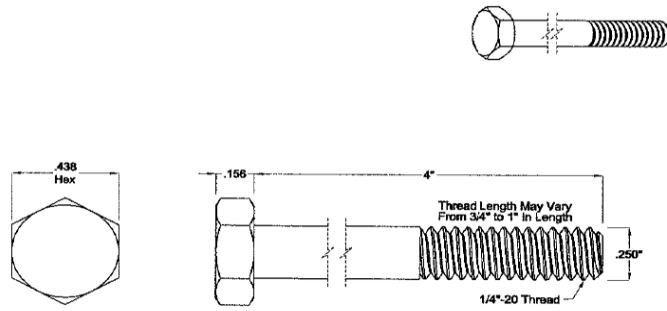
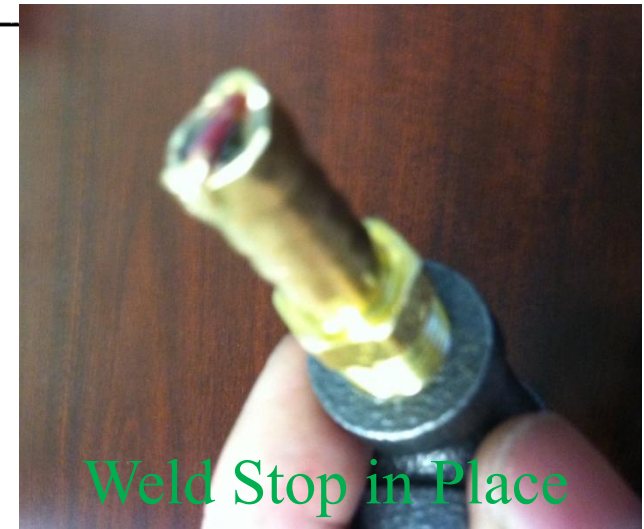
1

x 1 (EA)

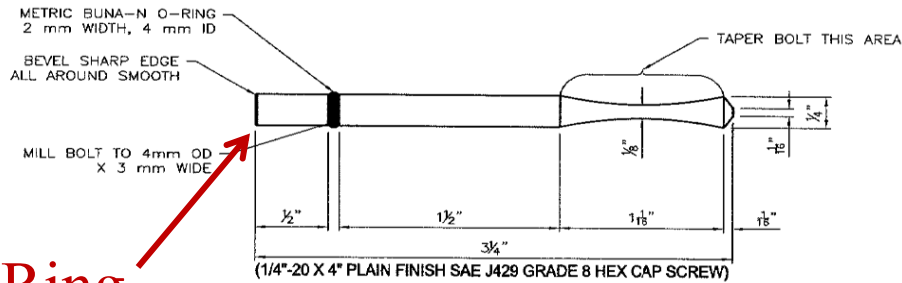
1 each	2712T42	NPT Threaded Brass Flow-Control Orifice, Male x Male, 1/4 NPT, 0.125" Orifice Diameter		11.26 each	11.26	⊗
1 pack	5346K18	Brass Barbed Hose Fitting, Adapter for 3/8" Hose ID x 1/4" NPTF Male Pipe, packs of 10		12.34 pack	12.34	⊗
1 pack	9262K163	Metric Buna-N O-Ring, 2 mm Width, 4 mm ID, packs of 100		4.30 pack	4.30	⊗
1 pack	9657K298	Steel Compression Spring, Zinc-Plated Music Wire, 1.00" L, .240" OD, .020" Wire, packs of 12		6.17 pack	6.17	⊗
1 each	44605K152	Low-Pressure Black Malleable Iron Threaded Fitting, 1/4 Pipe Size, Tee		3.35 each	3.35	⊗



# Manufacturing Required



(1/4"-20 X 4" PLAIN FINISH SAE J429 GRADE 8 HEX CAP SCREW)



(1/4"-20 X 4" PLAIN FINISH SAE J429 GRADE 8 HEX CAP SCREW)

**PLUNGER DETAIL**  
SCALE: 1" = 1'-0"

**O-Ring  
Placement**

**Oldcastle Precast**<sup>®</sup>  
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**PLUNGER DETAIL**

2014 PINNACLE AWARDS  
LEXINGTON-384

CUSTOMER

DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
---	---	KS	JV	---	---
DRAWING NUMBER				REVISION	SHEET
Drawing1				---	OF ---
REV DATE				---	---

# Julio Velez

