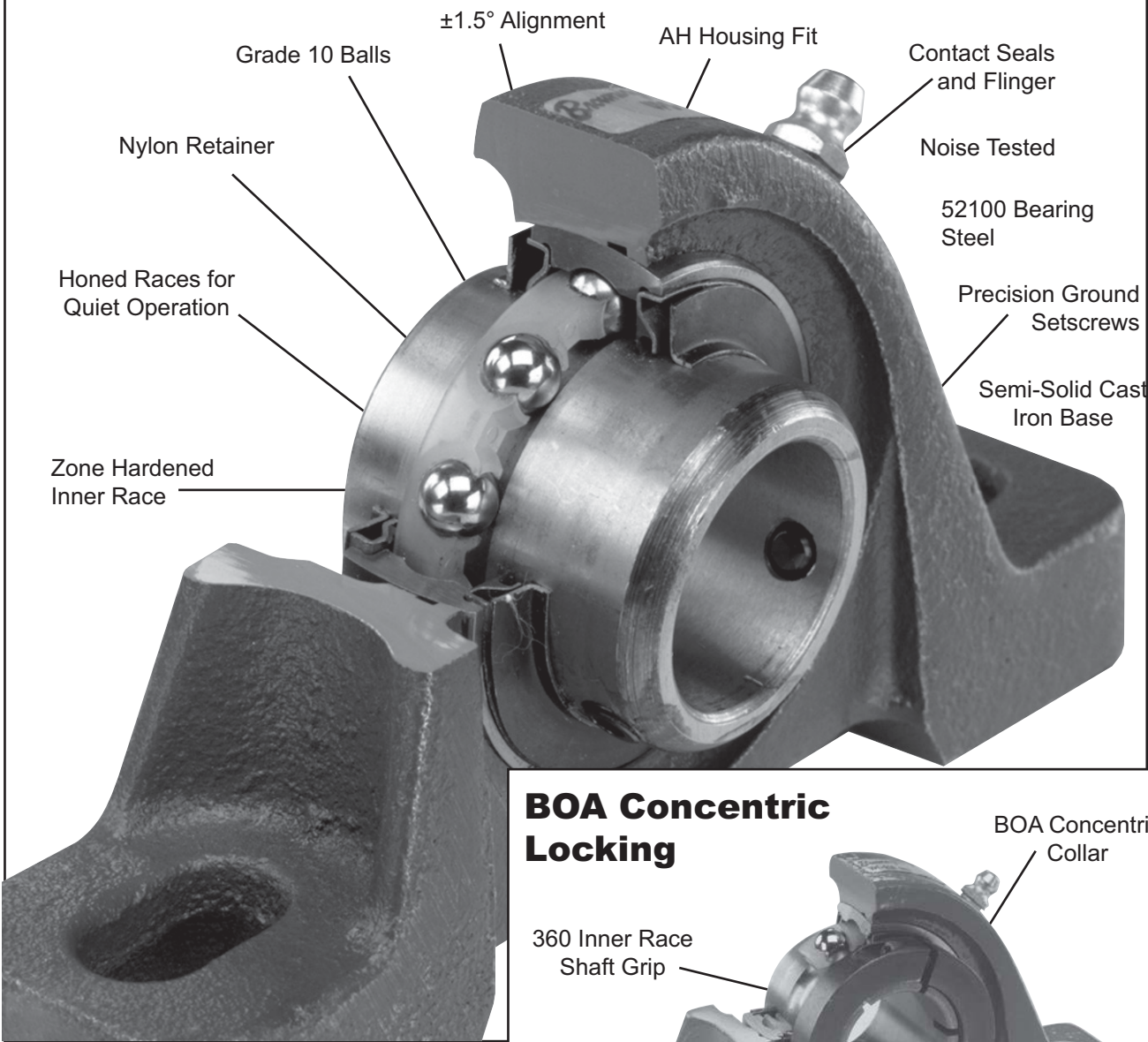


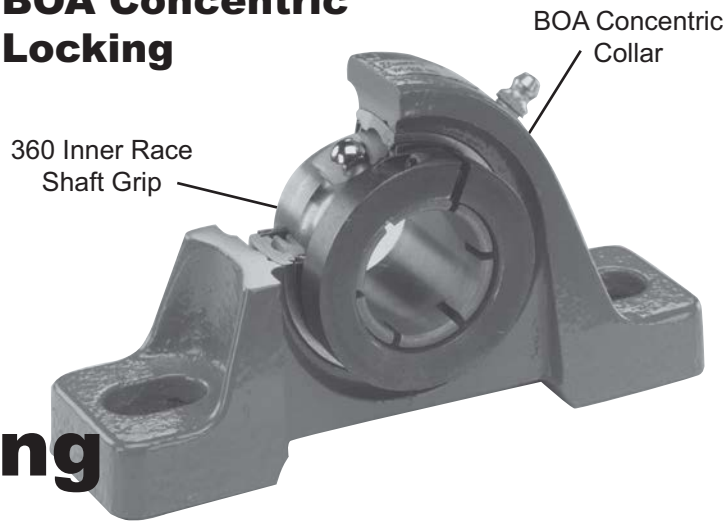


**Setscrew Locking**



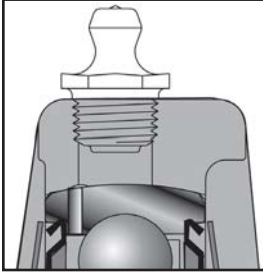
**Browning  
AH Air Handling  
Ball Bearings  
Features/Benefits**

**BOA Concentric  
Locking**



**Reduced Vibration and  
Quieter Operation**

## AH Housing Fit



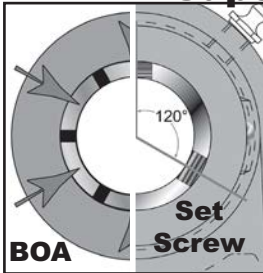
Air handling AH ball bearings are manufactured with a special AH housing fit that allows the bearing to more easily self-align when mounted on lightweight frames.

## Precision Hardened and Honed Rings



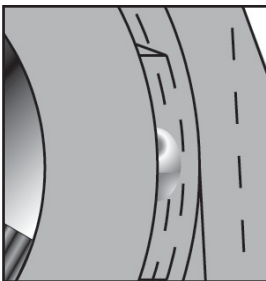
Inner rings are zone hardened to maintain ballpath hardness while keeping inner ring extension soft for a precision setscrew hold. Both ballpaths are honed for quieter operation and less vibration.

## Superior Locking



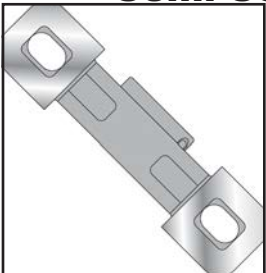
Browning superior locking devices both perform well with air handlers. The 120° setscrew positioning with a zone hardened inner race offers excellent reliability. The new BOA concentric especially reduces noise and vibration.

## Anti-Rotation Rivet



An anti-rotation rivet prevents outer ring creep or rotation within the housing. This reduces heat buildup and prolongs useful bearing life.

## Semi-Solid Cast Iron Base



The rugged base design provides an excellent mounting foundation. This is integral to prevent sheet metal "buckling."

## Noise Tested

An extra noise test check point is added to meet the exacting noise level needs of the air handling industry.

# Browning AH Air Handling Ball Bearings Features/Benefits

## Series

Popular shaft sizes and housing configurations in the normal and medium duty series are available "off-the-shelf" with air handling features (designated by the AH suffix). These products are offered with both setscrew style locking and the increasingly popular BOA concentric 360° locking collar. AH bearings are segmented into two series: Normal duty for general purpose use and medium duty for heavier loads.

## Product Overview

Browning moves air! Browning bearing products have long been specified by the nation's leading OEMs of HVAC and air handling equipment. From agricultural fans up to blast restaurant exhaust ventilators to unitary rooftop systems to rugged material handling and cooling tower applications Browning bearings have proven reliable to economically meet customer needs.

Now Browning offers specially designed "AH" Air Handling Bearings as stock product available "off-the-shelf"! The "AH" suffix designation means mounted bearings with a specially controlled "bearing-to-housing fit" and 100% noise tested utilizing state-of-the-art andrometer equipment.

To specify add "AH" i.e. VPS-216 AH

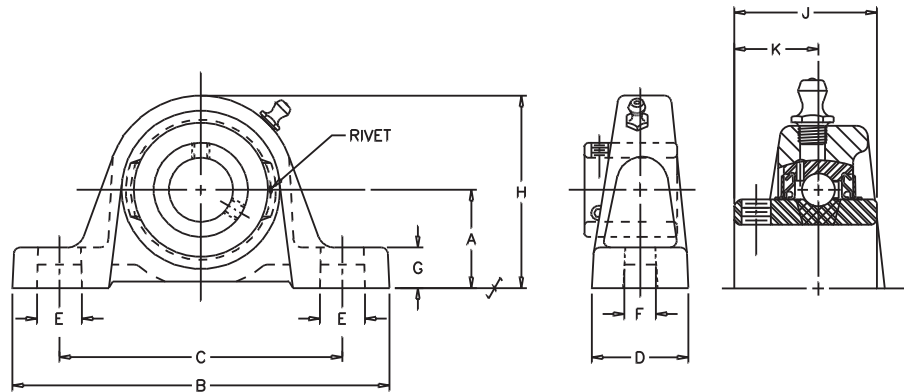
## VPS-200AH

**Lock:** Setscrew  
**Seal:** Contact  
**Housing:** Cast Iron  
**Temperature:** -20°F to 200°F  
**Self Alignment:** ±1.5°  
**Inserts:** VS-200

**V VALUE and QUALITY**  
**P PILLOW BLOCK**  
**S Setscrew**

**2 200**  
**0 NORMAL**  
**0 DUTY**  
**A AIR**  
**H HANDLING**

| Bore Size        | Fitting     |
|------------------|-------------|
| 1/2" - 1 1/4" S  | 1/4" - 28NF |
| 1 1/4" - 2 7/16" | 1/8" NPT    |



| SHAFT DIA.<br>IN.         | UNIT NO.                             | BRG. NO.                    | Dimensions in Inches |         |         |         |        |       |       |         |         |        | BOLT SIZE IN. | UNIT WT. |
|---------------------------|--------------------------------------|-----------------------------|----------------------|---------|---------|---------|--------|-------|-------|---------|---------|--------|---------------|----------|
|                           |                                      |                             | A                    | B       | C       | D       | E      | F     | G     | H       | J       | K      |               |          |
| 1/2<br>5/8                | VPS-208AH<br>VPS-210AH               | VS-208<br>VS-210            | 1 3/16               | 4 7/8   | 3 5/8   | 1 7/32  | 7/8    | 7/16  | 15/32 | 2 7/32  | 1 1/32  | 5/8    | 3/8           | .9       |
| 3/4                       | VPS-212AH                            | VS-212                      | 1 5/16               | 5       | 3 25/32 | 1 11/32 | 25/32  | 7/16  | 17/32 | 2 17/32 | 1 7/32  | 23/32  | 3/8           | 1.4      |
| 7/8<br>15/16<br>1         | VPS-214AH<br>VPS-215AH<br>VPS-216AH  | VS-214<br>VS-215<br>VS-216  | 1 7/16               | 5 1/2   | 4 1/8   | 1 13/32 | 13/16  | 7/16  | 19/32 | 2 13/16 | 1 3/8   | 13/16  | 3/8           | 1.5      |
| 1 1/8<br>1 3/16<br>1 1/4  | VPS-218AH<br>VPS-219AH<br>VPS-220SAH | VS-218<br>VS-219<br>VS-220S | 1 11/16              | 6 3/16  | 4 5/8   | 1 3/4   | 15/16  | 9/16  | 21/32 | 3 9/32  | 1 1/2   | 7/8    | 1/2           | 2.5      |
| 1 1/4<br>1 3/8<br>1 7/16  | VPS-220AH<br>VPS-222AH<br>VPS-223AH  | VS-220<br>VS-222<br>VS-223  | 1 7/8                | 6 3/4   | 5       | 1 3/4   | 7/8    | 9/16  | 23/32 | 3 11/16 | 1 11/16 | 1      | 1/2           | 3.5      |
| 1 1/2                     | VPS-224AH                            | VS-224                      | 2                    | 7 1/8   | 5 3/8   | 1 15/16 | 1      | 9/16  | 13/16 | 4       | 1 15/16 | 1 3/16 | 1/2           | 4.7      |
| 1 5/8<br>1 11/16<br>1 3/4 | VPS-226AH<br>VPS-227AH<br>VPS-228AH  | VS-226<br>VS-227<br>VS-228  | 2 1/8                | 7 3/8   | 5 21/32 | 2       | 29/32  | 9/16  | 3/4   | 4 1/4   | 1 15/16 | 1 3/16 | 1/2           | 5.5      |
| 1 15/16<br>2              | VPS-231AH<br>VPS-232SAH              | VS-231<br>VS-232S           | 2 1/4                | 8       | 6 3/16  | 2 3/16  | 15/16  | 11/16 | 3/4   | 4 9/16  | 2 1/32  | 1 9/32 | 5/8           | 6.0      |
| 2<br>2 3/16               | VPS-232AH<br>VPS-235AH               | VS-232<br>VS-235            | 2 1/2                | 8 13/16 | 6 15/16 | 2 5/16  | 1      | 11/16 | 7/8   | 4 31/32 | 2 3 1/6 | 1 5/16 | 5/8           | 7.8      |
| 2 1/4<br>2 7/16           | VPS-236AH<br>VPS-239AH               | VS-236<br>VS-239            | 2 3/4                | 9 1/2   | 7 13/32 | 2 3/8   | 1 5/32 | 11/16 | 7/8   | 5 9/16  | 2 9/16  | 1 9/16 | 5/8           | 10.1     |

For the most up-to-date bearing cross reference information go to [www.emerson-ept.com](http://www.emerson-ept.com) or call Application Engineering at 1-800-626-2093.