

# Air Bleed Valve (Air Release Valve)



An air bleed valve (air release valve) is used to release trapped air from a fluid system, such as a heat exchanger. Air may collect within a fluid system where

that cannot be vented, which can cause performance issues. Trapped air within a radiator/heat exchanger means that no water will circulate in that portion, reducing heat transfer capacity. Air bubbles freely circulating in a fluid system may cause pump cavitation, leading to premature pump failure.

the high point of the system is above the system fill port. Air bleed valves are added to the system at these high points to allow the trapped air to be exhausted. While some fluid systems may flush the air pocket away without causing performance issues, this volume of air remains in the system. If not bled, the system will not have the correct fill volume of liquid. In some cases, the air will become trapped in a location

## Specifications:

- 1/8"-27 NPTF 10 mm hex
- Length: 0.750 (approximately)
- With or without Dri-Seal thread sealant
- Leak test at 50 psi
- Pin installation torque: 25 ± 5 in-lbs

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
REL		INITIAL RELEASE	N/A	N/A
A		ADDED NOTES	11-22-10 DJV	N/A
B		UPDATED PER CUSTOMER REQUEST	12-3-10 DJV	N/A
C		REVISED DESCRIPTION BLOCK: RELEASED NEW ITEM #274153 FOR ASSEMBLY ONLY	05/07/14 DWH ECR #9135	05/07/14 DV

  

SECTION A-A

**NOTES:**

- PART SHALL BE FREE FROM MACHINE OIL, CHIPS AND OTHER DEBRIS.
- LEAK TEST: AT 50 PSI THERE SHALL BE NO BUBBLES WHEN SUBMERGED IN WATER.
- PIN INSTALLATION TORQUE 25±5 IN-LBS. [2.82±0.56 Nm]
- HOUSING INSTALLATION TORQUE 106±18 IN/LBS [12±2 Nm]
- ASSEMBLY WEIGHT = 9.62g

DUE TO THE VARIETY OF OPERATING CONDITIONS OR APPLICATIONS, THE CUSTOMER IS RESPONSIBLE TO PERFORM THEIR OWN TESTING TO INSURE PERFORMANCE, SAFETY, AND WARNING REQUIREMENTS FOR THE INTENDED APPLICATION.

© <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>ITEM NO.</th> <th>DESCRIPTION</th> </tr> <tr> <td>274153</td> <td>BLEED VALVE ASSEMBLY ONLY</td> </tr> <tr> <td>8025300042</td> <td>BLEED VALVE ASSEMBLY WITH LOCTITE</td> </tr> </table>	ITEM NO.	DESCRIPTION	274153	BLEED VALVE ASSEMBLY ONLY	8025300042	BLEED VALVE ASSEMBLY WITH LOCTITE	GEOMETRIC TOLERANCE SPECIFICATION UNLESS OTHERWISE SPECIFIED PERFECT FORM REQUIRED FOR FEATURE-OF-SIZE AT MMC, TRUE POSITION TOLERANCE AND RELATED DATUMS APPLY AT CONDITION OF SIZE INDICATED IN FEATURE CONTROL FRAME. OTHER GEOMETRIC TOLERANCE AND RELATED DATUMS APPLY SEPARATELY. TRUE POSITION CALCULATED MAY BE GAGED SEPARATELY, REGARDLESS OF DATUM REFERENCE. DIMENSIONS ARE IN INCHES: IN. [MM] TOLERANCES UNLESS OTHERWISE SPECIFIED .XXX ± 0.010 [0.25] FRACTIONS ± 1/64 [0.38] .XXXX ± 0.004 [0.15] ANGLES ± 1/2° SURFACE FINISH: 125 [3.2] Ra	 NORTH AMERICAN OPERATIONS ALTAVISTA, VA. DRAWN 05/02/97 HAT APPROVED BY 07/09/97 HAT	DRAWING OF AUTOMOTIVE VALVES VALVE - BLEED MATERIAL UNS C36000 BRASS HALF HARD FINISH PROPRIETARY NOTICE THE DESIGN AND TECHNICAL INFORMATION APPEARING ON THIS DRAWING IS THE PROPERTY OF SCHRADER PACIFIC AND IS DISCLOSED IN CONFIDENCE. IT IS NOT TO BE COPIED, REPRODUCED, RECALCULATED OR OTHERWISE USED BY OTHERS, EITHER IN WHOLE OR IN PART WITHOUT THE EXPRESS PRIOR WRITTEN CONSENT OF SCHRADER PACIFIC. SCALE: PART NO. 4X B025300042 DWG NO. G-274150 SIZE C SHEET 1 REV C
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274153	BLEED VALVE ASSEMBLY ONLY								
8025300042	BLEED VALVE ASSEMBLY WITH LOCTITE								

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

