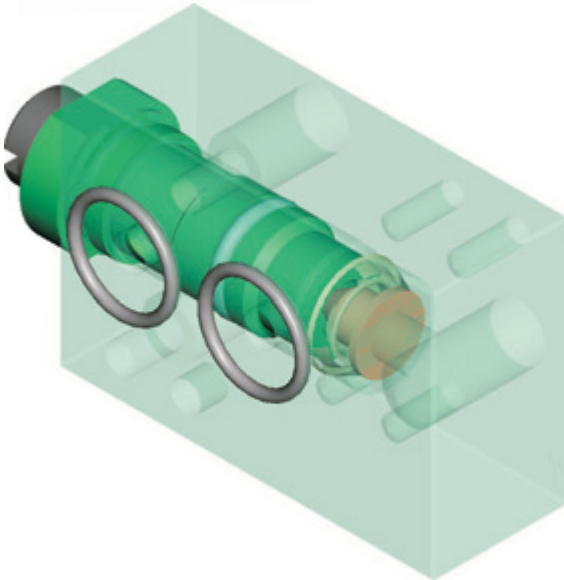
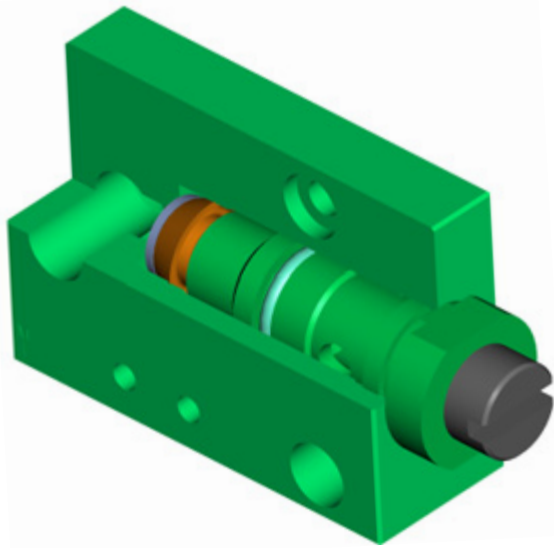


HABONIM

Namur Breather Block

Installation, Operating & Maintenance



1. GENERAL

The Namur Breather Block prevents suction of external air into the spring chambers. This is achieved by redirecting the instrumentation air supplied to the actuator's spring chamber during the spring stroke thus preventing external air from being sucked in.

2. SAFETY

2.1 General

This Installation, Operating and Maintenance manual covers the instructions required for safe use of the Namur Breather Block (BB). Before using the Namur Breather Block, read the entire IOM and make sure you have read and understood everything. Habonim cannot anticipate all of the situations a user may encounter while installing and using the Namur Breather Block. The user must know and follow all applicable industry specifications on the safe installation and use of this product. Misapplication of the product may result in injuries or property damage. Refer to Habonim Namur breather block catalogue for additional product safety information or contact Habonim.

- 2.1.1 Make sure the actuator is isolated from air supply or electrical ancillaries before attempting to do any maintenance.
- 2.1.2 Before removing the Namur Breather Block from the actuator, always make sure the air supply has been depressurized.
- 2.1.3 Utmost caution must be taken when handling the Namur Breather Block and actuator. Only qualified personal who are trained for maintenance work and have read the instructions are to assemble or disassemble the breather block.
- 2.1.4 Use the Namur Breather Block within the pressure and temperature limits indicated on the nameplate or as given in our catalogue.
- 2.1.5 The Namur Breather Block can not be used on actuators with double acting actuators and/or with positioner devices.

2.2 Storage

Keep the Namur Breather Block in its protective packaging with the plastic plugs attached during storage. It is recommended to keep the breather block in a clean and dry environment until ready for use to guard against contamination, or damage to the threads.

2.3 Description

The Namur Breather Block is designed to operate with any Spring Return actuator to prevent corrosive atmospheric air from entering the spring chamber. The Namur Breather Block is fitted for direct mounting to a Namur interface using mounting screws and a location set screw. Port A of the Namur Breather Block is the inlet air supply. This port is connected to the center chamber of the spring return actuator and when air is released it will prevent air from being sucked into the spring chamber.

3. INSTALLATION

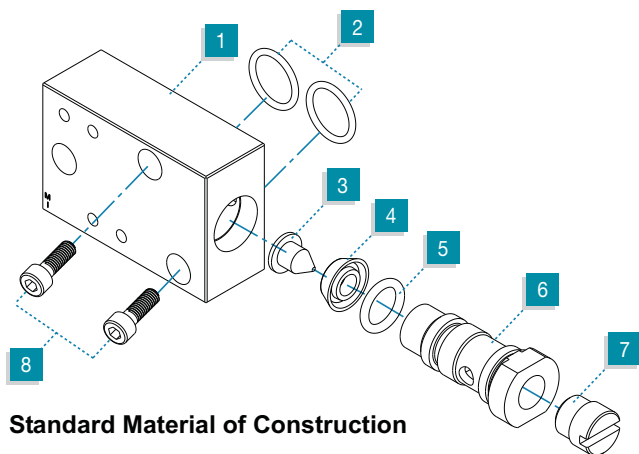
3.1 General

- 3.1.1 Before making a pneumatic connection to the Namur Breather Block, it is recommended that the air supply lines be allowed to vent for two minutes to clear any debris.
- 3.1.2 Two designs are available to cover metric and imperial actuator Namur mounting interfaces, the breather block is stamped with the letter 'M' for Metric or 'I' for Imperial as a clear identification of the block. Verify the correct type before installation.

Table No-1

Description	Metric	Imperial
1 Habonim catalogue number	K00460009	K00460009-I
2 Inlet and exhaust port dimensions	G1/4 ISO	¼ NPT
3 Threaded holes for mounting the solenoid valve	M5	10/24" UNC
4 Two cap head screws	M5x16	10/24"UNCx3/4"

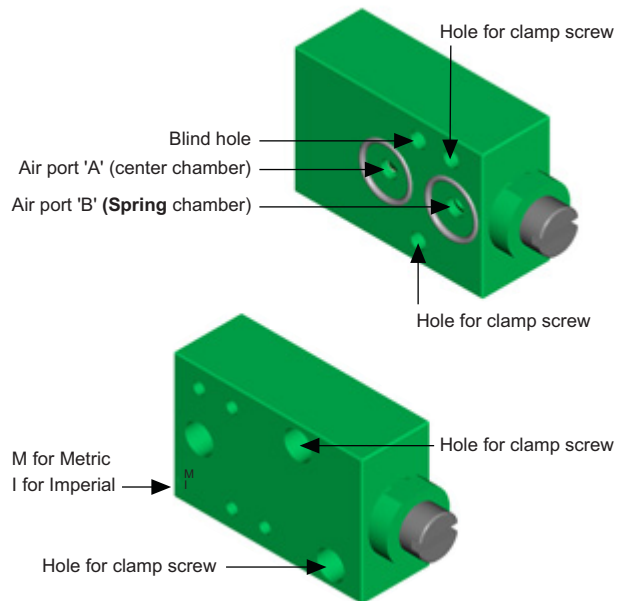
3.2 Parts description



Standard Material of Construction

Table No-2

Item	Description	Material Specifications	Qty.
1*	Breather block	AL. 6061T6 (Anodized)	1
2*	O- ring Namur	NBR	2
3*	Breather block plug	DELRIN	1
4*	Spool rubber	NBR	1
5	O-ring	NBR	1
6	Breather insert	AL. 6061T6	1
7	Exhaust plug	Delrin	1
8	Screws	St.St	2



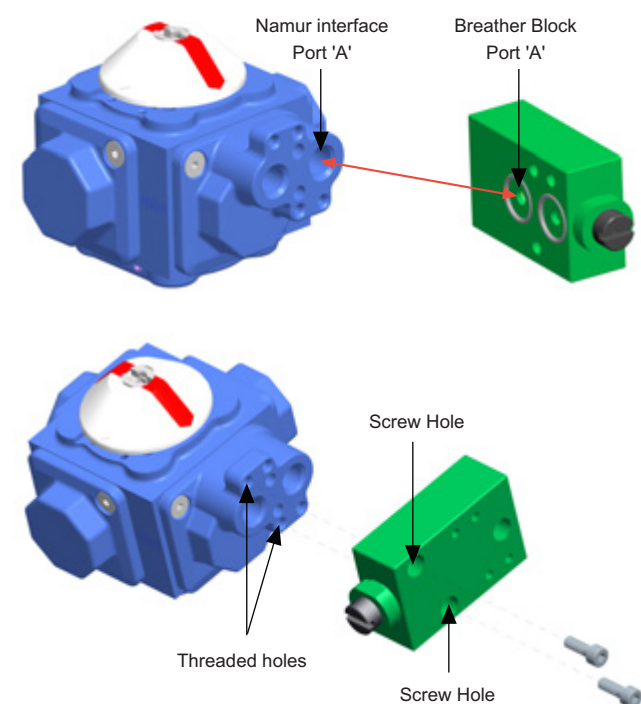
3.3 Breather Block mounting - with Namur interface

- 3.3.1 Insert the two NBR O-rings (Table 1 item #2) into position.
- 3.3.2 Place the Namur Breather Block with the threaded inlet port next to the actuator center chamber port connection.
- 3.3.3 Connect the Namur Breather Block to the actuator Namur interface by using the two supplied screws.

3.3.4 Warnings:

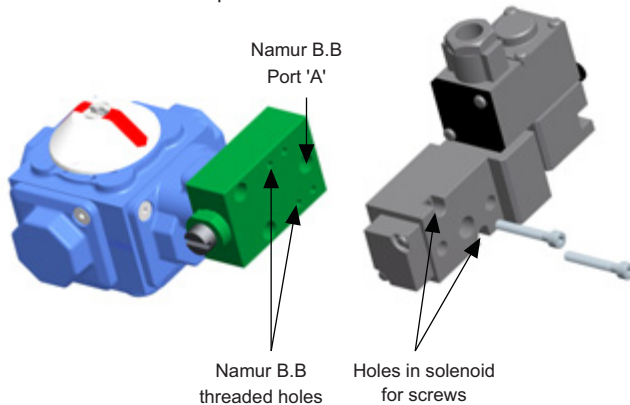
Make sure the O-rings do not fall off or become pinched during step 3.3.2.

Make sure to connect The Namur Breather Block Port 'A' to the Actuator Namur interface Port 'A'



3.4 Mounting a Namur solenoid directly to a Namur Breather Block

- 3.4.1 Make sure that the Namur Breather Block port 'A' is in front of the solenoid air port when energized.
- 3.4.2 Insert the supplied screws through the solenoid blank holes as shown in the picture below:



4. OPERATION

4.1 Filtration and air supply

Dirt, dust and other abrasive materials may damage the polished, inside surfaces of the breather block.

Use filtered air according to DIN ISO 8573-1 CLASS 4

4.2 Specifications

Pressure range: 3-10 bar (40 - 140 PSI)

Temperature range: -20°C + 85°C (-40°F + 185°F)

Connection: Namur interface

Physical size: 69x46x25.5 [mm], (2.72X1.82x1 [inch])

4.3 Materials

Refer to table No-2.

4.4 Safety & Liability information

WARNING

Mishandling or inappropriate use of any of these products may cause severe personal injury, and/or property damage. Consequences such as fire, explosion, toxic fumes, etc. may potentially result from improper use. Habonim makes ongoing efforts to assure that the information provided is accurate. Should you have any questions concerning specifications, please contact Habonim prior to purchase.

5. MAINTENANCE

5.1 Lubrication

The Namur Breather Block device is supplied factory lubricated. Under normal conditions the device does not require re-lubrication.

Do not remove or wash out the lubrication.

5.2 Malfunctions and parts replacement

Do not disassemble any part of the Namur Breather Block assembly. Should you have any questions concerning repairing, assembling or disassembling, please contact Habonim.