

NA109 Series Low-lead Y-strainer

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NA109 series

Function



The NA109 series low-lead brass y-strainers are designed for residential and commercial plumbing and hydronic applications to protect equipment from premature failure due to damaging debris. Y-strainers are used to protect critical water control devices such as backflow preventers, pressure reducing valves, balancing valves and control valves. The NA109 series are available with 1/2" to 2" FNPT connections and have a 30 mesh stainless steel screen.

Product range

NA109 Series Low lead Y-strainer.....sizes 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" intergral NPT female

Technical specifications

Materials

Body:	1/2", 3/4", 1", 1-1/4", 1-1/2":	low lead* brass EN12165 CW511L-DW
	2":	low lead* brass EN12165 CB770S
Strainer:		stainless steel
Seals:		peroxide-cured EPDM

* Meets the "lead free" requirement of Section 1417 of the Safe Drinking Water Act (SDWA). This product has a weighted average lead content of less than 0.25% for its wetted surfaces contacted with consumable water.

Performance

Medium:	Water, glycol solutions
Max. percentage of glycol:	50%
Max. working pressure:	360 psi (25 bar)
Working temperature range:	14 to 285 °F (-10 to 140 °C)
Strainer mesh diameter:	0.65 mm (30 mesh)
Cv (Kv):	
1/2"- 4.0 (3.4); 3/4"- 6.7 (5.8); 1"-10.6 (9.1); 1 1/4"- 16.3 (14); 1 1/2"- 23.6 (20.3); 2"-39.4 (34.0)	

Connections: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" integral NPT female

Certifications:

1. NSF/ANSI/CAN 61, Drinking Water System Components for use in potable water systems. Certified and listed by IAPMO R&T.
2. NSF/ANSI/CAN 372, US and Canadian Low-Lead and Lead-Free materials contents laws for drinking water system components. Certified and listed by IAPMO R&T.
3. PEX crimp fittings certified to ASTM F1807.
4. PEX expansion fittings certified to ASTM F1960.



SAFETY INSTRUCTION

This safety alert symbol will be used in this manual to draw attention to safety related instructions. When used, the safety alert symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN A SAFETY HAZARD.**



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warning.ca.gov.



CAUTION: All work must be performed by qualified personnel trained in the proper application, installation, and maintenance of systems in accordance with all applicable codes ordinances.



CAUTION: Over-tightening and breakage can occur with the use of Teflon® pipe joint compounds. Teflon® provides lubricity so that care must be exercised not to over-tighten joints. Failure to follow these instructions could result in property damage and / or personal injury.



CAUTION: System fluids under pressure or temperature can be hazardous. Be sure the pressure has been reduced to zero and the system temperature is below 100 °F (38 °C). Failure to follow these instructions could result in property damage and/or personal injury.



CAUTION: Clean the pipes of any debris, rust, incrustations, welding slag and any other contaminants. For optimal operation, air in the system must be removed.



CAUTION: If the Y-strainer is not installed, commissioned and maintained properly, according to the instructions contained in this manual, it may not operate correctly and may endanger the user.



CAUTION: Make sure that all the connecting pipework is water tight.



WARNING: The outer surface of the device, especially in polymer type components, must not come into contact with any chemical substance, either on purpose or accidentally. The system fluid and any chemical additives used within the water piping system – whether for washing or as protection – must be compatible with the materials used to make the device and with the function it performs.

Caleffi shall not be liable for damages resulting from stress corrosion, misapplication or misuse of its products.



CONSIGNE DE SÉCURITÉ

Ce symbole d'avertissement servira dans ce manuel à attirer l'attention sur la sécurité concernant instructions. Lorsqu'il est utilisé, ce symbole signifie. **ATTENTION! DEVEZ-VOUS ÊTRE ALERTES ! VOTRE SÉCURITÉ EST EN JEU ! NE PAS SUIVRE CES INSTRUCTIONS PEUT PROVOQUER UN RISQUE DE SÉCURITÉ.**



AVERTISSEMENT: Ce produit peut vous exposer à des produits chimiques comme le plomb, qui est connu dans l'État de Californie pour causer le cancer, dommages à la naissance ou autre. Pour plus d'informations rendez-vous www.P65Warnings.ca.gov.



AVERTISSEMENT: Tous les travaux doivent être effectués par du personnel qualifié formé à la bonne application, installation et maintenance des systèmes conformément aux codes et règlements locaux.



AVERTISSEMENT: Un serrage excessif et une rupture peuvent survenir avec l'utilisation de Teflon® composés de joint de tuyau. Le Teflon® offre un pouvoir lubrifiant de sorte que les soins doivent être exercés pour ne pas trop serrer les joints. Non-respect de ces instructions pourrait entraîner des dommages matériels et / ou des blessures corporelles.



AVERTISSEMENT: Les liquides du système sont sous pression ou de la température peuvent être dangereux. Être sûr que la pression a été réduite à zéro et la température du système est inférieure à 100 °F (38 °C). Le non-respect de ces instructions peut entraîner des dommages matériels et/ou des blessures.



AVERTISSEMENT: Nettoyer les tuyaux de tout débris, roille, incrustations, scories de soudure et d'autres contaminants. Pour un fonctionnement optimal, de l'air dans le système doit être retiré.



AVERTISSEMENT: Si le Filtre en Y, n'est pas installé, mis en service et Entretien correctement, selon les instructions contenues dans ce manuel, il ne peut pas fonctionner correctement et peut mettre en danger l'utilisateur.



AVERTISSEMENT: S'assurer que tous les raccords sont étanches.

Caleffi ne pourra être tenue responsable des dommages résultant de la corrosion, d'une mauvaise utilisation ou d'une mauvaise utilisation des produits.

Installation:

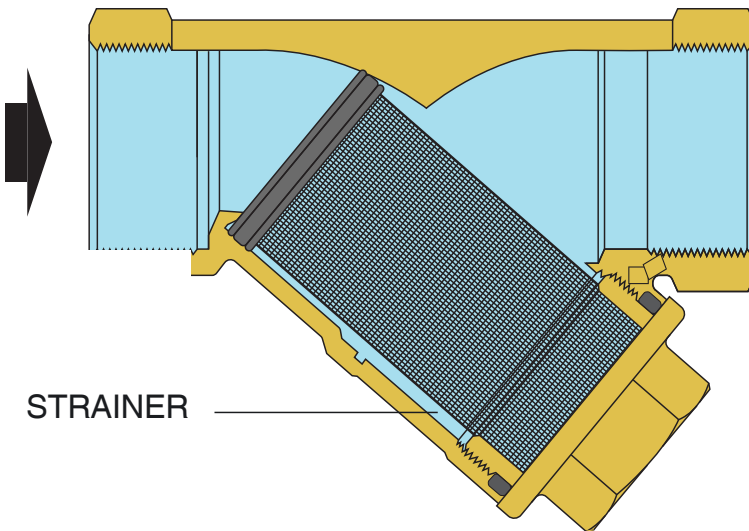
Install the NA109 Y-strainer so that the flow direction arrows on the strainer align with the system's flow direction. Ensure there is sufficient space around the strainer for future inspection and maintenance. Position the NA109 Y-strainer upstream of any fluid control device or heat exchanger to protect them from dirt and debris, which could impact system performance.

Isolation valves:

The Caleffi NA108 full-port ball valve can be used for isolating the NA109 series Y-strainer during servicing. The NA108 ball valve is sold separately and must be purchased for field installation, along with low lead brass pipe nipples.

Construction details:

A high-quality 30 mesh strainer and cap.



Maintenance

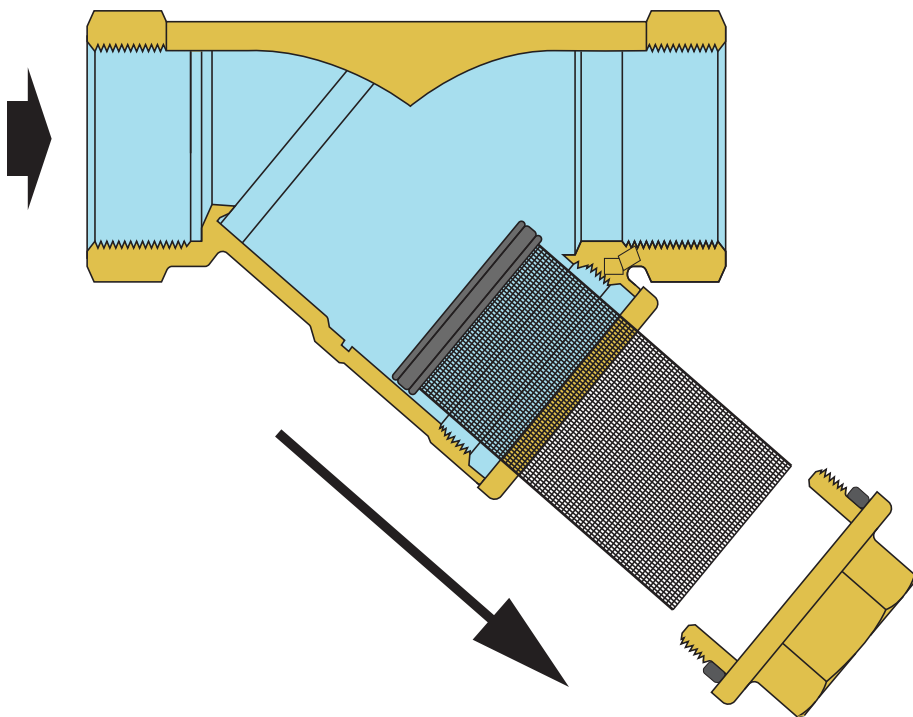
Service procedure:

Service the Y-strainer as follows:

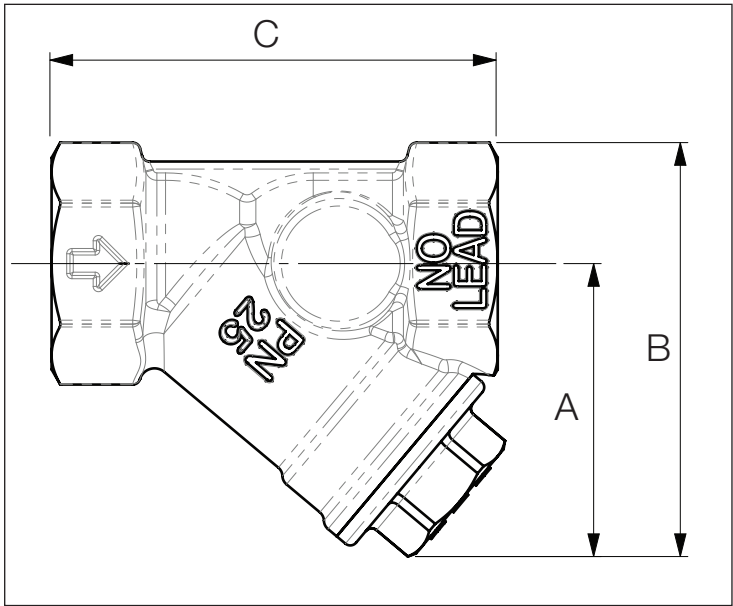
1. Unscrew the cap.
2. Remove the stainless steel strainer and clean it with water or compressed air.
3. Reinstall the strainer and secure the cap, ensuring that the sealing O-rings are properly positioned.

Recommended Maintenance Check:

As part of your routine maintenance program, use a differential pressure measurement tool to monitor the pressure drop across the Y-strainer. It is recommended to clean the strainer when the pressure drop reaches 5 psi.



Dimensions:



Size	Code number	A	B	C	Weight (lb)
1/2"	NA10904	1 1/2"	2 5/32"	2 5/16"	0.5
3/4"	NA10905	1 7/8"	2 5/8"	2 11/16"	0.9
1"	NA10906	2 7/32"	3 1/8"	3"	1.4
1 1/4"	NA10907	2 13/16"	3 15/16"	3 5/8"	1.9
1 1/2"	NA10908	3 1/8"	4 5/16"	3 7/8"	2.4
2"	NA10909	3 7/8"	5 7/16"	4 15/16"	3.0

NOTES

NOTES

LEAVE THIS MANUAL WITH THE USER.

Laissez ce manuel à la disposition de l'utilisateur.



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