

Low-lead serviceable inline check valves

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3047 series

Function



The 3047 Series inline spring check valves ensure one-way flow in plumbing or hydronic systems, preventing backflow or backsiphonage. Designed for both residential and commercial use, these low-lead valves offer easy installation and maintenance through union connections and multiple end connection options.

The 3047 Series is constructed from low-lead, dezincification-resistant brass, compliant with low-lead/lead-free regulations. It meets NSF/ANSI/CAN 61 for use in drinking water systems and NSF/ANSI/CAN 372 for material content requirements. The valve also adheres to IPC, IRC, UPC, and NPC standards for use in both U.S. and Canadian plumbing systems, and is listed and certified by ICC-ES.

NSF/ANSI/CAN 61
NSF/ANSI/CAN 372



Product range

3047 series with NPT male threaded, sweat and press dual union connections.....sizes ½" and 2"
with NPT female threaded dual union connections.....sizes ½" through 1¼" and 2"
with PEX crimp and PEX expansion dual union connections.....sizes ½" and ¾"

Technical specifications

Materials	- body:	DZR brass low-lead* brass
	- check valve:	EPDM, PPO/GF, PPE+PS/GF
	- fitting tailpieces:	DZR brass low-lead* or copper
	- union Posi-Stop™ 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

Suitable fluids:	water and non-hazardous glycol solution up to 50%
Maximum working pressure:	150 psi (10 bar)
Operating temperature range:	32 to 250 °F (0 to 120 °C)
Opening pressure differential:	0.25 psi (size ½" through 1¼") 0.50 psi (size 1½" & 2")
Flow capacity:	Cv 17 (size ½" & ¾") Cv 33 (size 1" & 1¼") Cv 75 (size 1½" & 2")

Certifications

1. NSF/ANSI/CAN 61, Drinking Water System Components for use in potable water systems. Certified by ICC-ES, PMG File 1512.
2. NSF/ANSI/CAN 372, US and Canadian Low-Lead and Lead-Free materials contents laws for drinking water system components. Certified by ICC-ES, PMG File 1360.
3. PEX crimp fittings certified to ASTM F1807.
4. PEX expansion fittings certified to ASTM F1960.
5. Compliant with IPC, IRC, UPC, NPC.



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.P65Warnings.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 and 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.



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

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.



ATTENTION: 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.



ATTENTION: Un serrage excessif et la rupture peut se produire avec l'utilisation de composés à joint de tuyau en Téflon®. Pouvoir lubrifiant Teflon® permet de sorte qu'il faut prendre soin de ne pas trop serrer les articulations. Le non-respect de ces instructions peut entraîner des dommages matériels et/ou des blessures.



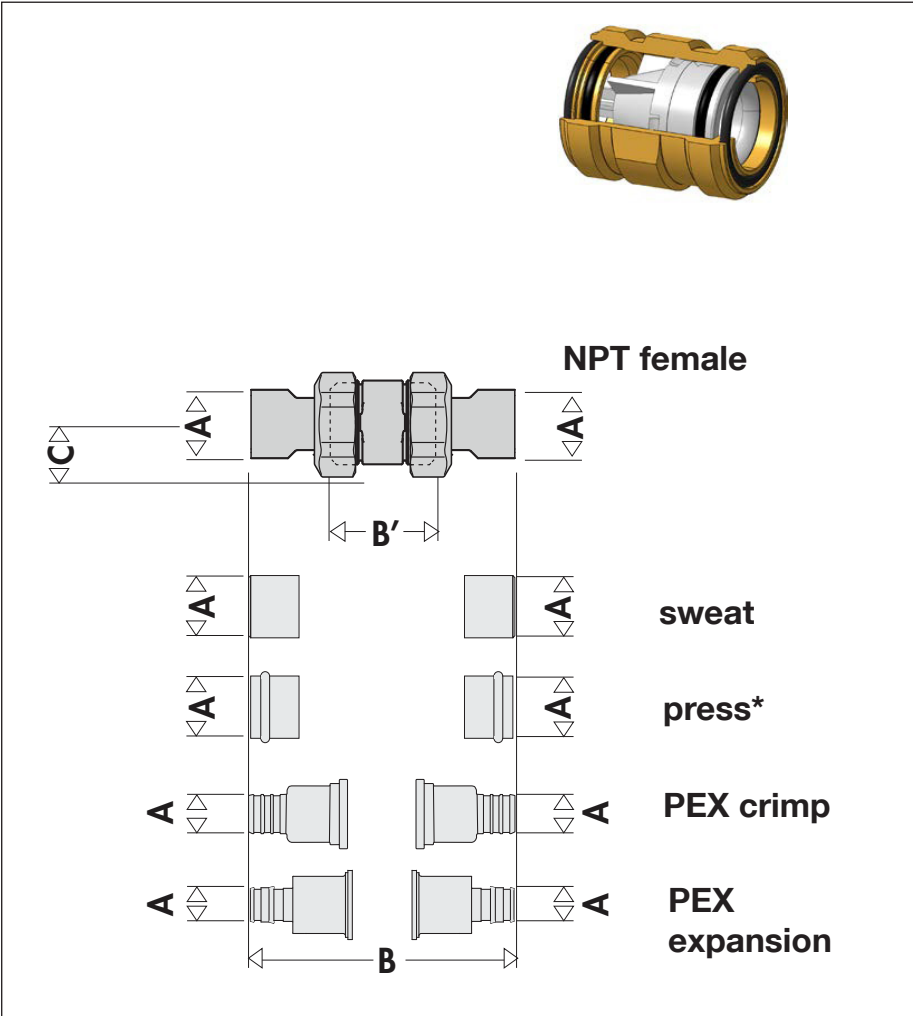
AVERTISSEMENT: Les liquides du système sont sous pression ou de la température peuvent être dangereux. Être sûr que la pression a été réduite à zéro et la température du système est inférieure à 100 °F (38 °C). Le non-respect de ces instructions peut entraîner des dommages matériels et/ou des blessures.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



ATTENTION: 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 une mauvaise utilisation des produits.

Dimensions



*Lay length:

- 1/2" press- 2 7/16 inch.
- 3/4" press- 2 5/16 inch.
- 1" press- 4 1/32 inch.
- 1 1/4" press- 5 29/32 inch.
- 1 1/2" press- 5 5/8 inch.
- 2" press- 7 29/32 inch.

Code	A	B	B'	C	Wt (lb)
NA30474A	1" metric, no fittings (1)	--	1 9/16"	5/8"	0.25
304740A	1/2" NPT Male	3 5/8"		13/16"	0.80
304749A	1/2" SWT	3 1/8"			0.65
304743A	1/2" NPT Female	4"			0.75
304746A	1/2" press	3 15/16"			0.65
304747A	1/2" PEX crimp	4 15/16"			0.65
304748A	1/2" PEX expansion	5 3/16"			0.70
304750A	3/4" NPT Male	3 5/16"			0.75
304759A	3/4" SWT	3 5/8"			0.65
304753A	3/4" NPT Female	4 3/16"			0.80
304756A	3/4" press	4 5/16"			0.65
304757A	3/4" PEX crimp	4 15/16"			0.70
304758A	3/4" PEX expansion	5 5/8"			0.75
NA30476A	1 1/2" metric, no fittings (1)	--	1 3/4"	3/4"	0.65
304760A	1" NPT Male	4 5/32"		1 1/8"	2.0
304769A	1" SWT	3 29/32"			1.6
304763A	1" NPT Female	3 29/32"			1.7
304766A	1" press	5 29/32"			2.1
304770A	1 1/4" NPT Male	5 13/32"			2.0
304779A	1 1/4" SWT	3 13/32"			1.6
304773A	1 1/4" NPT Female	5 13/32"			1.9
304776A	1 1/4" press	7 29/32"			2.4
NA30478A	2 1/2" metric, no fittings (1)	--	2 9/32"	1 1/4"	2.0
304780A	1 1/2" NPT Male	6 29/32"		1 3/4"	5.4
304789A	1 1/2" SWT	6 21/32"			4.8
304786A	1 1/2" press	7 29/32"			5.6
304790A	2" NPT Male	6 29/32"			5.5
304799A	2" SWT	5 13/32"			5.0
304793A	2" NPT Female	5 21/32"			5.7
304796A	2" press	10 29/32"			7.6

(1) Check valve body threads match the nut size when field installing tailpieces.
See fittings table in Caleffi Catalog.

Installation

The Caleffi 3047 Series has Posi-Stop union sealing o-rings integrated into the body, DO NOT USE ADDITIONAL GASKETS during installation. The check valve can be installed in either a vertical or horizontal orientation. Before installation, thoroughly clean and flush the pipelines to remove debris. To prevent malfunction from debris fouling the check valve, a strainer should be placed upstream of the check valve. Install isolation valves on both the inlet and outlet sides to enable easy servicing and maintenance. Ensure the check valve is positioned with the arrow on the valve body aligned with the direction of flow. Maintain a minimum of five pipe diameters of straight pipe upstream to minimize turbulence at the valve.

Service and Maintenance

Before servicing, ensure the supply water is turned off, or confirm that the inlet and outlet isolation valves are in the closed position. The Caleffi 3047 Series check valves feature union connections, allowing for easy removal to inspect, clean, or replace the plastic check valve insert. The valve can be disassembled and cleaned to eliminate dirt, debris, or scale buildup. Check the integrity of the Posi-Stop o-rings integrated in the body, any shearing could put the seal in jeopardy and require new o-rings. If needed, the plastic check valve insert can be replaced using a hammer and punch, as it cannot be reused; a new check valve insert will be required. Accessory Posi-Stop o-rings and check valve inserts can be purchased as repair components from Caleffi.



NOTES

