FlowShield™ DuC
Dual check backflow preventer

3048 series

Submittal Data 03506 NA — Issue Date 062023

Application

Low lead dual check valve backflow preventer is designed for residential domestic water supply lines or commercial low-hazard backflow applications. It prevents reverse flow of unsafe water into main system water supply. The can occur due to pressure changes in the distribution network that can can water flow in reverse, or backwards. The two inline serviceable check valves prevent any contact between the two systems, closing automatically when backflow conditions occur. The Caleffi 3048 series FlowShield™ DuC is certified to ASSE 1024 and CSA 64.5 by ICC-ES.

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

ICC ES c PMG LOW LEAD

Typical Specification

Furnish and install on the plans described herein, a 3048 series FlowShield DuC dual check backflow preventer as manufactured by Caleffi. Each dual check backflow preventer must be designed with a DZR low-lead brass body. Each dual check backflow preventer must include EPDM PPO check valves, and peroxide-cured EPDM o-rings. Provided with NPT female, NPT male, sweat, press, PEX crimp or PEX expansion union connections. Each dual check backflow preventer shall be Caleffi 3048 series FlowShield DuC or approved equal. (See product instructions for specific installation information.)

Technical specifications

Materials

Body, retaining ring and lock nut:	DZR low-lead brass CW724R-M
Check valve:	EPDM, PPO
Spring:	stainless steel
O-rings:	peroxide-cured EPDM

Performance

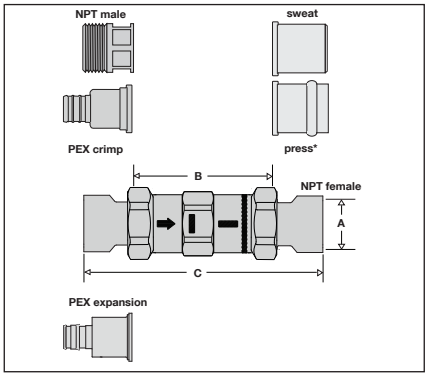
Max. working pressure:	160 psi (11 bar)
Operating temperature range:	32 to 180°F (0 to 82°C)

Medium water
Flow rate: see graph

Connections:
Main inlet/outlet: 1/2", 3/4", 1" NPT male, sweat, press, PEX crimp (ASTM F1807) or PEX expansion (ASTM F1960) union; 1/2" and 3/4" NPT female union

The backflow preventer is certified to ASSE 1024 and CSA 64.5, and complies with NSF/ANSI/CAN 372, low lead laws, and NSF/ANSI/CAN 61 (180°F/82°C Commercial Hot) as certified by ICC-ES file PMG-1720. It meets codes IPC, IRC and UPC for use in accordance with the US and Canadian plumbing codes.

Dimensions



Code	A	B	C	Wt. (lb/kg)	*Lay length for press:
NPT female threaded connections					
304843A	½"	2 13/16"	5¼"	1.2/0.5	
304853A	¾"	2 13/16"	5½"	1.6/0.7	
NPT male threaded connections					
304840A	½"	2 13/16"	5 5/16"	1.0/0.4	
304850A	¾"	2 13/16"	5⅛"	1.2/0.5	
304860A	1"	2 13/16"	5 13/16"	1.6/0.7	
Sweat connections					
304849A	½"	2 13/16"	4 9/16"	1.2/0.5	
304859A	¾"	2 13/16"	5 1/16"	1.6/0.7	
304869A	1"	2 13/16"	5 13/16"	1.6/0.7	
Press connections*					
304846A	½"	2 13/16"	5 3/16"	1.0/0.4	3 ½ inch
304856A	¾"	2 13/16"	5 15/16"	1.2/0.5	3 ⅜ inch
304866A	1"	2 13/16"	5⅞"	1.4/0.6	3 ⅞ inch
PEX crimp connections					
304847A	½"	2 13/16"	6 7/16"	1.0/0.4	
304857A	¾"	2 13/16"	6 7/16"	1.2/0.5	
304867A	1"	2 13/16"	6⅝"	1.4/0.6	
PEX expansion connections					
304848A	½"	2 13/16"	7 1/16"	1.0/0.4	
304858A	¾"	2 13/16"	7 1/16"	1.2/0.5	
304868A	1"	2 13/16"	7 1/16"	1.4/0.6	

Job name _____ Size _____
Job location _____ Quantity _____
Engineer _____ Approval _____
Mechanical contractor _____ Service _____
Contractor's P.O. No. _____ Tag No. _____
Representative _____ Notes _____

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