

FAQS

Frequently Asked Questions to help you understand the ProFlex Rubber Check Valves

1. Does the ProFlex Rubber Check Valve have to be installed in a certain position?

Yes. It should be installed in a vertical position with the bill being the vertical. However, in zero-clearance situations the valve can be rotated up to 30° to gain bottom clearance if required.

2. Is there a preferable angle in which the ProFlex Rubber Check Valve has to be installed?

Because the valve is not reliant on any hinges, gates, or weights the ProFlex Rubber Check Valve can be installed in any angle from vertical to horizontal.

3. What is "Back Pressure"?

When the ProFlex Rubber Check Valve is submerged in a liquid it is subjected to external pressure. It is critical that the maximum depth that the valve will be submerged is specified as this will be considered the maximum back pressure to which the valve will be subjected.

4. What is the required inlet pressure to allow the valve to open?

Typically 1" to 2" of water column over back pressure will normally drain a pipe.

5. What back pressures can the ProFlex Rubber Check Valve withstand?

Back pressures are in direct relation to the size of the valve, on the smaller diameters it is acceptable to specify up to 200 psi of back pressure and on larger diameters a back pressure limitation would be approximately 12 psi. Each ProFlex Rubber Check Valve is manufactured to the exact inlet pressure, back pressure and flow rates which we require from you for manufacture.

6. What are the most common installations?

The ProFlex 710 Flanged Rubber Check Valve is bolted directly to a head wall replacing an existing flap gate. The ProFlex 730 Sleeved Rubber Check Valve is clamped directly to a fabricated flanged nipple or clamped directly to an existing pipe.

7. Can I use the ProFlex Rubber Check Valve on potable water applications?

Yes. One of the optional materials for the ProFlex Rubber Check Valves is the NSF61 approved Nitrile elastomer. Due to the large demand for clean water and potable applications, PROCO is the leading supplier of NSF61 approved material. This will eliminate the concerns commonly affiliated with contaminants or leaching of elastomers in potable water systems.

8. Can the ProFlex Rubber Check Valve be installed on an "out-of-round" pipe?

Yes, please have the approximate outside dimensions of the pipe from four (4) different angles to provide proper sizing.

9. Can river currents and ocean waves damage the valves?

In most cases river currents and ocean waves will not damage the ProFlex Rubber Check Valves, but if currents or waves in question are of an abnormal nature, it is suggested that side walls or rock pilings be utilized.

10. Can the ProFlex Rubber Check Valve be used as a back pressure valve?

No, the ProFlex Rubber Check Valves have been designed to offer superior service as a back flow preventer and should not be considered for a back pressure valve.

11. Can PROCO make a special design to suit my requirements?

In most instances the ProFlex Rubber Check Valve can be fabricated to suit different applications. Contact PROCO for your requirements.

12. What types of elastomers are available?

The ProFlex Rubber Check Valve can be manufactured and supplied to withstand almost any type of media. Most commonly supplied are Nitrile (NSF61 approved), Neoprene, Natural Rubber, Hypalon®, Chlorobutyl, EPDM, and Viton®.

13. What types of materials are available for the retaining rings and banding clamps?

ProFlex Rubber Check Valves are supplied with 316 stainless steel retaining rings and 304 stainless steel clamps as standard. Other materials are available upon request.

14. Can the ProFlex 710 be supplied with special flanges or drilling?

Yes, the standard drilling pattern is ANSI 125/150# drilling. Other drilling standards such as, ANSI 250/300#, BS-10, DIN NP-10 and DIN NP-16, JIS-5K and JIS-10K are available upon special request.

15. Can I install a ProFlex Rubber Check Valve near a residential area?

Yes, one of the unique features of the ProFlex Rubber Check Valve is the design of the bill section. While the bill will open and allow passage of fluid when inlet pressure is present, the bill will close and not allow children or animals to crawl inside when there is no inlet pressure. And since the ProFlex Rubber Check Valve is manufactured entirely of rubber compounds there is no chance of loud banging which is commonly heard from flap type valves.

16. Can I use a ProFlex Rubber Check Valve in winter conditions?

Yes, as in any installation the ProFlex Rubber Check Valve will not be hindered by winter or sub-zero installations. If the valve is installed in a running water application the valve will continue to operate satisfactorily, due to the elastomers' unique chemical makeup. If unusual circumstances occur the ProFlex Rubber Check Valve will freeze without any damage and will return to operation upon thaw.

17. Will the ProFlex Rubber Check Valve operate if buried in sand or sediment?

In normal conditions the discharge flow will create a small flow pattern which will then be followed by the flow velocity of the media. This velocity will flush the rest of the sediment away from the valve's opening.

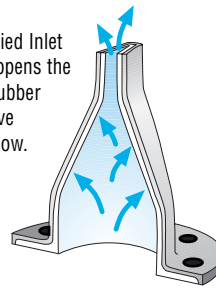
18. What is the maximum temperature that the ProFlex Rubber Check Valve can handle?

Temperatures can range from -65° F (-54° C) to +250° F (+121° C) depending on the specified elastomer.

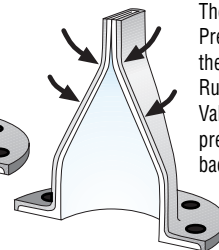
19. Is the ProFlex Rubber Check Valve suitable for direct sunlight and UV areas?

Yes, all ProFlex Rubber Check Valves are manufactured with a highly UV-resistant elastomer cover. In some applications the ProFlex Rubber Check Valve may be subjected to oil sludges which make Nitrile the perfect choice for protection.

The specified Inlet Pressure opens the ProFlex Rubber Check Valve allowing flow.



The specified Back Pressure forces the ProFlex Rubber Check Valve to close preventing backflow.



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