CPVC BULKHEAD FLANGE

A CPVC bulkhead flange gives you a bolted connection on the tank wall. We start with a Hayward BFA Series long pattern CPVC bulkhead and add a Spears® Schedule 80 CPVC flange. Your valve or piping bolts straight to the tank and comes off for service without turning the bulkhead, so the gasket seal is never disturbed.



Bulkhead flange installed on a tank

- **Bolt pattern:** same as Class 150 metal flanges per ANSI B16.5, so it mates with standard valves and piping.
- **Rated 150 psi** with water at 73°F, non-shock. Not for compressed air or gas.
- **1/2" through 6"**; larger sizes need a larger tank (see the bulkhead sheet).
- **Bulkhead gasket:** EPDM or FKM (Viton®).

FLANGE PRESSURE VS. TEMPERATURE (PSI)

Temp.	100°F	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F
CPVC	150	140	130	120	110	100	90	80	70	60	50	—

CPVC flanges hold useful pressure up to 200°F. The flange, bulkhead and tank each have a rating; the lowest one governs.

BOLTING IT UP

Flange size	Torque (ft-lb)
1/2–1-1/2"	12
2–4"	25
6"	40

Clean, lubricated threads. Over-torquing will damage the flange.

- Use a full-face, 1/8" thick elastomer gasket, about 70 Shore A.
- Line up and support the pipe so it does not pull on the flange.
- Two flat washers per bolt. Snug all nuts by hand first.
- Tighten in 5 ft-lb steps, crossing the flange (180° opposite bolts), up to the torque shown.
- Do not use the bolts to pull mismatched flanges together. Take care against raised-face flanges or wafer valves.

Threaded joints: use PTFE paste, not PTFE tape. Tape can bunch up and crack a plastic fitting.

Tell us the chemical, temperature and what bolts to the flange, and we will set the size and gaskets.

Flange data: Spears® Flanged Connections data sheet. Spears is a trademark of Spears Manufacturing Co.; Hayward of Hayward Industries, Inc. Subject to change.

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