PVC BULKHEAD FLANGE

A PVC bulkhead flange gives you a bolted connection on the tank wall. We start with a Hayward BFA Series long pattern PVC bulkhead and add a Spears® Schedule 80 PVC 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.

- **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®).



Bulkhead flange installed on a tank

FLANGE PRESSURE VS. TEMPERATURE (PSI)

Temp.	100°F	110°F	120°F	130°F	140°F	150°F	160°F
PVC	150	135	110	75	50	—	—

PVC flanges drop off fast above 120°F and are not rated at 150°F. For hot liquid, use CPVC. 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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