

CV-1 Check Valve

Product Overview

The CV-1 PTFE Check Valve is designed for use in high purity semiconductor applications, and is also ideally suited for ultra-pure water and aggressive chemical or gas applications. The design utilizes machined PTFE components to provide superior chemical resistance and purity without requiring o-rings for sealing. The machined PTFE spring allows for low cracking pressure operation and minimal back pressure for resealing.



Features

Polished sealing surfaces.

Tongue and groove external seal.

Machined PTFE spring.

Numerous end configurations available including Parflare. Available with different configurations on either end.

Benefits

Long life and superior sealing characteristics.

Eliminates o-rings and compatibility problems.

Low cracking pressure.

Reduces connections, mounting space, and overall cost.

Specifications

Materials of Construction

Wetted: PTFE

Non-wetted: PFA, PVDF, ETFE

Cracking Pressure

0.25 PSIG (.017 bar) - 0.75 PSIG (.052 bar)

Back Check Sealing Pressure

5.0 PSIG (.35 bar)

Pressure Range

27" Hg vacuum (913 mbar) - 120 PSIG (8.3 bar)

Pressure ranges for operation at ambient temperatures. For use at higher temperatures consult Pressure/Temperature chart on page 3.

Temperature Ranges

Style 1: 32° - 212° F (0° - 100° C) Ambient

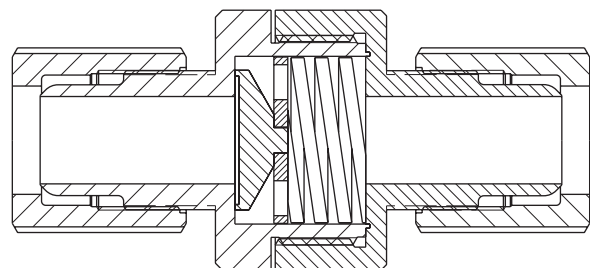
32° - 266° F (0° - 130° C) Fluid

Style 2 & 3: 50° - 212° F (10° - 100° C) Ambient

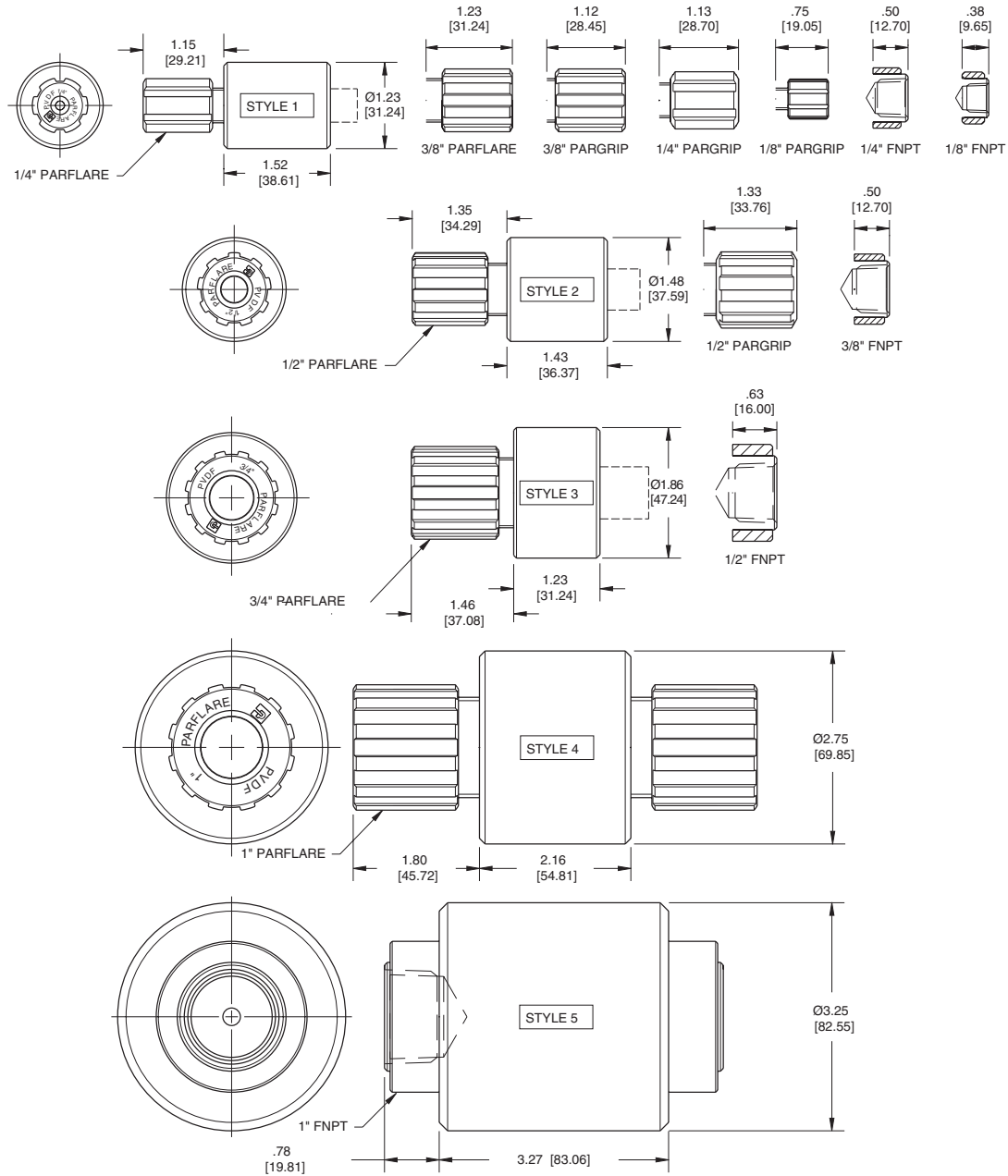
50° - 266° F (10° - 130° C) Fluid

Style 4 & 5: 60° - 212° F (15° - 100° C) Ambient

60° - 266° F (15° - 130° C) Fluid



BRACKETED DIMENSIONS ARE IN mm.



Model Number	Cv	Kv	Style	Port Configuration
CV-1-1122	0.61	8.78	1	1/8" FNPT
CV-1-1144	1.51	21.74	1	1/4" FNPT
CV-1-1166	2.43	35.00	2	3/8" FNPT
CV-1-1188	4.22	60.77	3	1/2" FNPT
CV-1-111616	14.00	201.6	5	1" FNPT
CV-1-2222	0.02	0.29	1	1/8" Pargrip
CV-1-2244	0.34	4.90	1	1/4" Pargrip
CV-1-2266	.98	14.11	1	3/8" Pargrip
CV-1-2288	2.17	31.25	2	1/2" Pargrip
CV-1-6644	.26	3.74	1	1/4" Parflare
CV-1-6666	1.11	15.84	1	3/8" Parflare
CV-1-6688	2.03	29.23	2	1/2" Parflare
CV-1-661212	4.13	59.47	3	3/4" Parflare
CV-1-661616	11.85	170.6	4	1" Parflare

Pargrip models are supplied with PFA nuts. Parflare models are supplied with PVDF nuts. For PFA nuts add -T to model number.