

VN Series High Pressure Check Valves

- Full-Bore Internals
- CFD Optimized Flow Path
- Up to 345 bar Pressure Rating
- Ideal for Virtual Pipeline
- Anti-Blowout Seat and Poppet
- Anti-Hammer Design
- 5:1 Safety Factor
- Simple to Service
- **TPED Certified**



Eclipse Check Valves are designed with smooth, CFD optimized flow paths for maximum flow. The energized PTFE seal ensures reliable operation at both low and high differential pressures, as well as long service life and a wide operating temperature range.

Most other high pressure check valves will use a reduced bore which restricts flow - Eclipse uses streamlined and enlarged flow paths to maximize flow for more efficient operation, which is critical in applications such as CNG virtual pipelines.

Operating Temperature:

Standard	-65°C to 85°C
High-Temp	-65°C to 200°C

Cracking Pressure:

Standard	1 - 2.5psi
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Materials:

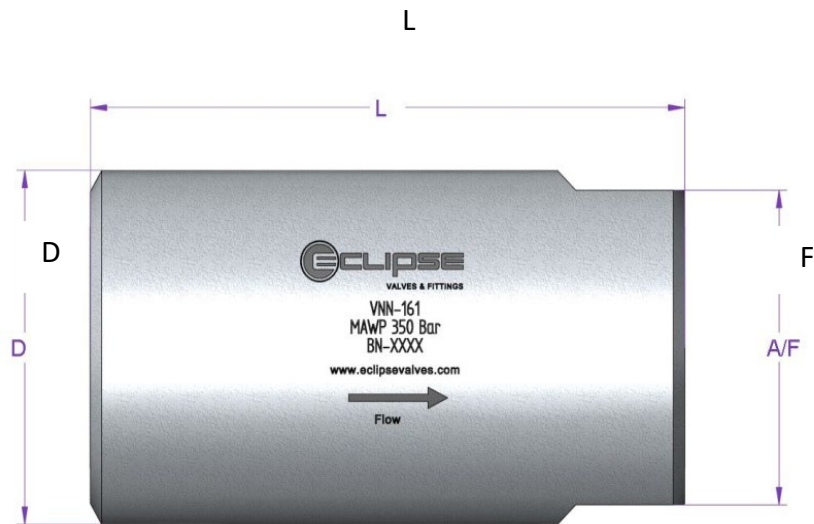
Body	Stainless Steel 304
Internals	Stainless Steel
Seals	PTFE, FKM

Ports:

Standard	FNPT (ASME B1.20.1)
Alternative	BSP or J1926 SAE

Chemical Compatibility:

Suitable for natural gas, inert and non-corrosive gases, oil, water, and most chemical applications. Please advise system fluid when ordering to confirm compatibility.



Model	Ports	Cv	L mm	D mm	F mm (in)	MAWP bar (psi)
VNN-081	1/2"	5	61	34.5	28.6 (1-1/8")	370 (5350)
VNN-121	3/4"	13	78	43.5	38.1 (1-1/2")	345 (5000)
VNN-161	1"	24	90	50	44.5 (1-3/4")	345 (5000)
VNN-241	1-1/2"	45	101.6	80	70 (2-3/4")	275 (4000)

Sizes and specifications are subject to change without notice