

- Compatible with any ISO-7241-1 series B profile coupling
- Up to 6500psi pressure rating
- HDCNG and hydrogen compatible
- Temperature range: +85C to -60C standard (Colder on request)
- High flow coefficient
- Simple service kits – no special tools required
- Locking sleeve to ensure correct connection
- Stainless construction with anti-wear surface treatment
- Sealing poppets
- Quick and easy to connect and disconnect
- ¾" and 1" sizes
- Over 50% better flow than typical ISO couplers
- TPED approved

Background:

The ISO-7241-1 series B standard was originally for hydraulics, and was adopted by the CNG industry for the decanting and filling of transportable CNG. However, natural gas has a strong cooling effect when there is a pressure drop, which is not a factor in hydraulics. This resulting low temperature can cause some carbon steel couplings to become brittle below a certain temperature, which can cause failure. Stainless avoids this issue.

Eclipse has drawn on experience in the LNG industry to make significant improvements to the design so that it could be used safely with CNG while remaining compatible with existing hardware:

- Cryogenics-grade materials for improved low-temperature toughness
- Long-life, anti-blow-out PTFE seals with low-temperature capability
- Greatly improved flow capacity with CFD-optimized flow-path
- Increased pressure rating for HDCNG compatibility

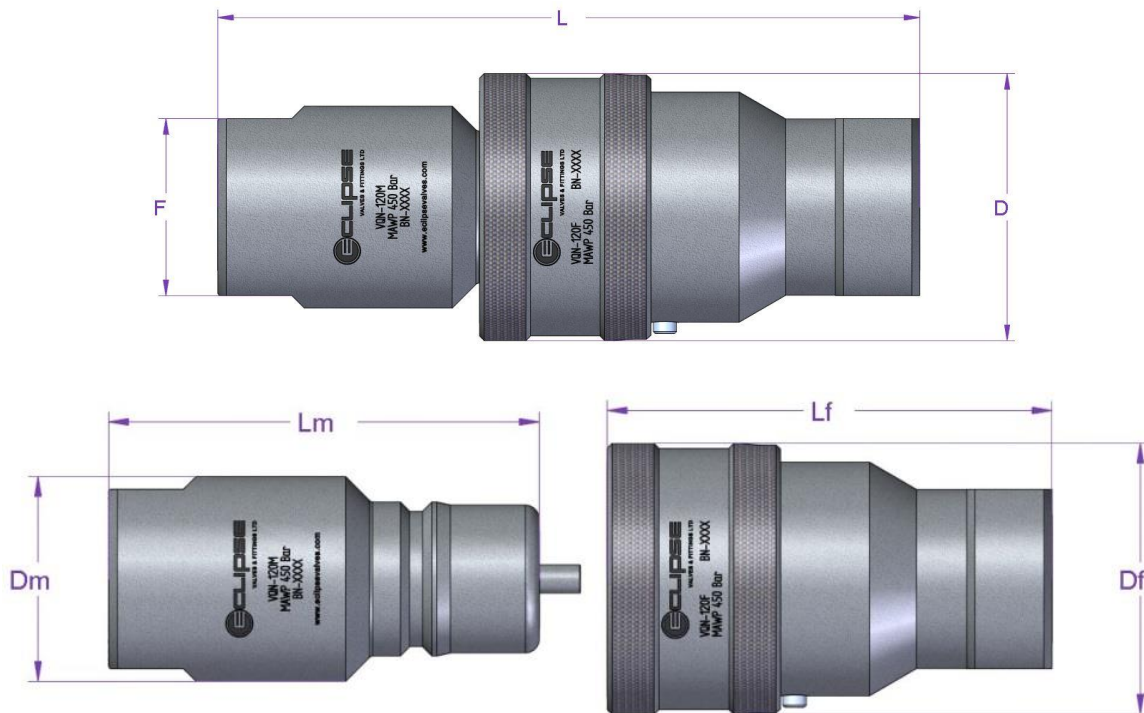
The result is that our coupling is significantly stronger, flows better and has more resistance to the cold, making it a safer and better performing option than any other brand.

Application:

Designed for use in high pressure gas and oil applications and ideally suited for CNG trailer hose couplings or anywhere high flow rates are required. The combination of the one-piece body design and PTFE poppet seal ensures continuous sealing is maintained by eliminating the risk of poppet seal blowout under high flow conditions.



Model	Description	Bore Size	Port	Cv	MAWP	Weight (kg)	D	L	F
VQN-120M	Male Connector	3/4"	3/4" NPT	13.2	450 bar 6500psi	0.6	43.5	92	38.1 (1.5")
VQN-120F	Female Connector					1.0	57.5	95	
VQN-120	Connecting pair					1.6	57.5	151.5	
VQN-160M	Male Connector	1"	1" NPT	24.7	350 bar 5000psi	0.85	50	102	44.45 (1 3/4")
VQN-160F	Female Connector					1.5	66.8	108.5	
VQN-160	Connecting pair					2.35	66.8	169.5	



Please supply the following information when ordering:

- Model number + quantity
- System gas/fluid
- Port Size and Type*
- Operating and ambient temperature range
- Locking pin required or not

*Non-standard port connections available by request – MOQ may apply