



Our leak-free Dragonfly Valve is designed to ensure safety and long-term sustainability by eliminating fugitive emissions, helping your business achieve its net zero targets.

The innovative Dragonfly mechanism requires only 10% of the torque of equivalent ball valves to operate, removing the need for a mechanical valve stem – the most common route for valve leakage, thereby ensuring zero external leakage over its lifetime.



Eliminate Stem Leakage |

- Magnetic torque transmission through the valve body
- No dynamic seals through the valve body
- Very low torque operation, allowing compact electric actuation
- Quarter-turn actuation, compatible with all actuator-based fail-safe systems, and ISO 5211 mounting

Low Ownership Cost |

- No stem seals or packing to monitor for leaks or maintain
- Top entry design allows in-line access to the valve internals, facilitating easy maintenance and shorter downtimes
- Valve face that cams out of the seat to reduce friction, resulting in low seat wear

Full Bore & Single Seated |

- Efficient flow path that ensures minimal loss of pressure or energy
- Compatibility with pipeline inspection tools
- Mechanically energised sealing, allowing pressure-independent tight shutoff
- No cavities that can inadvertently trap pressure, making the valve suitable for phase change media



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Engineered by

**Actuation
Lab**

	Small Valves for Alternative Fuel Service	Large Valves for High Criticality Applications	Hazardous Chemical Valves	Cryogenic Valves
				

OVERVIEW				
Sizes Range (nominal valve bore)	DN 8 to DN 25 (1/4" NPS to 1" NPS)	DN 25 to DN 250 (1" NPS to 10" NPS)	DN 8 to DN 250 (1/4" NPS to 10" NPS)	DN 15 to DN 50 (1/2" NPS to 2" NPS)
Pressure Class	Up to PN 400 (Class 2500)	PN 40 to PN 250 (Class 300 to 1500)	PN 25 and PN 40 (Class 150 and 300)	PN 16 (Class 150)
Max Rated Pressure	414 bar	250 bar	50 bar	20 bar
Function	on-off	on-off and control	on-off and control	on-off
Cv	9 to 75	85 to 8000	9 to 8000	18 to 400
Operating Temp (°C)	-46 to 60	-46 to 120	-46 to 60	-253 to 40
End Connections	Threaded and tube connectors	Flanged or weld ends	Threaded, flanged or weld ends	Weld ends
Face-to-face Dimension Compatibility	DIN 3202-4 M2 BS EN 16722 X10	ASME B16.10 long pattern ball ISA 75.08		As requested
Operation	Quarter turn, actuated or manual with locking functions	Quarter turn, actuated or manual with optional magnet bypass override and lock	Quarter turn, actuated or manual with locking functions	Quarter turn, actuated or manual with locking functions

COMPATIBLE MEDIA				
	Hydrogen and Ammonia	Hydrogen, Natural gas, CO ₂	Cl ₂ , HF, CCl ₂ , EDC, HCN, NH ₃ , TiCl ₄	LH ₂ , LN ₂ and LNG

WITNESSED TESTING AND CERTIFICATES				
Fugitive Emissions ISO 15848-1	Tightness class AH He CC3 endurance class (100K cycles)			
Seat Leakage (both directions) API 598/ISO 5208	Rate A polymer seated/Rate B metal seated			
Fire Safe (ISO 10497/API607)	No	Yes	No	No