



水下化学药剂注入计量阀

(Chemical Injection Metering Valve / Chemical Throttle Valve/ Subsea Chemical Injection Delivery System, CIMV / CTV / SCIDS, 以下 CIMV)是一款用于精确控制注入速率的精密计量阀。

CIMV利用具有完全自主知识产权

DNV

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技术指标

主要性能指标		HH-CIMV
	CIMV-1000L	CIMV-2000H
流量范围	0.75L/h~180L/h（可扩展）	120L/h~6000L/h（可扩展）
工作温度	-18℃~70℃	
使用寿命	30年	
符合标准	SAE AS4059 12B-F，推荐优于SAE AS4059 10B-F	
供电电压	24VDC	

产品特点

- 采用全不锈钢材质，耐腐蚀性强
- 结构紧凑，安装方便
- 流量精度高，可达±0.5%
- 使用寿命长，可达30年以上

应用

- 海上油田化学药剂注入
- 海上平台海水淡化系统
- 海上平台污水处理系统
- 海上平台消防系统

应用效果

- 流量精度高
- 结构紧凑
- 使用寿命长

Chemical Injection Metering Valve (CIMV)

Chemical Injection Metering Valve (CIMV) , also called as Chemical Throttle Valve (CTV) or Subsea Chemical Injection Delivery System (SCIDS) , is a device for the precise control and metering of various chemicals (such as methanol, MEG, scale inhibitors, etc.) injected into subsea production system. Precise control of the chemicals flow to subsea production system is crucial for preventing the formation of hydrates, wax, and scales in pipelines, which is vital for ensuring the normal function and long-term stable operation of subsea production system. Two versions of CIMV, high flow rate and low flow rate respectively, were developed utilizing redundant metering technologies which are 100% proprietary intellectual property. The CIMVs have been certified by the authoritative third party DNV, which guarantees 30 years service life and accurate metering precision under harsh conditions such as low temperatures at the seabed, high internal and external pressure, etc.

Features

- Compatible with all known commonly used chemicals.
- Certified by authoritative third party (DNV).
- High turn-down ratio up to 500:1 or higher.
- Self-flushing feature to avoid any blocking.

Benefits

- Precise chemical injection as needed, avoiding waste.
- Enhances production optimization and flow assurance.
- Ensures long-term reliability and lifespan of subsea production system.

Applications

- Precise control and measurement of injected chemicals
- Flow assurance

Specifications

Item	Low Flow CIMV	High Flow CIMV
Model	CIMV-1000L	CIMV-2000H
Flow-rate range	0.75 L/h to 180 L/h (can be extended)	120 L/h to 6000 L/h (can be extended)
Design temperature	-18 ~ 70°C	
Design life	30 years	
Operating environment	SAE AS4059 12B-F	
Power consumption	≤12W	

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