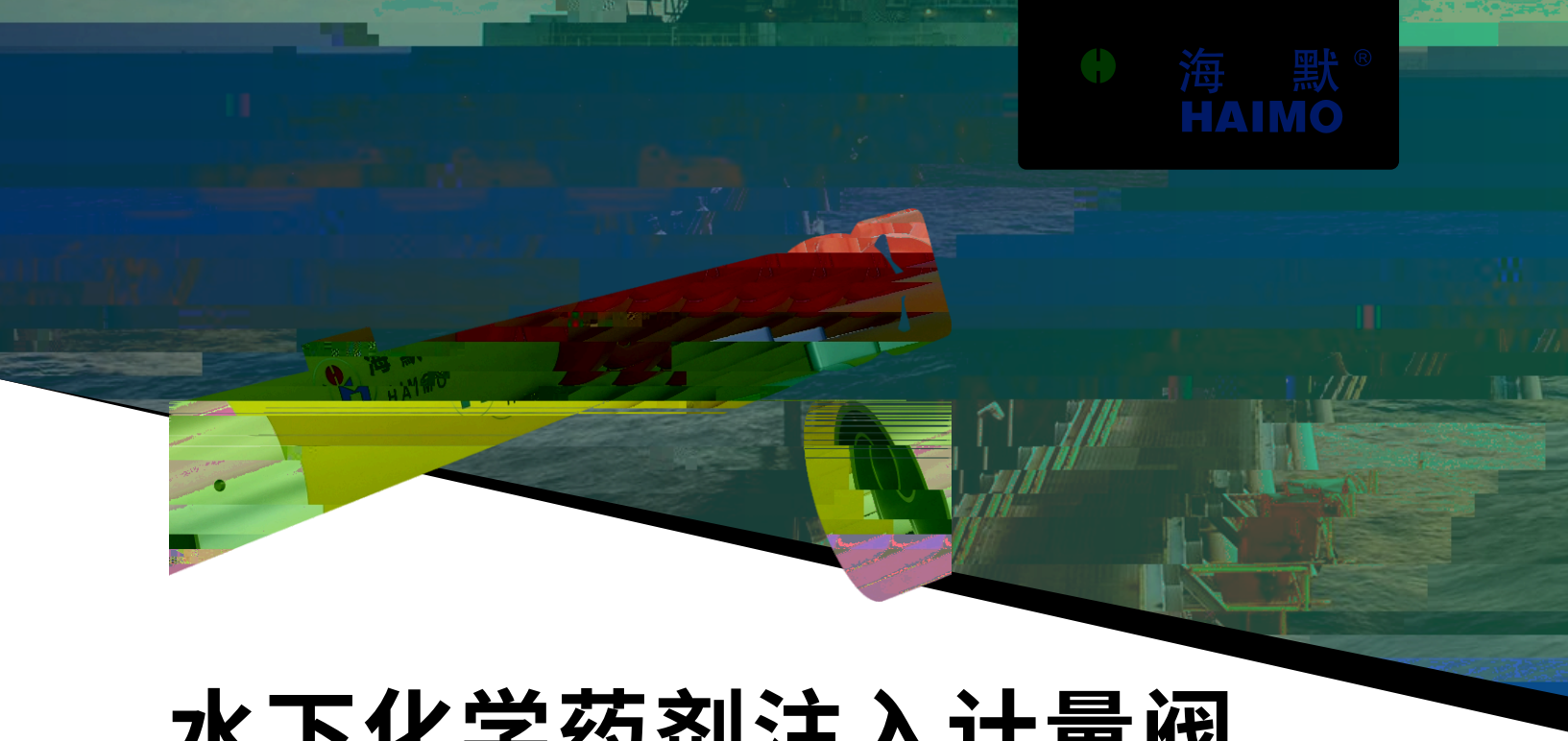

水下化学药剂注入计量阀

(Chemical Injection Metering Valve / Chemical Throttle Valve/ Subsea Chemical Injection Delivery System, CIMV / CTV / SCIDS，以下 CIMV)是一款用于精

CIMV利用具有完全自主知

DNV

30

技术指标

	(LF) CIMV技术指标	(HF) CIMV
	CIMV-1000L	CIMV-2000H
	73Kg(空气中) / 61Kg(水中)	120Kg(空气中) / 100Kg(水中)
	0.75L/h～180L/h（可扩展）	120L/h～6000L/h（可扩展）
	10000psi	
	-18°C～70°C	
	3000米	
	30年	
	±2.5% F.S.	
	SAE AS4059 12B-F，推荐优于SAE AS4059 10B-F	
	24VDC	
	≤12W	
	Modbus RTU / CANopen	
	(DNV)	
	API 17Y、API 6A、API 17D、API 17F	

产品特点

-
-
- 500 1
-

应用

-
-

应用效果

-
-
-

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

Items	Low-Flow CIMV	High-Flow CIMV
Model	CIMV-1000L	CIMV-2000H
Weight	73kg (in air) / 61kg (in water)	120kg (in air) / 100kg (in water)
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 pressure	10000 psi	
Design temperature	-18 ~ 70°C	
Water depth	3000m	
Design life	30 years	
Accuracy	± 2.5%F.S.	
Operating environment	SAE AS4059 12B-F	
Power supply	24±4VDC	
Power consumption	≤ 12W	
Communication protocol	Modbus RTU / CANopen	
Third party certification	DNV	
Design code	API 6A、17D、17F、17Y	

海默新宸水下技术（上海）有限公司

Haimo Subsea Technology (Shanghai) Co., Ltd.

( ) 218 28

+86 21 58281567 18153607606

jwzhang@haimo.com.cn