



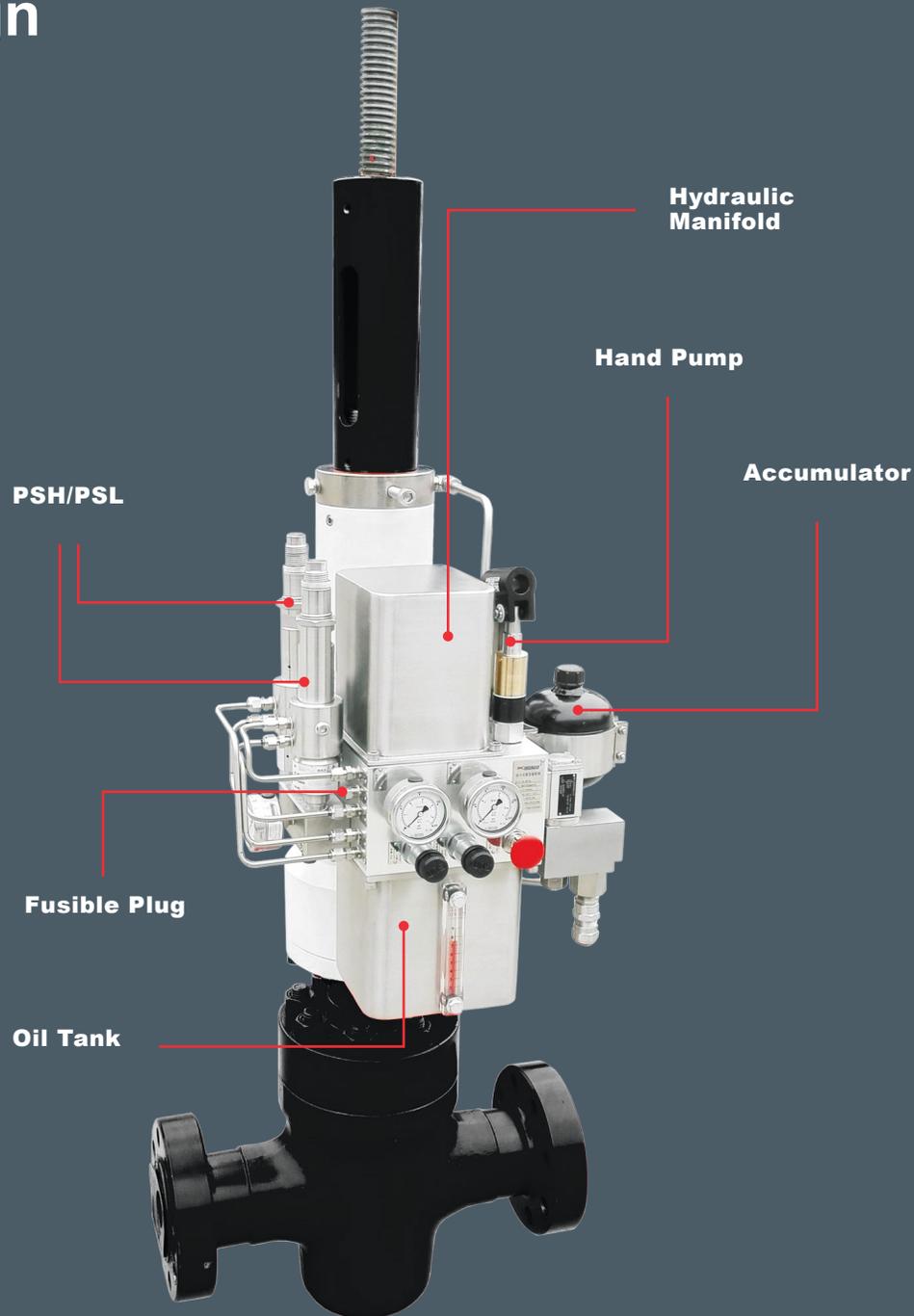
# C6A SERIES

## API 6A Hydraulic Actuators

Designed & engineered for severe-service applications

- Nominal Pressure: 3000 psi / 5000 psi
- Closing Time:  $\leq 5s$
- Enclosed System

# Design



OPTIONAL	
Fusible Plug	Quickly trips circuit to shutdown position when exposed to the rising temperature of fire
PSL/PLH	Customer preferred models can be promptly associated into the circuit onboard the manifold or pipeline to provide automatic operation of the shutdown system
Solenoid Valve	With low power consumption coils to provide efficient remote control of the shutdown system
Limit Switch	Valve open and close position with local indication and remote feedback
Isolating Valve	Specially designed to forestall ice blockage of moist gas under low temperature
Gate Valve	Ideally suited for on/off service
Self-Contained ESD System	Provides reliable valve shutdown capabilities when an external power source is either not available or not dependable
Hand Wheel	Manually operating when the hydraulic system is unavailable

# Specifications

- **Nominal Pressure: 3000 psi / 5000 psi**
- **Standard Temperature: -40°C (-40°F) ~ 70°C (158°F)**
- **Closing Time: ≤ 5s**
- **Solenoid Valve: 24 VDC, 10W**

DESIGN PARAMETERS	
API Specification	ISO 10423 / API 6A
Certification Number	6A-1377
Pressure Rating	5000 psi
Temperature Ratings	L + U
Material Class	AA
Performance Requirement	Pr2
Product Specification Level	PSL2

SELECTION REFERENCE CHART			
Valve DN	API Pressure Class (psi)	Stroke Length (in)	Model
2 <sup>9</sup> / <sub>16</sub>	5,000	2.99	C6A-100A
2 <sup>9</sup> / <sub>16</sub>	10,000	2.99	C6A-125A
2 <sup>9</sup> / <sub>16</sub>	15,000	2.99	C6A-125A
3 <sup>1</sup> / <sub>8</sub>	5,000	3.78	C6A-125A
3 <sup>1</sup> / <sub>8</sub>	10,000	3.78	C6A-125A
3 <sup>1</sup> / <sub>8</sub>	15,000	3.78	C6A-125B
4 <sup>1</sup> / <sub>8</sub>	5,000	4.53	C6A-125B
4 <sup>1</sup> / <sub>8</sub>	10,000	4.65	C6A-125B
4 <sup>1</sup> / <sub>8</sub>	15,000	4.96	C6A-125B
5 <sup>1</sup> / <sub>8</sub>	5,000	5.91	C6A-160
7 <sup>1</sup> / <sub>16</sub>	5,000	8.11	C6A-200
7 <sup>1</sup> / <sub>16</sub>	10,000	8.15	C6A-200

## Self-Contained ESD System

The Self-Contained ESD System is a safety system that is designed to provide reliable valve shutdown capability when an external power source is either not available or not dependable. Using a hand pump with different control parts, a zero leakage circuit is maintained to ensure valve movement does not inadvertently occur until a fail-safe signal is received.

### Easy to Operate

The Self-Contained ESD System, with its sequence valve and bypass valve, can directly pressurize and open the valve conveniently in spite of external conditions.

### Integrated

All control system components are integrated on one manifold, with all channel connections among each part designed within the module. The structure is compact, reliable and no leakage even in extremely high or low ambient temperature.

### Enclosed System

With volume compensating design, the hydraulic control loop is totally isolated with air, avoiding deterioration or contamination of the hydraulic oil. The C6A can be installed at any angle necessary.

### Temperature Compensation

Temperature compensation of high pressure actuator circuit and low pressure control circuit is accomplished with two separate accumulators. This assures system stability by minimizing relief valve operation and eliminating valve drift due to large temperature changes.

### Fast Trouble Shooting

Specialized troubleshooting design provides a quick self-diagnosis system.

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