



## 6200 EMERGENCY SHUTDOWN VALVE

### Trusted Solutions When Needed Most

For over 25 years Total Valve Systems has designed and produced the 6200 series valves to:

- Promote safety
- Provide automatic shutdown during an emergency
- Speed recovery time once disaster has been averted

The 6200 series valve stops flow quickly and remains closed providing needed isolation until primary emergency valves are reset and system safety is restored.

These robust valves are versatile and provide protection in a variety of pipelines and storage facilities world wide including:

- Chemical plants
- Refineries
- Shipyards
- Tank farms
- Cement and power plants
- Rail loading facilities
- Pumping stations
- LPG

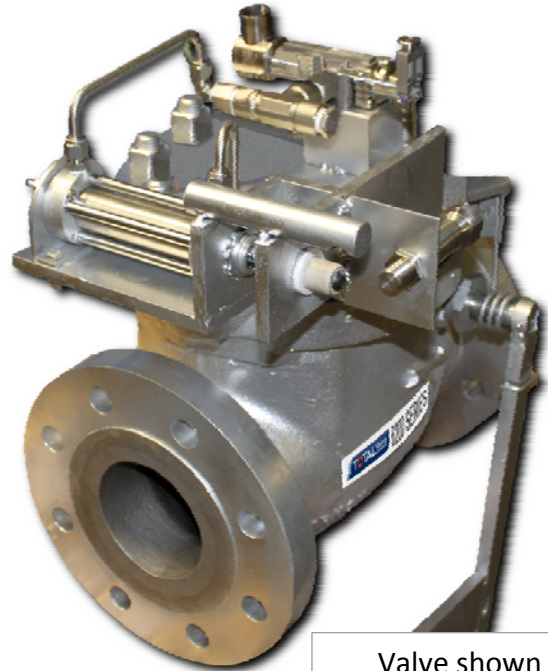
### Process materials include:

Diesel fuel, hot oil, ammonia, pentane, propane, butane, NGL, polypropylene, LNG and mild acids (Consult factory for other applications and fluids.)

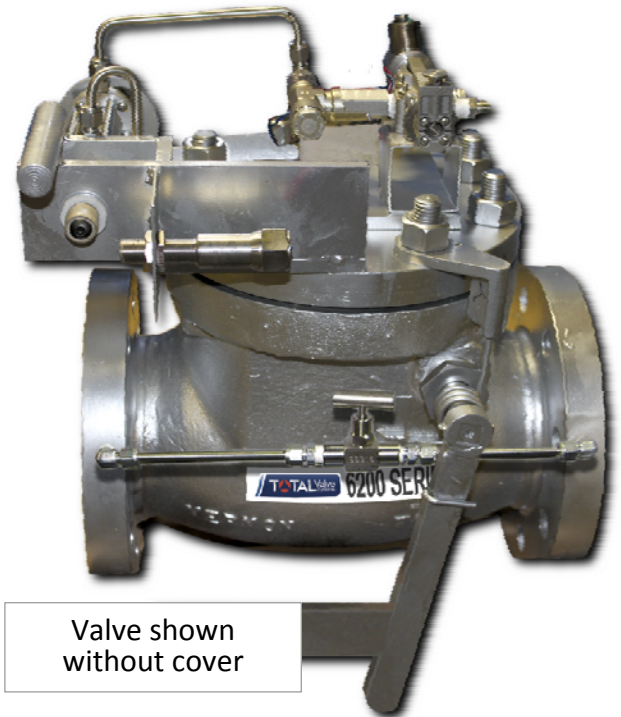
Reliable, reverse swing check valve technology is incorporated in Total Valve's Model 6200 Valves to immediately stop the flow of fluid or vapor during an emergency.

The valve closes when a remote signal or alarm is sent to the electronic or pneumatic tripping device that activates the external, spring-loaded handle. Fusible links that melt during a fire also allow fast closing.

Our optional valve by-pass system breaks static pressure to help equalize the pressure downstream when resetting the valve to the normal open position.



Valve shown without cover



Valve shown without cover

**Ruggedly designed and built in accordance with**

- API 6FD requirements.
- ASME/ANSI B16.34 1988 Codes

**Standard design**

- Cast steel body (WCB-grade) 316ss trim, 17-4PH shaft material, and graphite cover gasket and shaft packing. (Alternative materials, construction, and design specifications are available upon request.)
- Adjustable packing gland to maximize packing life and performance
- Lapped seat & disc to minimize leakage under pressure
- Coil spring assisted closure to assure tight contact between seat and disc
- Optional by-pass valve to help equalize line pressure when resetting the valve
- Fusible link assembly to automatically activate valves at elevated ambient temperatures
- Built-in radial and thrust bearings to provide ease of operation

**Options available**

- Wide variety of body, trim and packing materials for special applications or environments
- Other valve actuator types and mechanisms
- Remote manual valve closure
- "Applied air" or "Air failure" for pneumatic operation
- "Applied power" or "Power failure" for electrical operation
- Explosion-proof limit switch for remote status indicator
- Closure dampener to reduce closing speeds and upstream pressure surges
- Injector fitting with internal lantern ring for easy shaft packing lubrication

**Installation and operation**

The 6200 series valve is normally open and can be installed horizontally or in a vertical, down-flow position. The fusible link assembly holds the valve open until melted in an emergency by excessive temperature. When the fusible link melts or remoteclosure is activated, the spring-assisted handle and shaft assembly rotates the disc into the closed position. Flow through the main valve creates a pressure drop across the disc assisting closure and assuring a tight seal.

After emergency conditions are over and it is safe to do so, the valve is brought back into service as follows. First, replace the fusible link. Then, after pressure is equalized across the disc (with the help of the internal relief valve)the external handle is reset and held in the open position with the actuator. Other optional electric or pneumatic release devices may be placed into service. Note: the valve actuator can be activated electronically, hydraulically or with nitrogen or instrument air.

These valves can include various ways to shut down the system. System shutdown can contain some or all the following methods: thermal protection, instrument air loss, manual trip at the valve, trip from control room or other remote place, excessive line pressure to prevent downstream damage. Fusible links (thermal protection) are available in series or parallel and recommended as spare parts.

The 6200 Series Valves can also include a manual bypass or a manual open bleed through for pressure equalization.

**Quality Control**

Rigorous quality control is fundamental at every step of the design and manufacturing process. Every valve is tested to API standard No. 598 and issued a serial number which can be tracked 24/7 through our live online database.

Model	Size	Class 150# ANSI Flanges			Class 300# ANSI Flanges		
		A Height	B End to End	C Flange ID	A Height	B End to End	C Flange ID
6200-E	1	8.75	5.00	1.00	9.38	8.00	1.00
6200-G	1.5	10.50	6.50	1.50	11.62	9.00	1.50
6200-I	2	12.50	8.00	2.00	13.00	10.50	2.00
6200-K	3	14.50	9.50	3.00	15.25	12.50	3.00
6200-L	4	16.50	11.50	4.00	17.50	14.00	4.00
6200-M	6	18.50	16.00	6.00	20.00	17.50	6.00
6200-N	8	20.50	19.50	8.00	22.00	22.00	8.00
6200-O	10	22.50	24.50	10.00	23.00	24.50	10.00
6200-P	12	24.50	27.50	12.00	26.00	28.00	12.00
6200-Q	14	 Please inquire for dimensions.					
6200-R	16						
6200-S	18						

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Basic options Carbon Steel Bodies, Stainless Internal. All other materials are available. Available in All Pressure and Seat Leakage Classes. All dimensions are listed in inches. Dimensions shown are for standard design. Valves are custom-engineered and dimensions proved above are for reference only. Dimensions are subject to change without notice.