

**TOTAL** Valve  
Systems

TRUSTED SOLUTIONS FOR OVER 30 YEARS



# PRODUCT CATALOG

Excess Flow Valves • Check Valves • Emergency Shutdown  
Relief Valves • Isolation Valves



YEARS

Experience serving industries with SAFETY & RELIABILITY

# INDUSTRIES

LNG Terminals



LPG Processing



Petrochemical Processing



Oil Tanker Terminals



Truck Terminals



Oil Production



# SERVED

## CERTIFICATIONS



AMERICAN PETROLEUM INSTITUTE



AMERICAN SOCIETY OF MECHANICAL ENGINEERS



EUROPEAN CONFORMITY (CE)



NATIONAL FIRE PROTECTION ASSOCIATION



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION



UNDERWRITERS LABORATORIES



DET NORSKE VERITAS (DNV)



UNITED STATES COAST GUARD

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# CONTENTS

Any model can be customized for your specific applications.

## VALVE SELECTION GUIDE

4-5

### EXCESS FLOW

PG. 6

#### ALTERNATIVE NAMES

- Emergency Shutdown Device
- Line Rupture Valve
- Earthquake Valve
- Surge Preventer
- Shutdown Valve
- Velocity Check
- Seismic Valve

#### BENEFITS

- Multiple flange ratings available
- Flow shut-off on line ruptures
- Fire safe design to API 6FA
- Bi-directional normal flow
- Resettable features
- Stop flow surges

WAFER  
Loading/Unloading Racks  
In-Line Valves  
Inserts between customer ASME flanges

Standard Flow	2100	6
High Flow	2105	6
Excess Flow Vent, High Flow Check	2106	6

DOUBLE FLANGED  
Loading/Unloading Racks  
In-Line Valves  
Bolts to ASME flanges

Standard Flow	2120	7
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THREADED/WELDED  
Loading/Unloading Racks  
In-Line Valves

Standard Flow   Male Inlet x Female Outlet	2130	9
Standard Flow   Female Inlet x Male Outlet	2140	9
Standard Flow   Female Inlet x Female Outlet	2150	9
Standard Flow   Male Inlet x Male Outlet	2160	9
Standard Flow   Socket Weld	2170	9
High Flow   Female Inlet x Female Outlet	2155	9
Selectable Flow   Female Inlet x Female Outlet	2180	9

INTERNAL to TANK  
Sphere & Bullet Tanks

Internal shut-off for NFPA 58 tanks	2400	10
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### PG. 11 CHECK

Also known as a One-Way Valve; Ensures one-direction flow and Prevents back pressure

#### ALTERNATIVE NAMES

Vacuum Valve, Low Pressure Relief, Vent Valve, Non-Slam, Back Flow Preventer

3000 SERIES

11

#### APPLICATIONS

Bulk Storage, Vessel Inlets, One Direction Flow, Custom Cracking Pressure, Reverse Flow Change

### EMERGENCY SHUTDOWN

PG. 12

Detects and immediately stops the flow of potentially hazardous materials

Emergency Shut Off Valve   Hydraulic thermal shutdown	6100	12
Swing Check   Thermal/Emergency shutdown	6200	13
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## GAS STORAGE



## CHEMICAL PROCESSING




## GAS PIPELINES



**A MODELS 2100 & 2105** pg.6

- // Slim Wafer profile
- // Optional bypass
- // Internal piping and flanges
- // Exclusive to 2105: High flow, Low dP




**B MODELS 2120 & 2125** pg.7&8

- // Double Flanged
- // Optional bypass
- // Fits between flanges
- // Exclusive to 2125: High flow, Low dP



**C MODELS 2150 & 2155** pg.9

- // Threaded
- // Optional bypass
- // Multiple mounting configurations available
- // Exclusive to 2155: High flow, Low dP




**D MODEL 2400** pg.10

- // Internal to Tank / Vessel
- // Multiple reset options
- // Fire tested to API 6FA



**E MODEL 2600** pg.8

- // Double Flanged [Field serviceable]
- // Adjustable closing flow
- // Fire tested to API 6FA
- // Optional bypass & remote shutdown



The valves listed above represent only Total Valve's most popular valves according to their respective applications. Fire safe designs per API 6FA on most products.

The valves listed below represent only Total Valve's most popular valves according to their respective applications.

**F MODELS 6100, 6200, 6250, 6810**  
pg.12 pg.13 pg.13 pg.14

- // Emergency Shutdown
- // Quick closing
- // Available shutdown methods:  
Pressure Switch  
Thermal  
Manual  
Remote



Model 6200


**G MODEL 6820** pg.15

- // Remote or manual reset
- // Fire safe
- // ASME Non-reclosing Relief Device
- // High capacity, set pressures 2-1480 PSI




**H MODEL 7400** pg.16

- // Slurry and coarse media
- // Multiple metal seating options
- // Triple port purge system
- // Low emission system design



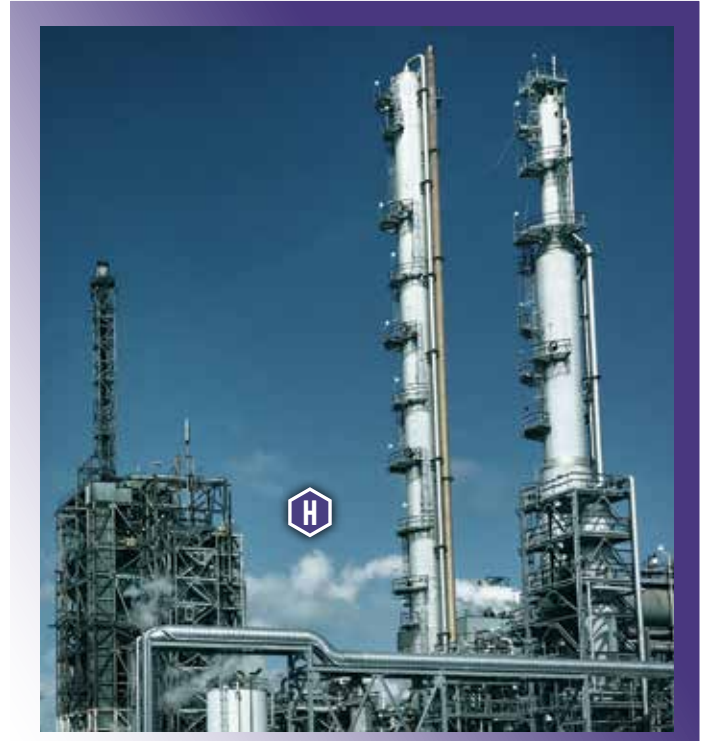
**I MODEL 8000** pg.16

- // Diverter/Isolation Valve
- // Low profile design [actuated or manual]
- // Fire safe design
- // Visual indicator and lockout feature
- // Low emissions design



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## BULK MATERIAL PROCESSING



## FLARE SYSTEMS



# EXCESS FLOW VALVES

**Excess Flow Valves (EFVs)** prevent excessive flow or surges in flow caused by line breaks, power disruptions, or pressure spikes. EFVs internally sense flow and close automatically.

Standard valves have no reset.

## STYLES

Wafer  
Double Flanged  
Threaded/Welded  
Internal to Tank

## BENEFITS

Stop flow surges • Flow shut-off on line ruptures • Reset Options  
Fire safe design to API 6FA • Multiple flange ratings available  
Bi-directional normal flow • Preset factory closing flow rate in one direction  
Vertical or horizontal installation • Proven reliability in harsh conditions

## OPTIONS

Automatic Reset  
Manual Bypass  
Gauges  
Soft Seats

## ALTERNATIVE NAMES

Velocity Check • Emergency Shutdown Device • Seismic Valve  
Shutdown Valve • Surge Preventer • Earthquake Valve  
Line Rupture Valve

## INDUSTRIES

Chemical Processing • Refineries  
Drilling Rigs • Pharmaceutical  
Biotech and Food Plants

## WAFER

- o Designed to easily insert into piping, between ASME/ANSI flanges
- o Valves are durable and provide generous flow paths
- o Closing flow rates are factory preset to customer specifications
- o See table below for dimensions of common sizes

### MODEL 2100

[Shown with automatic reset option]



### MODEL 2105

[Shown with manual bypass option]



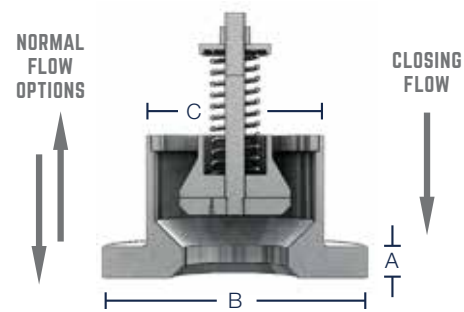
### MODEL 2106

[Standard: no reset]



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**TOC**

• 2100 • 2105 • 2106 •



Basic options include carbon steel bodies & stainless internals with other materials & pressure classes available upon request.

NOMINAL SIZE	A * WIDTH	B DIA.	C INSERT DIA.
0.75"	0.625"	1.69"	0.70"
1	0.625	2.00	0.90
1.5	0.625	2.88	1.50
2	0.625	3.62	1.90
3	0.75	5.00	2.88
4	0.75	6.19	3.75
6	1.00	8.50	5.69
8	1.00	10.62	7.50
10	1.25	12.75	9.63
12	1.30	15.00	11.50
14	1.50	16.25	12.88

These dimensions are for standard designs as reference only. Valves can be custom-engineered as needed.

\* Valves with bypasses may have different dimensions. Please contact customer support.



## DOUBLE FLANGED

- o Designed and manufactured with standard ASME/ANSI flanges
- o Optional Components:
  - Automatic Reset
  - External manual bypass consisting of stainless steel tubing and a needle valve
  - Weld On [standard] or Integral Flanged Body
  - Differential or static pressure gauges
  - Exotic materials available upon request
- o Closing flow rates are factory preset to customer specifications
- o See table below for dimensions of common sizes

### MODEL 2120

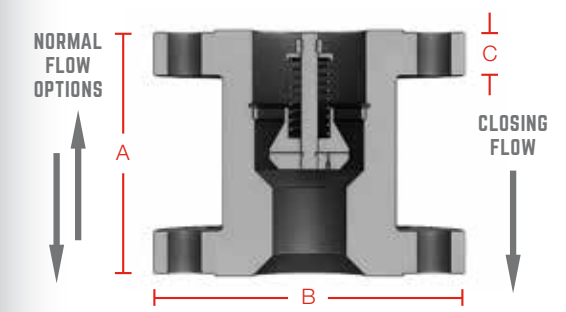
This valve comes standard with 150#, 300#, or 600# ANSI/ASME class flanges. It is Total Valve's most widely used product due to its versatility and reliability.



FLANGE SIZE	150#			300#			600#		
	A	B	C	A	B	C	A	B	C
0.75"	4.50"	3.88"	0.44"	4.50"	4.62"	0.56"	5.00"	4.62"	0.62"
1	4.50	4.25	0.50	4.50	4.88	0.62	5.00	4.88	0.69
1.5	4.75	5.00	0.62	5.00	6.12	0.75	5.50	6.12	0.88
2	5.00	6.00	0.69	5.75	6.50	0.81	6.50	6.50	1.00
3	6.25	7.50	0.88	6.50	8.25	1.06	7.50	8.25	1.25
4	6.30	9.00	0.88	7.44	10.00	1.19	8.25	10.75	1.50
6	8.00	11.00	0.94	9.00	12.50	1.38	10.50	14.00	1.88
8	12.00	13.50	1.06	12.50	15.00	1.56	13.00	16.50	2.19
10	13.50	16.00	1.12	14.25	17.50	1.81	15.00	20.00	2.50
12	18.00	19.00	1.19	19.00	20.50	1.94	20.00	22.00	2.62
14	22.00	21.00	1.31	24.00	23.00	2.06	26.00	23.75	2.75

These dimensions are for standard designs as reference only. Valves can be custom-engineered as needed.

• 2120 •



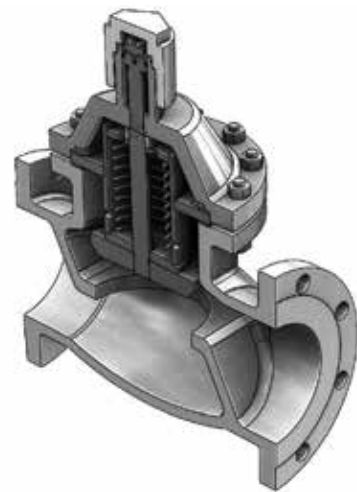
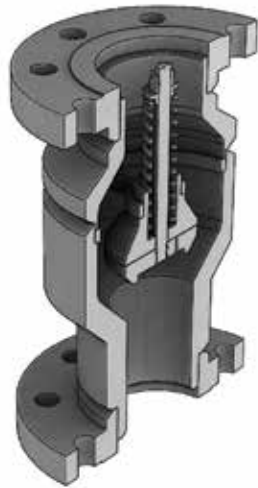
Basic options include carbon steel bodies & stainless internals with other materials & pressure classes available upon request.



**DOUBLE FLANGED cont.**

**MODEL 2125**

This high flow version of the Model 2120 is heavily constructed and can withstand years of service. Comes standard with 150#, 300#, or 600# ANSI/ASME class flanges. Face-to-face dimensions are ASME B16.10 globe valve standard.



**MODEL 2600**

An externally adjustable EFV with a top entry design, which enables ease of adjustment and maintenance. Face-to-face dimensions are ASME B16.10 globe valve standard.

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**THREADED/WELDED**

- o Designed and manufactured with standard National Pipe Threaded (NPT) end connections
- o ASME B16.34 Wall Thickness
- o Closing flow rates are factory preset to customer specifications
- o See table below for dimensions of common sizes



**MODEL 2130**  
Male Inlet x Female Outlet  
Standard Rating: 300#

**MODEL 2140**  
Female Inlet x Male Outlet  
Standard Rating: 300#



**MODEL 2150**  
Female Inlet x Female Outlet  
Standard Rating: 600#

**MODEL 2160**  
Male Inlet x Male Outlet  
Standard Rating: 300#



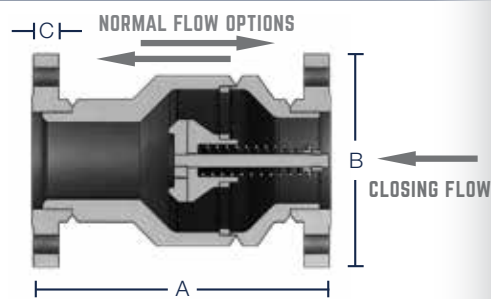
**MODEL 2170**  
Socket Weld  
Standard Rating: 600#

**MODEL 2155**  
Female Inlet x Female Outlet  
High flow, Low dP  
Standard Rating: 600#



**MODEL 2180** [Shown with bypass]  
Female Inlet x Female Outlet  
Selectable flow during field service  
Standard Rating: 600#

• 2125 • 2600 •



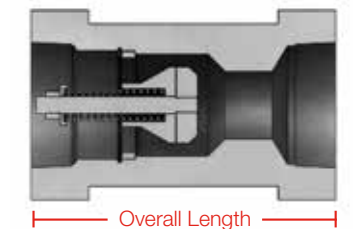
FLANGE SIZE	150#			300#			600#		
	A	B	C	A	B	C	A	B	C
1"	5.00"	4.25"	0.50"	8.00"	4.88"	0.62"	8.50"	4.88"	0.69"
1.5	6.50	5.00	0.62	9.00	6.12	0.75	9.50	6.12	0.88
2	8.00	6.00	0.69	10.50	6.50	0.81	11.50	6.50	1.00
3	9.50	7.50	0.88	12.50	8.25	1.06	14.00	8.25	1.25
4	11.50	9.00	0.88	14.00	10.00	1.19	17.00	10.75	1.50
6	16.00	11.00	0.94	17.50	12.50	1.38	22.00	14.00	1.88
8	19.50	13.50	1.06	22.00	15.00	1.56	26.00	16.50	2.19
10	24.50	16.00	1.12	24.50	17.50	1.81	31.00	20.00	2.50
12	27.50	19.00	1.19	28.00	20.50	1.94	33.00	22.00	2.62
14	31.00	21.00	1.31	33.00	23.00	2.06	35.00	23.75	2.75

Basic options include carbon steel bodies & stainless internals with other materials & pressure classes available upon request.

These dimensions are for standard designs as reference only. Valves can be custom-engineered as needed.

NPS	2130	2140	2150	2160	2170	2155	2180
0.75"	4.00"	4.00"	4.00"	4.00"	4.00"	6.00"	4.00"
1	4.00	4.00	4.00	4.00	4.00	6.00	4.00
1.5	4.50	4.50	4.50	4.50	4.50	6.50	4.50
2	5.63	5.63	5.63	5.63	5.63	7.63	5.63
3	7.25	7.25	7.25	7.25	7.25	9.25	7.25
4	9.00	9.00	9.00	9.00	9.00	11.00	9.00

These dimensions are for standard designs as reference only. Valves can be custom-engineered as needed.



Basic options include carbon steel bodies & stainless internals with other materials & pressure classes available upon request.

## INTERNAL TO TANK: MODEL 2400

- NFPA 58 Compliant
- API 6FA Rating
- Seat internal to tank
- All nozzle mounting options available
  - ASME B16.5 [Standard]
  - Wafer
  - Through Hole
  - Double Flanged
- Low pressure drops, High Cv models



### STANDARD

Heavy duty spring and seat design  
Optional weep hole

### MANUAL [MAN] & ACTUATED RESET [ACT]

#### TOP LEFT

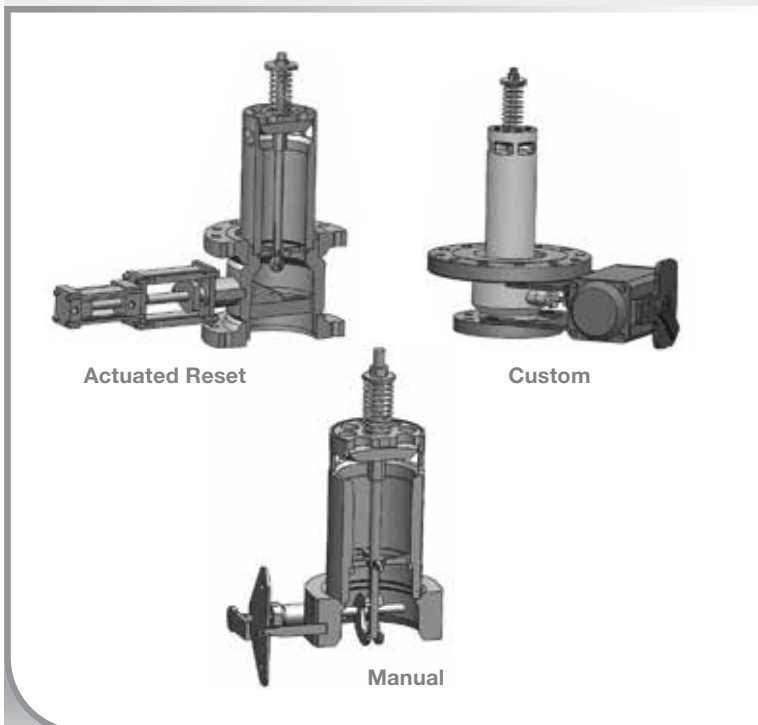
Pneumatic or hydraulic reset

#### TOP RIGHT

Custom inlets and outlets  
Start-up and shutdown options available

#### BOTTOM

Manual external handle with locking device



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**TOC**

## CHECK VALVES

**Check Valves** are designed to provide protection in liquid, gas, or vapor services where flow is required in one direction. All designs are non-slam, have high flow capacity, and are designed per API 6FA standards. Cracking pressure rates are factory preset per customer specifications.

### ALTERNATIVE NAMES

Vacuum Valve • Low Pressure Relief • Vent Valve  
Non-Slam • Back Flow Preventer

### APPLICATIONS

Bulk Storage • Vessel Inlets • One Direction Flow  
Custom Cracking Pressure • Reverse Flow Change

### MODEL 3200

Wafer design  
High flow capacity  
Designed API 6FA standards

For dimensions, see table for Model 2100 on pg.6



### MODEL 3220

Double Flanged  
Soft or metal seat designs

For dimensions, see table for Model 2120 on pg.7



### MODEL 3255

Threaded end connections  
High flow capacity

For dimensions, see table for Model 2155 on pg.9



### MODEL 3400

Internal to Tank  
Soft or metal seat designs

For dimensions, see table for Model 2400 on pg.9



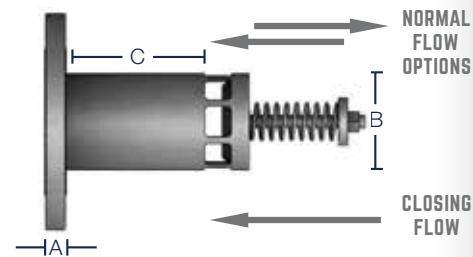
### MODEL 3600

Top entry, field serviceable  
Adjustable cracking pressure  
Turn down shut-off capability

For dimensions, see table for Model 2600 on pg.9



### • 2400 •



SIZE	STANDARD		MAN & ACT	PIPE B	LENGTH C
	150# A	300# A	150# & 300# A		
2"	0.75"	0.88"	2.50"	1.90"	0.25" increments added over the customer nozzle length to desired clearance.
3	0.94	1.13	2.50	2.50	
4	0.94	1.25	3.13	3.50	
6	1.00	1.44	3.13	5.56	
8	1.13	1.63	11.25	7.63	
10	1.19	1.88	13.68	8.63	
12	1.25	2.00	12.50	10.75	
14	1.38	2.13	16.00	12.75	
16	1.44	2.25	18.50	14.00	

Basic options include carbon steel bodies & stainless internals with other materials & pressure classes available upon request.

These dimensions are for standard designs as reference only. Valves can be custom-engineered as needed.

# EMERGENCY SHUTDOWN VALVES

Emergency Shutdown Valves detect and immediately stop the flow of potentially hazardous materials. Shutdown options can be custom built to customer needs.

## OPTIONS

Hydraulic, Pneumatic, or Manually Operated  
Thermal, Remote, Manual, or Local Shutdown  
Loss of Supply Closing

## APPLICATIONS

Pipelines & Storage Facilities  
LPG, Chemical, & Power Plants  
Rail Loading Facilities  
Pumping Stations  
Tank Farms  
Shipyards



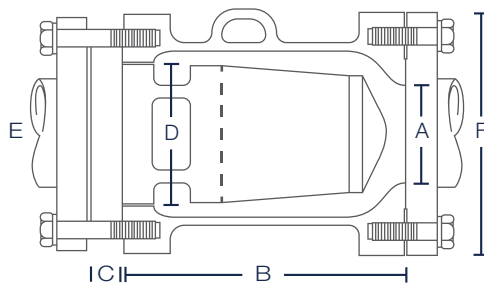
### MODEL 6100

This model can be used in both "in-line" and "in tank" applications. The valve is installed on the mounting flange of a barge or pipeline, preventing unauthorized tampering with valve actuators. It is spring loaded in a power fail-safe closed position and is opened through the introduction of hydraulic or pneumatic pressure. When the pressure is removed, the valve closes, resulting in complete flow shut-off.

#### FIRE SAFETY

The Model 6100 is ideally suited for applications where fire safety is a consideration. With a fusible plug installed on each valve, the element material will melt at the specified temperature, thus releasing the actuating pressure and causing the valve to close automatically.

• 6100 •



Basic options include carbon steel bodies & stainless internals with other materials & pressure classes available upon request.

VALVE SIZE	A	B	C	D	E	F
2"	2.07"	9.00"	1.06"	3.50"	2.00"	6.50"
3	3.07	10.78	1.19	4.41	3.00	8.25
4x3	3.07	10.78	1.31	4.41	3.00	10.00
4	4.03	11.74	1.31	5.78	4.00	10.00
6x4	4.03	11.74	1.50	5.78	4.00	12.50
6	6.07	14.22	1.50	7.91	6.00	12.50
8x6	6.07	14.22	1.69	7.91	6.00	15.00
8	7.98	16.41	1.69	9.56	8.00	15.00

These dimensions are for standard designs as reference only. Valves can be custom-engineered as needed.

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### MODEL 6200

This model is an automated, reverse flow check valve designed to immediately halt the flow of fluid during an emergency. Standard sizes are 4" and up.

#### STANDARD FEATURES

- Rapid closing, reverse flow
- Local and remote monitoring and reset options
- Low emission design

#### CLOSING/TRIPPING OPTIONS

- Thermal
- Loss of instrument air
- Local and remote
- Manual

### MODEL 6250

This model is a manual, spring-loaded, reverse flow check valve designed to immediately halt the flow of fluid during an emergency. Standard sizes are 4" and up.

#### STANDARD FEATURES

- Rapid closing, reverse flow
- Remote monitoring options
- Low emission design
- Fusible thermal device for tripping valve



Manifold Assembly



Ball Valve with Actuator

### MODEL 6810

This model features an API 607 ball valve, actuator, and module. The valve's module controls pneumatic/hydraulic operated valves. This model coupled with the model 2400 meets the specifications of NFPA 58.

#### STANDARD FEATURES

- Pneumatic or hydraulic actuator
- NFPA 58 manifold assembly

#### OPTIONAL ACCESSORIES

- Gauges
- Valve position sensors
- Manual override
- NAMUR and ISO interfaces
- Fire proof blanket

# RELIEF VALVES: MODEL 6820 TRV

6820 TRV is Total Valve's proprietary system to open or close a valve at desired set pressure. This patented system includes the TRV module, an actuator, and an isolation valve. The typical isolation valves are triple offset butterfly valves due to performance and durability.

This system allows the user to operate within 1-3% of the valve's desired set pressure. The relief capacity is much greater than typical relief systems on the market, allowing for lower overall system costs. No external power is required for the device; it is independent of system back pressure. When coupled with a ball valve, it offers a pigging capability and provides overpressure or shutdown protection.

## ADVANTAGES

- Class 5/Class 6 shut-off performance
- Instant reset with manual or remote options
- Partial stroke option to meet plant reliability requirements
- No pins required - proven performance with factory testing
- ASME & API certified • Cert. No.: TVO-M00606

## APPLICATIONS

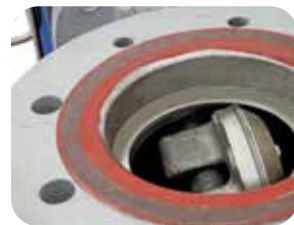
- Municipal Service • Midstream/Pipeline
- Pulp & Paper Mills • Special Application
- Gas Processing • Oil & Gas / Refining
- Chemical Processing • Nuclear Power

## KEY COMPONENTS



### TRV Module

Our patented technology allows for complete control of valve set pressures (+/- 2%). Set pressures can be adjusted. Key options for dual sensing lines and fluid media filters provide industry leading system reliability. Suitable for severe service where dirt, hydrates and high moisture levels occur in the fluid media.



### Triple-Offset Valve

Triple-offset valves deliver proven performance across the spectrum of temperature, pressure and sealing classes. They operate from -450°F to 1500°F in accordance with valve specifications. Non-rubbing seat design offers bubble tight sealing performance. Options include all standard pressure classes.



### Actuation System with Key System Options

Proven pneumatic and hydraulic actuation systems are integrated to the valve and TRV module. The modular design allows the use of special valve features including accumulator tanks, thermal protection plugs and other devices according to customer specifications.



### Set Pressure Capability, Certification and Tolerance

All 6820 TRV's are calibrated before shipment to meet the user's required set or differential pressure and tolerance with a set point reliability of +/- 2%.

### Operating Pressure Ratio

TRV's technology provides outstanding resistance to operating pressure conditions. System performance is not impacted by system backpressures.

### Pressure Cycling Service

This system has superior performance to pin type valves and rupture discs due to the TRV module's advanced design. The system does not rely on a prediction of a material failure as in pin valves and rupture discs.

### Installation

The TRV 6820 is designed for "in line" installation between pipe flanges. Each device is a "full face" design with pipe flange bolting for lug, wafer and short pattern body configurations.

### Field Testing and Resetting

The unit's field test connection port affords in-the-field testing. New settings can be reset in the field if a desired set pressure change is required. The feature allows smoother start-ups and quicker resets (in less than 3 seconds) when the device opens, versus the processes required for pin type valves or rupture discs.

### Valve Activation

The 6820 TRV has two basic configurations the 6820 TRV-DP model for positive differential pressure applications. The 6820 TRV-SP is the model for single positive sensing line pressure applications.

### Other Options Include

Accumulator / Remote Closure System / Weatherproof Enclosure

## SIZES FROM 6" TO 48" ARE AVAILABLE WITH THE 6820 TRV SYSTEM

- Flange Ratings : 150, 300, 600
- Set Pressures : 3 psi to 1500 psi
- Temperatures : -450°F to 1500°F
- Accuracy : +/- 2% of set pressure

Largest low pressure relief device in production today.

Patent Number 9,169,939



36"



6"



## ISOLATION VALVES

Isolation Valves are designed to stop or re-direct flow, allowing for maintenance or process operations.

### OPTIONS

Bleed Valves • Bypass  
Lock Out • Steam Purge  
Visual Indicator

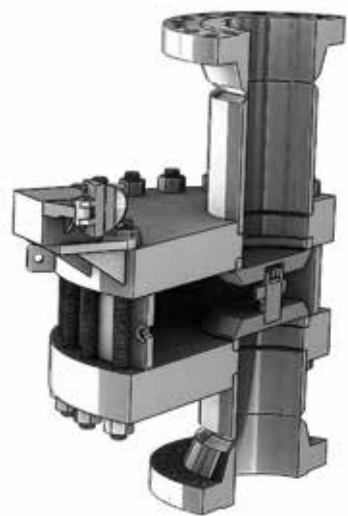
### APPLICATIONS

Gas  
Steam  
Liquid  
Coarse Materials

## TWIN DISC

### MODEL 7400

This model is used with slurry, coarse media, or viscous fluids. The valve has an excellent shut-off performance due to a self-lapping twin disc design.



### FEATURES

- **Slurry Valve:**  
For abrasives, corrosives, coking, cement, viscous thermal fluids, etc.
- **Metal Seating:**  
Shearing action of disc to seat cuts through slurries  
Self-lapping due to rotation of disc to seat
- **Triple Port Purge System:**  
Flushes body cavity during opening and closing
- **Low Emission System Design:**  
Rotating stem coupled with live loaded packing  
Ejection port to assure low emissions and stem lubricity

### SPECIFICATIONS

- 6" to 20"
- ASME B16.34 | 150, 300, 600#
- Temperatures to 1200°F
- ASME B16.5 | End Connections
- Hydraulic Actuation & Lifting Lugs
- Fire safe design to API 6FA

### OPTIONS

- Fail-safe actuation system available
- Steam traced body and internals
- PTFE internal coating
- Live Position Feedback
- Other items available upon request



### MODEL 8000

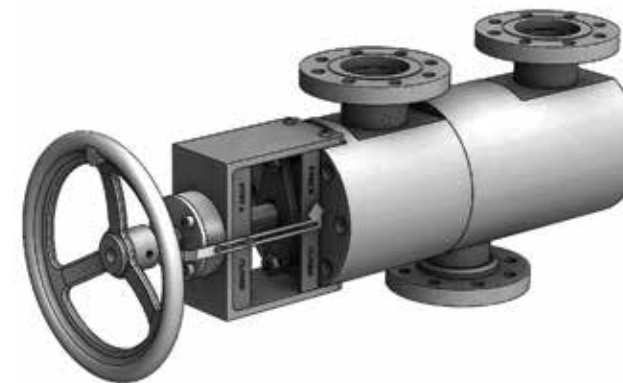
This diverter valve grants continued production while the relief device is being serviced. The valve is designed to incorporate two relief devices to protect in an overpressure emergency. Only one relief device is in service at a time while the other serves as a back-up. If a problem occurs, such as a leak, simply switch to the alternate safety device and remove the faulty valve. This ensures that one relief device is in service at all times. It is field serviceable with a modular body, allowing for replacement of isolation valve seals without removal of safety relief valves from body.

### STANDARD FEATURES

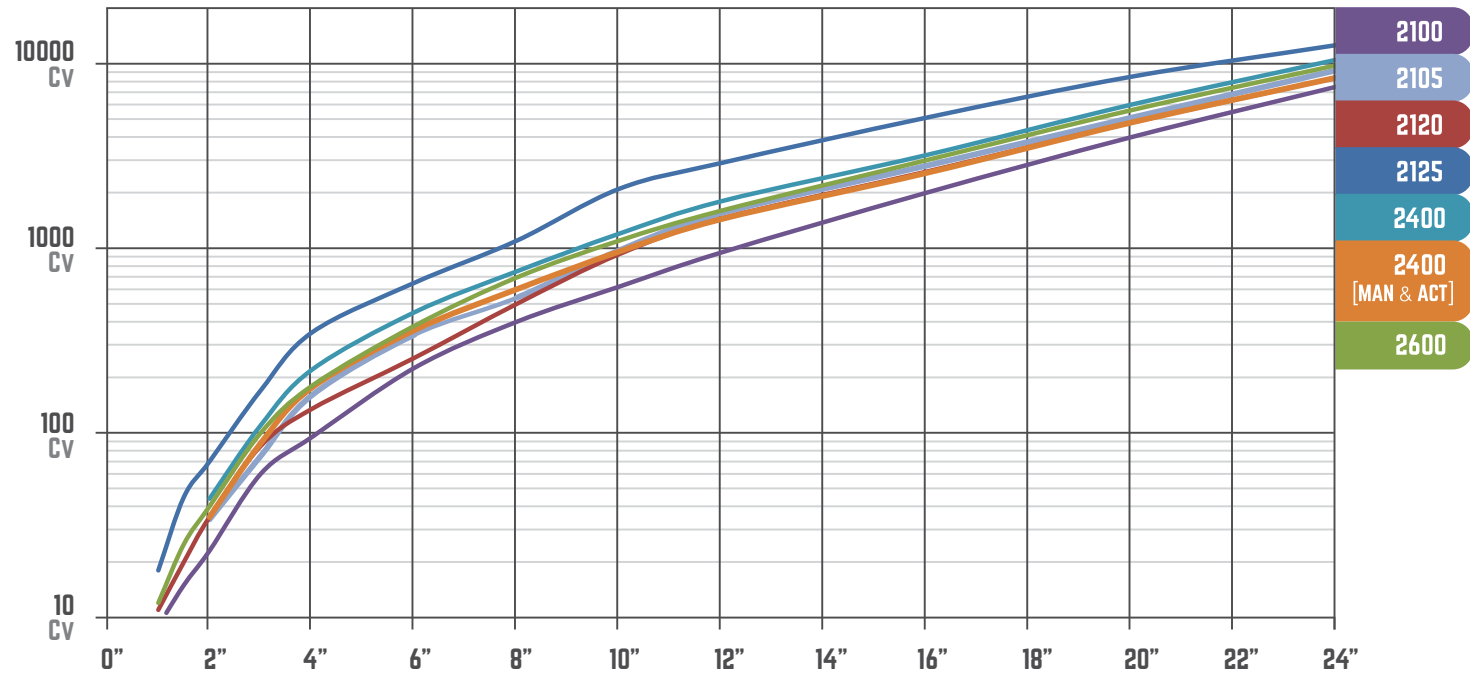
- Automatic pressure balance at start of position change
- Pressure bleed valve at each position also serves for in-line testing
- Safety handle locks in either position with external indicator
- Low profile design for easy installation in tight areas
- Low pressure drop conforms to API RP 520 Part 2 and ASME Section VIII, Division 1, Appendix M

### SPECIFICATIONS

- Size options: ½", ¾", 1", 1½", 2", 3" & 4"
- Flanged or threaded connections available
- Temperature: -250°F to 700°F
- MAWP: Up to 6000 psig. on threaded connections
- Seal Options: Buna-N, EPDM, Neoprene, FKM, Silicon, PTFE, FFKM
- Low E Design available for low emission requirements
- Trim: Stainless Steel [standard material] - other material options available
- Body: Carbon Steel [standard material] - other material options available



# • CV CHART •



## VALVE WARRANTIES

### STANDARD PRODUCTS AND SERVICES

L6, Inc. d/b/a Total Valve Systems, hereinafter called "Total Valve" warrants as follows: (a) That each new Total Valve product and service is free from defects in material and workmanship if installed and used in accordance with ASME and other accredited agency certifications. Any valve repair/service not performed under ASME or accredited symbol has no implied or express warranty. (b) That each new Total Valve product and service is fit for the purpose for which similar type product and services are ordinarily intended. Purchaser shall be solely responsible for determining suitability for use and in no event shall Total Valve be liable in this respect.

### DURATION

The warranty period shall begin on the date of shipment to the first purchaser and extend for twelve (12) months.

### EXCLUSIVE REMEDY

Total Valve will repair or replace at its sole discretion, any product and service it finds to be defective under this warranty, upon return of the product and service, prepaid, to Total Valve at 1300 East Memphis, Broken Arrow, Oklahoma 74012 or any warehouse designated by Total Valve. Such repairs or replacements are clients exclusive remedy and Total Valve SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY OR ANY OTHER THEORY OR RECOVERY.

### DISCLAIMER

Total Valve excludes from this warranty failures due to corrosion, erosion, abrasion, cavitations, or other application related failures. Further, it is the end user's responsibility to account for environmental influences such as traffic, wind, earthquake or other external loadings, decomposition of unstable fluids, simultaneous loadings or loadings due to fluid weight. There are no warranties that extend beyond the terms hereof and no one is authorized to assume for TOTAL VALVE any other liability in connection with the sale of TOTAL product and services. This warranty supersedes all previous warranties.

### CUSTOM VALVE WARRANTY (manufactured valves to customer specifications)

Total Valve personnel shall perform the services in accordance with the care, skill and diligence of applicable industry standards currently recognized as of the date of the execution of this agreement. Total Valve disclaims all other warranties, presentations and statements, express or implied, statutory or otherwise. No oral or written information or advice given by Total Valve or its agents, Representatives or employees, shall create a warranty or in any way increase the scope of these warranties and the client may not rely on any such information or advice unless it is set forth in writing signed by an authorized officer of Total Valve.

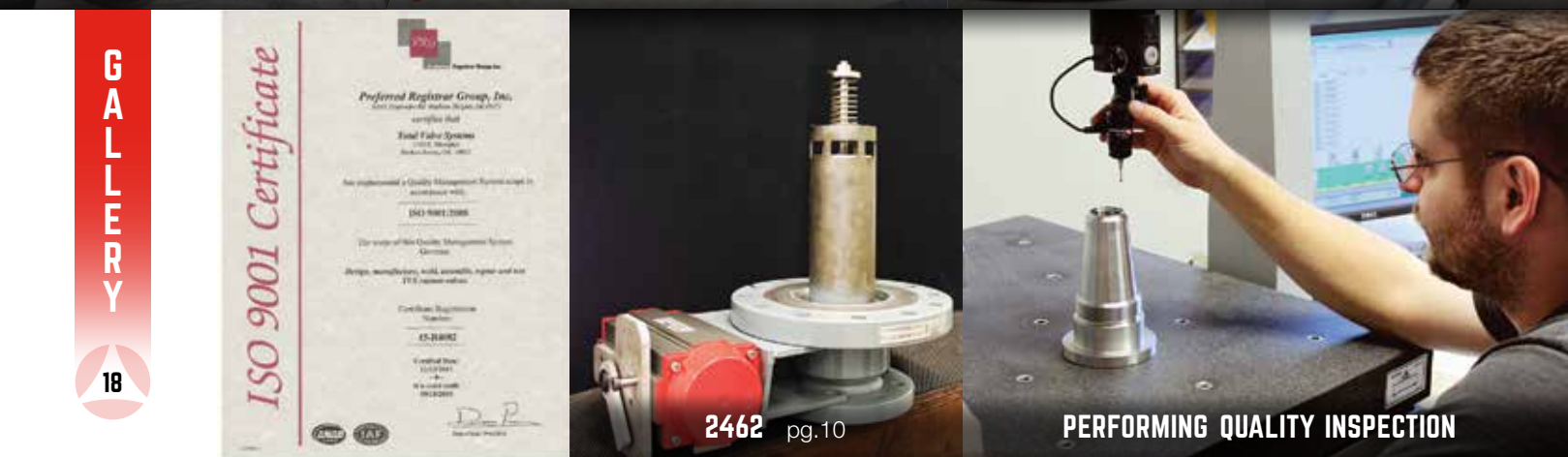
### DESIGN

We reserve the right to make design changes without notice.

**NOTE:** Typical lead time on a project is 8-16 weeks. Please contact us to verify lead time.

**CAUTION:** Users should consult TotalValve.com to see complete specifications for the product selected from this catalog.

**WARNING:** Improper selection or use of products and related items in this catalog can cause death, serious injury, or property damage. As industry requirements change, Total Valve reserves the right to modify the contents of this catalog and program parameters without notification. Updates on this program can be obtained online at TotalValve.com or by calling 1-800-324-7035, or by contacting your local Total Valve representative or distributor.



# TOTAL VALVE IS

## QUALIFIED

QC Dimensional Inspections  
PMI Technology Utilized for Raw & WIP Materials  
ASME Certifications for Valve Manufacturing & Assembly  
Critical Dimensions Measured with Key Equipment & Gauges  
Established ISO QC Systems & Processes  
CE & CRN Registrations, UL as Required

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Latest Modeling with Flow (CFD) & Stress (FEA) Analysis  
Solid Modeling & System Modeling for Projects  
Vibration & Acoustic Modeling  
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## MANUFACTURED & SHIPPED

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72" Turning Capability for Larger Valves  
Spring Manufacturing & Testing  
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Container Shipments Status Reporting  
International Offices Support  
Order to On Site Delivery

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