



When protecting life and property,
depend on Cla-Val.

GLOBAL HEADQUARTERS
P.O. Box 1325
Newport Beach, CA 92659-0325
Phone: (949) 722-4800
1-800-942-6326
Fax: (949) 548-5441
E-mail: claval@cla-val.com



CLA-VAL CANADA
4687 Christie Drive
Beamsville, Ontario
Canada L0R 1B4
Phone: (905) 563-4963
Fax: (905) 563-4040
E-mail: sales@cla-val.ca



CLA-VAL EUROPE
Chemin des Mesanges 1
CH-1032 Romanel/Lausanne
Switzerland
Phone: 41-21-643-15-55
Fax: 41-21-643-15-50
E-mail: cla-val@cla-val.ch



CLA-VAL UK
Dainton House
Goods Station Road
GB - Tunbridge Wells
Kent TN1 2 DH
England
Phone: 44-1892-514-400
Fax: 44-1892-543-423
E-mail: info@cla-val.co.uk



CLA-VAL FRANCE
Porte du Grand Lyon 1
ZI de Champ du Périer
France - 01700 Neyon
Phone: 33-4-72-25-92-93
Fax: 33-4-72-25-04-17
E-mail: cla-val@cla-val.fr



WESTERN REGION
11626 Sterling Avenue, Suite F
Riverside, CA 92503
Phone: (951) 687-9145
1-800-247-9090
Fax: (951) 687-9954
E-mail: lvanderk@cla-val.com

SOUTHERN REGION
11500 NW Freeway Suite #200Q
Houston, TX 77092
Phone: (713) 681-9559
1-800-336-7171
Fax: (713) 681-9779
E-mail: blindsey@cla-val.com

NORTHERN REGION
P.O. Box 863
Elgin, IL 60121
280 Willard Avenue
Elgin, IL 60120
Phone: (847) 697-1413
1-800-238-7070
Fax: (847) 697-5549
E-mail: djurs@cla-val.com

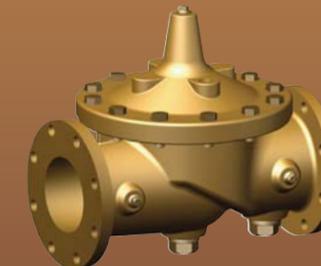
EASTERN REGION
6911 Richmond Highway,
Suite 444
Alexandria, VA 22306
Phone: (703) 721-1923
1-800-451-3030
Fax: (703) 721-1927
E-mail: bmoore@cla-val.com

CLA-VAL PACIFIC REGION
c/o Online Distribution
308 Port Hills Road, Unit 3
Woolston, Christchurch, 8022
New Zealand
Phone: (64) 39644860
Fax: (64) 39644876
E-mail: gnuthall@cla-val.com



Fire Protection Solutions
*Automatic Control Valves
for protecting life and property*

**Deluge
Pressure Relief
Pressure Reducing
Anti-Cavitation
Pump Start Control and Relief
Solenoid Control
Air Release Valves
Check Valves**



for commercial, industrial and
offshore applications

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Experience & Capabilities

For more than 50 years, Cla-Val has supplied top quality automatic control valves for fire applications in facilities throughout the world. Typical applications include pressure regulation, pressure relief, rate of flow control, pump suction control, liquid level control and foam or water deluge.

Cla-Val control valves provide years of trouble-free operation and require minimal maintenance, backed by the assurance that comes from using the industry's most trusted fire protection valves.



Industrial



Offshore Oil Platforms



FPSOs



Commercial

Certifications, Approvals and Quality Assurance

Cla-Val is committed to providing the world's most reliable automatic control valves for fire protection systems. We work over-time to ensure that we meet and exceed the rigid standards of Underwriters Laboratory and FM Global in the US and Canada, as well as other applicable certifications and approvals for our continuously evolving product line. We also hold ISO 9001 certifications for our production facilities in Europe and ISO 9002 for our manufacturing facility in Canada.

Our in-house laboratory verifies the integrity and quality of each casting that we produce and, once manufacturing begins, experienced Quality Assurance professionals are there during each step of the process. Before they are shipped, each valve is factory tested to ensure that our customers receive the quality and performance they have come to expect from Cla-Val.



LISTED



APPROVED

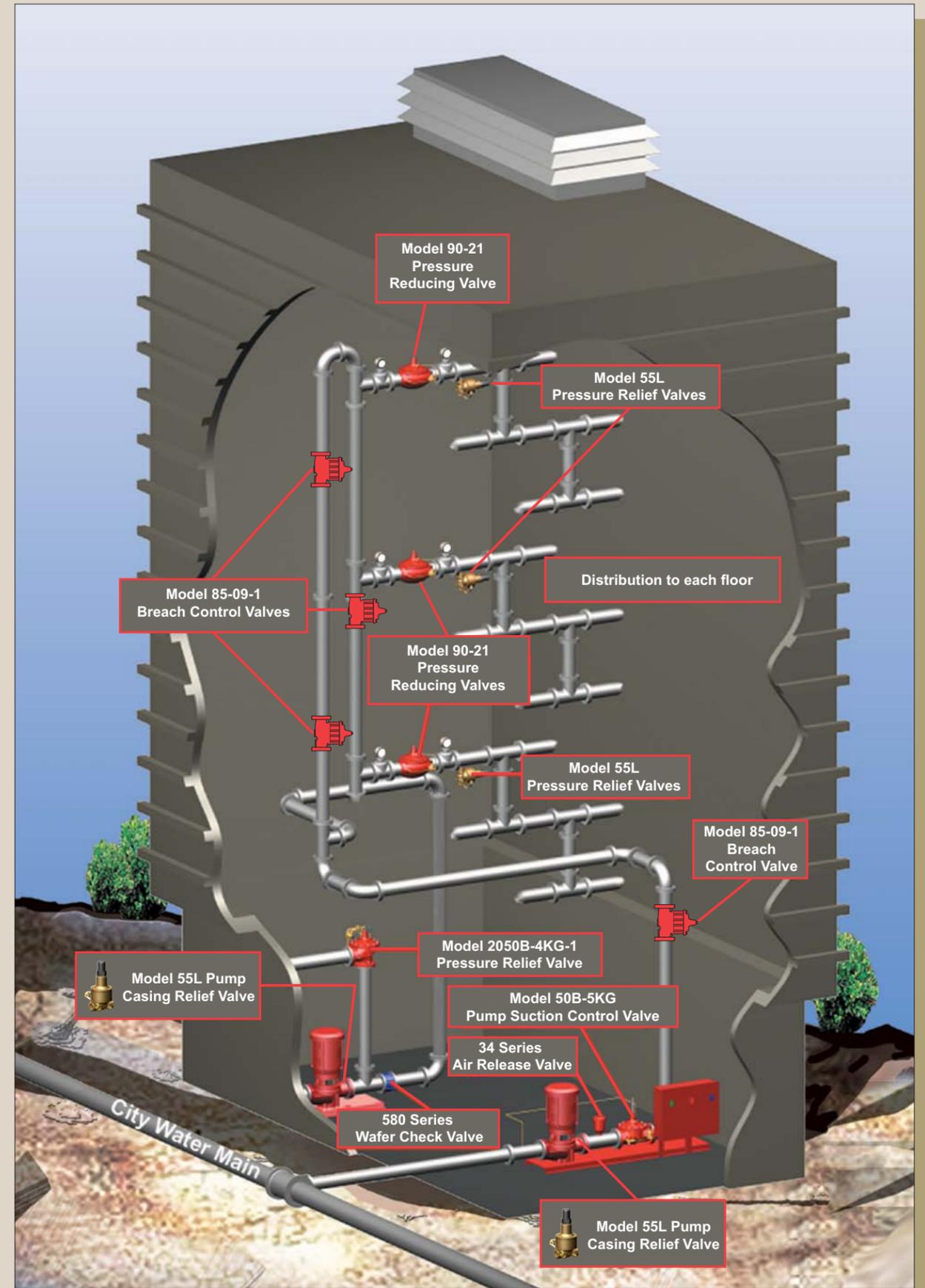
ME A
APPROVED

Canadian Standards Association (CSA)
NYC Material & Equipment Acceptance Division (MEA)
Underwriter's Laboratories (UL)
Underwriter's Laboratories Canada (ULC)
FM Global Technologies LLC (FM)
Technical Standards & Safety Authority
Public Utilities Board Singapore
Department of the Navy
Soundcast Company: TUV Approval

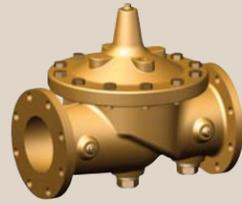


**When protecting life and property, you can count on
Cla-Val Fire Protection Products.**

Typical Commercial Applications: High Rise Fire and Breach Protection



For Industrial and Offshore Applications



Model 100GS/2100GS

Seawater Service Deluge Valve

- UL Listed - Sizes 3" - 10"
- Globe and angle patterns
- Aluminum Nickel Bronze
- Controls water flow to deluge, pre-action or foam-water type sprinkler systems
- Ideal for seawater service
- UL/ULC Listed Models 100G/2100G also available for freshwater service



Model 50-20

Seawater Service Pressure Relief Valve

- Sizes 1-1/4" - 24"
- Automatically relieves excess pressure in pumping systems
- Fast opening to maintain steady line pressure
- Closes gradually to prevent surge
- Adjustable pressure settings, unaffected by pressure at valve discharge



Model 50-49

Seawater Service Pump Start Pressure Relief Valve

- Sizes 1-1/4" - 24"
- Provides pump and pipeline protection during pump start sequence
- Protects pump when discharge rises to unsafe levels
- Adjustable pressure sensitive opening



Model 33A

High Performance Combination Air Release/Vacuum Breaker Valve

- Sizes 1" - 6"
- Installed at vertical turbine pump discharge and pipeline high points for air release
- Protects pipeline from air lock and vacuum collapse during filling or draining
- Available with AC throttling air control device
- Available threaded and flanged



Model 403-11

Pneumatically Operated Deluge Valve

- UL Listed - Sizes 3" - 10"
- Globe and angle patterns
- Ideal for applications where remote on-off control is required
- Suitable for freshwater or seawater service



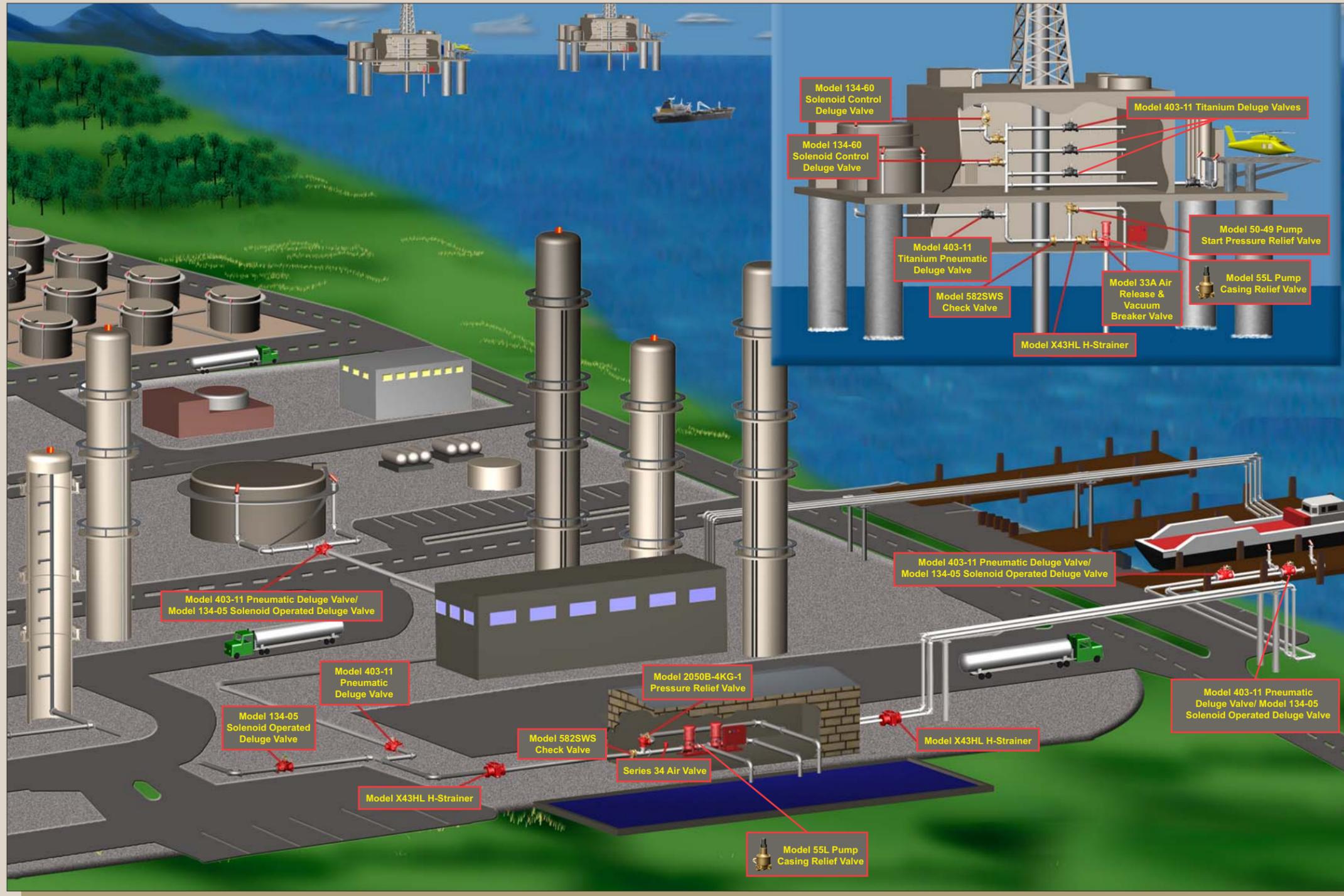
Model 134-60

Solenoid Control Valve for Seawater Deluge Service

- UL Listed - Sizes 3" - 10"
- Opens or closes upon receipt of an electrical signal
- Ideal for applications where remote on-off control is required
- Suitable for seawater service



Model 100GS Ti Titanium Deluge Valve



Model 90-42

Seawater Service Pressure Reducing Valve

- Sizes 1-1/4" - 24"
- Automatically reduces higher inlet pressure to a steady, lower outlet pressure



Model X43-HL

H Style Strainer with Rapid Purge

- UL Listed - Sizes 2" - 8"
- Low pressure drop
- Ductile iron fusion bonded epoxy coated body with 316 SS strainer or Nickel Aluminum Bronze with Titanium strainer
- Large flow area H-style design
- Service without removal from line



Series 582SWS 2-Door Check Valve- Aluminum Bronze or Super Duplex Stainless Steel

For Commercial Applications



Model 134-05

Solenoid Control Valve for Deluge Service

- UL/ULC Listed - Sizes 3" - 10"
- Opens or closes upon receipt of an electrical signal
- Ideal for applications requiring remote on-off control
- AC/DC voltage



Model 90-21

Pressure Reducing Valve

- UL/ULC 150# Flanged - Sizes 1-1/2" - 10"
- UL/ULC 300# Flanged - Sizes 1-1/2" - 10"
- UL/ULC 300# Threaded - Sizes 1-1/2" - 3"
- UL 300# Grooved End - Sizes 1-1/2" - 8"
- Some listings may vary depending on valve size
- Automatically reduces higher inlet pressure to a steady, lower outlet pressure



Model 2050B-4KG-1

Pressure Relief Valve

- UL Listed - Sizes 3" - 8"
- ULC Listed - Sizes 2" - 10"
- FM Approved - Sizes 3" - 8"
- Automatically relieves pressure in pumping systems
- Maintains constant system pressure at pump discharge
- Allows fire pumps to be stopped without causing pipeline surge



Model 50B-5KG

Pump Suction Control Valve

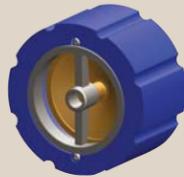
- FM Approved - Sizes 3" - 8"
- Ensures that fire pump suction does not exceed available water supply
- Regulates flow with minimal pressure variations thus protects pipeline from damage and backflow



Series 34

Air Release Valve

- FM Approved - Sizes 1/2", 3/4" and 1"
- Protects pipelines from entrained air at high points in the line and during filling
- Drip-tight even at low pressures
- Working pressures up to 800 psi
- Stainless steel trim and float are suitable for seawater service



Series 580

Silent Wafer Check Valve

- FM Approved - Sizes 2" - 10"
- Typically installed adjacent to fire pump to prevent reversal during pump stops and starts
- Provides silent, non-slam closure



Model 55L

Pressure Relief Valve

- UL Listed and FM Approved - Sizes 1/2" and 3/4"
- Relieves excess pressure to atmosphere to prevent pipeline damage
- Sensitive to small pressure variations
- Suitable for freshwater and seawater service



Series 582

Two-Door Wafer Check Valve

- FM Approved - Sizes 2" - 12"
- Prevents flow reversal
- Reduces water hammer
- Provides non-slam closure

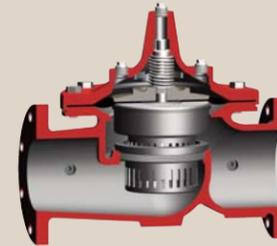


Model 85-09-1

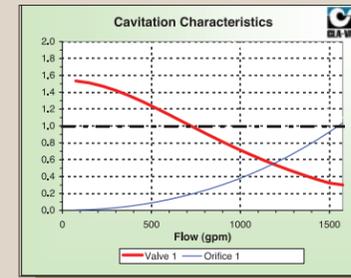
Breach Control Valve

- Sizes 2-1/2" through 8"
- Senses abnormal flow conditions caused by a line break and automatically closes to isolate damaged portions of the system
- Prevents fire supply system from completely draining after a line breach so there is adequate water to fight fires

Advanced Enhancements for Cla-Val Fire Protection Valves



Any Cla-Val automatic control valve can be equipped with KO Anti-Cavitation trim to virtually eliminate cavitation damage.



Product Advantages

- Significantly reduces noise and vibration
- Eliminates valve body and internal trim cavitation
- Provides drip-tight, positive sealing
- KO trim can be installed in existing valves without removal of the valve from pipeline



patented KO Anti-Cavitation Trim

In-house Foundry Capabilities



Cla-Val automatic control valves can be provided in a wide variety of metals to meet any application challenge.

By having our own on-site sand casting and investment foundries, we are able to provide fire protection valves in over 50 different metals and special alloys, making Cla-Val's product offering one of the most extensive in the valve industry. Combined with our state-of-the-industry manufacturing capabilities, we can exercise maximum control over the quality of the valves we produce -- from start to finish.

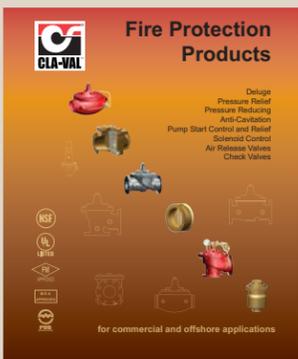
Contact factory for a complete list of available metals and special alloys

Sample of Available Materials

• ASTM B367, Grade C2 Titanium	• Monel QQ-N-288 Comp B
• ASTM A536-65 60-40-18 Ductile Iron	• ASTM A216 WCB Cast Steel
• ASTM B148 Alloy C95800 NI. Alum. Bronze	• ASTM B61 Naval Bronze
• UNS S31254 Super Austenetic Stainless Steel	• UNS S32760 Duplex Stainless Steel
• UNS J93404 Super Duplex Stainless Steel	• ASTM A-743 GR CF 8M 316 SS

Cutting Edge Manufacturing Technology

The production process at Cla-Val's factories is a unique combination of the latest in machining technologies and more than seven decades of manufacturing know-how. Never content to rest on our laurels, Cla-Val continually reinvests in machines, processes and our people to ensure that each valve we produce is of the highest quality possible.



For more detailed product information, check out our complete Fire Products catalog or download specifications, visit www.cla-val.com