



Valve Solutions for Commercial Applications: HVAC • Fire Protection Potable Water Supply



exceptional quality, reliability and performance

Precise Control for Commercial & High Rise Applications

Commercial Service

Supplying water in commercial applications and high rise buildings has changed dramatically over the past few decades as architects and contractors design and build ever taller residential and commercial structures.

In 1965, the tallest building in the world was the Empire State Building in New York City, standing at 381 meters tall. Today, the tallest building is the Burj Khalifa in Dubai United Arab Emirates at 828 meters. Even this megatall structure is about to be eclipsed by the Kingdom Tower in Jeddah, Saudi Arabia. This mammoth building will reach 1,000 meters tall when completed in 2019.

Buildings that tall face many challenges with regard to supplying domestic water for drinking, bathing and sanitation, as well as water needed for cooling and fire fighting. Fortunately, Cla-Val has the complete range of products needed to meet the needs of today's megatall structures.



Typical Applications

Cla-Val Automatic Control Valves are available in the sizes and materials necessary to achieve optimum performance in fluid control applications, including but not limited to the following:

Pressure Control - Hydraulic or Electronic

- Pressure Reducing
- Pressure Relief
- Pressure Sustaining
- Booster Pump Stations

Surge Control

Flow Control

Pump Control

Solenoid Control

Level Control

HVAC Chill Water Fluid Control

Fire Suppression System Deluge

Fire Pump Casing Relief

Fire System Piping Breach Control

Check Valves and Air Release Valves

Extensive Material Options

One of Cla-Val's greatest strengths is the ability to produce valves in **more than 50 different metals** poured in two on-site foundries located at our 80 square meter facility in Southern California. The foundry facilities also include a pattern shop where customized patterns are built to meet unique customer requirements and a full metallurgical laboratory that tests samples of metals poured before, during and after the casting process.

Metal Alloys

A representative sample of available materials include:

- Ductile Iron
- Cast Steel
- Stainless Steel
- Monel
- Nickel Aluminum Bronze
- Titanium
- Super Duplex Stainless Steel
- Super Austenitic Stainless Steel



Elastomers

The wide range of materials is further extended to the choice of elastomers we can provide to ensure that the valves can withstand the service for which they are intended. Common choices include BUNA N, Viton®, EPDM, Silicone, Neoprene, among others.

Engineering Expertise

Cla-Val has been in the control valve business for nearly 80 years. The Engineering expertise we developed along the way has enabled us to design hundreds of thousands of valve configurations for both standard and complex applications.

Our fully staffed, in-house Engineering team, combined with extensive industry knowledge enables us to develop solutions for just about any fluid control application you can think of.

Manufacturing Know-How

Since the first Cla-Val Automatic Control Valve was produced in 1936, we have manufactured the best quality control valves available, utilizing the latest in manufacturing technology.

Each valve is tested and inspected before leaving the factory in accordance with the Cla-Val Quality Control Program and ISO 9001: 2008 requirements.

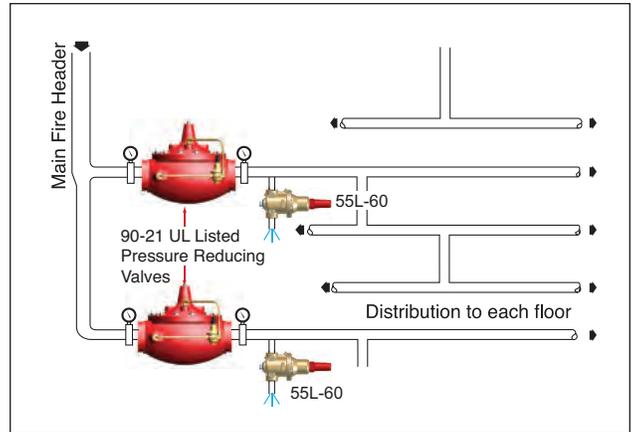
Control Valves for High Rise Fire Protection Systems

Model 90-21



Pressure Reducing

- Automatically reduce a higher inlet pressure to a steady lower outlet pressure
- Pilot control system automatically opens or closes to maintain the desired pressure setting



Model 50B-4KG1/2050-4KG1



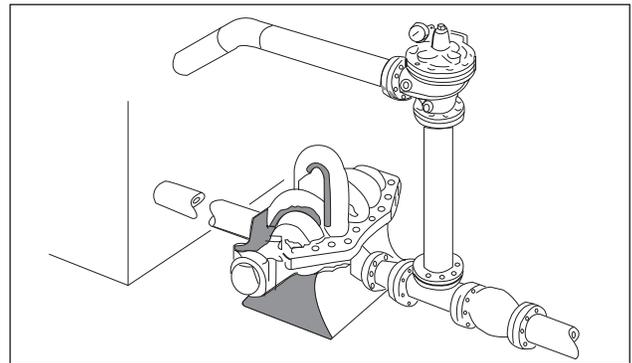
2050B-4KG1KOL

Fire System Pressure Relief

- At pump start, the valve modulates to relieve excess pump capacity and maintain positive system pressure at the pump discharge
- When fire demand slows or ceases, the valve opens, diverting entire pump output to discharge, allowing fire pump to be stopped without causing surges in the pipeline



In applications with high pressure differentials or where a high probability for cavitation exists, use the valve equipped with KOL anti-cavitation trim.

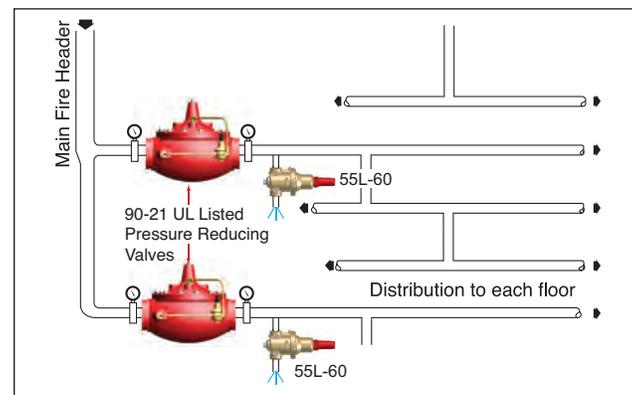


Model 55L-60



Fire Pump Casing Relief

- Used in a fire protection system to trim water pressure, preventing pressure build-up when line pressure exceeds the setting of the spring
- Relieves excess pressure to atmosphere preventing damage to the distribution network

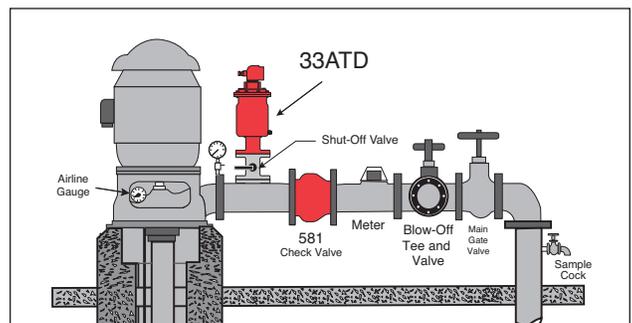


Model 33ATD



33ATD Air Release & Vacuum Breaker Valve with Air Throttling Device

- Automatically eliminates air pockets
- Easily serviced without removal from pipeline
- Corrosion resistant internal parts
- Threaded and flanged inlet options available
- Sizes 2", 3" and 4" UL Listed



Valves for High Rise Fire Protection Systems

Cla-Val Pacific offers a complete range of check valves and strainers for commercial applications including potable water, fire protection and HVAC systems. The durable valves provide precise and reliable service in a wide variety of fluid applications. They complement our other product lines to create a comprehensive suite of control options in high-rise commercial and residential structures.

Model GF50



Resilient Seated, Flanged End Check Valve

- Sizes: DN50 - DN300
- Working Pressure: 14 / 17 / 21
- Meets AWWA C508 Standards

Materials:

- Body: Ductile Iron



Model GG50



Resilient Seated, Grooved End Check Valve

- Sizes: DN50 - DN200
- Working Pressure: 14 / 17 / 21
- Meets AWWA C508 Standards
- UL/FM Pending

Materials:

- Body: Ductile Iron

Model GF70



Y-Strainer Double Flanged Ends

- Sizes: DN50 - DN300
- Working Pressure: 14 / 17 / 21

Materials:

- Body: Ductile Iron



Model GC50



Y-Strainer Flange- Grooved Ends

- Sizes: DN50 - DN300
- Working Pressure: 14 / 17 / 21

Materials:

- Body: Ductile Iron



Model GG70



Y-Strainer Grooved Ends

- Sizes: DN50 - DN300
- Working Pressure: 14 / 17 / 21

Materials:

- Body: Ductile Iron



Model GG25



Resilient Seated, Grooved End Butterfly Valve

- Sizes: DN50 - DN300
- Working Pressure: 14 / 17 / 21
- UL/FM Pending

Materials:

- Body: Ductile Iron

Model GW25



Resilient Seated, Grooved End Butterfly Valve

- Sizes: DN50 - DN300
- Working Pressure: 14 / 17 / 21
- UL/FM Pending

Materials:

- Body: Ductile Iron

Model GF31



Resilient Seated, Flanged Ends OS&Y Gate Valve

- Sizes: DN50 - DN300
- Working Pressure: 14 / 17 / 21
- Meets AWWA C515/BS5163

Materials:

- Body: Ductile Iron



Control Valves for Domestic Water Applications

Master Pressure Reducing Valve Set

- Valve set contains Pressure Reducing Valves, Excess Pressure Safety Valves, Pressure Gauges, Strainers and Isolation Ball Valves
- Cla-Val Products featured:
 - Model 90G-01
 - Model 50G-33

Cla-Val 90G-01 Pressure Reducing Valve This valve is a highly accurate regulator capable of holding downstream pressure to a predetermined setting, regardless of upstream pressure fluctuations.



Cla-Val 50-33 Excess Pressure Safety Shut-Off Valve

This valve automatically protects the downstream distribution piping and fixtures from experiencing excess unsafe pressures in the event that outlet pressure of the high flow PRV rises above an acceptable level.



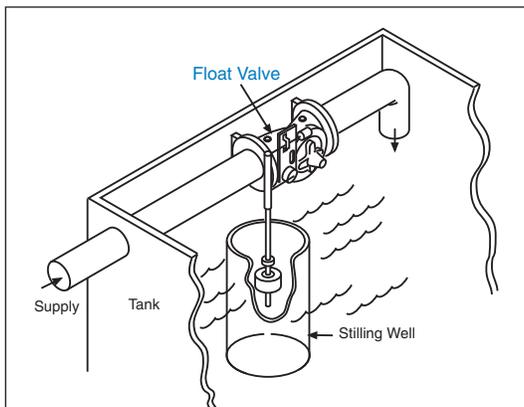
Float Control/Level Control On-Off Service



- Use this level control valve when a domestic or fire reserve water storage is used in a high-rise building
- Ideal for gravity fed or suction tanks as part of a fire protection system in a high-rise structure

124 Series Float Control Modulating Valves

- Designed to open fully when the liquid level reaches a pre-set low point and close drip-tight when the level reaches a preset high point
- Fully adjustable, accurate and repeatable level control



Control Valves for Domestic Water Applications

40 Series



Flow Control

- Prevents excessive flow by limiting flow to a preselected maximum rate
- Ideal for pumping applications and rate-of-flow control for transmission header



50 Series



Available Models

- 50-01
- 50-03
- 52-01
- 52-03

Pressure Relief/Sustaining

- Opens fast to maintain line pressure and closes slowly to prevent high pressure surges
- Ideal for pump discharge pressure control or pressure relief at a transmission header
- For extreme surge conditions, use Model 52-03



**SC-22D
Electronic
Surge Control
Panel**



60 Series



Pump Control Valves

- Designed to meet critical pump control application requirements with precise performance and maximum durability.
- Use on the discharge of a booster pump to prevent pipeline surges caused by starting or stopping of the pump
- PC-22D Pump Control Panel for optimum control



**PC-22D
Electronic
Pump Control
Panel**



Cla-Val Condo-Valve Product Line

In addition to Cla-Val's main product line, we also offer a line of products that are uniquely suited for use in condominium buildings. Compact, durable and reliable, these valves offer a cost-effective means to control flow and pressure in high-density residential structures.

80-960 Series



Direct Acting Pressure Reducing Valve

- Automatic operation
- Easy adjustment and maintenance
- Reduces a higher inlet pressure to a lower downstream pressure, regardless of pressure fluctuations
- Sizes: DN 40 to DN 150
- Upstream pressure: 40 bar maximum
- Downstream pressure: 2 to 14 bar



Model CRD-L



Compact Pressure Reducing Valve

- Automatically reduces a higher inlet pressure to a steady, lower downstream pressure
- Accurate regulator for holding downstream pressure to a pre-set level, regardless of upstream pressure fluctuations
- Use CRD-L Pressure Reducing Valves in various high rise water systems (potable water, boiler feed air conditioning, etc.) to control pressure fluctuations between floors



W Series



Hydraulic Control Valve

- Configurations available for a variety of applications:
 - Pressure Reducing
 - Pressure Sustaining
 - Remote Control and other combinations
- Sizes: DN 25 - DN 200
- Maximum pressure - 16 bar
- Maximum temperature - 79° C



362 Series



Automatic Air Vent Valve

- Use is heating and air conditioning systems to remove excess air
- Available in sizes 10mm - 25mm and a variety of configurations
- Maximum working pressure 110° C
- Durable nickel-plated brass body



Products That Help Your System Operate at Peak Efficiency

In addition to a complete line of Automatic Control Valves, Cla-Val also manufactures a wide range of complementary products that can significantly improve the performance and stability of any fluid handling system. For a comprehensive overview of available valve accessories and enhancements, visit www.cla-valpacific.com

Check Valves



Model 501



Model 580P



Model 581P



Model 582P



Model 583



Model 584P

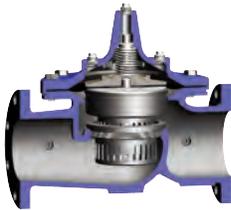


Model 585P

Cla-Val Pacific Check Valves are available in a wide variety of configurations, sizes and materials: Available models include:

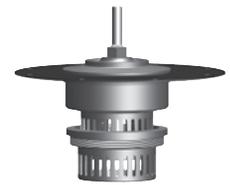
- 501 Wafer Swing Check
- 580P Silent Wafer Check
- 582P Double Door Wafer Check
- 583P Foot Valve
- 584P Flex Check
- 585P Swing Check

Cavitation Protection



Cla-Val's KO anti-cavitation trim fight cavitation in valve applications with extreme pressure differentials and high velocity flow conditions.

- 316 Stainless Steel construction
- Significantly reduces noise and vibration
- Helps improve reliability and performance
- Extends valve life



KO Trim

Air Release and Vacuum Breaker Valves



Model 33ATD - with Throttling Device

Designed to protect pipelines and vertical turbine pump applications from air lock and vacuum collapse, the Model 33A Air Release and Vacuum Breaker Valve eliminates air and prevents vacuum formations in pipelines.

- Corrosion resistant materials of construction
- Standard Working pressure = 300 psi, for higher pressure applications, consult factory
- Used in both Domestic Water and Fire Protection piping systems



Model 33A - Threaded

In-Line Strainer



- Provides an effective means of removing unwanted solid particles in pipeline flow
- Low Pressure Drop
- Ductile Iron Fusion Bonded Epoxy Coated Construction with a 316 Stainless Steel Strainer
- Large Flow Area H-Style Design
- Service Without Removal From Line



X43 H-Strainer

Butterfly Valves for Commercial Applications

Cla-Val Pacific offers a complete range of butterfly valves for commercial applications including potable water, fire protection and HVAC systems. Known for their quality and reliable performance, the valves below are just a few of the many solutions we provide to the worldwide marketplace.

Model 2302



Wafer Butterfly Valve

- Sizes: DN40 - DN700
- Working Pressure: ≤ 25 Bar
- Working Temp: -20°C to 150°C

Materials:

- Body: CI / DI / WCB / SS / Bronze
- Disc: DI / SS / Bronze
- Seat: EPDM / NBR / FPM / PTFE

Model 2502



Lug Butterfly Valve

- Sizes: DN40 - DN700
- Working Pressure: ≤ 25 Bar
- Working Temp: -20°C to 150°C

Materials:

- Body: CI / DI / WCB / SS / Bronze
- Disc: DI / SS / Bronze
- Seat: EPDM / NBR / FPM / PTFE

Model 2122



U-Type Butterfly Valve

- Sizes: DN150 - DN1200
- Working Pressure: ≤ 16 Bar
- Working Temp: -20°C to 150°C

Materials:

- Body: Ductile Iron / WCB
- Disc: DI / SS / Bronze
- Seat: EPDM / NBR / FPM / PTFE

Model 2102



AWWA C504 Double-Flanged Butterfly Valve

- Sizes: DN80 - DN1500
- Working Pressure: ≤ 21 Bar
- Working Temp: -20°C to 120°C

Materials:

- Body: Ductile Iron
- Disc: DI / SS
- Seat: EPDM / NBR

Model 2123



Double Flanged Butterfly Valve

- Sizes: DN50 - DN3000
- Working Pressure: ≤ 16 Bar
- Working Temp: -20°C to 150°C

Materials:

- Body: Ductile Iron
- Disc: DI / SS
- Seat: EPDM / NBR / FPM

Model 2688



Double Eccentric Butterfly Valve

- Sizes: DN100 - DN2000
- Working Pressure: ≤ 25 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Ductile Iron
- Disc: DI / SS
- Rubber Seals: EPDM / NBR

Model 2986



Triple Eccentric Butterfly Valve

- Sizes: DN50 - DN2800
- Working Pressure: ≤ 63 Bar
- Working Temp: -196°C to 550°C

Materials:

- Body: WCB / CF8M / WC6 / LCB
- Disc: WCB / CF8M / WC6 / LCB
- Seat: SS304+Graphite

visit www.cla-valpacific.com to
learn more about our complete line
of fluid control solutions

Valves for Commercial Applications

Cla-Val Pacific offers a variety of companion products for commercial applications including potable water, fire protection and HVAC systems. The products are constructed of top quality materials in an ISO 9000 certified facility, governed by a rigorous quality control program to ensure durability and reliable performance.

Model 7101



Y Type Strainer

- Sizes: DN50 - DN650
- Working Pressure: 16 / 25 Bar

Materials:

- Body: Ductile Iron / Cast Iron
- Cover: Ductile Iron / Cast Iron
- Screen: SS 304 / SS 316

Model 7105



Basket Type Strainer

- Sizes: DN50 - DN600
- Working Pressure: 16 / 25 Bar

Materials:

- Body: Ductile Iron / Cast Iron
- Cover: Ductile Iron / Cast Iron
- Screen: SS 304 / SS 316

Model 5101/5102



BS/MSS Metal Seated Flange Type Swing Check Valve

- Standard BS 5153
- Sizes: DN50 - DN600
- Working Pressure: 16 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Cast Iron
- Disc: Cast Iron
- Seat Ring: Bronze

Model 5203



Flange Type Lifting Check Valve

- Standard F-F to DIN 3202 F1
- Sizes: DN15 - DN300
- Working Pressure: 16 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Cast Iron
- Disc: Cast Iron
- Seat: SS420

Model 1209-BT



Fixed Orifice Double Regulating Valve

- Standard BS 7350
- Sizes: DN15 - DN50
- Working Pressure: 150 Class
- Working Temp: -10°C to 120°C

Materials:

- Body: Bronze
- Ends: NPT Threaded

Model 1209-DF



Fixed Orifice Double Regulating Valve

- Standard BS 7350
- Sizes: DN65 - DN500
- Working Pressure: 250 / 300 Class
- Working Temp: -10°C to 120°C

Materials:

- Body: Ductile Iron
- Flange: Class 150 / Class 250

Model 1210-DF



Fixed Orifice Double Regulating Valve

- Standard BS 7350
- Sizes: DN65 - DN500
- Working Pressure: 250 / 300 Class
- Working Temp: -10°C to 120°C

Materials:

- Body: Ductile Iron
- Flange: Class 150 / Class 250

Model 1200SSW



Double Flow Measurement Device

- Sizes: DN65 - DN600
- Working Pressure: ≤ 25 Bar
- Working Temp: -10°C to 120°C

Materials:

- Orifice and Carrier: SS
- Pressure Test Valves: Brass

Valves for Commercial Applications

Cla-Val Pacific offers a complete range of butterfly valves for commercial applications including potable water, fire protection and HVAC systems. Known for their quality and reliable performance, the valves below are just a few of the many solutions we provide to the worldwide marketplace.

Model 3233



3233 BS OS&Y Resilient Gate Valve

- Standard BS 5163
- Sizes: DN50 - DN400
- Working Pressure: 16 Bar
- Working Temp: -20°C to 120°C

Materials:

- Body: Ductile Iron
- Disc: EPDM Coated Ductile Iron

Model 3243B



LBS NRS Resilient Seat Gate Valve

- Standard BS 5163 / AWWA C509
- Sizes: DN50 - DN400
- Working Pressure: 16 Bar
- Working Temp: -20°C to 120°C

Materials:

- Body: Ductile Iron
- Disc: EPDM Coated Ductile Iron

Model 3246



DIN F4 NRS Resilient Seat Gate Valve

- Standard: DIN 2252 F4
- Sizes: DN50 - DN600
- Working Pressure: 16 Bar
- Working Temp: -20°C to 120°C

Materials:

- Body: Ductile Iron
- Disc: EPDM Coated Ductile Iron

Model 3126



DIN F4 NRS Resilient Seat Gate Valve

- Standard DIN 3352 F4 Heavy Pattern
- Sizes: DN40 - DN400
- Working Pressure: 10 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Cast Iron
- Disc: Cast Iron
- Seat: Brass

Model 3213



DIN F4 OS&Y Metal Seated Gate Valve

- Standard DIN 3352 F4
- Sizes: DN40 - DN300
- Working Pressure: \leq 16 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Cast Iron / Ductile Iron
- Disc: Cast Iron / Ductile Iron
- Seat: Brass

Model 3141



BS NRS Metal Seated Gate Valve - Heavy Pattern, Vertical

- Standard BS 5163 / BS 5150
- Sizes: DN300 - DN1400
- Working Pressure: 16 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Ductile Iron
- Disc: Ductile Iron
- Seat: SS 316 / Bronze

Model 6123



BS / MSS OS&Y Globe Valve

- Standard BS EN 13789 (BS 5152) and MSS SP-85
- Sizes: DN50 - DN300
- Working Pressure: 16 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Cast Iron
- Disc: Cast Iron
- Seat Ring: Bronze

Model 6125



DIN OS&Y Globe Valve

- Standard: DIN 3356
- Sizes: DN15 - DN300
- Working Pressure: 16 Bar
- Working Temp: -10°C to 120°C

Materials:

- Body: Cast Iron
- Disc: WCB / CF8M / WC6 / LCB
- Seat: SS304+Graphite



Worldwide Locations

US • Canada • Switzerland • The UK • France • New Zealand

Global Headquarters

1701 Placentia Avenue • Costa Mesa CA 92627
Phone: 949-722-4800 • 800-942-6326
www.cla-val.com • info@cla-val.com

Cla-Val Pacific - Serving Australasia

45 Kennaway Road
Woolston • Christchurch New Zealand 8023



www.cla-valpacific.com

64 39644860 • info@cla-valpacific.com

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