




GVS®

Guide Valve Limited



Distributors/Agents

Global Supply Line are Guide Valve stockists, distributing to Australia, NZ & PNG, and can automate, service & test in our Adelaide Lloyd's 9001 facility, approved by Guide Valve.
Contact us: sales@globalsupplyline.com.au
Stock lists at our website: www.globalsupplyline.com.au

Company Profile

- Guide Valve Limited
  - Specializes in the manufacturing of bolted body trunnion mounted and floating ball valves.
  - Established in 1980 with its headquarters in outside of Toronto, Ontario, Canada
- Guide Valve USA Limited
  - Established in 2013 with headquarters in Houston, Texas, USA
- 1986, GVL obtained the exclusive distribution rights for the G.E. Nuovo Pignone welded bodies up to 48” and Bolted Body up to 36” ball valves for North America
- 2001, GVL started manufacturing the G.E. Nuovo Pignone ball valves in North America
- 2011, GVL launched our own GVS® brand Trunnion Mounted Bolted Body Ball Valves, based on the G.E. Nuovo Pignone ball valves
- 2017, GVL purchased 100% shares of a valve parts manufacturing plant in China
- 2018, GVL purchased the Malema Safety Excess Flow Valve Product / Manufacturing rights which is currently manufactured in our GVL Canada plant

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Mission Statement

It is our mission to effectively and continuously engage in methods, technology, and innovation to meet the organizational goals of GVL and "Better by Design" products, while at the same time, striving to exceed the needs and expectations of our clients. Fostering a company environment for overall safety, continuous improvement and cultivating cooperation and mutual respect towards our environment, employees, suppliers and customers.

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Products GVL Manufactures

GVS®: B1 & GB1

API 6D Monogramed, CSA Z245.15-17 Trunnion Mounted Ball Valves

Sizes of 2” to 42”, Dual seated , Patent Soft seat, Metal to Metal, & Triple Seal seat. Fire Safe & Fugitive Emission Certified

ANSI Classes 150 to 2500.

Manufacturing Plants; GVL Canada & China



GVS®: P1 & P2

API 6D Monogramed, CSA Z245.15-17

Pressure Balanced Lubricated Plug Valves

Sizes of 1/2” to 30”, Regular, Venturi & Short Patterns, Fire Safe Certified

ANSI Classes 150 to 2500.

Manufacturing Plants; GVL Canada & China



GVS® : M-XF Series

Field Adjustable Excess Flow Valves

Sizes of 1/2” to 12”, ANSI Flanged, FNPT, and Socket Welded port types

ANSI Classes 150 to 1500

Manufacturing Plant; GVL Canada



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Products GVL Manufactures

VCI®

Floating Ball Valves

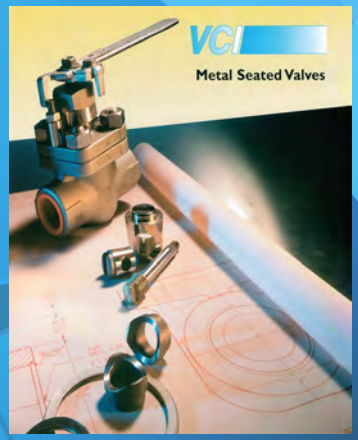
Sizes of 1/4” to 12” & featuring “live loaded seats”
Fire Safe Certified, FM Global & CSA Certified
Soft & Metal Seated, Cryogenic, V-Control
Multi-ported and Patent flange feature.
ANSI Classes 150 to 1500.
Manufacturing Plant; GVL Canada



Lowe Valve

Metal Seated, quarter turn, Rotary Wedge Valve

Top entry, 1/4” to 2”, Fire Safe Certified
Temperatures up to +1200° F
ANSI Classes 150 to 900.
Manufacturing Plant; GVL Canada



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Guide Valve Ltd. – Canadian Head Office & Plant



51 Terecar Drive
Vaughan, Ontario

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Guide Valve Ltd. - Canada







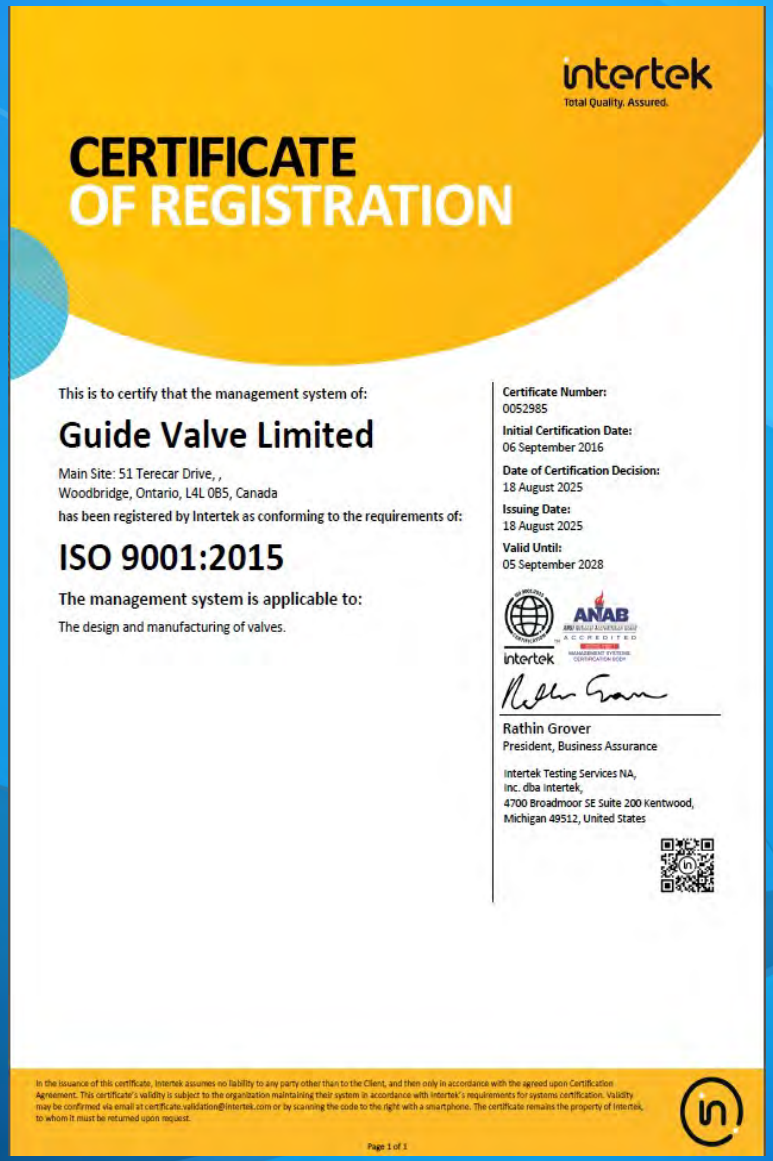
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Canadian Plant Facility



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ISO Certificate



intertek
Total Quality. Assured.

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Guide Valve Limited

Main Site: 51 Terecar Drive, ,
Woodbridge, Ontario, L4L 0B5, Canada

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

The design and manufacturing of valves.

Certificate Number:
0052985

Initial Certification Date:
06 September 2016

Date of Certification Decision:
18 August 2025

Issuing Date:
18 August 2025

Valid Until:
05 September 2028

Rathin Grover
President, Business Assurance

Intertek Testing Services NA,
Inc. dba Intertek,
4700 Broadmoor SE Suite 200 Kentwood,
Michigan 49512, United States

In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone. The certificate remains the property of Intertek, to whom it must be returned upon request.

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GVS® M-XF
Adjustable Safety Excess Flow Valves





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Major GVS® M-XF Clients

- Chevron
- Bechtel
- Caterpillar
- Honeywell
- General Mills
- Michelin
- Williams Pipeline
- Florida Gas Transmission
- SoCal Gas
- Gerhardt's Inc
- Solvay Advanced Polymers
- Entergy Nuclear
- Texas Gas Transmission
- E. I. Dupont
- PRAXAIR INC
- Goodyear
- Conoco Philips
- Minnesota Petroleum
- Proctor & Gamble
- Marathon Pipeline

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Continuous Training
GVS® M-XF – Safety Excess Flow Valve











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GVS®



M-XF Series

Safety Excess Flow Valves

Description

GVS® M-XF valves provide instant shut-off in the event of a line break, preventing the release of hazardous or flammable products to the area which could result in a disastrous fire or explosion that could harm personnel, equipment, and the environment.

Features

- In-line repairable (repair or inspection without removal of body from pipeline)
- Broad calibration range
- Effective operation with liquids or gases
- In-line flow
- Available in sizes from 3/4" to 12"

  ANSI classes 150 to 2500

- Flanged, Socket Weld, Butt Weld, or Threaded connections

Operation

As the fluid enters the valve, it flows through the orifice to the outlet. The orifice and tapered piston create a venturi effect, accelerating the flow through the valve. At a preset flow rate, the pressure differential offsets the spring-loading of the piston and shuts off the valve. Fluid can flow through the valve in either direction, however, the flow will be shut off in the direction indicated on the valve.

Adjustment is achieved by means of an externally adjustable screw that positions the piston closer or farther away from the orifice. Turning the adjusting screw clockwise to reduce the flow area causes actuation at lower preset flows.

Applications

- Fuel lines
- Pollution control
- Chemical processing
- Gas and hydrailic lines
- Petroleum and gas installations

All LPG tank cars and transport trucks are required by law to have excess flow valves installed. In addition, state LPG regulatory bodies require excess flow valves on all LPG storage vessels storing products for domestic delivery and consumption.

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Safety Excess Flow Valve

- GVS®-M-XF Valves are used as safety devises to shut-off the flow of hazardous and expensive fluids in the event of rupture caused in the downstream piping.

- GVS®- M-XF Valves are pre-set for a shut off flow rate. Should the flow rate exceed the pre-set value the valve shuts the flow automatically without a need for external actuation.

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Why to install excess flow valve?

- Protects Human, Environment and Assets
- Safeguards Against Pollution and Health Hazards
- Reduces Risk in Hazardous / Explosive / Harmful Environments and Emergency Situations
- Minimizes Spillage and Loss of Toxic / Valuable Media
- Affords Compliance with International, National and Local Health and Safety Regulations and Requirements
- Protection in the Event of Earthquake, Landslide, Fire and Accidental Third Party Damage
- Avoids Lengthy Factory / Process Downtime
- Preserves Bulk Storage and Pressurized Facilities
- Limits Loss due to Deliberate Action / Disturbance to Pipelines
- Prevents Flooding and Resultant Damage to Property and other Utilities / Facilities
- A Self Actuated and Automatic Safety Device

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Applications:

- Various fluids used in Oil & Gas, Petrochemical industries, Chemical industries, Power plants, etc.

- LP Gas, Butane, Anhydrous Ammonia, Anhydrous Chlorine, Helium Gas, Argon gas, Diesel Gas, Liquid Propane, LNG, Crude C4, H2 Gas, Natural Gas, Air, Water, Nitrogen, etc.

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GVS Guide Valve Limited

APPLICATION DATA SHEET

GUIDE VALVE Excess Flow Valve Application Sheet MALEMA

Name:	Title: Lead Mechanical	Email:	
Company:	Address:		
Phone:	Fax:	RFQ:	Date:

1.	Instrument Tag:	SP-V602A								
2.	Fluid Name:		Other:	Naphtha	Liquid	Specific Gravity:	0.66			
3.	Operating Pressure:	Min: 0	Normal: 25	Max: 29	psig	Other:				
4.	Operating Temperature:	Min: 0	Normal: 100	Max: 120	°F	Other:				
5.	Operating viscosity:	0.26	cP	Other:	at 120	°F				
6.	Flow Range:	Min: 0	Normal: 0	Max: 300	GPM					
7.	Flow Units:	Volumetric Flow				Mass Flow				
		Liquid: US GPM	Gas:							
8.	Shut Off Flow:	600 GPM	Factory Setting:							
9.	Preferred Connection:	Size: 6"	Type: Flanged	Rating: 150						
10.	Pipe Information:	Size: 6"	Material A352-LCB	Schedule: 150						
11.	Materials	Wetted Parts Material: 316SS, Oring - Viton								
		Seals: Viton								
		Materials to Avoid:								
12.	Reset Option:	For M-XF Model, Built-in Bypass valve: Required								
		Reset Re								
13.	Remote Indication/Alarm:	Differential Pressure Switch: Not Required								
		For M-XF only:	Classified to:							
14.	Test Reports:	(All reports will cost extra) Certificate of Con								
		Specific to Model M-XF: Calibration Certifica								
15.	Description of the Application:									

If you would like to sketch the application please use the space below:

Valve shall be Malema flow -Sensors - M-XF Series.
Valve shall be provided with a valid CRN Number for province of alberta.
Bonnet type shall be bolted.
CV: 380
Design condition: 260 PSIg @ 200 °F and MDMT -20 °F
API Class: 594, 598 and ASME B16.5

EQUIVALENT TO WATER FOR FACTORY TESTING

Liquid Flow Rate	Q_l	LPM	2271.071		
Specific Gravity	SG_l	liquid	0.66		
Eq. Water Flow	Q_w	LPM	1845.03	GPM	487.404

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Technical Data

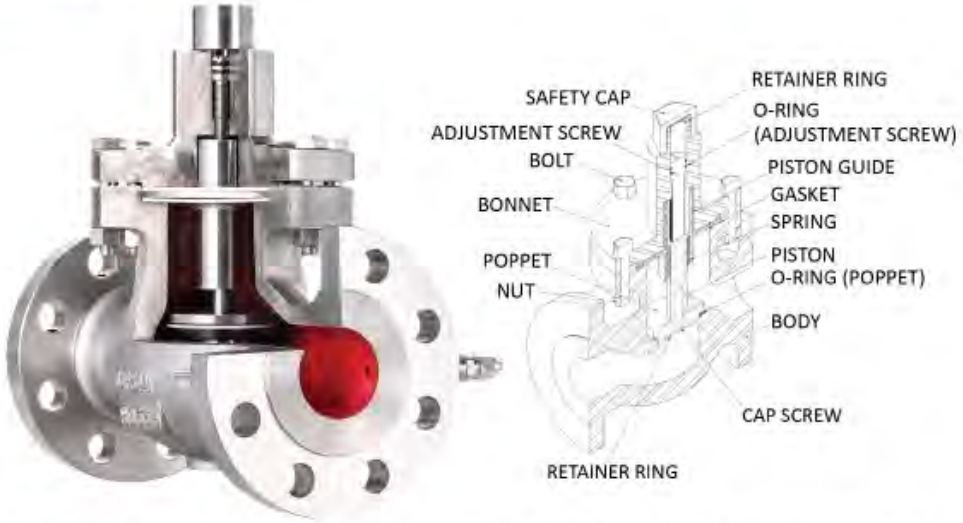
Available Sizes:	3/4” to 12” Additional valve sizes and materials are available upon request.
Pressure Ratings:	ANSI #150, 300, 600, 900, 1500 & 2500
Material of Construction:	Stainless Steel (A351 CF8M, A182 F316) Carbon Steel (A216 WCB, A105, A350 LF2 CI1) Low Temp Carbon Steel (A350 LF2, A352 LCC) Other materials are available upon request.
Shut off Range:	Water: 1 to 2500 US GPM Air: 0.5 to 40000 SCFM
Applicable Standards:	Face to Face dimension as per ASME/ANSI B16.10 Flange Dimension as per ASME/ANSI B16.5 Hydro test as per API 598. NACE- MR0175 Latest edition available

Oxygen / Paint Service Preparation & Cleaning is available upon request.

Fire Safe Certification in Progress: Yarmouth Research and Technology, LCC
North Yarmouth, ME USA
www.yarmouthresearch.com

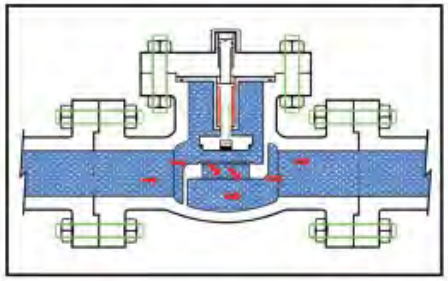
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Cut-Away Illustration

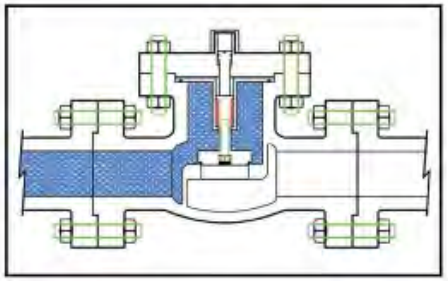


The mounting position for this excess flow valve is horizontal. These valves can also be mounted vertically; this will change trip settings by approximately 15% (this is easily corrected since one can adjust the valve to counter for this change). The valve can be easily maintained in the field without removing from the pipeline as all of the components slide out of the top upon disassembly.

How it Works



Valve Open = Normal Flow

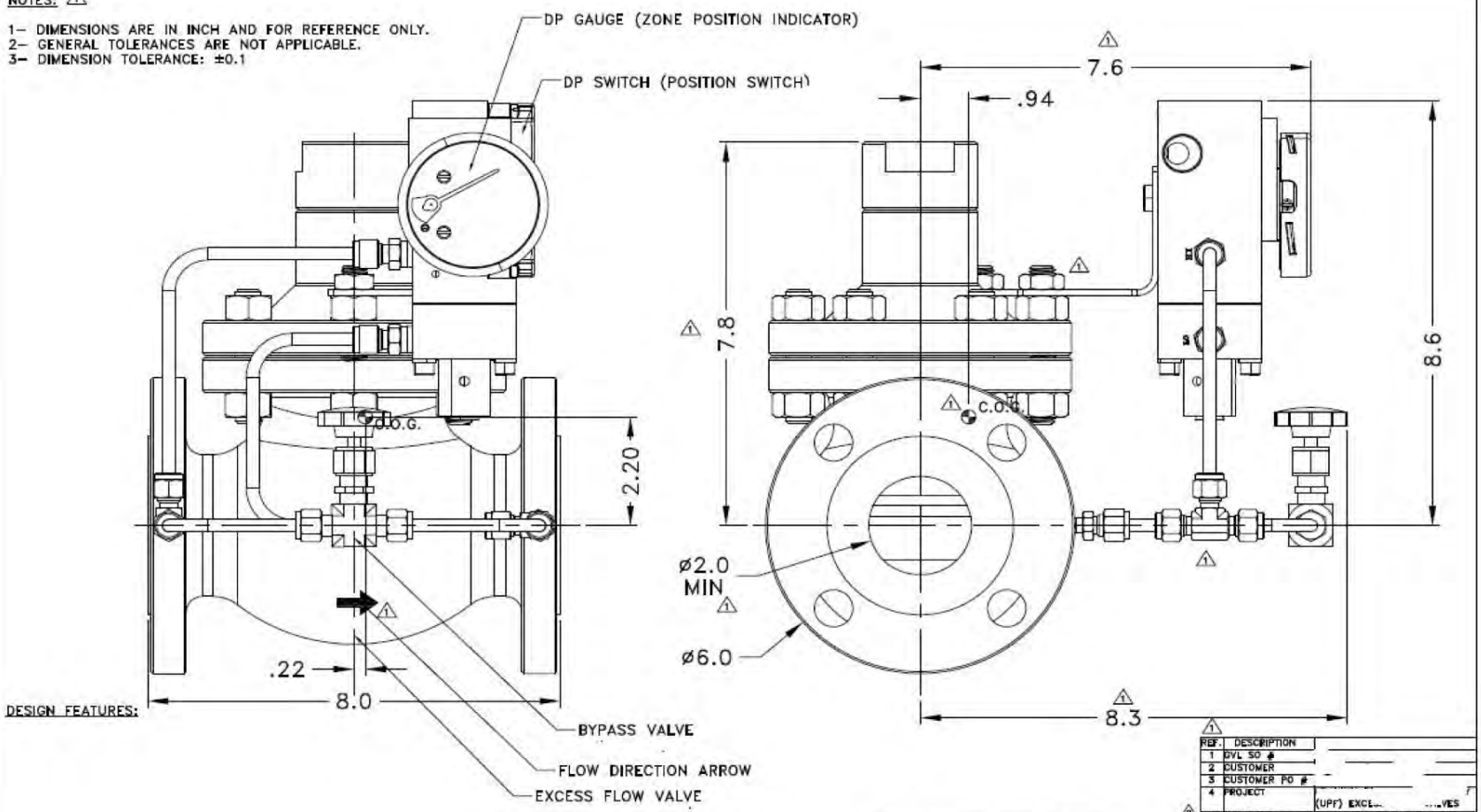


Line Break = Flow Shut-Off

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NOTES:

1– DIMENSIONS ARE IN INCH AND FOR REFERENCE ONLY.
2– GENERAL TOLERANCES ARE NOT APPLICABLE.
3– DIMENSION TOLERANCE: ±0.1



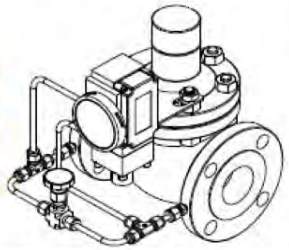
REF.	DESCRIPTION
1	QVL SO #
2	CUSTOMER
3	CUSTOMER PO #
4	PROJECT
5	CLIENT PO #

(UPr) EXCL... ...VES
25774-CC-POA-PV00-00004

REV.	REVISIONS	ECN	PREP'D	CHK'D	APPR'D	DATE
2	ADDED CLIENT'S PO #		JP	JK	LG	2020-01-06
1	REVISED AS PER CLIENT'S COMMENTS		JP	JK	LG	2019-11-04
0	INITIAL ISSUE		JP	JK	LG	2019-10-15

APPROVED by: LVG 2020-01-08

REVIEWED by: JKL 2020-01-08



TITLE: GVS-MALEMA, GENERAL ASSEMBLY DRAWING, 2" ANSI CLASS 150 WITH DP GAUGE

DRAWING / PART NUMBER: 6505-03 REV.: 2

GENERAL MACHINING TOLERANCES

DIMENSIONS GROUP	UP TO 0.25	OVER 0.25 UP TO 1.2	OVER 1.2 UP TO 4.7	OVER 4.7
SHAFTS	±0.004	±0.008	±0.012	±0.016
HOLES	±0.004	±0.008	±0.012	±0.016
LENGTH	±0.004	±0.016	±0.024	±0.031

ALL SHARPS & EDGES NOT INDICATED 0.5 MAX
ANGULAR ALLOWANCES NOT INDICATED ±0.5°

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
UNSPECIFIED SURFACE FINISH: 63

MATERIAL:
WEIGHT: 48.5 lbs

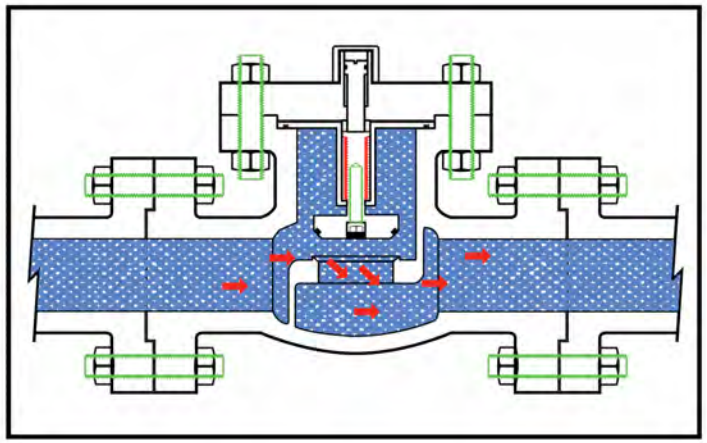
DRAWN: JP
CHECKED: JK
APPROVED: LG

ANSI A
THIRD ANGLE PROJECTION
SCALE: NONE
SHEET: 1 OF 2

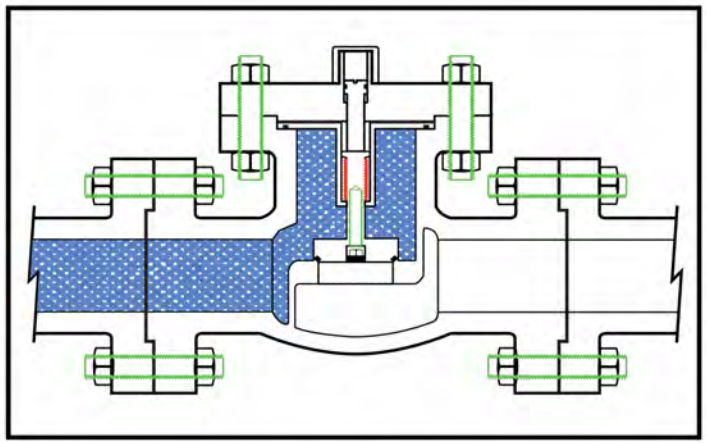
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How It Works



Valve Open = Normal Flow

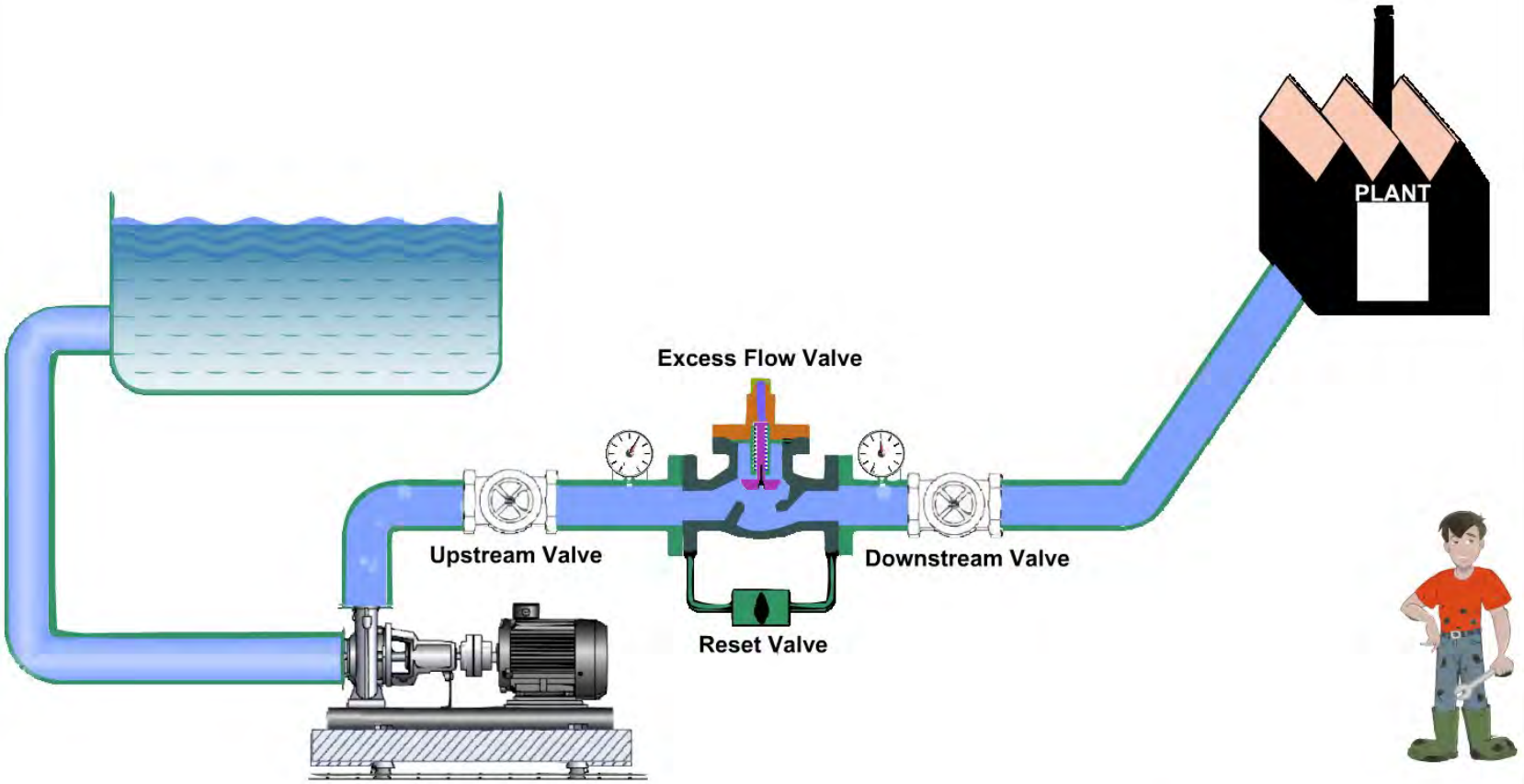


Line Break = Flow Shut-Off

- Poppet position is set for a given flow rate by adjusting the set screw.
- During normal operation poppet is open thereby allowing flow through seat.
- During the excess flow condition the poppet automatically closes due to suction effect and the fluid is held back.

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Pipe cracks – Resulting in an excess flow throughout the system



<< Previous | Play / Pause | Next >>

Activate Windows
Go to Settings to activate Windows.

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How built-in Reset valve works:

Execution of below steps will result in valve reset because of equalized pressure on the both sides of valve:

1. Close the isolation valves in both sides of excess flow valve (upstream and downstream) on the pipeline
2. Open the isolation valve on the upstream side of the excess flow valve
3. Open the built-in reset valve on the bypass line of excess flow valve
4. Pressure equalization on both sides of the valve will cause the reset of the excess flow valve (valve opens)
5. Open the downstream isolation valve
6. Close the built-in reset valve on the bypass line of excess flow valve

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Operation & Adjustment

- As the fluid enters the valve, it flows through the orifice to the outlet. The orifice and tapered piston create a venturi effect, accelerating the flow through the valve. At a pre-set flow rate, the pressure differential offsets the spring-loading of the piston and shuts off the valve. Fluid can flow through the valve in either direction, however, the flow will be shut off in the direction indicated on the valve.

- Adjustment is achieved by means of an externally adjustable screw that positions the piston closer or farther away from the orifice. Turning the adjusting screw clockwise to reduce the flow area causes actuation / shut-off at lower pre-set flows.

- The mounting position for this excess flow valve is horizontal. These valves can also be mounted vertically; this will change trip settings by approximately 15% (this is easily corrected since one can adjust the valve to counter for this change). The valve can be easily maintained in the field without removing from the pipeline as all of the components slide out of the top upon disassembly.

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GVS®-M-XF Testing Facility

- GVS®-M-XF valves are adjustable which means shut off pre-set point can be adjusted for different flow rates.
- All GVS®-M-XF are tested at Guide Valve Limited testing facility to define precise flow rates for different set points.



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GVS ® : M-XF Valve with built-in Reset

Reset mechanism is integrated into the excess flow valve which has several advantages:

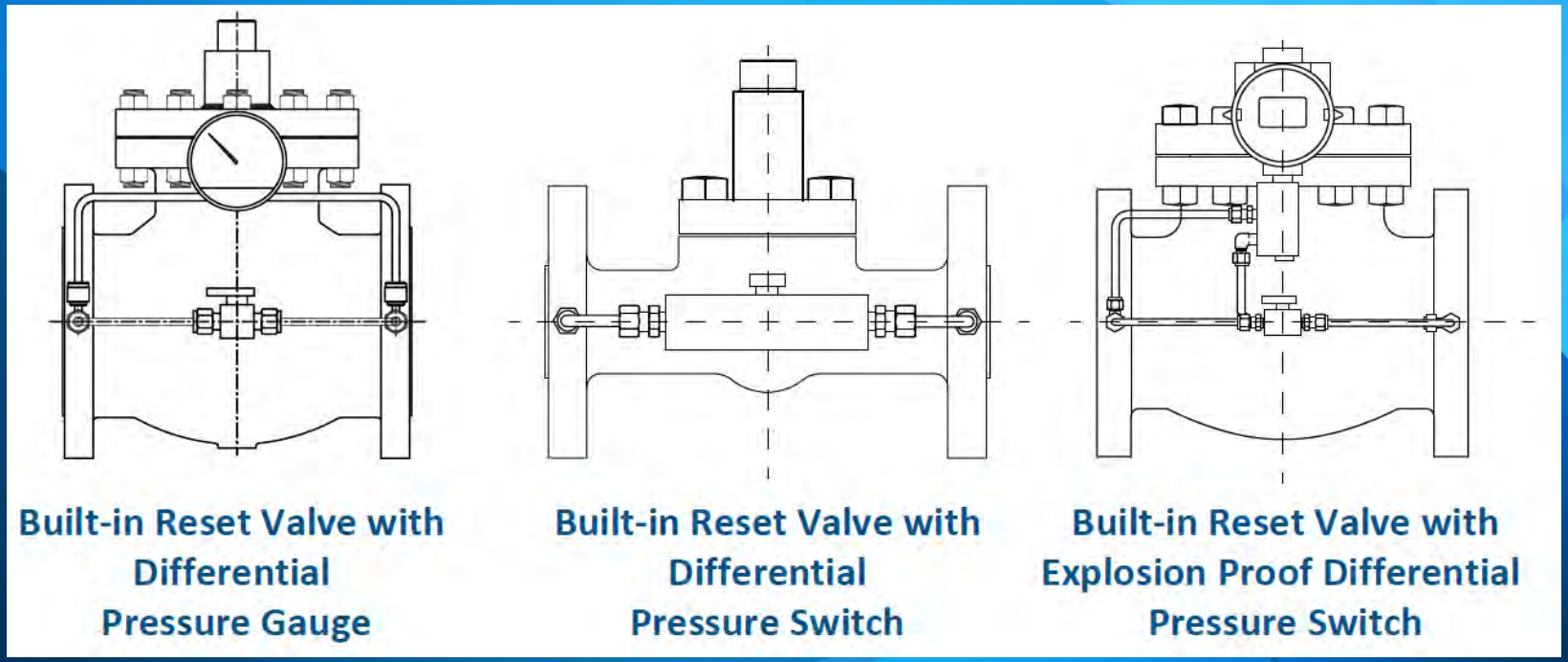
- Eliminates additional piping and hardware required in upstream of the valve.
- Reduces the cost of installation.
- Ease of installation.



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Additional Accessories:

- OPEN / CLOSE indication can be provided with a use of differential pressure gauge.
- Remote OPEN / CLOSE contact signal can be provided with a use of differential pressure switch (Explosion Proof option is available).
- A combination of built-in reset with above features is also available as an option which is useful for integrating with safety shutdown systems and other control strategies.



Built-in Reset Valve with Differential Pressure Gauge

Built-in Reset Valve with Differential Pressure Switch

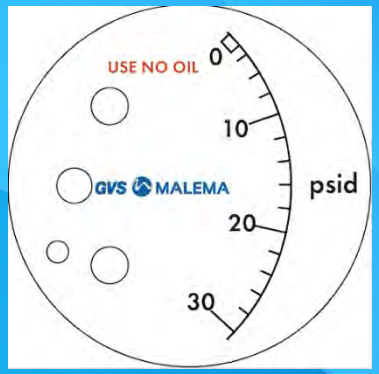
Built-in Reset Valve with Explosion Proof Differential Pressure Switch

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DIFFERENTIAL PRESSURE SWITCH

MODEL 1203 PGS





CAN BE FULLY CUSTOMIZED

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Thank You

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