



**GLOBE
CONTROL VALVE**

GXL[®]



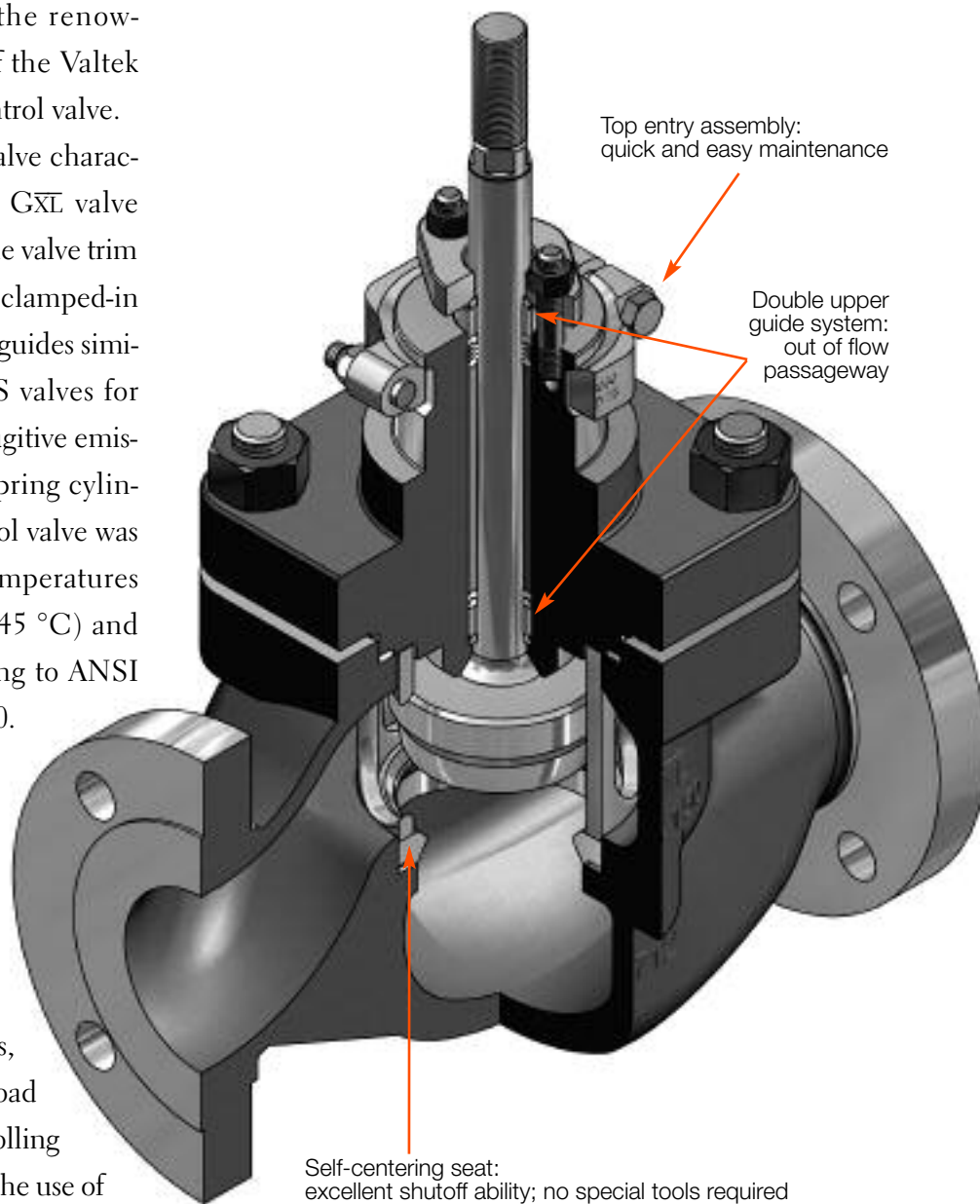
INTRODUCTION

The GXL globe control valve was developed as a simple, lightweight and more economical alternative to the renowned and advanced design of the Valtek Sulamericana GLS globe control valve.

Many of the major GLS valve characteristics are present in the GXL valve design, such as: Assembly of the valve trim from the top side (Top entry), clamped-in seat ring, aligned by the plug, guides similar to those used in the GLS valves for severe services, packings for fugitive emission control and the use of spring cylinder actuators. The GXL control valve was designed to operate with temperatures from -20 to 650 °F (-28 to 345 °C) and pressure ranges corresponding to ANSI 150 and 300 or DIN PN 16 - 40.

Available with integral flanges from 3/4 to 4 inches and with carbon steel, stainless steel and special alloys bodies, the GXL valves can be supplied with several options of trim sizes and materials, which allow their use in a broad range of applications for controlling fluids in industrial processes. The use of spring-cylinder actuators, together with the analog and digital family of Valtek Sulamericana positioners, makes the GXL the best alternative in the market when a simple, compact, economical and long lifetime globe-type valve is required.

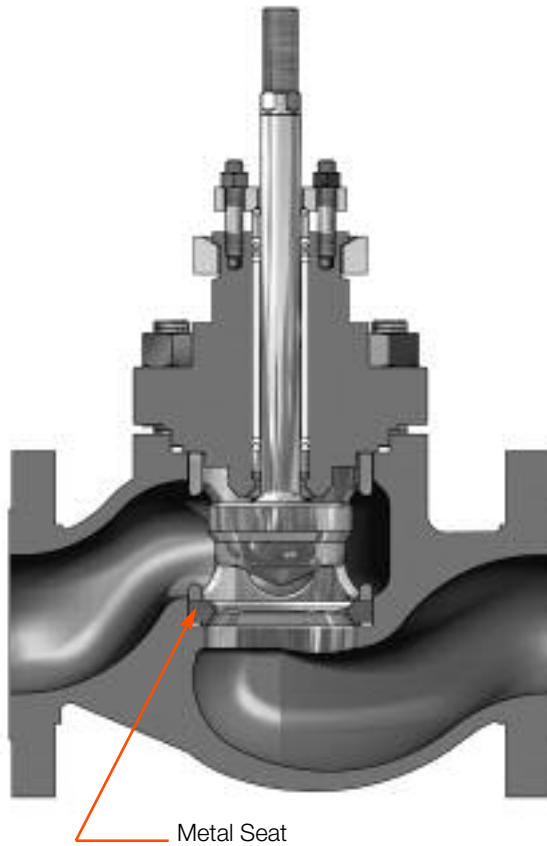
BODY SUB-ASSEMBLY (FIGURE 1)



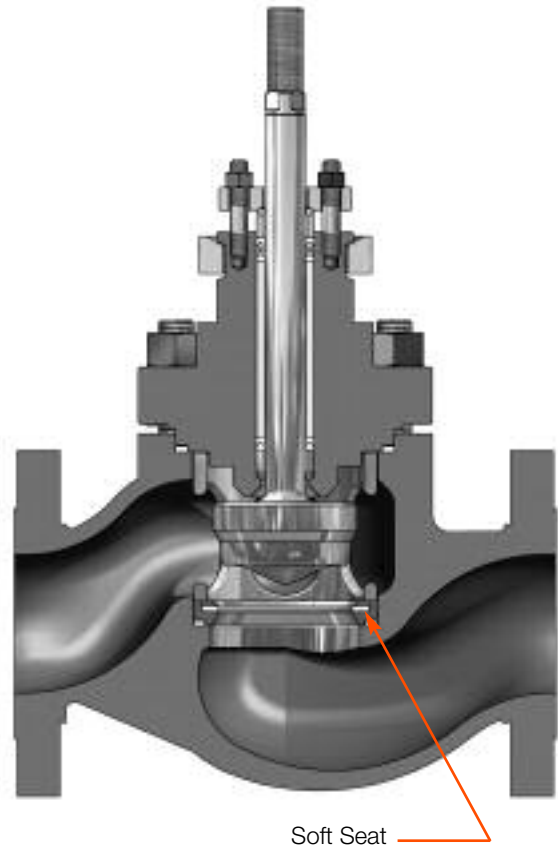
Rangeability 30:1 (typical)

ANSI Class IV Shutoff - Metal Seat
ANSI Class VI Shutoff - Soft Seat

METAL SEAT CONFIGURATION (FIGURE 2)



SOFT SEAT CONFIGURATION (FIGURE 3)



Reliability

Using many of the Valtek Sulamericana valve characteristics for severe services, the G \bar{x} L valve has compact dimensions, which helps its application in equipments or installations with limited space. The G \bar{x} L trim, designed with rugged dimensions, provides higher Cv than the Cv commonly found in globe-type valve from other manufacturers. The trim assembly is done from the body upper side (top entry) and the seat is centered by the plug, that assures an excellent seating and high levels of tightness, without the need of seat lapping. Even in corrosive processes, the seat removal is always a simple task and does not require any special tools. The plug is machined as a single piece and it is guided by an advanced double upper guide system, which remains out of the flow passageway thus eliminating the typical problems of valves with plug guided by the seat retainer.

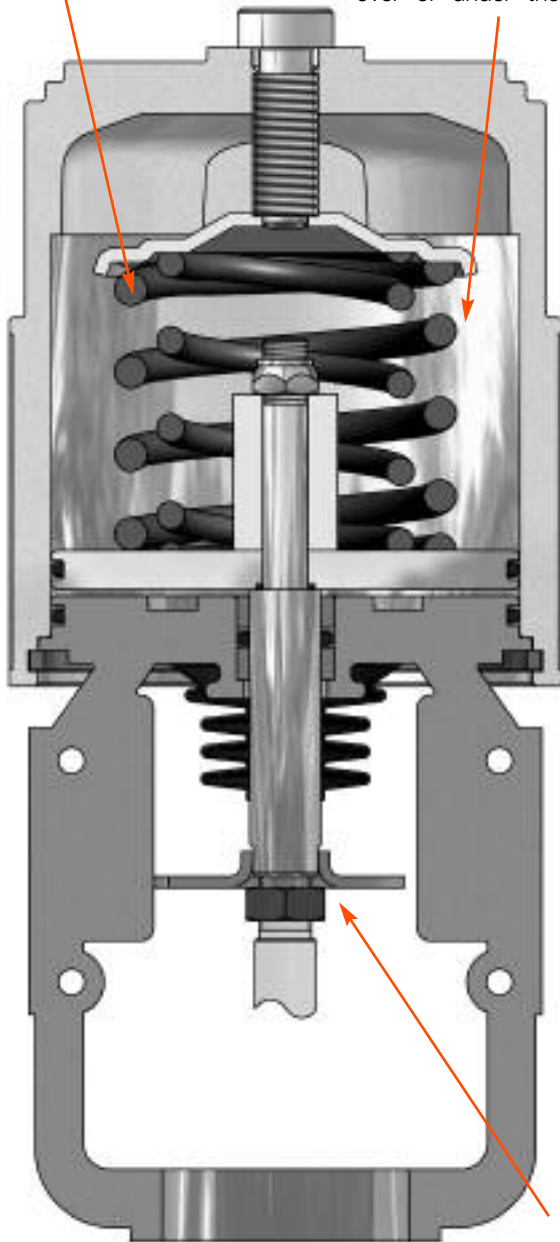
The bonnet and the seat are fitted in the body and use an enclosed gasket system, with uniform gaskets which eliminates leakage and does not require special attention with tightening torque. The extra deep packing box, allows the utilization of several packing options, including those required to meet the EPA* requirements. The G \bar{x} L valve has a wide variety of trim to serve various flow ranges. These characteristics, combined with the use of: spring cylinder actuators with proven lifetime longer than a million of cycles; HPP1500 analog or HPP3000 and HPP3500 Digital high performance Positioners, which provide an accurate and refined process control, result in a modern valve with advanced design and long lifetime. With low cost and high operating performance, the G \bar{x} L valve provides an accurate flow control in the most advanced industrial processes.

*EPA = U. S. Environmental Protection Agency

LINEAR ACTUATOR SERIES LA-XL (FIGURE 4)

Safety spring to assure required fail position

High pneumatic stiffness allows the valve to work either with flow direction "over" or "under" the plug



High actuating thrust

**High part interchangeability -
Reduces the need for spare parts**

**Lightweight and compact design - Helps
handling and occupies limited space**

Actuators

The LA-XL Series is a complete line of linear spring-cylinder actuators recognized by their high performance, actuating thrust and high control sensitivity. Designed to operate with air supply pressure up to 150 PSI (10.3 Bar), they are provided with internal springs to actuate in case of air supply failure and are field reversible, either to air-to-open or air-to-close configuration, without the need of additional parts. The positioner feeds simultaneously air to both cylinder chambers, maintaining exceptional stiffness. This pneumatic stiffness makes the spring-cylinder actuator insuperable when an accurate control of the valve positioning is required, even when the valve is operating near the closed position. The spring-cylinder actuators presents several advantages when compared to the traditional spring-diaphragm actuators, such as: High response frequency; Dynamic positioning sensitivity due to the air present on both piston sides; High actuating thrust resulting from the use of air supply pressure up to 150 psi (10.3 Bar); Compact, lightweight, easy maintenance and long-lasting; It does not have diaphragms subject to stress failure and rupture.

ACTUATOR SPECIFICATIONS (TABLE I)

Type	<ul style="list-style-type: none"> ■ Double acting cylinder with positive spring for failsafe action ■ Field reversible
Sizes	15, 25, 50
Action	<ul style="list-style-type: none"> ■ Air-to-Open ■ Air-to-Close ■ Fail-in-place
Air Supply Pressure	Up to 150 psi maximum (10.3 Bar maximum)
Operating Temperature	-40 to 350°F (-40° to 175°C)
Positioners	<ul style="list-style-type: none"> ■ HPP1500 Analog ■ HPP3000 Digital ■ HPP3500 Digital
Auxiliary handwheel	Push-only handwheel

MATERIALS OF CONSTRUCTION (TABLE II)

Yoke	Ductile Iron
Actuator Stem	UNS S 41600 Stainless Steel
Piston	Anodized Aluminum
Cylinder	Anodized Aluminum
O-Rings*	Buna N (Standard)
Actuator Spring	Steel (corrosion proof)
Cylinder Retaining Ring	Zinc Plated steel
Spring Button	Carbon Steel
Yoke Clamp	316 Stainless Steel
Adjusting Screw	Zinc Plated steel

* Room temperature higher than 180 °F (82 °C) requires Viton o-rings.
Temperature below -40 °F (-40 °C) requires Fluorsilicone o-rings

Positioners

FOR THROTTLING APPLICATIONS, THE LINEAR ACTUATORS SERIES LA-XL ALLOW THE USE OF SEVERAL POSITIONER OPTIONS.

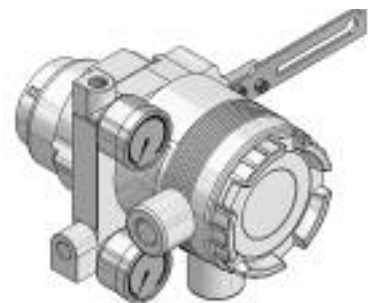


DIGITAL HPP3500 SERIES (FIGURE 5)

This positioner has the same characteristics of HPP3000, 4-20 mA_{Acc} input signal and HART[®] protocol. This project was developed to make easier the positioner installation on rotary actuators with NAMUR interface. Intrinsically safe, this positioner is provided with NEMA 4X and IEC IP66 enclosure and can handle air supply pressures from 20 to 100 psig (1.4 to 6.9 Bar) at operating temperatures from -40 to 176°F (-40 - 80°C).

DIGITAL HPP3000 SERIES (FIGURE 6)

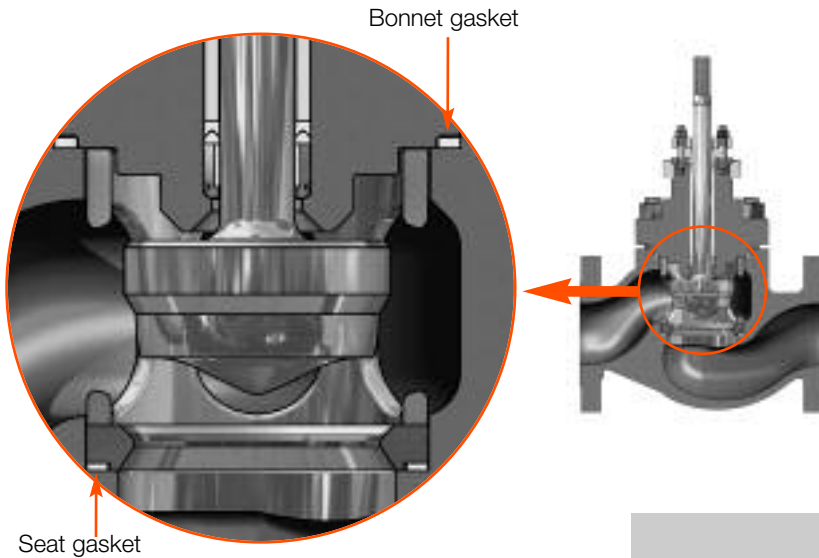
This is a high performance microprocessed positioner, compatible with HART[®], DE and Fieldbus communication protocols or 4-20 mA_{Acc} analog signal, also programmable for several split range configuration. This positioner Series incorporates totally programmable functions such as: auto-tuning, manual and automatic modes, multiple communication protocols and diagnostic information, which contribute to increase productivity and efficiency of industrial plant operations and to lower maintenance. The digital positioner Series HPP3000 can handle air supply pressures from 20 to 100 psig (1.4 to 6.9 Bar) at operating temperatures from -40 to 176°F (-40 to 80°C).



ANALOG HPP1500 SERIES (FIGURE 7)

This is a single or double acting high performance positioner. It allows the use of a pneumatic module for pneumatic input signals or an analog electro-pneumatic module for control signals in milliamps. Highly resistant and using the state-of-the-art technology, it works with air supply pressures up to 150 psig (10.3 Bar) without requiring air pressure regulators and withstands ambient temperatures from -40 to 176°F (-40 to 80°C). The positioner Series HPP1500 allows two or three split-range configurations with the use of a specific cam.

SEAT AND BONNET GASKETS (FIGURE 8)



The G \bar{X} L control valve for general purpose services was designed with bonnet and seat gaskets totally enclosed. The G \bar{X} L valve bonnet has a shoulder projection that actuates as a mechanical stop which limits the gasket compression. Thus, the bonnet gasket remains completely sealed and its compression is determined by the depth of the shoulder projection existing in the bonnet. Body, seat retainer and the seat itself are machined within tight tolerances to assure proper gasket compression. Differently from the bonnet, the seat does not touch directly the body (metal to metal), maintaining the proper clearance to compensate the mechanical tolerances and thermal expansion.

BODY SPECIFICATIONS (TABLE III)	
Style	Globe - Single Seat
Nominal sizes	<ul style="list-style-type: none"> ■ 0.75; 1; 1.5; 2; 3; 4 (inches) ■ DN 20; 25; 40; 50; 80; 100
Ratings	<ul style="list-style-type: none"> ■ ANSI Class 150-300 ■ DIN PN 16 - 40
End connections	<ul style="list-style-type: none"> ■ Integral Flanges ■ Socketweld* ■ NPT*
Flange surface finish	<ul style="list-style-type: none"> ■ Standard: 125-250 Ra ■ Optional: 250-500 Ra
Face-to-Face dimension	ANSI/ISA-75.08.01
Bonnet	Standard
Shutoff	<ul style="list-style-type: none"> ■ ANSI CL. IV with Metal Seat ■ ANSI CL. VI with soft seat
Flow characteristics	<ul style="list-style-type: none"> ■ Linear ■ Equal percentage ■ Quick open

*Sizes: 0.75 to 2 inches

PACKING TEMPERATURE LIMITS (TABLE IV)			
BONNET TYPE	PACKING TYPE	TEMPERATURE LIMITS	
		°F	°C
Standard	PTFE V-Rings	-20 to 450	-28 to 232
	Braided PTFE	-20 to 500	-28 to 260
	Graphite	-20 to 650	-28 to 345
	PTG	-20 to 450	-28 to 232
	PTG XT	-20 to 550	-28 to 288

TEMPERATURE LIMITS FOR SEAT AND BONNET GASKET (TABLE V)			
GASKET TYPE	MATERIAL	TEMPERATURE LIMITS	
		°F	°C
Flat	PTFE	350	176
Spiral	316 SS/Graphite	650	345

TEMPERATURE LIMITS FOR PLUG GUIDE/INSERTS (TABLE VI)			
GUIDE/INSERT MATERIALS	MAX TEMPERATURE		MAX PRESSURE
	°F	°C	
Stainless Steel/PTFEG	300	150	100 psi @ 300° F*
Stainless Steel/Graphite	650	345	Body rating
Bronze	500	260	Body rating

*See pressure vs. temperature curve in the Valtek sizing manual

**STANDARD MATERIALS OF CONSTRUCTION
CARBON STEEL SUB-ASSEMBLY (TABLE VII)**

ITEM	MATERIAL CLASSIFICATION	SPECIFICATION		
		ASTM CODE (AMS No.)	UNS CODE	HARDNESS R _C
Body	Carbon Steel (Casting)	A 216 WCB	J 03002	
Bonnet	Carbon Steel (Casting)	A 216 WCB	J 03002	
Plug	316 (Bar)	A 479 Gr 316	S 31600	8
	420 (Bar)	A 276 Gr 420	S 42000	38-45
	316 / Alloy #6*	A479 Gr 316 / AMS 5387	S 31600 / R30006	40-42
Metal Seat	316 (Bar)	A 479 Gr 316	S 31600	8
	420 (Bar)	A 276 Gr 420	S 42000	38-45
	316 / Alloy #6*	A479 Gr 316 / AMS 5387	S 31600 / R30006	40-42
Soft Seat	316 (Bar) / PTFE	A 479 Gr 316	S 31600	
Seat Retainer	316 (Casting)	A 351 CF8M	J 92900	
Gland Flange	316 (Casting)	A 351 CF8M	J 92900	
Packing Follower	316 (Bar)	A 479 Gr 316	S 31600	
Packing spacer	316 (Bar)	A 479 Gr 316	S 31600	

**STANDARD MATERIALS OF CONSTRUCTION
STAINLESS STEEL SUB-ASSEMBLY (TABLE VIII)**

ITEM	MATERIAL CLASSIFICATION	SPECIFICATION		
		ASTM CODE (AMS No.)	UNS CODE	HARDNESS R _C
Body	316 (Casting)	A 351 CF8M	J 92900	
Bonnet	316 (Casting)	A 351 CF8M	J 92900	
Plug	316 (Bar)	A 479 Gr 316	S 31600	8
	17-4 PH (Bar)	A 564 Gr 630	S 17400	35
	316 / Alloy #6*	A479 Gr 316 / AMS 5387	S 31600 / R30006	40-42
Metal Seat	316 (Bar)	A 479 Gr 316	S 31600	8
	17-4 PH (Bar)	A 564 Gr 630	S 17400	35
	316 / Alloy #6*	A479 Gr 316 / AMS 5387	S 31600 / R30006	40-42
Soft Seat	316 (Bar) / PTFE	A 479 Gr 316	S 31600	
Seat Retainer	316 (Casting)	A 351 CF8M	J 92900	
Gland Flange	316 (Casting)	A 351 CF8M	J 92900	
Packing Follower	316 (Bar)	A 479 Gr 316	S 31600	
Packing spacer	316 (Bar)	A 479 Gr 316	S 31600	

* Valves with nominal sizes 0.75 to 2 inches: seat ring and plug head in solid Alloy #6.
Valves with nominal sizes 3 and 4 inches: solid alloy #6 on seat ring and alloy #6 overlay on plug head.

MATERIALS

PRESSURE AND TEMPERATURE LIMITS FOR VALVE BODIES – ANSI B 16.34 (TABLE IX)

MATERIAL	CLASS	PRESSURE		TEMPERATURE	
		PSI	Bar	°F	°C
Carbon Steel ASTM A 216 Gr. WCB	ANSI 150	285	19.7	-20 to 100	-29 to 38
		260	17.9	200	93
		230	15.9	300	149
		200	13.8	400	204
		170	11.7	500	260
		140	9.7	600	316
		125	8.6	650	343
	ANSI 300	740	51.0	-20 to 100	-29 to 38
		675	46.5	200	93
		655	45.2	300	149
		635	43.8	400	204
		600	41.4	500	260
		550	37.9	600	316
		535	36.9	650	343
Stainless Steel ASTM A 351 Gr. CF8M	ANSI 150	275	19.0	-20 to 100	-29 to 38
		235	16.2	200	93
		215	14.8	300	149
		195	13.4	400	204
		170	11.7	500	260
		140	9.7	600	316
		125	8.6	650	343
	ANSI 300	720	49.7	-20 to 100	-29 to 38
		620	42.8	200	93
		560	39.4	300	149
		515	35.5	400	204
		480	33.1	500	260
		450	31.0	600	316
		445	30.7	650	343

MAXIMUM ALLOWABLE PRESSURE DROP – ACTUATOR ⁽¹⁾⁽²⁾⁽³⁾ (TABLE X)

VALVE SIZE		ACTUATOR SIZE					
		15		25		50	
INCHES	DN	PSI	BAR	PSI	BAR	PSI	BAR
0.75	20	595	41.0				
1	25	470	32.4				
1.5	40	120	8.2	740	51.0		
2	50	120*	8.2*	590	40.6		
3	80			110**	7.5**	740	51.0
4	100					740	51.0

(1) Maximum allowable pressure drop based on full area trim, PTFE packing, air-to-open, flow over and air supply pressure of 60 PSI (4.1 Bar).

(2) For throttling applications, the actuator stiffness shall be considered. (3) Do not exceed the body rating.

* With 1.38" trim. ** With 1.80" trim

PACKINGS

THE G \bar{X} L PACKING BOX HAS A LARGE DEPTH AND AN EXCELLENT FINISH OF INTERNAL SURFACES WHICH PROVIDES A LONGER OPERATING LIFE FOR THE WHOLE PACKING SET. DUE TO ITS DESIGN CHARACTERISTICS, THE G \bar{X} L PACKING BOX ALLOWS THE USE OF A LARGE VARIETY OF PACKING SYSTEMS, FOR A BETTER COMPLIANCE WITH THE MOST STRINGENT STANDARDS CONCERNING FUGITIVE EMISSION CONTROL IN MODERN INDUSTRIAL PROCESSES.

STANDARD PACKING (FIGURE 9)

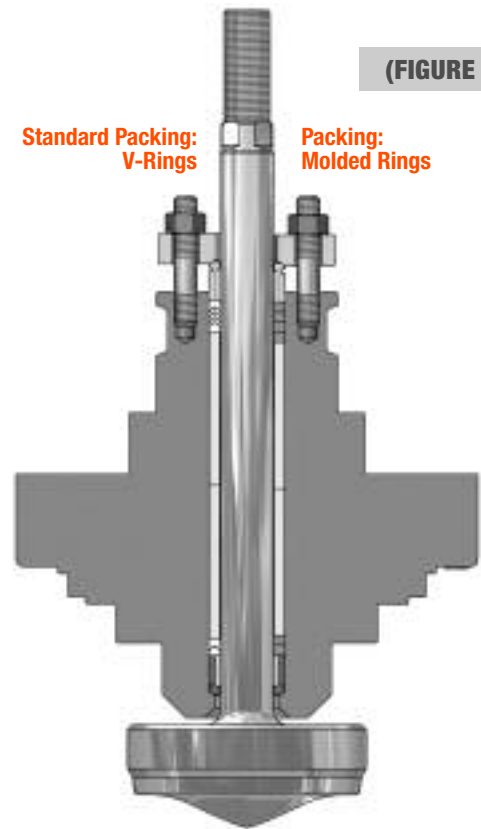
The standard packing of G \bar{X} L valves is comprised by PTFE V-Rings. The PTFE V-Rings have been the most largely used packing material for many years, with excellent tightness results. Its low friction characteristics, good mechanical strength and excellent corrosion resistance makes it the most commonly used material for stem and shaft sealing. The PTFE V-Rings are used in the G \bar{X} L valve with operating temperatures from -20 to 450 °F (-28 to 232 °C).

HIGH TEMPERATURE PACKING (FIGURE 9)

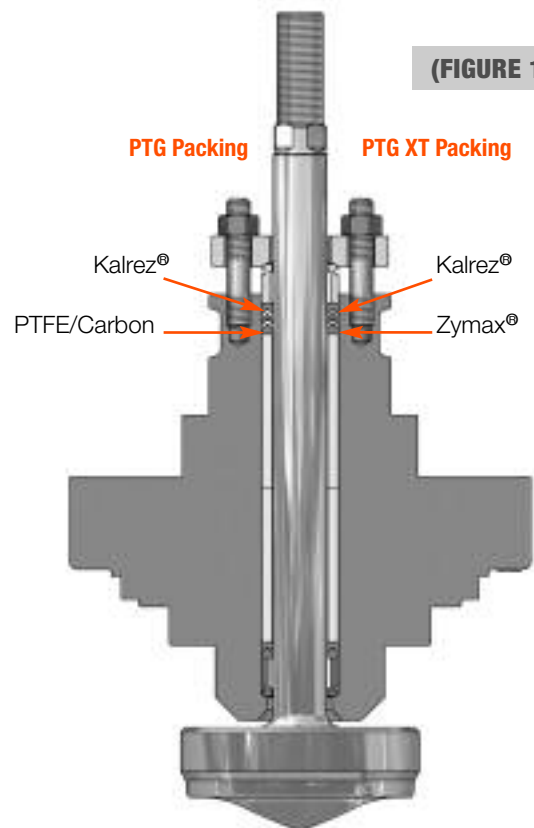
The G \bar{X} L valve packing with molded rings is an option for using when the operating temperature exceeds the limits of PTFE V-rings. The materials used for G \bar{X} L molded packings are braided PTFE for operating temperatures up to 500 °F (260 °C) and graphite for temperatures up to 650 °F (345 °C). The graphite molded rings packing is an excellent solution for high temperature applications. However, the high force requirements for its sealing causes a considerably friction increase in the valve stem, normally requiring bigger actuators.

SPECIAL PACKINGS (FIGURE 10)

The PTG packing type consists of an advanced set of rings able to maintain levels of emission much lower than 500 ppm (around 10 ppm). The PTG packing combines carbon filled PTFE V-Rings with Kalrez® V-rings, an advanced material which provides a superior packing performance. The PTG XT packing type is used for higher temperatures, up to 550 °F (288 °C). It uses Zymax® rings replacing the PTFE carbon rings.

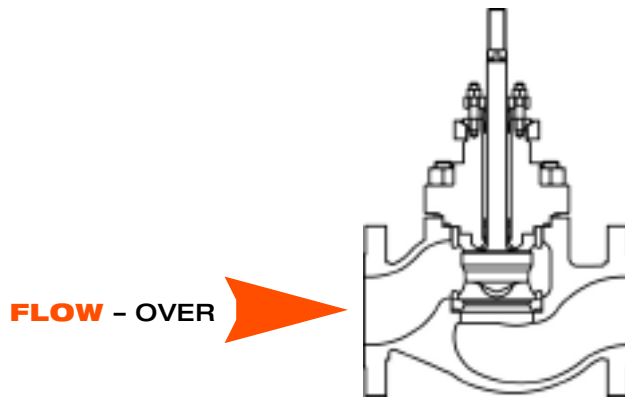


(FIGURE 9)



(FIGURE 10)

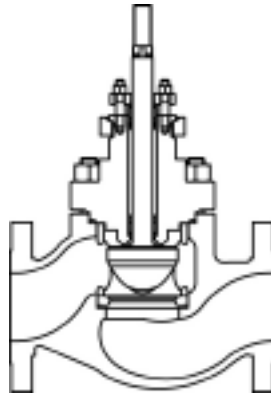
FLOW COEFFICIENTS



FLOW COEFFICIENTS (C_v) - EQUAL PERCENTAGE (TABLE XII)

VALVE SIZE (IN.)	TRIM SIZE (TN)	STROKE		C _v AT PERCENT OPEN									
		in.	mm	100	90	80	70	60	50	40	30	20	10
0.75 & 1	16 (0.63)	0.75	19.05	9.1	8.4	6.6	4.6	3.0	2.3	1.58	0.95	0.59	0.32
	13 (0.51)	0.75	19.05	6.7	6.1	4.8	3.2	2.0	1.60	1.02	0.65	0.39	0.25
	10 (0.38)	0.75	19.05	4.1	3.6	2.8	1.70	1.34	0.85	0.45	0.28	0.160	0.103
	8 (0.3)	0.75	19.05	2.3	2.0	1.26	0.94	0.68	0.45	0.24	0.155	0.116	0.071
	6.5-16 (0.25-16)	0.75	19.05	1.89	1.75	1.16	0.87	0.55	0.33	0.198	0.133	0.083	0.057
	6.5-14 (0.25-14)	0.75	19.05	1.19	1.17	0.89	0.59	0.35	0.22	0.122	0.081	0.048	0.022
	6.5-12 (0.25-12)	0.75	19.05	0.65	0.65	0.51	0.33	0.21	0.122	0.078	0.050	0.025	0.008
6.5-10 (0.25-10)	0.75	19.05	0.31	0.28	0.22	0.155	0.101	0.077	0.053	0.032	0.020	0.007	
1	21 (0.83)	0.75	19.05	14.7	13.4	10.6	7.6	4.6	3.1	2.7	1.99	1.52	1.00
	18 (0.71)	0.75	19.05	11.4	10.0	7.6	5.2	3.3	2.6	1.96	1.40	0.95	0.60
1.5	35 (1.38)	0.75	19.05	36	33	28	20	13.3	8.7	6.5	4.6	3.0	2.0
	27 (1.07)	0.75	19.05	19.9	18.0	15.1	11.3	7.4	4.7	3.4	2.5	1.63	1.10
	21 (0.83)	0.75	19.05	11.8	10.5	8.2	5.8	3.7	2.4	1.62	0.97	0.63	0.30
	18 (0.71)	0.75	19.05	9.9	8.7	6.8	4.8	3.1	2.0	1.35	0.81	0.53	0.25
	16 (0.63)	0.75	19.05	8.3	7.2	5.6	3.9	2.7	1.79	1.22	0.68	0.42	0.23
	13 (0.51)	0.75	19.05	6.0	5.2	4.0	2.9	1.95	1.30	0.88	0.49	0.31	0.169
	10 (0.38)	0.75	19.05	3.6	2.8	1.89	1.39	1.21	0.85	0.57	0.30	0.178	0.107
8 (0.30)	0.75	19.05	1.99	1.55	1.06	0.78	0.68	0.48	0.32	0.166	0.100	0.060	
2	46 (1.80)	0.75	19.05	48	43	35	26	16.9	11.8	9.4	6.2	4.0	2.7
	35 (1.38)	0.75	19.05	35	31	25	18.0	11.6	7.5	5.9	4.1	2.6	1.76
	27 (1.07)	0.75	19.05	21	18.6	15.4	11.3	7.5	4.7	3.3	2.5	1.59	1.07
	21 (0.83)	0.75	19.05	13.1	11.8	9.4	6.7	4.2	2.7	2.1	1.40	0.90	0.62
	18 (0.71)	0.75	19.05	9.4	8.4	6.5	4.5	2.8	2.1	1.50	0.93	0.55	0.33
3	72 (2.83)	1.50	38.10	117	106	95	85	67	43	25	18.1	11.4	6.5
	56 (2.20)	1.50	38.10	84	78	71	59	43	26	14.3	9.4	6.8	4.0
	46 (1.80)	1.50	38.10	62	54	43	28	18.7	12.4	9.9	6.7	4.3	3.0
4	94 (3.70)	1.50	38.10	185	174	159	134	99	59	36	27	20	13.3
	72 (2.83)	1.50	38.10	142	132	119	95	67	42	26	17.5	12.2	7.9
	56 (2.20)	1.50	38.10	101	93	80	61	39	23	14.5	11.3	7.2	4.5

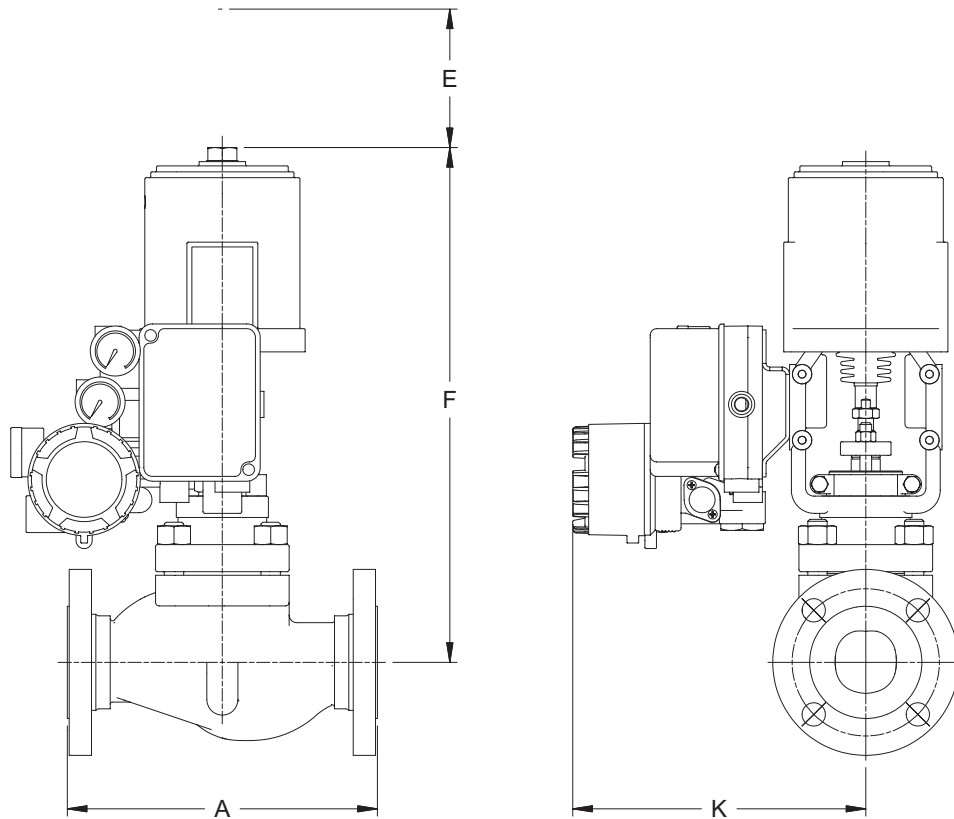
FLOW - OVER



FLOW COEFFICIENTS (C_V) - LINEAR (TABLE XI)

VALVE SIZE (IN.)	TRIM SIZE (TN)	STROKE		C _V AT PERCENT OPEN									
		in	mm.	100	90	80	70	60	50	40	30	20	10
0.75 & 1	16 (0.63)	0.75	19.05	9.4	9.2	8.8	8.5	7.9	6.4	5.1	3.9	2.5	1.34
	13 (0.51)	0.75	19.05	7.6	7.3	6.7	6.1	5.3	4.4	3.6	2.6	1.85	0.82
	10 (0.38)	0.75	19.05	4.6	4.5	4.3	3.7	3.3	2.9	2.2	1.74	1.13	0.52
	8 (0.3)	0.75	19.05	2.4	2.3	2.1	1.89	1.73	1.46	1.13	0.87	0.57	0.29
	6.5-58 (0.25-58)	0.75	19.05	1.87	1.84	1.79	1.60	1.38	1.17	0.92	0.66	0.42	0.176
	6.5-56 (0.25-56)	0.75	19.05	1.45	1.36	1.22	1.11	0.95	0.82	0.68	0.50	0.35	0.189
	6.5-46 (0.25-46)	0.75	19.05	0.49	0.47	0.43	0.38	0.31	0.26	0.21	0.149	0.092	0.050
	6.5-42 (0.25-42)	0.75	19.05	0.30	0.27	0.25	0.22	0.191	0.164	0.134	0.101	0.068	0.035
	6.5-34 (0.25-34)	0.75	19.05	0.150	0.140	0.120	0.110	0.098	0.085	0.072	0.059	0.046	0.032
	6.5-26 (0.25-26)	0.75	19.05	0.053	0.045	0.038	0.031	0.025	0.019	0.013	0.008	0.004	0.001
6.5-12 (0.25-12)	0.75	19.05	0.014	0.012	0.010	0.008	0.006	0.005	0.003	0.002	0.001	0.000	
1	21 (0.83)	0.75	19.05	17.4	16.8	16.1	15.1	13.5	10.8	8.3	6.1	3.6	1.87
	18 (0.71)	0.75	19.05	13.4	13.0	12.2	10.8	9.0	7.3	5.7	4.3	2.7	1.22
1.5	35 (1.38)	0.75	19.05	32	31	29	26	24	20	16.5	12.6	8.2	3.8
	27 (1.07)	0.75	19.05	23	23	21	19.7	17.6	15.1	12.3	9.3	6.0	2.8
	21 (0.83)	0.75	19.05	16.1	15.7	15.0	13.9	12.3	10.4	8.3	6.2	4.0	2.1
	18 (0.71)	0.75	19.05	12.1	11.6	10.7	9.1	7.7	6.2	4.9	3.8	2.4	1.31
	16 (0.63)	0.75	19.05	10.9	10.5	9.6	8.2	7.0	5.6	4.5	3.5	2.2	1.18
	13 (0.51)	0.75	19.05	7.5	7.4	6.5	5.6	5.0	4.4	3.6	2.8	1.92	0.96
	10 (0.38)	0.75	19.05	4.6	4.5	4.0	3.5	3.0	2.7	2.2	1.70	1.17	0.59
	8 (0.30)	0.75	19.05	2.4	2.3	2.1	1.90	1.75	1.48	1.22	0.93	0.61	0.28
2	46 (1.80)	0.75	19.05	54	52	49	46	41	35	28	21	13.4	6.2
	35 (1.38)	0.75	19.05	36	34	32	30	26	23	17.9	13.4	8.6	4.2
	27 (1.07)	0.75	19.05	25	24	23	21	18.8	15.9	12.7	9.4	6.0	2.8
	21 (0.83)	0.75	19.05	16.7	16.1	15.3	14.0	12.4	10.4	8.3	6.2	4.0	2.1
	18 (0.71)	0.75	19.05	11.9	11.4	10.5	8.9	7.6	6.2	4.9	3.8	2.4	1.29
3	72 (2.83)	1.50	38.10	126	123	120	114	106	90	77	61	41	19.0
	56 (2.20)	1.50	38.10	84	82	77	73	66	57	47	35	23	13.5
	46 (1.80)	1.50	38.10	64	61	57	52	46	38	30	23	15.3	7.2
4	94 (3.70)	1.50	38.10	203	193	185	173	161	139	107	70	32	16.8
	72 (2.83)	1.50	38.10	146	142	134	123	110	93	74	53	35	17
	56 (2.20)	1.50	38.10	115	106	97	87	76	65	53	40	27	13.7

DIMENSIONS - VALVE WITH ACTUATOR AND HPP1500 POSITIONER



DIMENSIONS (TABLE XIII)

Valve Size (inches)	A				F						K**						E*	
	ANSI Class				Actuator size						Actuator size						Clearance Required for disassembly	
	150		300		15		25		50		15		25		50			
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm		
0.75	7.3	184	7.6	194	16.1	410					9.4	240					3.8	97
1	7.3	184	7.8	197	16.1	410					9.4	240					3.8	97
1.5	8.8	222	9.3	235	16.5	420	17.5	445			9.4	240					6.0	152
2	10.0	254	10.5	267	16.5	420	17.5	445			9.4	240	9.8	250			6.0	152
3	11.8	298	12.5	318			20.4	518	23.5	597			10.6	268	11.1	281	8.0	203
4	13.9	353	14.5	368					24.7	628					11.1	281	8.0	203

*Free space required to disassembly the standard actuator. ** For pneumatic HPP1500 positioner, deduct 2.4 in. (61 mm) from dimension K

Quality Management System



ISO 9001-2000

Certificate No. 311001 QM

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