GXL®

GLOBE
CONTROL VALVE

VALTEK™ SULAMERICANA

GXL® Globe Control Valve

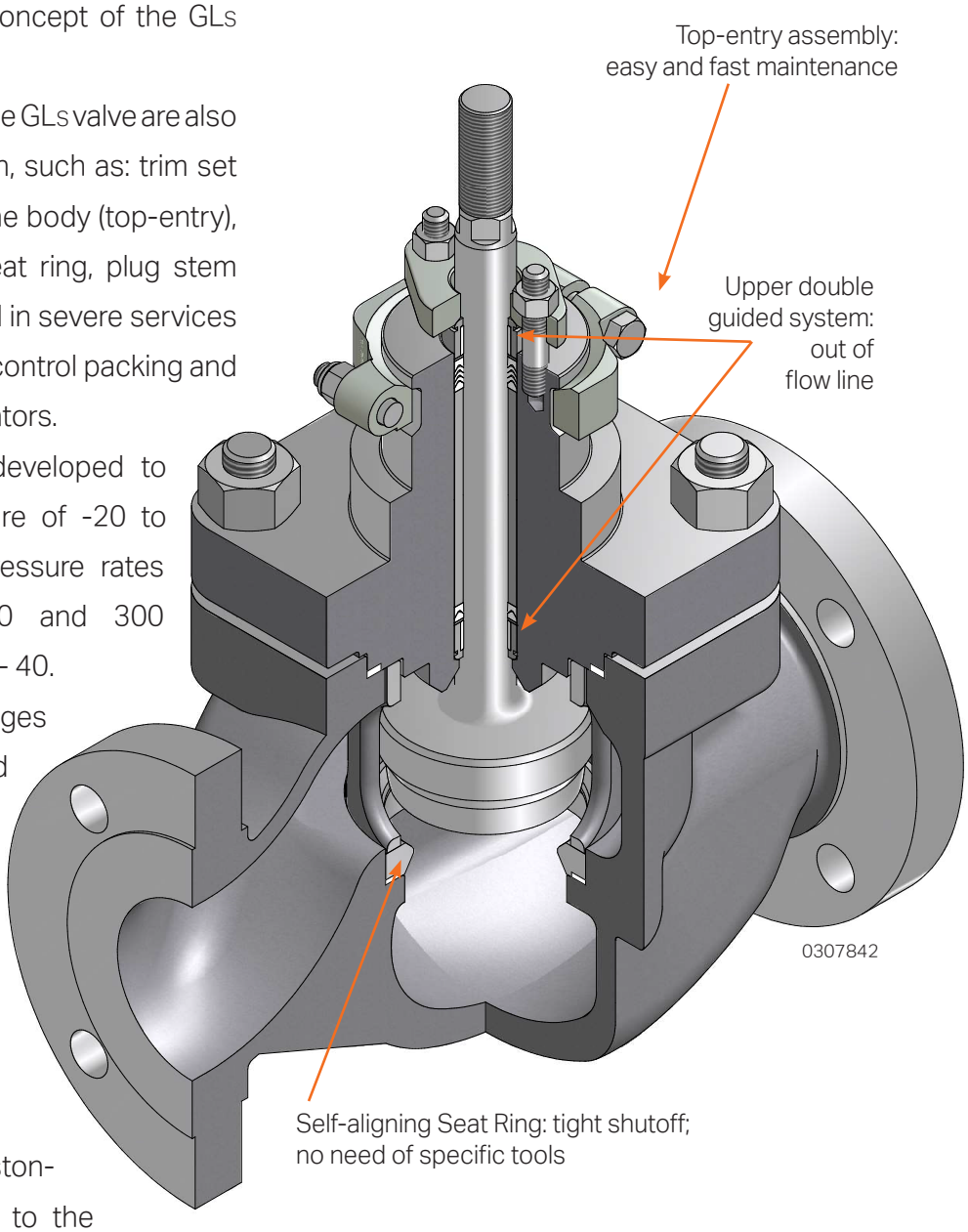
The GXL globe control valve was designed as a simpler, lighter and more economic alternative to the well known and modern concept of the GLS globe valve of ValtekSul.

Many of the main attributes of the GLS valve are also present at the GXL valve design, such as: trim set assembly through the top of the body (top-entry), selfaligning plug-orientated seat ring, plug stem guides similar to the ones used in severe services GLS valves, fugitive emissions control packing and the use of piston cylinder actuators.

The GXL control valve was developed to operate with fluids temperature of -20 to 650°F (-29 to 345°C) and pressure rates corresponding to ANSI 150 and 300 pressure classes or DIN PN 16 - 40.

Manufactured with integral flanges of 1/2 to 4 inches diameter and carbon steel or stainless steel bodies, the GXL valve offers various options of trim sizes and materials, permitting its use in diverse applications of fluid control in industrial processes.

The employment of piston-cylinder actuators in addition to the analogical or digital positioners selection of ValtekSul establish the GXL as the best option in the market when considering a globe valve that is simple, compact, economic and with a long service life.

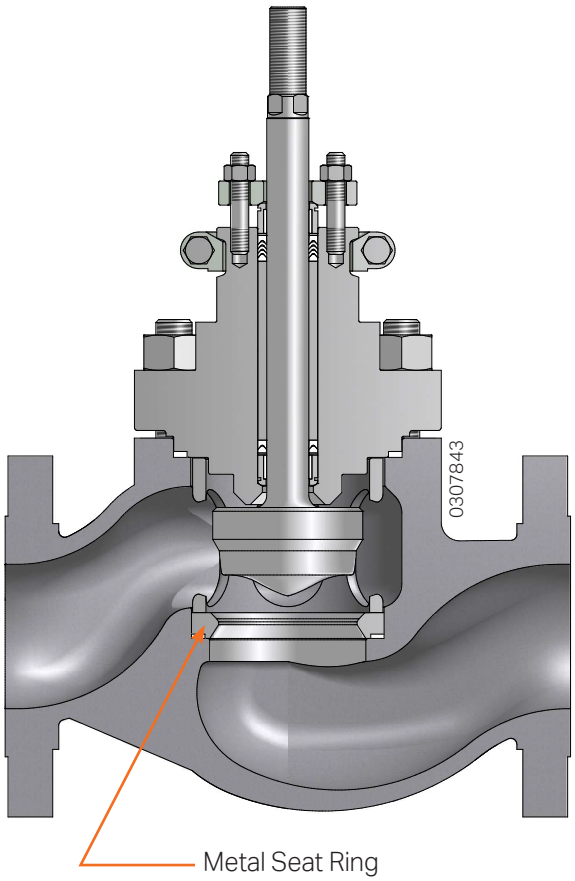


GXL Series – Body Subassembly

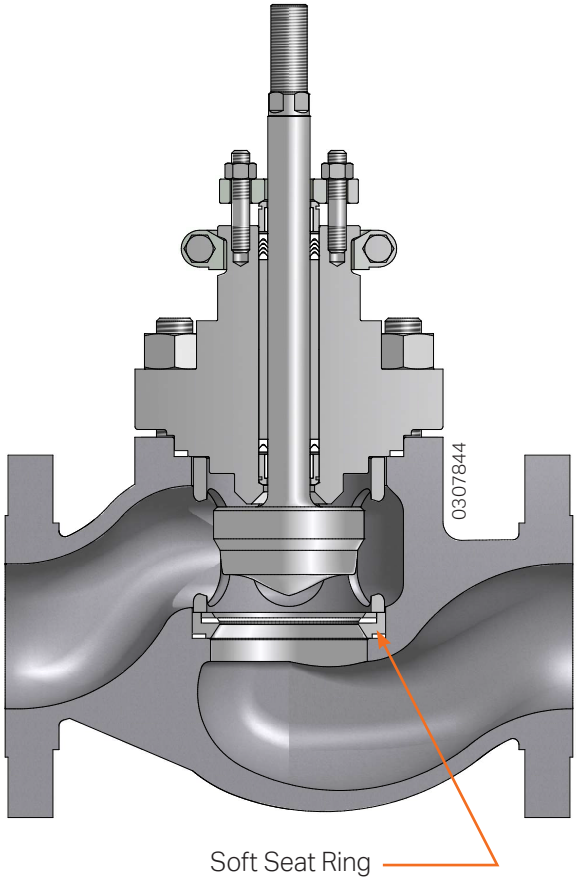
Typical Rangeability 30:1

ANSI Classe IV Tightness — Metal Seat Ring
ANSI Classe VI Tightness — Soft Seat Ring

GXL Control Valve Assembly/Characteristics



Metal Seat Ring Trims



Soft Seat Ring Trims

Reliability

Adopting many of the attributes of the severe services valves produced by ValtekSul, the GXL valve has reduced dimensions, which facilitates its employment in equipments or installations with limited space.

GXL trims set, designed with generous dimensions, provides bigger C_V´s than the C_V´s achieved in globe valves of other manufacturers. The trims assembly is performed through the top of the body (top-entry) and the seat ring is plug-orientated, assuring perfect positioning and high shutoff, without the need of lapping. The seat ring removal is a simple task, even in corrosive processes, and do not require specific tools.

The plug is manufactured as an unique piece and is orientated by an upper double guided advanced system, placed out of the flow line, which avoids in this way the typical valve problems concerning plugs guided by seat retainer.

The bonnet and seat ring are fitted in the body with an uniform and fully retained gasket system, which eliminates leaks and do not require special care with the tightening torque.

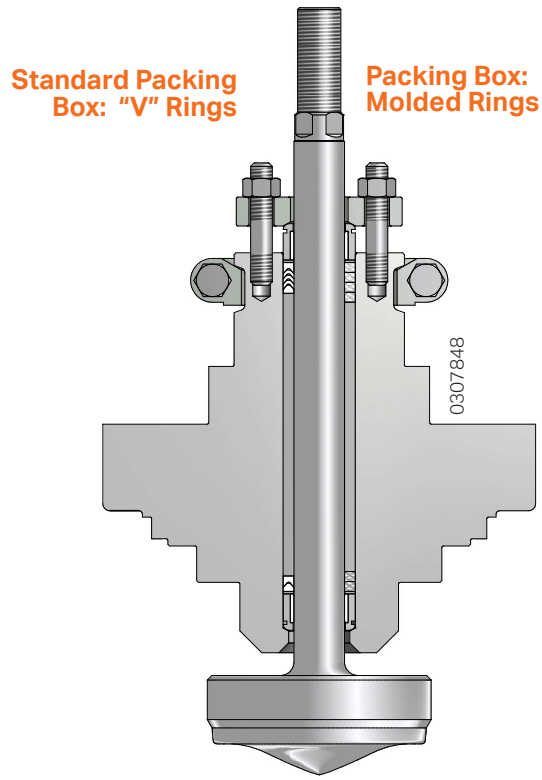
The great depth of the packing box permits the use of a variety of packing options, in accordance to EPA´s* requirements. The GXL valve contains a wide range of trims to answer to diverse flow rates. These characteristics in addition to the piston-cylinder actuators (with a lifespan of over a million cycles) and high performance Chronos digital positioners (providing an accurate control of the process) result in a modern valve, of advanced design and long service life.

Low cost and great operational performance, the GXL valve provides precise fluid control in the most advanced industrial processes.

*EPA = U. S. Environmental Protection Agency

GXL Control Valve Packing Box

THE GXL VALVE PACKING BOX IS VERY DEEP AND PRESENTS PERFECT SUPERFICIAL FINISHING, PROVIDING LONGER LIFESPAN FOR ALL PACKING SET.
THE PACKING BOX DESIGN PERMITS THE USE OF A VARIETY OF PACKING SYSTEMS, ATTENDING TO THE MOST DEMANDING STANDARDS FOR FUGITIVE EMISSIONS IN MODERN INDUSTRIAL PROCESSES.

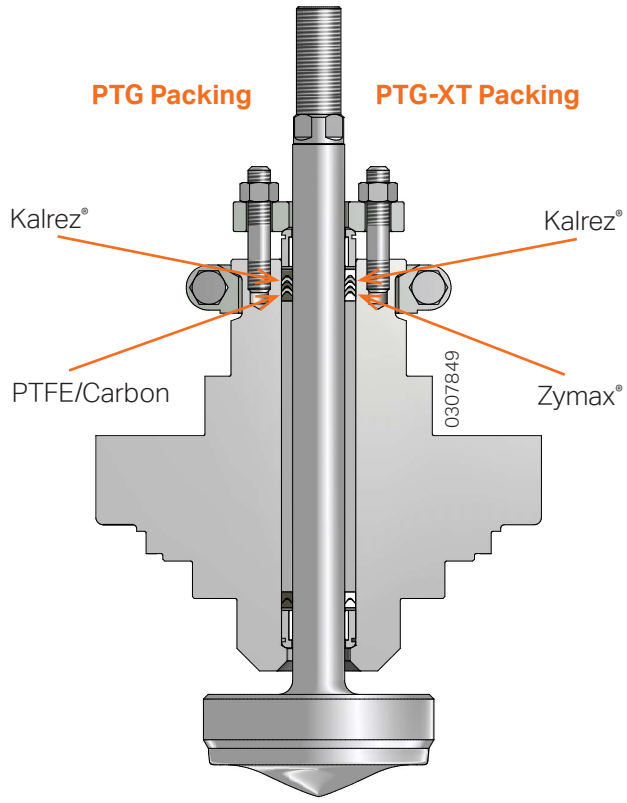


Standard Packing Box

The standard packing box of the GXL valve is formed by PTFE "V" rings. The PTFE "V" rings represent the most used packing system for years, with excellent tightness results. They present lower friction coefficient, good mechanical resistance and excellent corrosion resistance, what makes them the most usual material employed for packing sets. At the GXL valve, the PTFE "V" rings are used on temperature services of -20 to 450°F (-29 to 232°C).

High Temperatures Packing Box

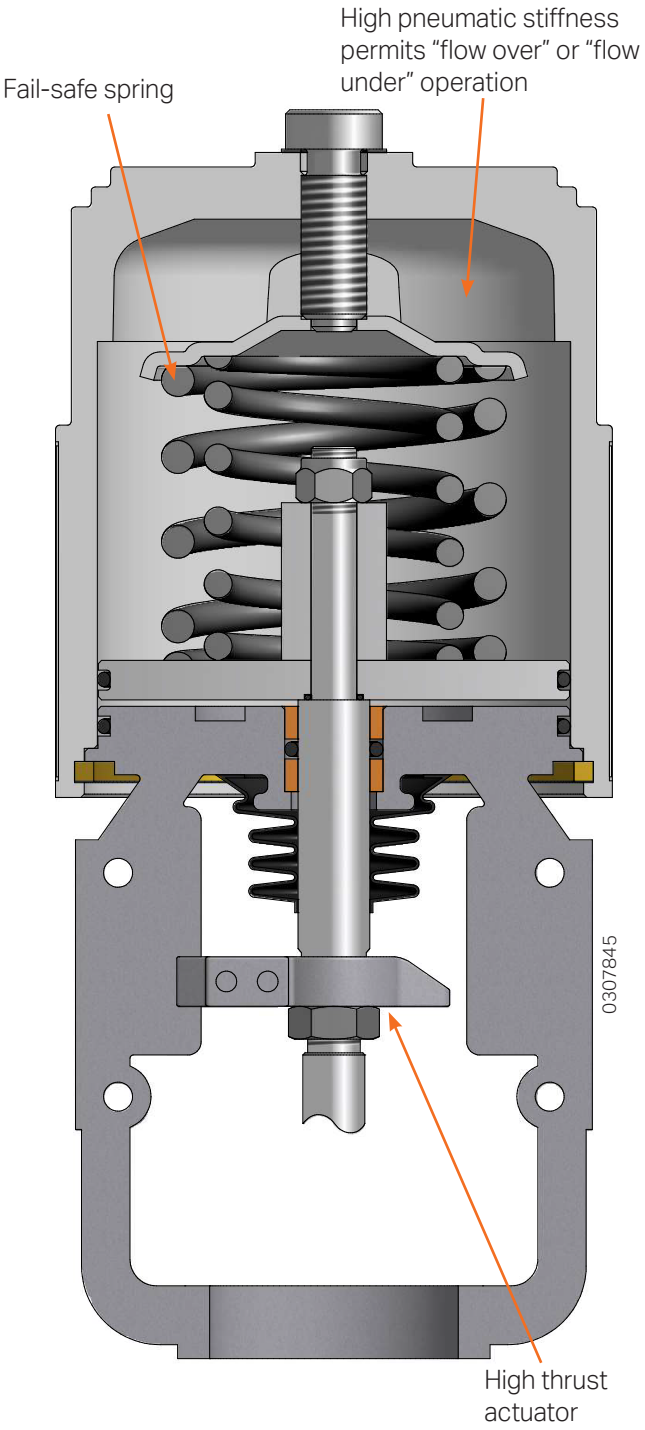
The GXL valve packing box with molded rings is an alternative when the service temperature exceeds the limits for PTFE "V" rings use. The materials employed at the GXL molded rings are the braided PTFE, for use in temperatures of up to 500°F (260°C), and the graphite, for temperatures of up to 650°F (345°C).
The packing box with graphite molded rings is an excellent solution for high temperature use. However, the great power required for its shutoff provokes a substantial increase in friction at the valve stem, demanding bigger actuators.



Special Packing Box

The PTG packing is formed by a modern packing box that is able to keep the tightness level well under 500 ppm (around 10 ppm). The PTG packing is formed by a combination of PTFE "V" rings with carbon fiber and Kalrez® "V" rings, an advanced material that provides superior packing performance.
For temperatures above 450°F (232°C), the PTG-XT is employed, it contains Zymax® rings in the place of carbon PTFE rings.

GXL Control Valve
Actuators, Specifications



Linear Actuator, LA-XL Series

High interchangeability - Reduces the need of spare parts.

Compact and light design - Facilitates handling and occupies less space.

Actuators

The piston-cylinder linear actuators with LA-XL Series failsafe spring are characterized by high performance, actuator power and great control response. Designed to operate with supply pressure of up to 150 psi (10.3 bar), they are provided with inner springs for air failure action and are field reversible, for either Air-to-Open or Air-to-Close, without the need of additional parts. The positioner directs air to both cylinder chambers simultaneously, maintaining exceptional stiffness. This pneumatic stiffness of the piston-cylinder actuator is incomparable when a precise control of the valve is required, even in positions close to shutdown.

The piston-cylinder actuators present various advantages in relation to traditional diaphragm actuators, such as: High frequency response; Dynamic positioning response due to the air in both sides of the piston; Great actuator thrust due to the use of air pressure of up to 150 psi (10.3 bar); Compact, light, easy maintenance and high durability; No use of diaphragms bound to fatigue and/or rupture.

Actuator Specifications

Type	▪ Double-acting piston-cylinder with fail-safe spring. ▪ Field reversible
Sizes	15, 25, 50
Action	▪ Air-to-Open ▪ Air-to-Close ▪ Fixed at last position
Supplier Pressure	Maximum 150 psi Maximum 10.3 Bar
Service Temperature	-40˚ to 350˚F (-40˚ to 175˚C)
Positioner	▪ Chronos Digital
Auxiliary handwheels	Top mounted

GXL Control Valve
Chronos Digital Positioner

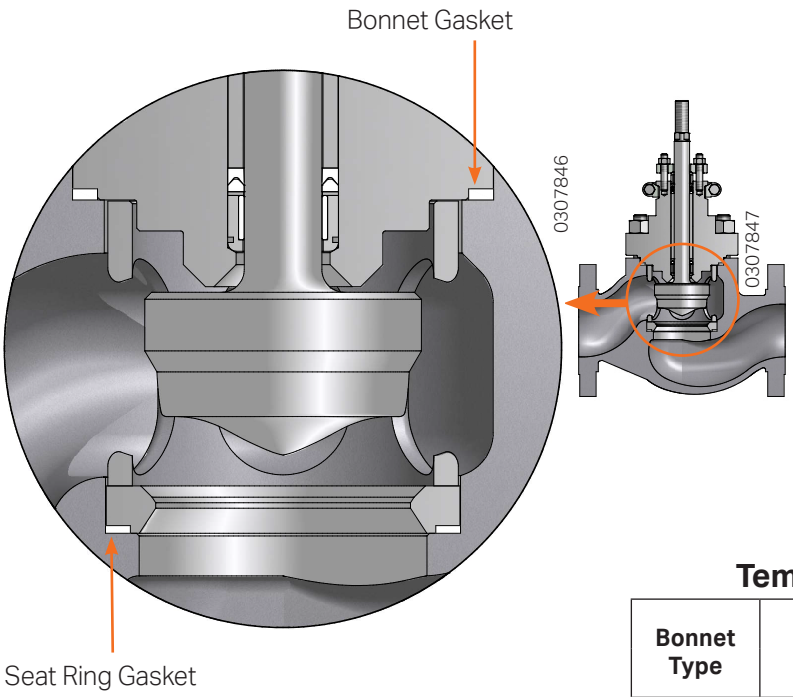
Interface LCD

The Chronos IDP7600 positioners are digital-pneumatic devices using microprocessor technology and the HART® protocol, which allows remote communication. The two wire power supply made by the control loop itself significantly contribute for costing reductions at the electrical installation.
The advanced technology provided by the two-stage relay and microprocessor guarantees high responsiveness and precise control. The Chronos IDP7600 offers a local PID algorithm with ultra-fast loop execution time: less process instability means better quality of the final product and more productivity. Reliability, intuitive use and quick set-up and calibration make the Chronos IDP7600 the most functional and advanced HART ® positioner on the market.

Local Interface

The interface of the IDP7600 Chronos positioner is comprised of a multilingual large graphical LCD display, with a backlight that allows the visualization of messages even in low-lit areas of the plant. A trio of bright LEDs (green, yellow and red) complements the information provided in the display and permits that the operating alerts are seen even from a distance. The valve status can be observed locally at a glance and are presented in plain language that does not require decoding. Practically all menu items can be accessed using the four buttons in the interface, with the positioner main cover closed and without the need of a portable calibrator or a laptop.

GXL Control Valve Manufacturing - Materials



Seat Ring and Bonnet Gaskets

The GXL globe valve for general services was designed with the bonnet and the seat ring gaskets fully retained. The valve bonnet has a step that acts as mechanic stop and limits gasket compression.
In this way, the bonnet gasket remains completely sealed and its compression is determined by the step depth on the bonnet. The body, seat retainer and seat ring are all machined with close tolerances to provide proper gasket compression. Unlike the bonnet, the seat ring does not directly touch the body (metal-to-metal), allowing this small clearance to compensate for manufacturing tolerances and thermal expansion.

Body Specifications

Type	Globe - Simple Seat Ring
Nominal Diameter	0.50; 0.75; 1; 1.5; 2; 3; 4 (in.) DN 15; 20; 25; 40; 50; 80; 100
Pressure Class	ANSI Class 150-300 DIN PN 16-40
Connections	Integral Flanges Socketweld Connections* Screwed (NPT)*
Flange Finishing	Standard 125-250 Ra Optional: 250-500 Ra
Face-to-Face Dimension	ANSI/ISA S75.08.01
Bonnet	Plain
Sealing	ANSI Class IV with Metal Seat ANSI Class VI with Soft Seat
Flow Characteristics	Linear Equal Percentage Quick-Open

* Diameters of 0. 50 to 2 in. ** Asbestos free.

Temperature Limits for Packing

Bonnet Type	Packing Type	Temperature	
		˚F	˚C
Plain	PTFE "V" Rings	-20 to 450	-29 to 232
	Braided PTFE	-20 to 500	-29 to 260
	Graphite	-20 to 650	-29 to 345
	PTG	-20 to 450	-29 to 232
	PTG XT	-20 to 550	-29 to 288

Temperature Limits Seat Ring and Bonnet Gaskets

Gasket Type	Material	Temperature Limits	
		˚F	˚C
Flat	PTFE	350	176
Spiral- wound	316L/AFG**	650	345

Temperature Limits for Lining / Guides

Materials Guide/Lining	Max. Temperature		Maximum Pressure
	˚F	˚C	
Stainless Steel/PTFEG	300	150	6,9 Bar @ 150˚ C*
Stainless Steel/Graphite	650	345	Same as body
Bronze	500	260	Same as body

* Check the pressure/temperature guide at the Valve Sizing catalogue of ValtekSul

GXL Control Valve
Specifications - Materials

Standard Manufacturing Materials
Carbon Steel Subassembly

Component	Material Classification	Specifications		
		ASTM Code	UNS Code	Hardness R_c
Body	Cast Carbon Steel	A 216 WCC	J 03002	
Bonnet	Cast Carbon Steel	A 216 WCC	J 03002	
Plug	316 Barstock	A 479 Gr 316	S 31600	8
	420 Barstock	A 276 Gr 420	S 42000	38-45
	316/Alloy #6*	A479 Gr 316/AMS 5387	S 31600/R 30006	40-42
Metal Seat Ring	316 Barstock	A 479 Gr 316	S 31600	8
	420 Barstock	A 276 Gr 420	S 42000	38-45
	316/Alloy #6*	A479 Gr 316/AMS 5387	S 31600/R 30006	40-42
Soft Seat Ring	316 Barstock / PTFE	A 479 Gr 316	S 31600	
Seat Retainer	316 Cast	A 351 Gr CF8M	J 92900	
Packing Flange	316 Cast	A 351 Gr CF8M	J 92900	
Gland Flange	316 Barstock	A 479 Gr 316	S 31600	
Packing Spacer	316 Barstock	A 479 Gr 316	S 31600	

Standard Manufacturing Materials
Stainless Steel Subassembly

Component	Material Classification	Specifications		
		ASTM Code	UNS Code	Hardness R_c
Body	316 Cast	A 351 CF8M	J 92900	
Bonnet	316 Cast	A 351 CF8M	J 92900	
Plug	316 Barstock	A 479 Gr 316	S 31600	8
	17-4 PH	A 564 Gr 630	S 17400	35
	316/Alloy #6*	A479 Gr 316/AMS 5387	S 31600/R 30006	40-42
Metal Seat Ring	316 Barstock	A 479 Gr 316	S 31600	8
	17-4 PH	A 564 Gr 630	S 17400	35
	316/Alloy #6*	A479 Gr 316/AMS 5387	S 31600/R 30006	40-42
Soft Seat Ring	316 // PTFE	A 479 Gr 316	S 31600	
Seat Retainer	316 Cast	A 351 CF8M	J 92900	
Packing Flange	316 Cast	A 351 CF8M	J 92900	
Gland Flange	316 Barstock	A 479 Gr 316	S 31600	
Packing Spacer	316 Barstock	A 479 Gr 316	S 31600	

* Valves with nominal diameter of 0.50 to 2 in.: Plug and seat ring in solid Alloy #6, investment casting
Valves with diameter of 3 to 4 in.: Seat ring in solid Alloy #6 and plug in stainless steel with Alloy #6 coating

GXL Control Valve
Specifications - Materials

Body Pressure and Temperature Limits – ANSI B 16.34

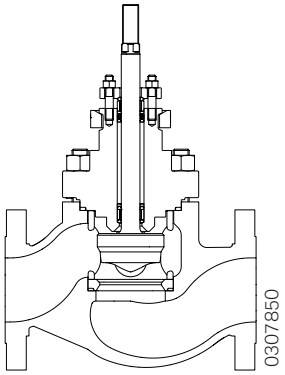
Material	End Class	Pressure		Temperature	
		PSI	Bar	˚F	˚C
Carbon Steel ASTM A 216 Gr. WCC	**ANSI 150**	287	19.8	-20 to 100	-29 to 38
		257	17.7	212	100
		217	15.8	302	150
		200	13.8	392	200
		175	12.1	482	250
		148	10.2	572	300
		120	8.3	650	345
	ANSI 300	750	51.7	-20 to 100	-29 to 38
		747	51.5	212	100
		728	50.2	302	150
		705	48.6	392	200
		671	46.3	482	250
		622	42.9	572	300
		580	40.0	650	345
Stainless Steel ASTM A 351 Gr. CF8M	**ANSI 150**	275	19.0	-20 to 100	-29 to 38
		235	16.2	212	100
		215	14.8	302	150
		199	13.7	392	200
		175	12.1	482	250
		148	10.2	572	300
		120	8.3	650	345
	ANSI 300	719	49.6	-20 to 100	-29 to 38
		612	42.2	212	100
		558	38.5	302	150
		518	35.7	392	200
		484	33.4	482	250
		458	31.6	572	300
		438	30.2	650	345

Maximum Differential Pressures [1][2][3]

Valve Nominal Diameter		Actuator Size					
		15		25		50	
In.	**DN**	PSI	Bar	PSI	Bar	PSI	Bar
0.50 & 0.75	20	595	41.0				
1.0	25	470	32.4				
1.5	40	120	8.2	740	51.0		
2.0	50	120*	8.2*	590	40.6		
3.0	80			110**	7.5**	740	51.0
4.0	100					740	51.0

[1] Maximum differential pressure based on full area trims, PTFE packing, air-to-open setting, flow over and air pressure supply of 60 PSI (4.1 Bar).
[2] For throttling control applications, the actuator stiffness must be considered.
[3] Do not exceed the valve pressure class limits.
* With 1.38" trim. **With 1.80" trim

GXL Control Valve
Flow Coefficients: C_V

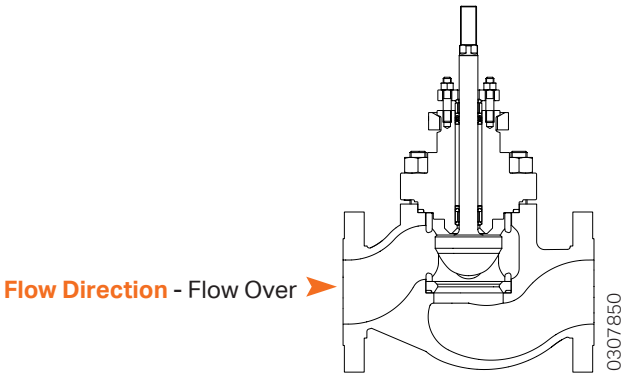


Flow Coefficient (C_v) - Equal Percentage

Valve Nominal Diameter (in.)	Nominal Trims Size T.N.	Stroke		Opening Percentage									
		in.	mm	100	90	80	70	60	50	40	30	20	10
0.50 (1) & 0.75 (1) & 1.0	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 (0.30)	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
1.0	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
2.0	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
3.0	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
4.0	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

(1) For valves with nominal diameter of 0.5 in., the largest trim size available is T/N 13 (0.51)
(2) For valves with nominal diameter of 0.75 in., the largest trim size available is T/N 16 (0.63)
(3) For further information on flow coefficients (C_v) consult www.literature.valteksul.com

GXL Control Valve
Flow Coefficients: C_V

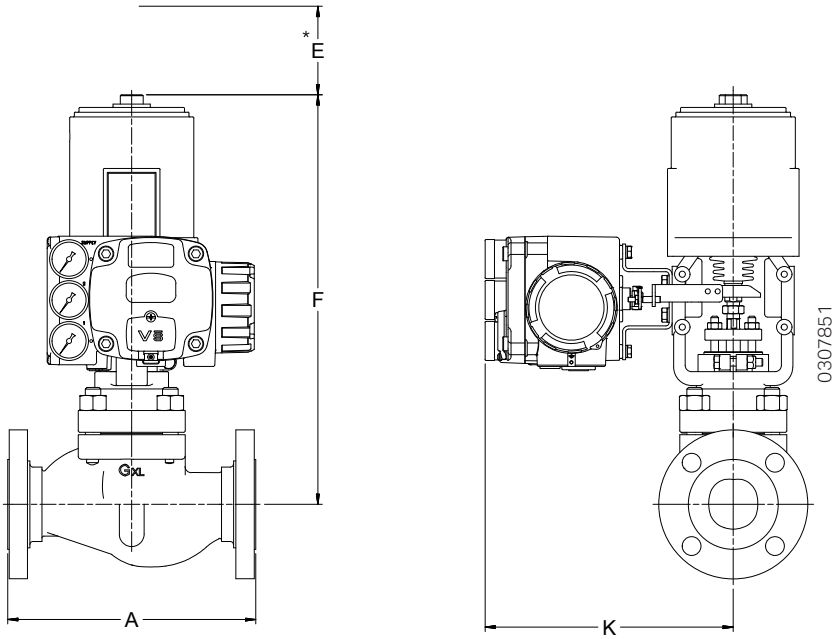


Flow Coefficient (C_v) - Linear

Valve Nominal Diameter (in.)	Nominal Trims Size T.N.	Stroke		Opening Percentage									
		in.	mm	100	90	80	70	60	50	40	30	20	10
0.50 (1) & 0.75 (1) & 1.0	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 (0,30)	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
1.0	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
2.0	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
3.0	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
4.0	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	17.0
	56 (2.20)	1.50	38.10	115	106	97	87	76	65	53	40	27	13.7

(1) For valves with nominal diameter of 0.5 in., the largest trim size available is T/N 13 (0.51)
(2) For valves with nominal diameter of 0.75 in., the largest trim size available is T/N 16 (0.63)
(3) For further information on flow coefficients (C_v) consult www.literature.valteksul.com

GXL Control Valve
Dimensions - Valves with Actuator and Chronos Positioner



Dimensions

Valve Nominal Diameter (in.)	A				F						K						E*	
	ANSI Standard				Actuator Size						Actuator Size						Clearance for Disassembly	
	150		300		15		25		50		15		25		50			
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
1/2 & 3/4	184	7.3	194	7.6	410	16.1					175	6.9					97	3.8
1.0	184	7.3	197	7.8	410	16.1					175	6.9					97	3.8
1.5	222	8.8	235	9.3	420	16.5					175	6.9					152	6.0
2.0	254	10.0	267	10.5	420	16.5	445	17.5			175	6.9	203	8.0			152	6.0
3.0	298	11.8	318	12.5			518	20.4	597	23.5			203	8.0	206	8.1	203	8.0
4.0	353	13.9	368	14.5					628	24.7					206	8.1	203	8.0

* Clear space for disassembly of standard actuator. ** For HPP2000 pneumatic positioner, reduce 6mm of K dimension.

The information and specifications contained in this literature are considered accurate. However, they are supplied for informative purposes and should not be considered certified. The products of Valtek Sulamericana are continually being improved and the specifications, dimensions and information contained in this catalogue are subject to change without notice. For additional information, please consult your Valtek Sulamericana representative. Specific assembly, operation and maintenance instructions for GXL Control Valves can be found at the Maintenance Catalogue nº 02.

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