

Gx̄L° Control Valve

Body Sub-assembly

02



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1.1 - GENERAL INFORMATION

The following instructions are designed to assist in the installation, operation and maintenance of $G\overline{XL}$ globe control valves, as necessary.

Users and maintenance personnel should read this bulletin carefully before the installation, operation or servicing of the valve, actuator, positioner or any other accessory installed on the valve.



WARNING

If it is necessary to store the products before field installation, Valtek Sulamericana recommends that valves be stored in dry, fresh, closed places. Do not store valves in places where relative humidity is higher than 85% or the room temperature is lower than 41°F or higher than 113°F (5-45°C). Environments containing excessive UV radiation, acid or alkaline mist or ozone sources must be avoided.

Product storage in non-recommended places may void the manufacturer warranty.

1.2 - UNPACKING

- When removing the valve from its package, check the packing list or the valve datasheet, comparing it with the received material. A specification sheet of the valve and assembled accessories is shipped inside each shipping container.
- ⊃ When lifting the valve from shipping container, position the lifting straps properly in order to avoid damages to the valve tubings and accessories assembled in the valve. The Gx̄L valves may be lifted by the lifting rings provided on the top of the actuators. In case there is no lifting ring provided, lift the valve using straps attached to the voke legs.
- In case of damages during transport, immediately contact the shipper.
- ⊃ In case of any problem, call your Valtek Sulamericana representative.

1.3 - IDENTIFICATION

All $G\overline{x}L$ valves have a stainless steel name plate (see Fig. 1). The name plate provides the following data:

VALTEK™	G⊼L –	- GLOBE
SULAMERICANA CONTROL VALVES	SIZE CL	TN
BODY	_ TRIM	CV
AIR TO	_ CHAR	SIGNAL
TAG	S/N	9315102

Figure 1 - Name Plate

• SIZE: Valve size in inches

• CL: Body rating (ANSI)

• TN.: Trim size

BODY: Body materialTRIM: Trim material

CV: Rated Cv

• AIR TO: Air action (open/close)

• CHAR.: Flow characteristic

• SIGNAL: Instrument signal range

• TAG: Customer identification

• S/N: Serial number



1.4 - SAFETY WARNINGS

To avoid potential injury and/or damage to the valve parts, WARNING and CAUTION notes must be strictly observed. Changing this product characteristics, using non-original spare parts or using maintenance procedures different from those presented herein may affect the performance of the valve, be hazardous to personnel and equipment and may void the manufacturer warranty.



WARNING

Standard industry safety practices must be applied when using this equipment. Industry safety standards for personal protection and for equipment handling must also be observed.



CAUTION

Removing the valve for maintenance: Piping must be completely depressurized and process fluid drained. In case of toxic, caustic or hazardous fluid services, the valve must be decontaminated to avoid accidents.



WARNING

It is the user responsibility the proper material selection of the fasteners ne-

GXL Valve ————(2)



cessary to install the valve in the process. User will take into account the material strength and its resistance to stress corrosion cracking.

As with any mechanical equipment, periodic inspection and maintenance is required.

1.5 - INSTALLATION

- ⊃ Before installing the valve, clean the piping to remove contaminants, scales and other foreign materials. Clean the flange gasket surfaces to assure that there is no leakage.
- ⊃ Whenever possible, the valve should be installed in an upright position. Vertical installation allows easier maintenance service. Make sure that there is enough clearance over the actuator to allow the disassembly of the actuator from the valve body. Refer to Table I to find the necessary clearance to disassemble the actuator.

Table I: Free space necessary to disassemble the actuator

Valve Size	Clear	ance
(in.)	in.	mm
0.75 & 1	4	102
1.5 & 2	6	152
3 & 4	8	203

Check the flow direction to assure that the valve is installed with the flow in the same direction indicated by the arrow plate.



When operating the valve, keep your hands, hair, clothes, etc. away from moving parts. Failure to follow this warning may result in serious injury.

⊃ Connect air supply and instrument signal (throttling control valves are generally equipped with positioners). The air ports are identified indicating the air supply and the instrument signal. The actuator can operate with air supply pressure up to 150 psi (10.3 Bar). However, the sticker attached to the actuator must be checked for maximum pressure allowed according to the positioner installed. Air filter is recommended, unless the instrument air is clean and dry.



WARNING

For transport reasons, the air filter may be installed out of the vertical position. Before operating the valve, position the air filter pointing down.

1.6 - QUICK CHECK

Prior to start-up, check the control valve according to the following steps:

⊃ Check all air connections for leaks. Tighten the packing nuts evenly with a torque slightly higher than the torque applied by fingers adding 1/4 turn (only for PTFE).

Note: in case of high temperature application, chek and re-tighten bonnet and packing nuts after the temperature increment.

- Check the full stroke making appropriate instrument signal change. The plug must move smoothly, from one end position to the other end.
- ⊃ Check the failsafe position in case of air supply lack. Position the valve in the middle of its stroke and shut off the air supply to the actuator or cutoff the instrument signal sent to positioner. Observe the stroke plate to confirm that the plug reaches the specified failsafe position. If specified failsafe position is not reached, refer to section "Reversing the Air Action".



WARNING

Do not overtighten packing. This may cause excessive packing wear and increase the friction on the plug stem, blocking its movement.

1.7 - PREVENTIVE MAINTENANCE

Check if the valve is working properly at least every six months following the preventive maintenance steps indicated below.

This sequence can be performed with the valve installed in the line and, in some cases, without disturbing operation. In case there is a potential problem inside the valve, refer to the section "Disassembly and Reassembly":

- ⊃ Inspect signs of leakage in the bonnet gasket and in the piping flanges. Tighten the flange and bonnet nuts, if necessary.
- Observe if corrosive vapors or process fluid dripping is damaging the valve.
- ⊃ Clean valve and repaint areas of severe oxidation.



- Check tightness of the packing box nuts. Packing nuts must be tightened with a torque slightly over finger-tight; however, tighten just enough to avoid leakage through the plug stem.
- ⊃ If the valve is supplied with a lubricator, check the lubricant reservoir and add new lubricant, if necessarv.
- ⊃ If possible stroke the valve and, observing the stroke plate, check if the valve travels its full stroke in a smooth and uniform way. An unsteady movement of the stem may indicate an internal problem of the valve (jerky stem motion is normal when graphite packing is used).
- Verify valve calibration, comparing the pressure indicated in the positioner gauges against the stroke plate of the actuator. Make sure that the

- positioner is calibrated within the correct range. Refer to the positioner instructions for information about preventive maintenance.
- Make sure all accessories, brackets and bolts are properly tightened.
- ⊃ If possible, shut-off air supply and observe on the stroke plate if the specified failsafe position is reached.
- Verify if actuator stem bellows is worn out.
- Apply a soap solution around the cylinder retaining ring, adjusting screw and actuator bushings to check if there are air leaks through the O-rings.
- ⊃ Remove any contaminant or other foreign material from the exposed areas of valve stem.
- ⊃ If an air filter is supplied, check and replace cartridge if necessary.

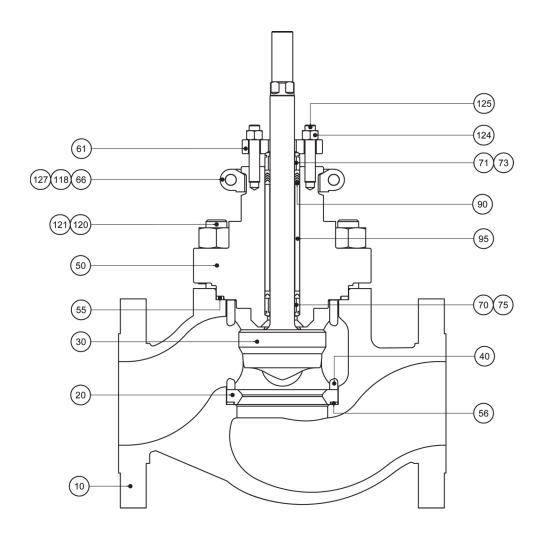


Figure 2: GXL valve body sub-assembly



DISASSEMBLY AND REASSEMBLY

1.8 - DISASSEMBLING THE BODY

For disassembling the $G\overline{x}L$ valve, refer to Figures 2, 3 and 4 and proceed as follows:



CAUTION

Removing the valve for maintenance: piping must be completely depressurized and process fluid drained. In case of toxic, caustic or hazardous fluid services, the valve must be decontaminated to avoid accidents.

⊃ Remove the bonnet flange nuts and then lift the actuator, bonnet and plug, taking them out of the valve (Fig. 3).



WARNING

To avoid damages to the plug and seat, make sure when lifting the actuator, bonnet and plug assembly, that they are correctly aligned with the seat.

- ⊃ Remove the seat retainer, seat and the gaskets from the body (see Fig. 4).
- Check if the seating surfaces on the seat

- and plug are not damaged and can ensure tight shutoff. Check if the gasket seating surfaces on the seat, bonnet and body are clean and not damaged.
- ⊃ To inspect the plug, release the clamp that secures the plug stem in the actuator, remove the gland flange and the yoke fixing clamps. Turn the actuator to unfasten the plug from the actuator stem. Use an open wrench to avoid the plug rotation inside the bonnet. Pull the plug carefully through the packing box.



WARNING

To prevent scratching the guides and the plug stem, follow exactly the procedure described above.

- If plug stem presents light scratching, it can be polished in order to provide a smooth finish on the surfaces touching guides and packing.
- To replace packing or change the packing box configuration, push out packing, spacer and guides using a bronze or brass dowel of the same approximate size as the plug stem. Verify if the bonnet internal sur-

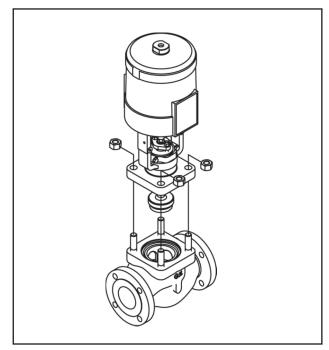


Figure 3

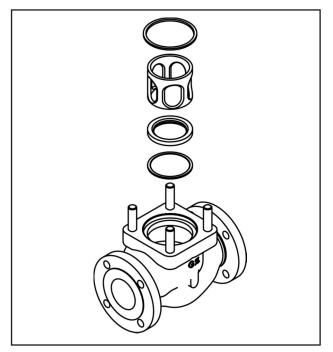


Figure 4



faces has a smooth finish and, if necessary, clean and polish that area.

1.9 - REASSEMBLING THE BODY

To reassemble the valve body refer to figures 2, 3, 4 and 5 and proceed as follows:

- Desition the valve over a workbench and secure it in a vise. Install new seat and bonnet gaskets. Place the seat into the body with the gasket shoulder downwards, assuring that the seat turns freely into the body. Place the seat retainer into the body with the arrow pointing upwards and replace bonnet studs.
- Replace guides with inserts, packing and spacer into the bonnet bore, one piece at a time, according to Figure 5, or as noted during the disassembling.
- Place the plug carefully in the seat. Then, while the plug is maintained in the vertical position, place the bonnet over the plug stem, taking care to avoid scratching the surfaces.



WARNING

Follow strictly the procedure above to avoid scratching guides and plug stem.

- Replace bonnet nuts and first, bring them to finger-tightness.
- Place the actuator assembly over the plug stem and then the gland flange and the plug stem locknut.
- Taking care to avoid rotating the plug over the seat, turn the actuator over the plug stem until the bottom of the yoke touches the bonnet top shoulder. Make sure that the actuator is correctly oriented in the assembly, with the yoke legs parallel to the valve body.



WARNING

Do not allow the plug to rotate over the seat to avoid damages to the seating surfaces. The plug stem has a section with flat faces that must be used to avoid its rotation during this procedure.

⊃ Place the yoke clamps around the bonnet with the beveled side facing upwards. Replace yoke clamp bolting and tighten firmly.

- ⇒ Replace gland flange bolting and tighten them evenly making sure that the plug stem is centered inside the gland flange.
- ⊃ Following this, proceed with the valve calibration, reconnecting the positioner, the instrument air and the control signal. Send a low signal to the positioner (3 psi / 0.2 Bar or 4 mA).
- Determine the instrument signal on which the plug will begin to move from the seat and apply this signal to the positioner. In case the plug stem does not start to move with the pre-determined signal, adjust the signal to its mid-range values until the plug moves out of the seat, release the stem clamp bolt and turn plug stem in or out of the actuator stem.
- ⊃ For example, if the plug starts moving with a signal lower than the pre-determined signal, turn the plug outwards from the actuator stem. If the plug starts moving with a signal higher than the predetermined signal, turn the plug inwards from the actuator stem. Repeat these steps until the actuator is set according to the required signal and retighten the bolt of the stem clamp.



WARNING

Do not turn the plug stem when it is seated over the seat; if this occurs, the trim may be damaged.

- ⊃ When the correct seat/plug seating is achieved, the bonnet will be forced upwards against the bonnet nuts which have been finger-tightened, in such a way that the force created will prevent any bonnet movement. If the seating is not correct, the bonnet can be wiggled with light hand force. In this case, the actuator must be recalibrated in according to the previous steps above; otherwise, the valve may leak when there is no signal.
- Move the plug to the closed position and tighten the bonnet nuts, tightening the first nut with 1/6 turn, then tighten the nut directly opposite 1/6 turn and so on, for all bonnet nuts. Tighten all the nuts firm and evenly to compress the bonnet gasket and seat the bonnet properly. Apply the torque values indicated in Table II to the bonnet nuts.

NOTE: Due to the self-centering design of the $G\overline{x}L$ valve seat, the plug must be fully seated before the bonnet nuts are tightened.



Table II: Suggested torque values for bonnet bolting

V.I.	Bolting material			
Valve Size (in.)	Carbo	Carbon Steel		ss steel
()	Ft-lbs	Nm	Ft-lbs	Nm
0.75 & 1	30	41	20	27
1.5 & 2	80	108	50	68
3	140	190	90	122
4	350	475	220	298

ACTUATOR - DISASSEMBLY AND REASSEMBLY

Although many repair services may be performed in the field with the actuator assembled in the valve, it is much easier to carry out maintenance services in the actuator when the actuator is apart from the valve and the maintenance services are carried out on a workbench, as indicated in the procedure below.

1.10 - Disassembling the actuator

To disassemble the spring-cylinder actuator proceed as follows:

- ⇒ Shut-off the air supply.
- Disconnect all tubing. Remove the stem clamp and the stem bellows.
- Release completely the spring tension removing the adjusting screw and its respective rubber gasket.

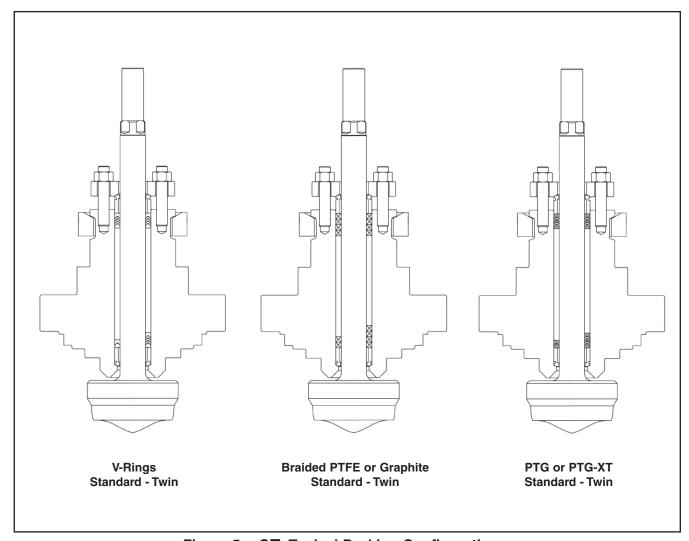


Figure 5 - GXL Typical Packing Configurations





CAUTION

The spring compression must be completely relieved before disassembling the actuator. If this is not done, the cylinder may be ejected out of the yoke when the retaining ring is removed from the cylinder, causing serious injury.

- Remove the retaining ring from the grove at the base of the cylinder using two screwdrivers. Introduce the tip of a screwdriver in the slot on the ring and remove the ring out of its channel. Use another screwdriver to help the operation of removing the ring.
- Pull the cylinder out of the yoke and piston (some O-ring resistance may be felt).



CAUTION

Do not use air pressure to remove cylinder. This may cause the cylinder to be ejected out of the yoke, causing serious injury.

- ⊃ In the "air-to-open" configuration, remove the spring(s) and the spring button for cleaning and inspection (see Fig. 7). Remove the locknut and slide the piston and the stem spacer out from the actuator stem. On actuators with dual springs the spring guide must be removed also.
- ⊃ In the "air-to-close" configuration (Fig. 6), slowly release and remove the actuator stem locknut, making sure that the piston follows the locknut and is not jammed on the actuator stem. Remove the stem locknut, spring button, piston, spring and stem spacer.
- ⊃ Remove the O-rings from the piston, the piston stem and from the yoke.
- ⇒ Remove the actuator stem O-ring.



WARNING

The upper and lower actuator stem bushings are pressed into the yoke. It is not necessary to remove them to replace the actuator stem O-ring.

⊃ If the bushings are worn out or damaged use an appropriate device to remove the bushings from the yoke.

1.11 - Reassembling the actuator

To reassemble the actuator refer to the Figures 6 and 7:

- ⊃ All the O-rings will be replaced and the new ones must be lubricated. The majority of the O-rings can be lubricated with silicone lubricant (Dow Corning 55M or equivalent). Do not use a silicone lubricant on silicone O-rings.
- ⇒ Assure that all internal parts are completely clean before starting to assemble. Clean the cylinder wall and lubricate it with proper lubricant.
- ⊃ If the bushings need to be removed, lubricate the external side of the replacement bushings. Press the new lower stem bushing into the yoke hole until it touches the bottom shoulder. Press the upper stem bushing until it is aligned with the top of the yoke (refer to the Figures 6 or 7).
- ⊃ Replace the O-rings on the actuator stem and on the yoke.
- ⊃ Reassemble the piston, the piston stem O-ring and the stem spacer in the actuator stem, according to the desired air action (refer to Figures 6 and 7). Replace the piston O-ring. The air-to-close configuration requires that the spring button be fixed by the actuator stem locknut. Tighten the nut firmly.
- ⊃ In the air-to-close configuration, place the spring below the piston and insert the actuator stem through the yoke, taking care not to strike (and scratch) the stem or bushings. For air-to-open configurations insert the actuator stem through the yoke and place the spring(s) and the spring button on top of the piston.
- ⊃ Assemble the cylinder in the yoke, assuring that these parts are correctly positioned to allow the installation of the cylinder retaining ring. Care must be taken to avoid scratching or cutting the O-rings on the piston and on the yoke.
- ⊃ Insert the retaining ring in the cylinder groove, by steps, until it is fitted in place. Using a hammer and a drift rod, tap gently on the retaining ring, already fitted in place, to confirm that it is securely installed.



CAUTION

The cylinder retaining ring must be securely fixed into the groove so that the cylinder does not escape when pressurized, causing personal injury. During installation, avoid damaging or deforming the edge of the retaining ring square section.

Replace the adjusting screw, using a new adjusting screw gasket.





WARNING

In the air-to-open configuration make sure that the hole in the spring button is centered directly under the adjusting screw hole.

- ⊃ Tighten the adjusting screw sufficiently so that the gasket provides a leakproof sealing. Do not overtighten it.
- Reassemble the stem bellows and the stem clamp.



WARNING

When installing the stem clamp, make sure that the bolt of the clamp is square

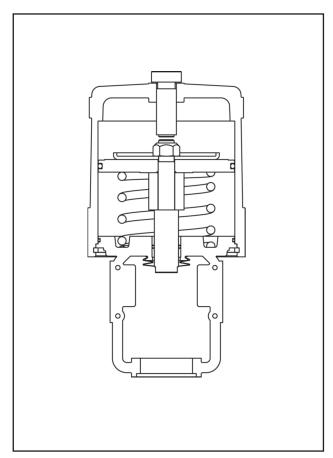


Figure 6 - Air-to-Close Configuration

- to one of the flat faces machined on the actuator stem. This assures a more rigid connection.
- ⊃ Apply air on top of the piston. With the stem clamp adjusted indicating the "closed" position on the stroke plate, tighten the stem clamp bolt.

Reversing the Air Action

To revert the air-to-close action to air-to-open, refer to Figures 6 and 7:

- ⊃ Disassemble the actuator according to the section "Disassembling the Actuator".
- ⊃ Reassemble the actuator with the stem spacer and the spring button over the piston.

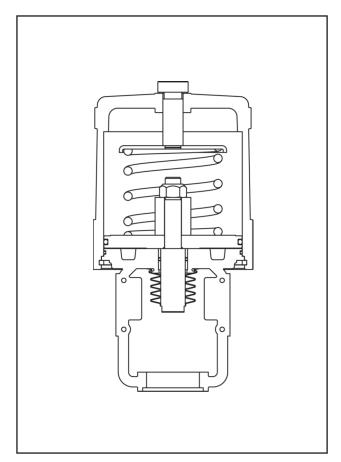


Figure 7 - Air-to-Open Configuration



1.12 - $\overline{\text{GxL}}$ Valve Troubleshooting Chart

Problem	Probable Cause	Corrective Action
Stem moves slowly or does not move	Overtightened Packing	Adjust packing box nuts to slightly over finger- tight
	Service temperature is above the operating limits of trim design	Reconfirm service conditions and contact the manufacturer
	Insufficient air supply	Check for leaks in air supply or instrument sig- nal system; tighten loose fittings and replace the leaking ferrules
	Malfunctioning Positioner	See Positioner IOM
	Insufficient actuator thrust	Verify air supply pressure to actuator; if pressure is adequate, double check service conditions and contact the manufacturer
Excessive leakage through the valve seat	Insufficient tightness on the bonnet nuts	See steps on "Reassembling the Body" for tightening procedures
	Worn or damaged seat ring	Disassemble valve and change or repair seat ring
	Worn or damaged seat gasket	Disassemble and replace gaskets
	Insufficient actuator thrust	Verify air supply pressure to actuator: if pressure is adequate, double check service conditions and contact the manufacturer
	Improper plug adjustment	See section "Reassembling the Body" for correct plug adjustment
	Zero adjustment incorrectly carried out	Carry out the positioner calibration
	Worn or damaged plug	Disassemble valve and replace the plug
Inadequate flow	Incorrect plug adjustment, limiting the stroke	See section "Disassembling the Body" for the correct adjustment of the plug
	Malfunctioning positioner	See Positioner IOM
	Service conditions exceed the trim nominal capacity	Check service conditions and contact the manufacturer
	Insufficient air supply pressure	Check air supply requirements
	Incorrect flow direction	Correct flow direction
Valve does not fail in correct position	Incorrect flow direction	Reconfirm flow direction and, if necessary, correct flow direction through valve
	Incorrect assembly of the actuator	Change failsafe position of the actuator spring; see section "Reversing the Air Action"
	Insufficient actuator thrust	Recheck service conditions and contact the manufacturer
Excessive air consumption	Leaks in air supply or instrument signal system	Tighten the fittings and replace any leaking ferrule
	Malfunctioning positioner	Refer to Positioner IOM
	Leaks through O-rings or through the adjusting screw gasket	Replace O-rings and gasket



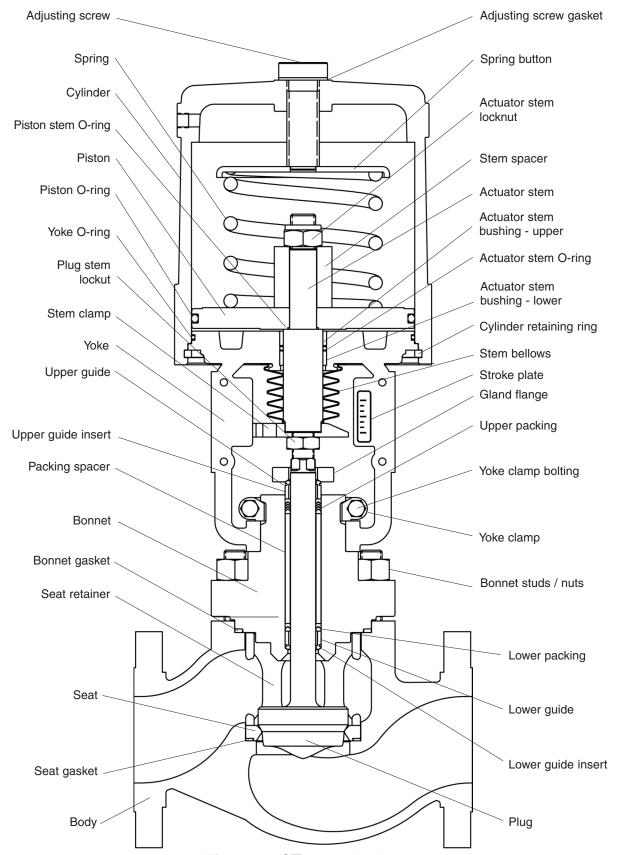


Figure 8 – GXL control valve



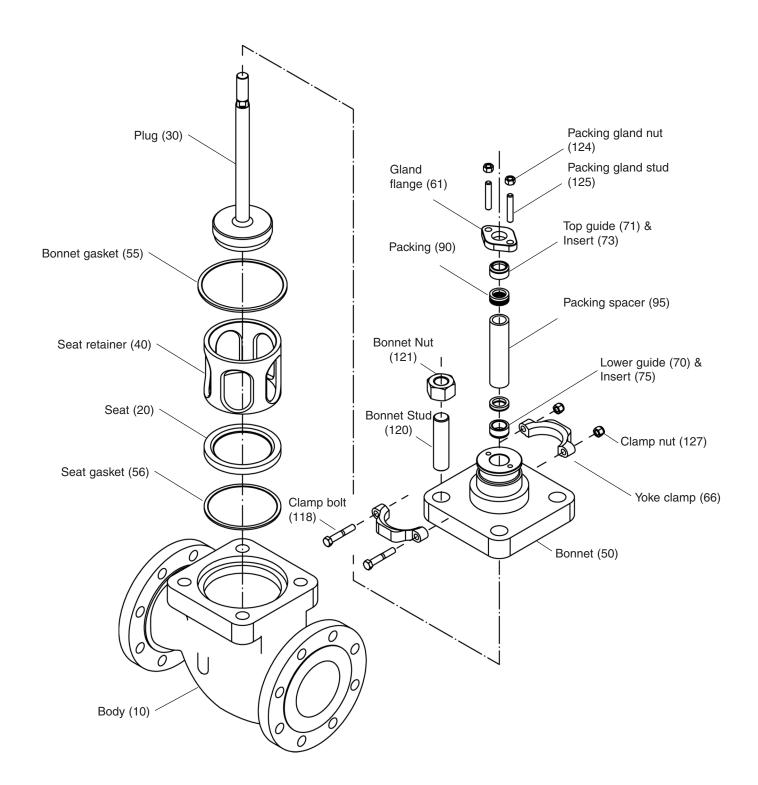


Figure 9 - Exploded View of the Body Sub-Assembly

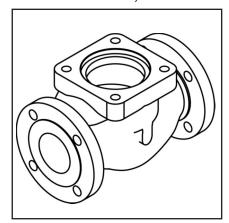
GXL Valve -

¹ Item numbers above correspond directly to the valve's bill of material.



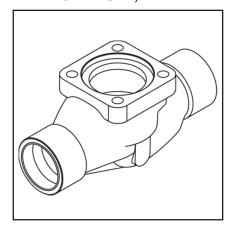
1.13 - SPARE PARTS LIST

ITEM 10A - BODY, FLANGED ENDS, SPIRAL GROOVES



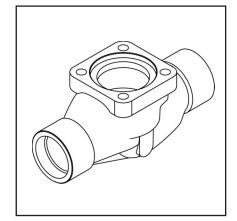
Valve Size	ANSI Class	Face Finish 125-250 Ra	Face Finish 250-500 Ra
(in.)		Part N	umber
0.75	150	9310020	9310120
0.75	300	9310021	9310121
1	150	9310030	9310130
'	300	9310031	9310131
1.5	150	9310040	9310140
1.5	300	9310041	9310141
2	150	9310050	9310150
۷	300	9310051	9310151
3	150	9310060	9310160
3	300	9310061	9310161
4	150	9310070	9310170
+	300	9310071	9310171

ITEM 10B - BODY, NPT THREADED ENDS



Valve Size (in.)	ANSI Class	Part Number
0.75	150 & 300	9310022
1	150 & 300	9310032
1.5	150 & 300	9310042
2	150 & 300	9310052

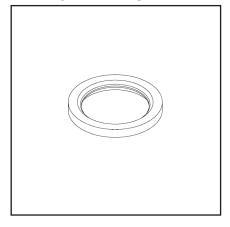
ITEM 10C - BODY, SOCKET WELD ENDS



Valve Size (in.)	ANSI Class	Part Number
0.75	150 & 300	9310023
1	150 & 300	9310033
1.5	150 & 300	9310043
2	150 & 300	9310053

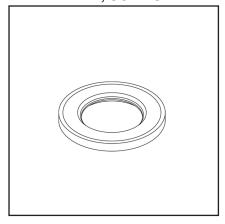


ITEM 20 - METAL SEAT



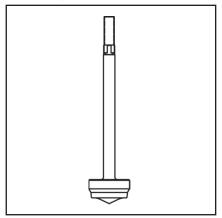
Valve Size	Trim Size (TN)		Metal Seat	Soft Seat (Kit)
(in.)	in.	mm	Part Number	Part Number
	0.25	6.5	9320010	9321010
	0.30	8	9320012	9321012
0.75 & 1	0.38	10	9320014	9321014
	0.51	13	9320016	9321016
	0.63	16	9320018	9321018
1	0.71	18	9320020	9321020
'	0.83	21	9320022	9321022
	0.30	8	9320030	9321030
1.5	0.38	10	9320032	9321032
1.5	0.51	13	9320034	9321034
	0.63	16	9320036	9321036
	0.71	18	9320038	9321038
1.5 & 2	0.83	21	9320040	9321040
1.5 & 2	1.07	27	9320042	9321042
	1.38	35	9320044	9321044
2	1.80	46	9320046	9321046
	1.80	46	9320054	9321054
3	2.20	56	9320056	9321056
	2.83	72	9320058	9321058
	2.20	56	9320068	9321068
4	2.83	72	9320070	9321070
	3.70	94	9320072	9321072

ITEM 21 - KIT, SOFT SEAT

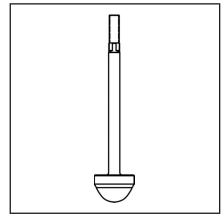




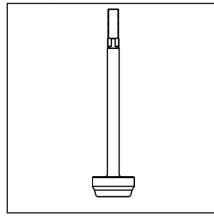
ITEM 30 - PLUG 30A: EQUAL PERCENTAGE



30B: LINEAR



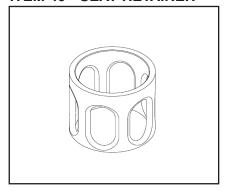
30C: QUICK OPENING



Valve Size	Trim Size (TN)		Equal Percentage	Linear	Quick Opening
(in.)	in.	mm	Part Number	Part Number	Part Number
	0.25-10	6.5-10	9330510		
	0.25-12	6.5-12	9330512	9330012	
	0.25-14	6.5-14	9330514		
	0.25-16	6.5-16	9330516		
	0.25-26	6.5-26		9330026	
	0.25-34	6.5-34		9330034	
0.75 & 1	0.25-42	6.5-42		9330042	
0.73 & 1	0.25-46	6.5-46		9330046	
	0.25-56	6.5-56		9330056	
	0.25-58	6.5-58		9330058	
	0.30	8	9330518	9330060	
	0.38	10	9330520	9330062	
	0.51	13	9330522	9330064	
	0.63	16	9330524	9330066	9330766
1	0.71	18	9330526	9330068	
'	0.83	21	9330528	9330070	9330770
	0.30	8	9330519	9330061	
1.5	0.38	10	9330521	9330063	
1.5	0.51	13	9330523	9330065	
	0.63	16	9330525	9330067	
	0.71	18	9330527	9330069	
1.5 & 2	0.83	21	9330529	9330071	
1.5 & 2	1.07	27	9330530	9330072	
	1.38	35	9330532	9330074	9330774
2	1.80	46	9330534	9330076	9330780
	1.80	46	9330540	9330080	
3	2.20	56	9330542	9330082	
	2.83	72	9330544	9330084	9330784
	2.20	56	9330550	9330090	
4	2.83	72	9330552	9330092	
	3.70	94	9330554	9330094	9330794

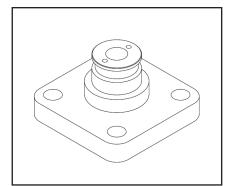


ITEM 40 - SEAT RETAINER



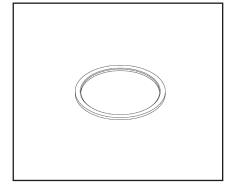
Valve Size (in.)	Part Number
0.75 & 1	9340010
1.5 & 2	9340020
3	9340030
4	9340040

ITEM 50 - BONNET



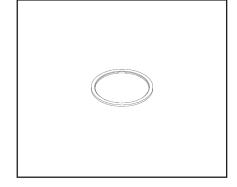
Valve Size (in.)	Part Number
0.75 & 1	9350011
1.5 & 2	9350021
3	9350030
4	9350040

ITEM 55 - BONNET GASKET



Valve	Part Number		
Size	Materials		
(in.)	PTFE	316 SS / Graphite	
0.75 & 1	9355010	9355011	
1.5 & 2	9355020	9355021	
3	9355030	9355031	
4	9355040	9355041	

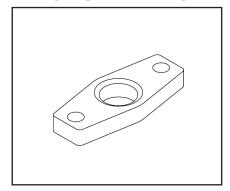
ITEM 56 - SEAT GASKET



Valve	Part Number		
Size	Materials		
(in.)	PTFE	316 SS / Graphite	
0.75 & 1	9356010	9356011	
1.5 & 2	9356020	9356021	
3	9356030	9356031	
4	9356040	9356041	

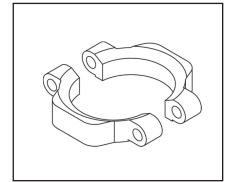


ITEM 61 - GLAND FLANGE



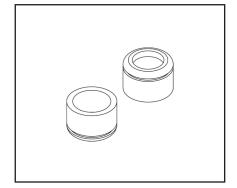
Valve Size (in.)	Part Number	
0.75 & 1	9361021	
1.5 & 2	9361021	
3 & 4	9361030	

ITEM 66 - YOKE CLAMP



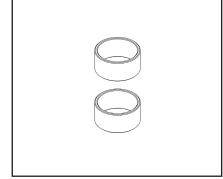
Valve Size (in.)	Part Number
0.75 & 1	9366020
1.5 & 2	9366020
3 & 4	9366030

ITEM 70 / 71 - UPPER AND LOWER PLUG GUIDES



Valve Size (in.)	Part Number
0.75 & 1	9370020
1.5 & 2	9370020
3 & 4	9370030

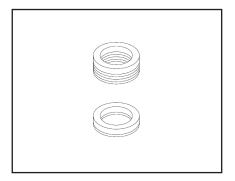
ITEM 73 / 75 - UPPER AND LOWER GUIDE INSERTS



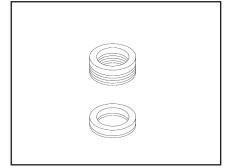
Valve	Part Number		
Size (in.)	Materials		
	PTFEG	Graphite	
0.75 & 1	9373020	9373021	
1.5 & 2	9373020	9373021	
3 &4	9373030	9373031	



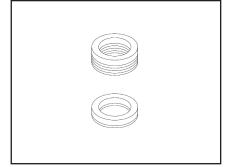
ITEM 90 - PACKING SET



	Part Number			
Valve Size (in.)	PTFE V-Rings Standard	PTFE V-Rings Twin	Braided PTFE Standard	Braided PTFE Twin
0.75 & 1	9390020	9390021	9390022	9390023
1.5 & 2	9390020	9390021	9390022	9390023
3 & 4	9390030	9390031	9390032	9390033

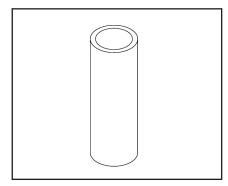


Valve Size (in.)	Part Number		
	Graphite Standard	Graphite Twin	
0.75 & 1	9390024	9390025	
1.5 & 2	9390024	9390025	
3 & 4	9390034	9390035	



Valve	Part Number			
Size (in.)	PTG PTG PTG-XT PTG-XT Standard Twin			
0.75 & 1	9391022	9391023	9391024	9391025
1.5 & 2	9391022	9391023	9391024	9391025
3 & 4	9391032	9391033	9391034	9391035

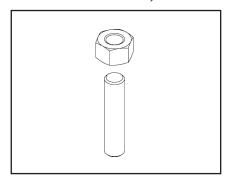
ITEM 95 - PACKING SPACER



Valve	Part Number			
Size (in.)	Standard V-Rings	Twin V-Rings	Standard Square Rings	Twin Square Rings
0.75 & 1	9395010	9395011	9395011	9395013
1.5 & 2	9395020	9395010	9395010	9395011
3	9395030	9395031	9395031	9395033
4	9395040	9395041	9395041	9395043

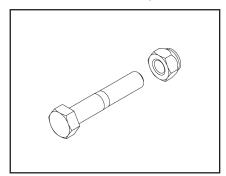


ITEM 120 / 121 - KIT, BONNET STUDS & NUTS



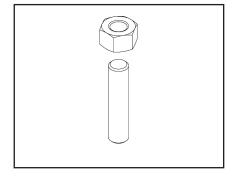
Valve Size (in.)	Part Number		
	B7/2H	B7M/2HM	
0.75 & 1	9399024	9399025	
1.5 & 2	9399040	9399041	
3	9399074	9399075	
4	9399077	9399079	

ITEM 118 / 127 - KIT, YOKE CLAMP BOLTS & NUTS



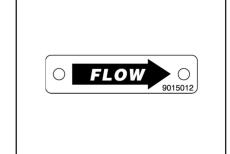
Valve Size (in.)	Part Number
0.75 & 1	9399020
1.5 & 2	9399020
3 & 4	9399030

ITEM 125 / 124 - KIT, GLAND FLANGE STUDS & NUTS



Valve Size (in.)	Part Number
0.75 & 1	9399012
1.5 & 2	9399012
3 & 4	9399014

ITEM 150 - PLATE, FLOW ARROW



Valve Size (in.)	Part Number
0.75 - 4	9015012



ITEM 151 - NAME PLATE

VALTEK ™	GXL – GLOBE			
SULAMERICANA CONTROL VALVES	SIZE	CL	TN	
BODY	_ TRIM		CV	
AIR TO	_ CHAR		SIGNAL _	
TAG	S/N			- 93151

Valve Size (in.)	Part Number
0.75 - 4	9315102

Although Valtek Sulamericana provides precise and detailed installation, operation and maintenance instructions, in accordance with their design reviews, the customer/user shall be responsible for the information provided to generate product specifications, shall understand precisely the operation and maintenance instructions provided with the products and shall provide training for their employees and contracted personnel regarding the safe use of Valtek Sulamericana products, in accordance with the specific applications they were designed for. The information herein shall not be considered as a certificate for assurance of satisfactory results. Valtek Sulamericana products are continuously improved and upgraded and the specification, dimensions and information contained herein are subject to change without notice. For further information or to confirm these presented here, consult Valtek Sulamericana at Rua Goiás, 345, Diadema, São Paulo, Brasil, CEP 09941-690, Phone: 55-11 4072-8600, Fax: 55-11 4075-2477.

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