

CONSTRUCTION FEATURES

Stem Passage

N.R.S. sizes 1 1/2" - 60"

The design of the stem passage is the same for all valves with N.R.S.

The bearing assembly consists of a flanged cast iron or steel "O" ring piece fastened to the bonnet with 4 bolts. The "O" ring piece is bored and lined with a nylon bushing.

The seal is obtained through 2 "O" rings which are inserted in the nylon bushing. (Fig. 7)

Non-Rising Stem Seguro Gate Valves have a teflon washer placed under the spindle collar; this is intended to ease operation of the valve and, at the same time, to act as a seal between the spindle collar and the bonnet. (Fig. 8)

When the valve is fully open, the spindle collar is pulled down. As a hermetic seal is obtained, even at maximum working pressure, this facilitates the replacement of "O" rings with the valve under pressure. This is accomplished simply by removing the 4 bolts in the "O" ring piece. (Fig. 8)

All N.R.S. Seguro Gate Valves are also equipped with a rubber wiper washer fitted over the stem, flush with the bonnet. This prevents penetration of sediment, or other foreign matter. (Fig. 9)

OS & Y, Sizes 1 1/2" - 60"

On valves with Outside Screw and Yoke the stem passage is built up as follows.

A brass bushing, which serves as a guide for the stem, is pressed into the yoke. This bushing is machined to contain the stem packing and at the bottom it is chamfered for backseating, allowing the valve to be repacked under pressure.

The stem packing is a self-tightening "U" packing and is secured by a stainless steel locking ring. (Fig. 10)

The yoke is bolted to the bonnet on all sizes.

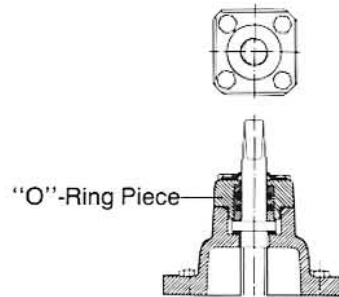


FIG. 7



FIG. 8

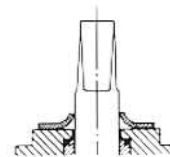


FIG. 9

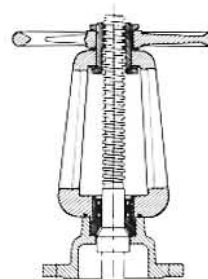


FIG. 10

SEGURO

LARGE
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GATE
VALVE

CONSTRUCTION FEATURES

Stem

The stem is of stainless steel, one piece construction with a very sturdy collar on valves with N.R.S. The square of the stem is pyramidic type. (Fig. 11)

On valves with OS & Y (Outside Screw and Yoke), the stem has a chamfer which backseats against the brass bushing. This allows the "U" packings to be changed under full line pressure. (Fig. 12)

The thread is a rolled trapezoidal type, thus thread flanks have a flat, hard surface.

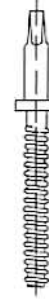


FIG. 11



FIG. 12

Number of Turns of the Handwheel to Open Valve:

Valve Size (Class 125 lbs.)	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"
No. of Turns	14	16	19	22	27	27	32	42	52	62	62	70	78	84	88	97	103	120	124	140

Stem Nut

Standard construction is brass. The stem nut is also available in cast iron where copper alloys are not used, such as alkali or acid services where there is a risk of galvanic corrosion. The stem nut "floats" within the pressure piece to prevent radial loading of the stem. (Fig. 13)

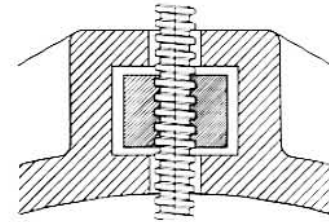


FIG. 13

Seguro Gate Valves are cast, machined, assembled and tested in a Quality Approved Factory. All moving parts are thoroughly lubricated with Molybdenum sulphide grease. Each valve is coated inside and outside with a special corrosion resisting plastic (Polyacrylate/Isocyanate). Each and every valve is tested to conform to the standards outlined in the specification sheets.

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MATERIALS*

Part Name	Material
Body and Bonnet	Ductile Iron, Cast Iron
Stem	Stainless steel AISI 420
Stem Nut	Brass
	Bronze (optional)
	Cast Iron (optional)
Seal	Buna N
	EPDM (optional)

*See Parts List for additional Material Data.

END OPTIONS**

Type	Size Availability***
Flanged (ANSI)	1 1/2" - 60"
Mechanical Joint (AWWA)	4" - 48"
Victaulic, Flange x Victaulic	Available to special order

***Larger sizes available on special request.

**Other end options available upon request.

PRESSURE DATA

FOR CLASS 125 VALVE

Name	Working Pressure (psi)	Test Pressure (psi)
Shell:		
1 1/2" - 12"	200	400
14" - 60"	150	300
Seat		
1 1/2" - 12"	200	200
14" - 60"	150	150

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SEAL TEMPERATURE LIMITS**

Service/Seal Type	Buna N	EPDM
Water	195	265
Steam	*	265
Air	195	250
Oil	195	*
Gasoline	122	*
Natural Gas	+	+
Moderate Acids	+	+
Moderate Alkalies	+	+

* Not constant + Constant

**Temperature in °F

WEIGHTS (Lbs)

Size*	Flanged N.R.S.	Flanged O.S. & Y.	Mechanical Joint N.R.S.
1-1/2"	23	25	—
2"	29	31	—
2-1/2"	38	42	—
3"	44	51	—
4"	66	75	66
5"	97	108	—
6"	122	133	108
8"	245	267	209
10"	406	432	362
12"	518	549	456
14"	618	660	551
16"	937	984	827
18"	1047	1102	926
20"	1389	1459	1257
24"	1984	2083	1852

*Sizes above 24" may have gear operator and bypass.
Refer to your Seguro representative for weights.

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