

# K85

**K85 121 class800 DN8 – DN50  
Ball valve butt welding**



**Size :** DN 8 to DN 50  
**Ends :** Butt Welding, Socket welding or straight welding  
**Min Temperature :** - 30°C in stainless steel and -20°C in carbon steel  
**Max Temperature :** + 180°C  
**Max Pressure :** 138 Bars (Class 800)  
**Specifications :** Anti blow-out stem  
Fire safe  
Full bore

**Materials :** Carbon steel or Stainless steel

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## K85 121 class800 DN8 – DN50 Ball valve butt welding

### SPECIFICATIONS :

- Full bore
- Anti blow-out stem
- Ends 100 mm But Welding schedule 80 , or socket welding or straight welding
- Class 800
- Fire safe according to BS 6755 part.2
- Atex
- Antistatic device
- 2 pieces type
- Galvanization treatment of zinc anti-corrosion coating, 8 $\mu$  thickness (for ref.718)

### USE :

- Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air
- Min and max Temperature Ts : - 30°C to + 180°C in stainless steel Ref.719
- Min and max Temperature Ts : - 20°C to + 180°C in carbon steel Ref.718
- Max Pressure Ps : 138 bars
- Steam : 10 bars maximum

### RANGE :



- Ball valve class 800 forged ASTM A105N body and welding ends Ref. 718 / 7181 / 7182 from DN 8 to DN 50

- Ball valve class 800 forged ASTM A182 F316L body and weld. ends Ref. 719 / 7191 / 7192 from DN 8 to DN 50



- Stainless steel 304 with red cover handle Ref. 9830316-9830318



- Locking device Ref. 9830301-9830315

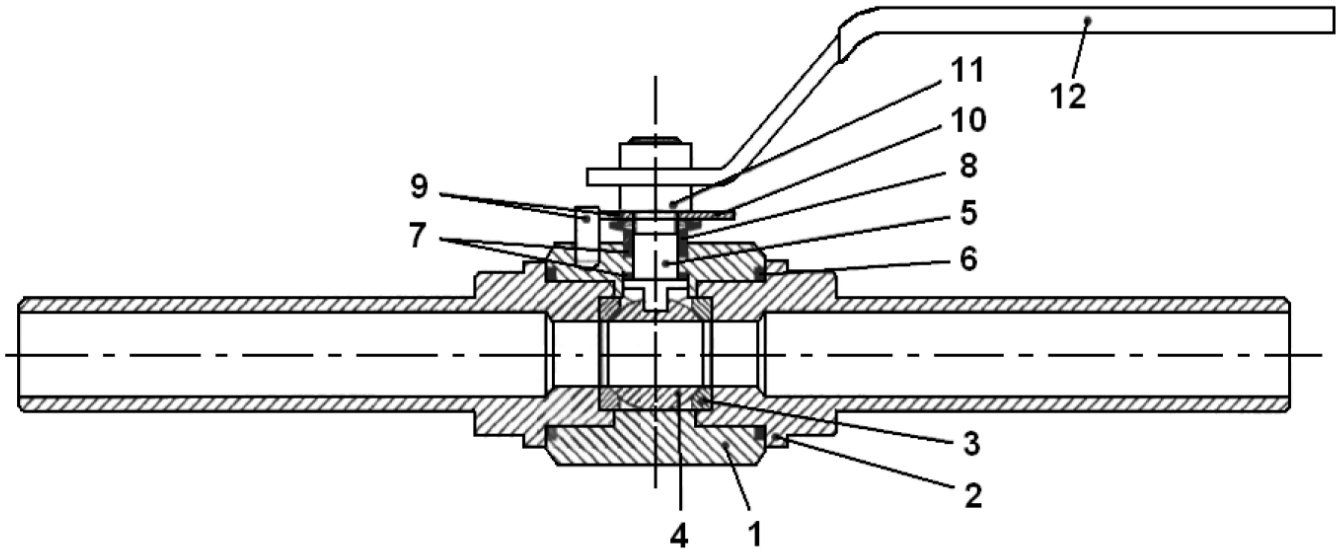


- Galvanized steel handwheel Ref.9830571-9830574

### ENDS :

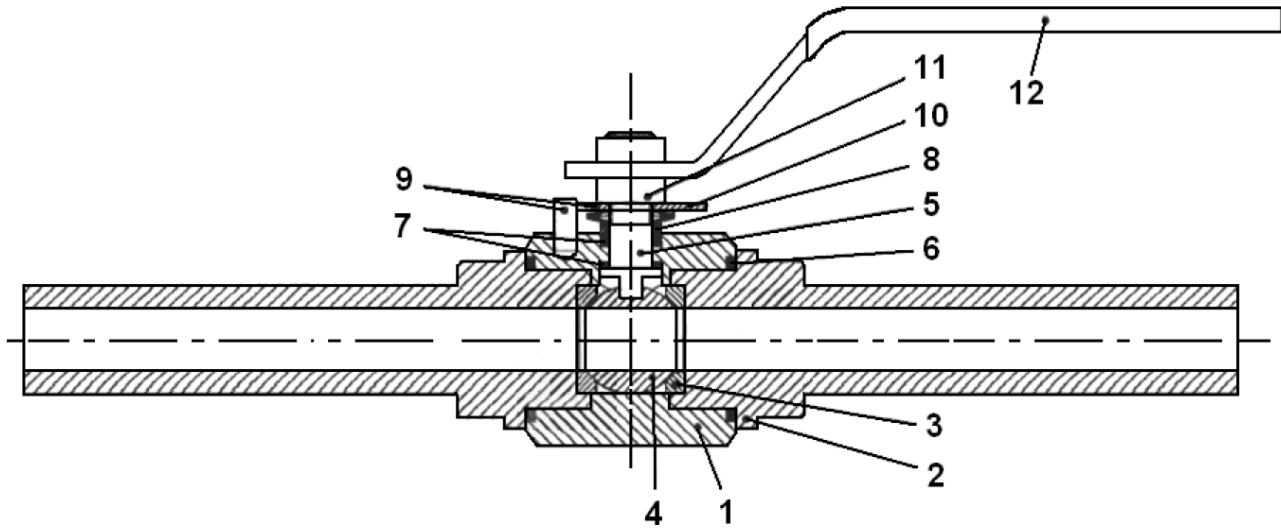
- Butt Welding ends schedule 80 Ref. 718 et 719
- Straight welding ends Ref. 7181 et 7191 (on request)
- Socket Welding ends Ref. 7182 et 7192 (on request)

MATERIALS BUTT WELDING ENDS TYPES 718-719 :



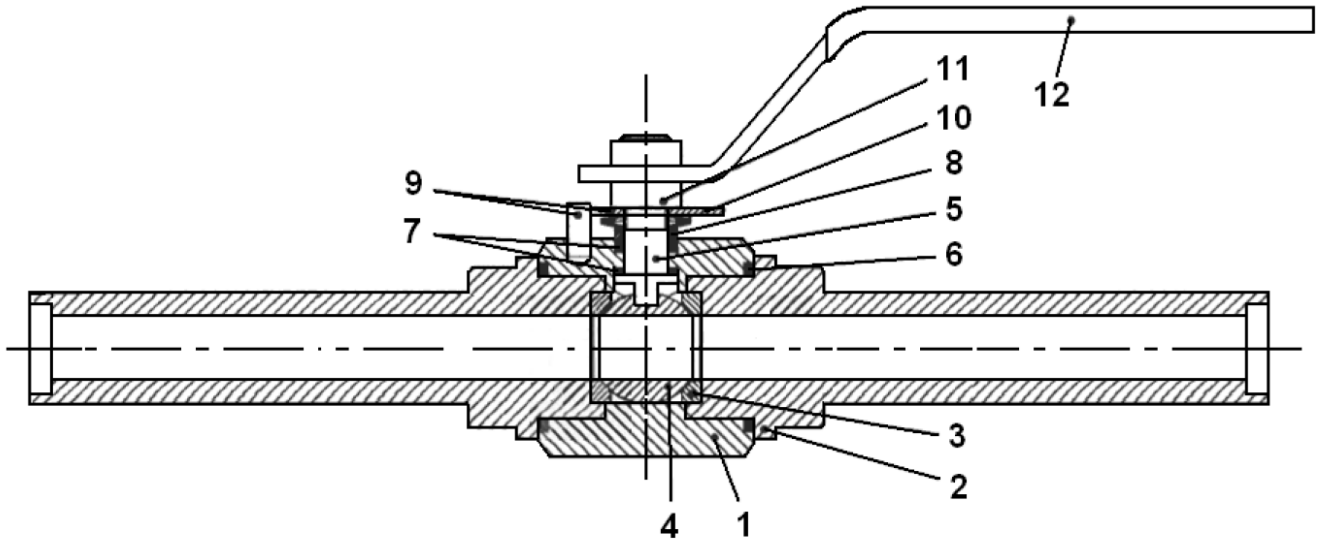
Item	Designation	Materials 718	Materials 719
1	Body	ASTM A105N	ASTM A182 F316L
2	Ends	ASTM A105N	ASTM A182 F316L
3	Seat	PTFE + carbongraphite	
4	Ball	ASTM A182 F316L	
5	Stem	ASTM A182 F316L	
6	Body gasket	Carbongraphite	
7	Stem gasket	Carbongraphite	
8	Packing gland	ASTM A105	SS 304
9	Stop	FE P11 ( UNI 5867 )	
10	Disc springs	Steel	
11	Nut	Steel 6S	
12	Handle	FE P11 ( UNI 5867 )	

MATERIALS STRAIGHT WELDING ENDS TYPES 7181-7191:



Item	Designation	Materials 7181	Materials 7191
1	Body	ASTM A105N	ASTM A182 F316L
2	Ends	ASTM A105N	ASTM A182 F316L
3	Seat	PTFE + carbongraphite	
4	Ball	ASTM A182 F316L	
5	Stem	ASTM A182 F316L	
6	Body gasket	Carbongraphite	
7	Stem gasket	Carbongraphite	
8	Packing gland	ASTM A105	SS 304
9	Stop	FE P11 ( UNI 5867 )	
10	Disc springs	Steel	
11	Nut	Steel 6S	
12	Handle	FE P11 ( UNI 5867 )	

MATERIALS SOCKET WELDING ENDS TYPES. 7182-7192 :

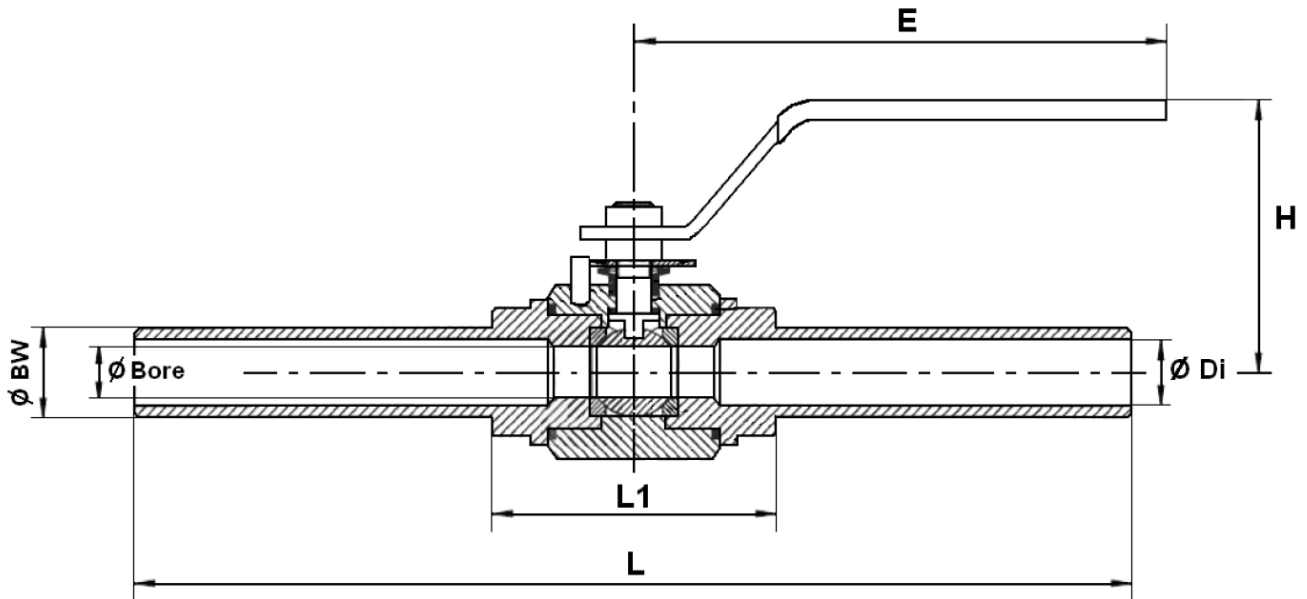


Item	Designation	Materials 7182	Materials 7192
1	Body	ASTM A105N	ASTM A182 F316L
2	Ends	ASTM A105N	ASTM A182 F316L
3	Seat	PTFE + carbongraphite	
4	Ball	ASTM A182 F316L	
5	Stem	ASTM A182 F316L	
6	Body gasket	Carbongraphite	
7	Stem gasket	Carbongraphite	
8	Packing gland	ASTM A105	SS 304
9	Stop	FE P11 ( UNI 5867 )	
10	Disc springs	Steel	
11	Nut	Steel 6S	
12	Handle	FE P11 ( UNI 5867 )	

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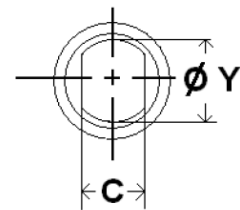
## K85 121 class800 DN8 – DN50 Ball valve butt welding

SIZE BUTT WELDING ENDS TYPES 718-719 ( in mm ) :



Ref.	DN	8	10	15	20	25	32	40	50
718 / 719	Ø Bore	10	10	15	20	25	30	38	48
	L	267	267	275	290	310	320	335	355
	L1	67	67	75	90	105	120	135	155
	E	148	148	148	180	180	240	240	280
	H	72	72	75	85	95	100	105	115
	Ø BW	13.5	17.2	21.3	26.7	33.4	42.2	48.3	60.3
	Ø Di	7.7	10.8	13.9	18.8	24.3	32.5	38.1	49.2
	C	5	5	5.5	7.5	7.5	9	9	9
	Ø Y	8	8	10	12	12	14	14	14
	Weight ( Kg )	0.6	0.6	1	2	4	5.5	7	9

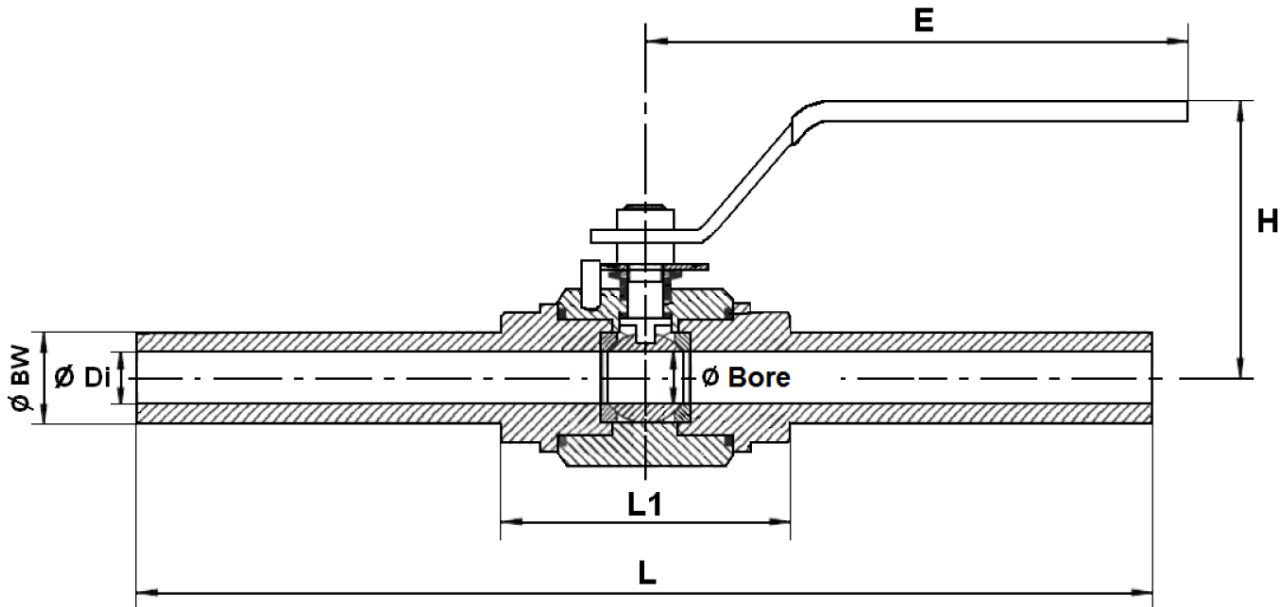
Stem size :



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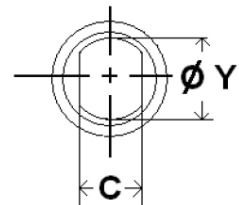
## K85 121 class800 DN8 – DN50 Ball valve butt welding

SIZE STRAIGHT WELDING ENDS TYPES 7181-7191 ( in mm ) :



Ref.	DN	8	10	15	20	25	32	40	50
7181/7191	Ø Bore	10	10	15	20	25	30	38	48
	L	267	267	275	290	310	320	335	355
	L1	67	67	75	90	105	120	135	155
	E	148	148	148	180	180	240	240	280
	H	72	72	75	85	95	100	105	115
	Ø BW	13.5	17.2	21.3	26.7	33.4	42.2	48.3	60.3
	Ø Di	7.7	10.8	13.9	18.8	24.3	32.5	38.1	49.2
	C	5	5	5.5	7.5	7.5	9	9	9
	Ø Y	8	8	10	12	12	14	14	14
	Weight (in Kg)	0.6	0.6	1	2	4	5.5	7	9

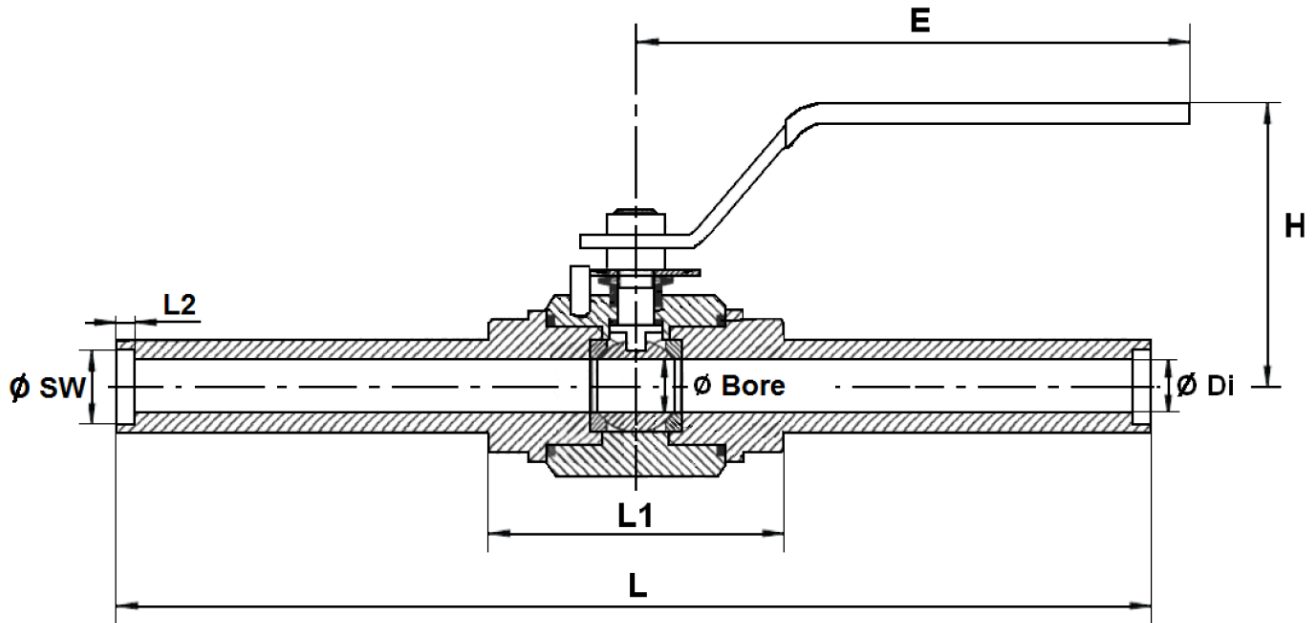
Stem size :



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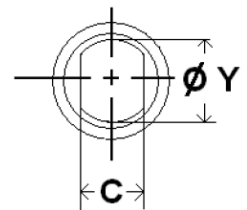
## K85 121 class800 DN8 – DN50 Ball valve butt welding

SIZE SOCKET WELDING ENDS TYPES 7182-7192 ( in mm ) :



Ref.	DN	8	10	15	20	25	32	40	50
7182/7192	Ø Bore	10	10	15	20	25	30	38	48
	L	267	267	275	290	310	320	335	355
	L1	67	67	75	90	105	120	135	155
	E	148	148	148	180	180	240	240	280
	H	72	72	75	85	95	100	105	115
	Ø SW	14.3	17.8	21.8	27.3	34	42.6	48.7	61.3
	L2	9.5	9.5	9.5	11.5	13	14	16	17
	Ø Di	7.7	10.8	13.9	18.8	24.3	32.5	38.1	49.2
	C	5	5	5.5	7.5	7.5	9	9	9
	Ø Y	8	8	10	12	12	14	14	14
	Weight (in Kg)	0.6	0.6	1	2	4	5.5	7	9

Stem size :

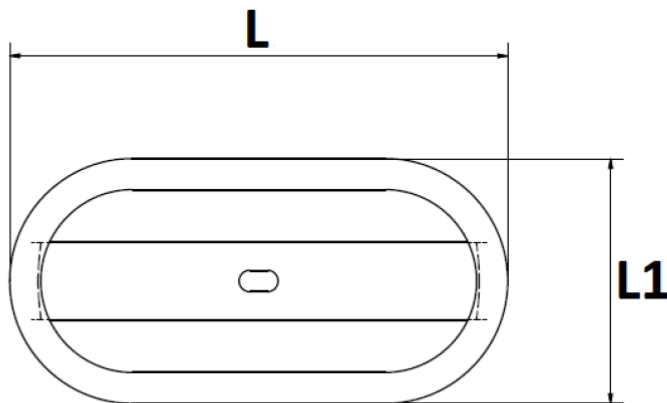
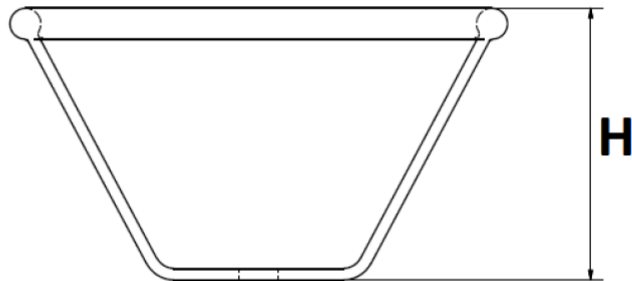




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Ball valve butt welding

HANDWHEEL SIZE ( in mm ):



DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
H	70	70	70	64	64	80	80	80
L	128	128	128	130	130	205	205	205
L1	63	63	63	82	82	105	105	105
Ref.	9830571	9830571	9830572	9830573	9830573	9830574	9830574	9830574
Weight (Kg)	0.300	0.300	0.380	0.420	0.420	0.460	0.460	0.460

### STANDARDS :

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : CE N° 0948  
Risk category III Module B+C1
- Pressure tests according to API 598, table 6
- Butt Welding ends according to ANSI B16.25
- Fire safe according to B.S. 6755 part.2
- Materials according to NACE MR 01-75
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 ( optional marking )

## INSTALLATION AND MAINTENANCE

### BEFORE INSTALLATION :

Pipe-line must be cleaned and free from residual of weldings, rubbish, shaving and every kind of extraneous materials.  
Pipe-line must be perfectly aligned and their support properly dimensioned so that there's no external constraint.

Please use the right product according to the services conditions to seal the valve.  
Use the right bolt tightening so that the ends won't be damaged.

### CLEANING AND TESTS

Keep closed the valves during the cleaning operation so that there's no impurities between the ball and the body.

Tests under pressure must be done with a cleaned pipe-line.

Open partially the valve for tests. Pressure test do not exceed the valve specifications according to API 598.

### MAINTENANCE

It's recommended to operate the valve ( open and close ) 1 to 2 times per year.

When intervention on the valve, be sure there's no pressure in the pipe-line, there's no fluid in it, and that it is isolated.  
The temperature must be low enough to operate without risks.  
If there's a corrosive fluid, inert installation before intervention.