



## GENERAL FEATURES

- eko4000 refers to PN16 Cast Iron Globe Valve
- eko4100 refers to PN40 Cast Steel Globe Valve
- Body & Bonnet: EN GJL 250 Cast Iron
- Stem: Stainless Steel
- Disc: Up to DN 50: Fully Stainless Steel  
Greater than DN 65: Steel with Stainless Steel Ring
- Liquid epoxy paint on outer surface
- Oblique body structure
- Metal-Metal application
- Rising Stem

DESIGN STANDARDS	
Valve Design	EN 13789
Connection	Wafer, acc to EN 1092-2
Face to Face Dimensions	EN 558-1 F1
Valve Test	EN 12266-1
Marking	EN 19

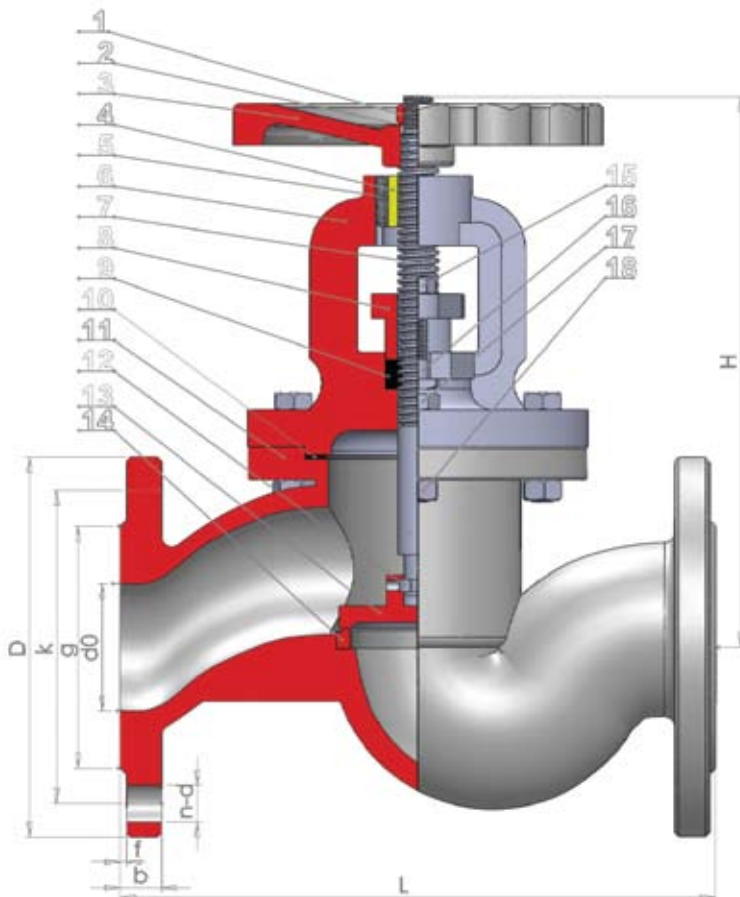
## TECHNICAL ADVANTAGES

- Metal-metal applications are suitable especially for high temperatures (Steam etc.)
- FAF 4000 Globe valve is excellent choice for avoiding water-hammers and reducing-adjustment purposes.
- Suitable for controlling flow, stopping and starting flow & frequent valve operation

## REMARKS

- From DN 65 to 200, the discs can also be supplied in stainless steel fully upon customer request

## DIMENSIONS AND PRODUCT DATA (eko4000)



## PARTS AND MATERIALS

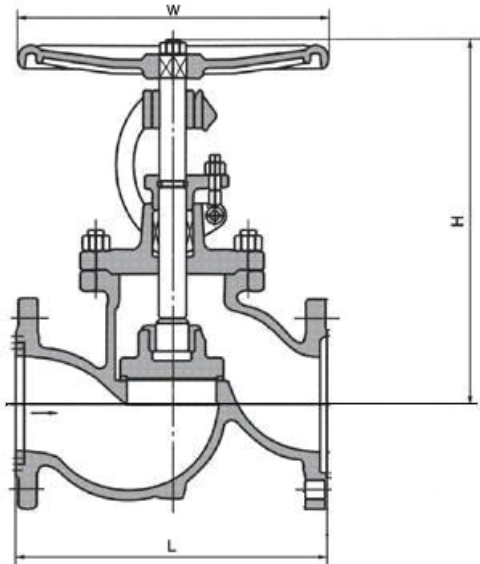
No.	Part Name	Material
1	Body	GG 25 Cast Iron
2	Seat	SAE 420
3	Disc	SS 304
4	Pin	Stainless Steel
5	Gasket	Graphite
6	Packing	Graphite
7	Compression Nut	GG 25 Cast Iron
8	Bonnet	GG 25 Cast Iron
9	Brass Nut	MS58 Brass
10	Stem	Stainless Steel SAE 304
11	Handwheel	GG 25 Cast Iron
12	Nut	DIN 934
13	Washer	DIN 127
14	Bolt	DIN 933
15	Nut	-
16	Set Screw	DIN 914

## DIMENSION TABLE (PN16 GLOBE VALVE)

DN	TS 10873 / EN 558-1 DIMENSIONS			CONNECTIONS ISO 7005-2 / EN 1092 - 2							PRODUCT DATA		
	Ømm	H	H1	L	d	D	k	g	f	b	l	Number of Holes	KV m <sup>3</sup> /h
15	160	180	130	15	95	65	46	2	14	14	4	5	3.6
20	175	190	150	20	105	75	56	2	16	14	4	8	4.9
25	185	210	160	25	115	85	65	3	16	14	4	11	5.2
32	230	255	180	32	140	100	76	3	18	19	4	18	7.5
40	235	260	200	40	150	110	84	3	18	19	4	28	9.5
50	265	290	230	50	165	125	99	3	20	19	4	46.3	12
65	300	340	290	65	185	145	118	3	20	19	4	72	23.5
80	355	400	310	80	200	160	132	3	22	19	8	126	28
100	365	415	350	100	220	180	156	3	24	19	8	170	36
125	435	490	400	125	250	210	184	3	26	19	8	267	61
150	495	550	480	150	285	240	211	3	26	23	8	380	88
200	570	660	600	200	340	295	266	3	30	23	12	683	129



## DIMENSIONS AND PRODUCT DATA (eko4100 PN40 GLOBE VALVE)



### PARTS AND MATERIALS

No.	Part Name	Material
1	Body	GS-C25 (Cast Steel)
2	Disc	GS-C25 (Cast Steel)
3	Stem	13%Cr.
4	Wedge Disc Sealing Face	13%Cr.
5	Seat Ring Sealing Face	13%Cr.

### DIMENSION TABLE (PN40 GLOBE VALVE)

Pressure (MPa)	Size	L	H	W	Weight (Kg)
PN4.0 Mpa	15	130	240	120	6
	20	150	260	140	7.5
	25	160	276	160	8
	32	180	285	160	9
	40	200	300	180	15
	50	230	325	200	24
	65	290	370	200	30
	80	310	430	250	41
	100	350	480	300	60
	125	400	532	350	85
	150	480	589	400	110
	200	600	783	450	225
	250	730	888	500	460
	300	850	965	550	670
	350	980	1285	600	830
400	1100	1512	600	1120	



# eko4000 & eko4100 PN16 & PN40 FLANGED GLOBE VALVE



## GENERAL INSTRUCTIONS AND INSTALLATION



### Handle valve with precaution

Take care of the coatings and protections. Do not drag the valves, avoid shocks and frictions which may cause starters of corrosion.



### Store the equipment under good conditions

The valves must be protected from;  
Humidity and rain to avoid corrosion;

Wind, sand: to avoid the penetration of solid particles whose presence is catastrophic for the tightness;  
Sunshine and heat; they damage the coatings, particularly harmful for plastic valves and fittings very sensitive to the ultraviolet.

Valves with rubber seat must always be stored half-opened.

The apparatuses with metal seat must be stored closed (except particular specifications) to avoid the penetration of the particles in internal volumes.

Ball valves must be stored in open position.

Preserve the apparatuses with their plastic caps which should be taken away when mounting the valves.

### Clean the pipes

Rinsing the pipes is essential (water, air, steam if compatible) before testing and starting of the installations. It is critical to eliminate all the particles and several objects which could remain in the pipes and especially welding residues which could definitively damage the valve seat.

### Clean the gasket seat

Be sure that the gasket seats are perfectly clean and free from stripes.



### Align pipings

Control piping alignment. For correcting bad alignments do not rely on the valves: this may cause leakage and operating defect or even of breaking.

### Avoid Water Hammers

A rise in pressure of extreme brutality can be generated by a water hammer. A water hammer can cause the damage: butterfly valve disc splits, destroyed various apparatus, axes deformed. There are very varied causes of the water hammers but generally: the starting of pump and the sudden closing of valve.



### Respect assembly direction

Certain valves are one-way (non-return valve, knife gate valves, etc.)

Take care of an assembly in conformity with the arrow direction or of the instructions of assembly.

### Use support for heavy valves

In certain cases, valves of large length, heavy servo-motor, it can be essential to provide for supports which will avoid tensions prejudicial with the operating risking the fast deterioration of the stem and of the tightness.



### Maintenance and control

- Control the valves yearly.
- Change the gaskets after each disassembling.
- Any maintenance action must be carried out when the installation is in the atmospheric pressure.
- Cut energy supply of the actuators.
- Respect the recommended positions of assembly.
- Respect the disassembling direction.
- In the event of prolonged storage or of weak frequency of operation, lubricate the valve stem regularly.

