



SAMAMAT FLOW CONTROL L.L.C.



GLOBE VALVES

SAMAMAT FLOW CONTROL L.L.C – COMPANY PROFILE



COMPANY LOCATION	Company Address:	Plot No. 597-4904, Warehouse No. 6, P.O. Box: 96047, DIP 2, Dubai, United Arab Emirates
	Telephone No:	+ 971 4 884 2212
	Fax:	+ 971 4 884 2213
	Web:	www.samamatuae.com
	Contact:	info@samamatuae.com
	Employees:	80
COMPANY INFORMATION	Product:	Ball Valve, DBB Ball Valve, Butterfly Valve, Gate Valve, Check Valve, Globe Valve, Dual Plate Check Valve
	Product Size:	½ "to 58 "
COMPANY SIZE	Machine Shop Area:	14,000 sq. ft.
	Welding Shop Area:	2,000 sq. ft.
	Assembly & Testing Area:	12,000 sq. ft.
	Painting Area & Stores:	5,000 & 12,000 sq. ft.
TRANSPORTATION	Airport:	DXB 35.1 KM, DWC 10.5 KM
	Seaport:	Jebel Ali 16.4 KM
CAPABILITY	MANUFACTURING: Ball Valve (1/2"-46"), Gate Valve (1/2"-36"), Globe Valve (1/2"-20") Check Valve (1/2"-24"), Butterfly Valve (1/2"-58"), Motor Operated Valve (MOV) Emergency Shutdown Valves (ESD), Actuated Valves with Hydraulic Actuator, Gas over Oil, Electro Pneumatic ETC....	
	SERVICING: Refurbishment of all kind of Ball, GGC & Butterfly Valves, Integration of Actuators, Hydro Testing & FET, Machining & Painting.	
	CLADDING: Welding & Overlay of Valves & Flanges Cladding from 4" to 36" Flanges and Valves. Maximum Bore Depth: up to 300mm for 4" and up to 800mm from 6" up to 32" Weldable Bore Dia.: 800mm	



Samamat Flow Control L.L.C. is a UAE-based Valve-Manufacturing and Valve-Servicing Company for the process, power, and energy-related industries. Samamat has state-of-the-art manufacturing facility, producing high-quality valves to meet specific requirements of both local and international clients. This modern facility is supported by a specialized team of highly-skilled, ingenious technicians who ensure that the valves consistently deliver high performance and adherence to international standards.

Samamat has been specially organized to meet client requirements through an in-house testing facility of MT, PT, UT, Hardness, Chemical Analysis and PMI, in line with Machining, Assembling, Testing, Inspection, Welding and Packing. The facility is situated in Dubai Investment Park, Dubai, UAE.

Samamat also excels in delivering outstanding services to its customers. All team members are trained to work in a SMART, dedicated and timely basis to ensure that they keep their promise to stakeholders like customers, colleagues, suppliers, regulators, financiers, and shareholders.

Mission

To offer a wide range of products and specialized services for Valves and Flanges while ensuring that the customer's needs are met on time and according to specifications.

Vision

To become a global leader in providing innovative products and services for the Flow-Control industry, creating value in order to meet customer expectations in terms of quality, reliability and customer service.

Values

Integrity | Building Relationships
Ownership & Commitment | Teamwork | Customer Focus

Quality Policy

It is the policy of Samamat Flow Control to achieve rapid and continual improvement in performance to ensure that Design, Development and Manufacturing of all product of Samamat Flow Control meet or exceed API/PED design specifications and customer requirements.

ABOUT US



QUALITY CONTROL

Samamat Flow Control L.L.C. is designed to achieve the goals to produce high quality of valves and flanges to meet the client requirements and complying to standards with State of the Art equipment, facilities and well skilled and trained workers supported by highly qualified and certified technical engineering staff.

Samamat Flow Control L.L.C. have been well organized to perform all testing requirements, with in-house facility to ensure the quality of the product by qualified NDT Inspector and AWS Certified Welding Inspector.

Test Performed In-house are:

- Magnetic Particle Examination (MT)
- Ultrasonic Examination (UT)
- Dye Penetrant Examination (DP)
- Positive Material Identification (PMI)
- Hardness Test
- Valve Pressure Test

Samamat Flow Control's Quality Management System has been certified in accordance with: ISO 9001:2015, API Spec. Q1: 9th Edition, Pressure Equipment Directive 2014/68/EU (PED) and our products meets design standards API 6D, API 594, API 600, API 602 & PED 2014/68/EU and Fire Safe according to API 607, API 6FA & ISO 10497.



CERTIFICATES

ISO 9001:2015



API SPEC Q1



API 6D - BALL VALVES



API 600 - GATE VALVES



API 602 - FORGED GGC VALVES



API 594 - CHECK VALVES



CAST STEEL GLOBE VALVE

STANDARD FEATURE	
Construction	Bolted Bonnet, Outside Screw and Yoke
Port	Reduced Bore
Stem Retention	Raising Stem
Plug	Conical Loose Disc
Operation	Hand wheel, Gear, Actuated, Chain Operated etc.,

TECHNICAL DATA	
Design	API 623 / BS1873
Design Pressure	ASME B16.34
Body Wall Thickness	ASME B16.34
Face to Face	ASME B16.10
End Connection	ASME B16.5
Testing	API 598 (Other standards upon request)
NACE	MR 0175

MATERIAL OF CONSTRUCTION FOR CAST GLOBE VALVES	
Body & Trim Material	Carbon Steel, Stainless Steel, Inconel, Duplex Stainless Steel (Other Material on Request), All Applicable API Trims available.
Packing	Fugitive Emission Leak Free Packing – upon special request.



DESIGN FEATURES OF CAST GLOBE VALVE – API 623 / BS 1873

BODY / BONNET:

One piece integrally “T” Shape cast body, the bonnet is integral or separate with the yoke and is of the same material as the body. The body-bonnet flanges are designed in accordance with ASME SECTION VIII DIV-I. The back-seat bushing in the bonnet guarantees that the packing can be replaced even when the valve is fully opened. Auxiliary connections and test points can be provided on the body/bonnet of the valve as per client requirements. Body side flanges are designed as per ASME B16.5.

DISC/PLUG:

Samamat Globe valves are designed with equal percentage, linear & quick open type plugs of which quick open is considered generally to be as the standard design. Connection between the plug and stem is loose type that the plug can freely revolve around the stem, this prevents friction and galling with the seating surface when the valve is shut. The disc is given with a conical seating surface that has been lapped to a mirror finish. The mating surface can be overlay according to the customer requirement or trim table 8 of API 623.

SEAT:

The standard seat provided by Samamat shall be of same or superior material as of body material and seal welded to body. The mating surface shall be weld overlay according to the Trim table or with Satellite 6 or as per the customer requirement.

STEM:

All Samamat Globe valves are rising stem and rising/non-rising handwheel type. The standard Stem for globe valves manufactured in Samamat are provided with Acme threads to hold its position in partially open condition, with the surface roughness of 0.2µm in the area which passes through the packing chamber. Raw material is bought in forged or Bar form as per Trim Table or customer requirement.

PACKING:

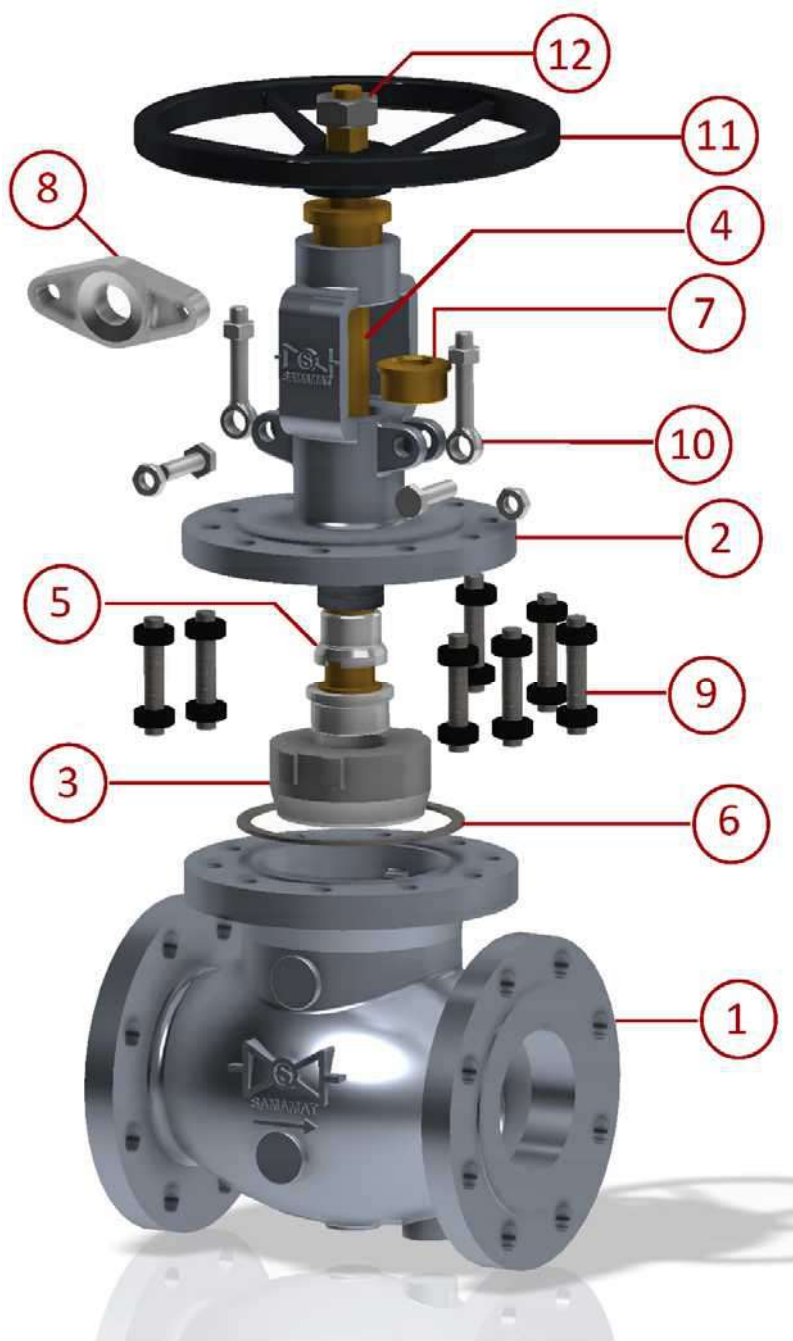
Top and bottom braided graphite and intermediate rings die mold flexible graphite packing are used to achieve low emission in high pressures and elevated temperatures.

ACTUATORS:

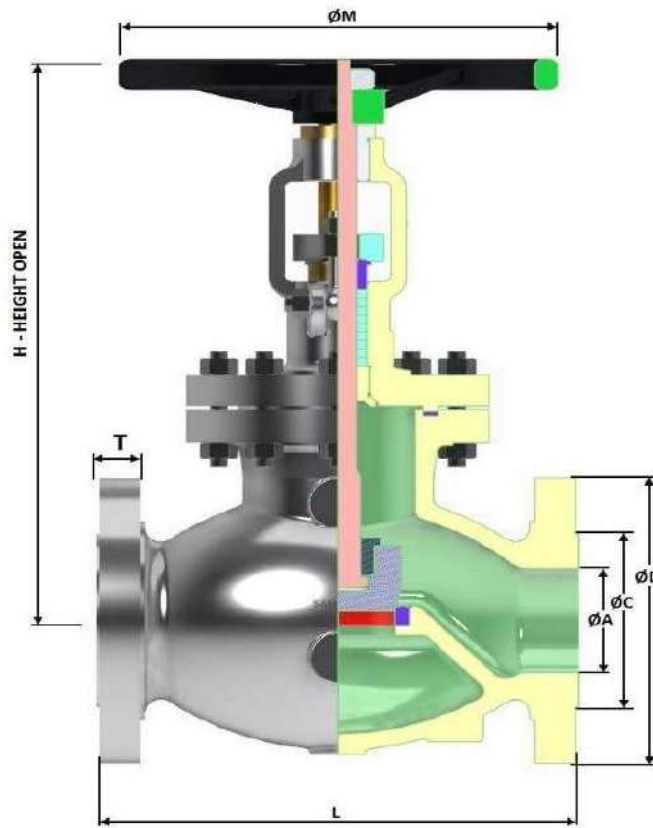
In general Hand wheel and Gear operator will be used to operate the valve and are chosen according to the Valve Thrust, Torque, required effort & No. of turns.

PART LIST OF CAST STEEL GLOBE VALVE

1	BODY
2	BONNET
3	PLUG
4	STEM
5	BACK SEAT
6	GASKET
7	GLAND BUSH
8	GLAND FLANGE
9	BOLTINGS
10	GLAND BOLT
11	HAND WHEEL
12	HAND WHEEL NUT



DIMENSIONS OF CAST GLOBE VALVE:



CLASS 150							All Dimensions are in mm			
NPS	L	ØD	ØB	T*	ØM	H	FLANGE DETAILS			APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES	
2"	203	150	92	15.9	200	335	120.7	19.05	4	23
3"	241	190	127	17.5	250	421	152.4	19.05	4	41
4"	292	230	157	22.3	250	477	190.5	19.05	8	65
6"	406	280	215.9	23.9	350	552	241.3	22.22	8	118
8"	495	345	269.9	27	350	635	298.5	22.22	8	207
10"	622	405	323.8	28.6	450	895	362	25.40	12	335
12"	698	485	381	30.2	450	1215	431.8	25.40	12	495
14"	787	535	412.8	33.4	600	1515	476.3	28.50	12	600
16"	914	595	469.9	35	600	1900	539.8	28.50	16	720

CLASS 300										
All Dimensions are in mm										
NPS	L	ØD	ØB	T*	ØM	H2	FLANGE DETAILS			APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES	
2"	267	165	92.1	20.7	200	360	127	19.05	8	30
3"	318	210	127	27	250	460	168.3	22.22	8	55
4"	356	255	157.2	30.2	350	555	200	22.22	8	95
6"	444	320	215.9	35	450	665	269.9	22.22	12	185
8"	559	380	269.9	39.7	600	840	330.2	24.50	12	320
10"	622	445	323.8	46.1	600	1010	387.4	28.50	16	520
12"	711	520	381	49.3	750	1160	450.8	31.75	16	700

CLASS 600										
All Dimensions are in mm										
NPS	L	ØD	ØB	T*	ØM	H	FLANGE DETAILS			APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES	
2"	292	165	92.1	25.4	250	400	127	19.05	8	40
3"	356	210	127	31.8	350	525	168.3	22.22	8	75
4"	432	275	157.2	38.1	400	650	215.9	25.40	8	130
6"	559	355	215.9	47.7	600	810	292.1	28.50	12	235
8"	660	420	269.9	55.6	600	950	349.2	31.75	12	535
10"	787	510	323.8	63.5	750	1280	422	34.90	16	750
12"	838	560	381	66.7	750	1550	489	34.90	20	1010

* Including Ra depth of 2mm for CLS 150, 300 & 7mm for CLS 600.



CLADDING

Cladding is a process that provides protection for metallic components by welding a layer of corrosion-resistant alloy to areas at risk of corrosion and wear exists. It can be applied to an entire component, or only to specific areas of concern.

PURPOSE OF CLADDING:

The main purpose of cladding on components is for corrosion resistance or wear resistance. While most components will have corrosion allowance built into their wall thickness the wastage rate can still be excessive for certain materials such as carbon steels or low alloy steels. Cladding provides a surface protection which then allows the substrate material to provide strength requirements to meet codes and standards.

BENEFITS OF CLADDING:

- Cladding offers superior corrosion and wear resistance properties extending the part life dramatically and reducing the risk of corrosion and wear exists.
- Another very important consideration is the dilution of the clad layer by the substrate material, as dilution can have a dramatic effect on the corrosion resistance of the cladding.
- And improve the life span of material and reducing the maintenance & shutdown operations in working severe conditions.
- Fully cladding a carbon steel component with alloy 625, as opposed to producing it in solid alloy 625, can reduce costs by as much as 50 to 60%.

CLADDING PROCESS & CAPACITY:

Samamat Flow Control L.L.C. has the capacity to process from 4" to 36" Flanges and Valves.

Maximum Bore Depth: up to 600mm

Weldable Bore Dia.: 800mm

Welding Speed: 340 to 450mm/min.

Deposition Rate: 1.7 to 2.5kg/hr

The process is usually applied to increase the availability work sources for Gas Metal Arc Welding (GMAW) & Gas Tungsten Arc Welding (GTAW) cladding of the walls with metal alloys that are more resistant to wear.

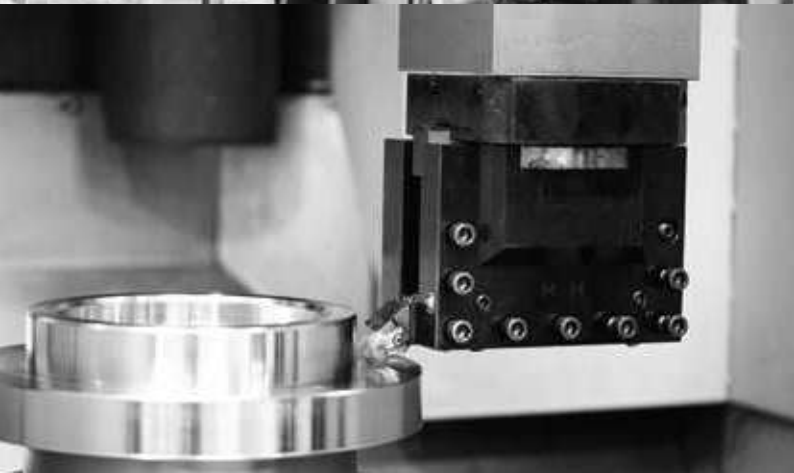
HOW CLADDING WILL IMPROVE QUALITY OF COMPONENTS:

- Unusual alloy castings can include sub-surface defects, Cladding the surface produces a very high-Quality layer with minimal imperfections.
- Cladding process that builds up the corrosion resistant alloy (CRA) layer of 1.5 to 3 mm on the welded parts of flange and Valve. It protects the piping system's integrity and provides a low cost and long-term solution.
- A full range of NDT provides reassurance of quality.



FACILITY DETAILS

SL.NO.	MACHINE NAME	MACHINE TYPE	QUANTITY
1	Horizontal Turning Center	CNC	1 No.
2	Horizontal Turning Mill Center	CNC	1 No.
3	Vertical Machining Center	CNC	1 No.
4	Vertical Turning Lathe	CNC	1 No.
5	Surface Grinding Machine	Semi-Automatic	1 No.
6	Radial Drilling Machine	Manual	1 No.
7	Pillar Drilling Machine	Manual	1 No.
8	Heavy Duty Lathe	Manual	2 No's.
9	Medium Duty Lathe	Manual	2 No's
10	Light Duty Lathe	Manual	3 No's.
11	Universal Milling Machine	Manual	1 No.
12	Band Saw Cutting Machine	Semi-Automatic	2 No's.
13	Horizontal Boring Machine	Manual	1 No.
14	Vertical Slotting Machine	Manual	2 No's.
15	Thread Cutting Machine	Manual	2 No's.
16	Air Compressor	Automatic	1 No.
17	MIG Welding Machine	Semi-Automatic	1 No.
18	TIG Welding Machine	Manual	1 No.
19	ARC Welding Machine	Manual	1 No.
20	Vertical Hydro Testing Machine	Manual	1 No.
21	Horizontal Hydro Testing Machine	Manual	1 No.
22	Mobile Hydro Testing Machine	Manual	1 No.
23	Wedge Lapping Machine	Manual	1 No.
24	Body Lapping Machine 2" - 12"	Manual	1 No.
25	Body Lapping Machine 14" - 24"	Manual	1 No.
26	Marking Machine	Manual	1 No.
27	A Frame Crane	6 Tons	1 No.
28	A Frame Crane	3 Tons	3 No's.





Samamat Flow Control L.L.C.
Warehouse No: 6, Plot No: 597-4904,
Dubai Investments Park 2, Dubai, U.A.E.
P.O. Box: 96047



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