



SAMAMAT FLOW CONTROL L.L.C.



GATE VALVES



COMPANY PROFILE

Company Location	Company Name	SAMAMAT FLOW CONTROL L.L.C
	Company Address	Plot No 597-4904, Warehouse No 6, P.O. Box: 96047, DIP 2, Dubai, UAE
	Telephone Number	+971 4 884 2212
	Fax Number	+971 4 884 2213
	Website	www.samamatuae.com
	Contact	info@samamatuae.com
Company Information	Employees	35
	Product	Ball Valve, Gate Valve, Check Valve, Globe Valve & Flanges
	Production Size	1/2" to 42"
Company Size	Machine Shop Area	9,000 sq.ft.
	Welding Shop Area	1,200 sq.ft.
	Assembly Area	9,800 sq.ft.
	Testing Area	4,250 sq.ft.
Nearest Transportation	Airport	DXB 35.1KM, DWC 10.5KM
	Seaport	Jebel Ali 16.4KM



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 GATE VALVE

STANDARD FEATURE	
Construction	Bolted Bonnet, Outside Screw and Yoke (Pressure Seal Bonnet shall be provided on Request)
Port	Reduced Bore
Stem Retention	Raising Stem
Wedge	Flexible Wedge, (Solid Wedge, Cavity Relief on Wedge can be provided on request)
Operation	Hand wheel, Gear, Actuated, Chain Operated etc.,

TECHNICAL DATA	
Design	API 600 / ASME B16.34
Design Pressure	ASME B16.34, API 600
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 Gate 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 GATE VALVE – API 600

BODY / BONNET:

One piece integrally cast body with reinforced ribs in larger diameters for Additional strength, internally casted wedge guides allows for appropriate placement of the wedge. The flow bore, and internal design of the body ensures smooth flow without any restriction and very low differential pressure. 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 as per ASME B16.5 & For larger size ASME B16.47.

WEDGE:

Unless specified by the purchaser, Samamat provides flexible wedge design for valves above 2" in size. Wedges are lapped using diamond based abrasive paste for a very fine surface contact sealing between the Wedge and Seat surface. Material for Wedge is selected according to Trim Table defined in API-600, IS-standard only if specified by purchaser.

SEAT:

Samamat provides seal welded seats of same or superior material as of body material which is as per the requirement hard-faced at the mating area.

STEM:

The standard Stem for gate valves manufactured in Samamat are provided with ACME threads at one end and T-Slot at the other 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 8 of API 600.

PACKING:

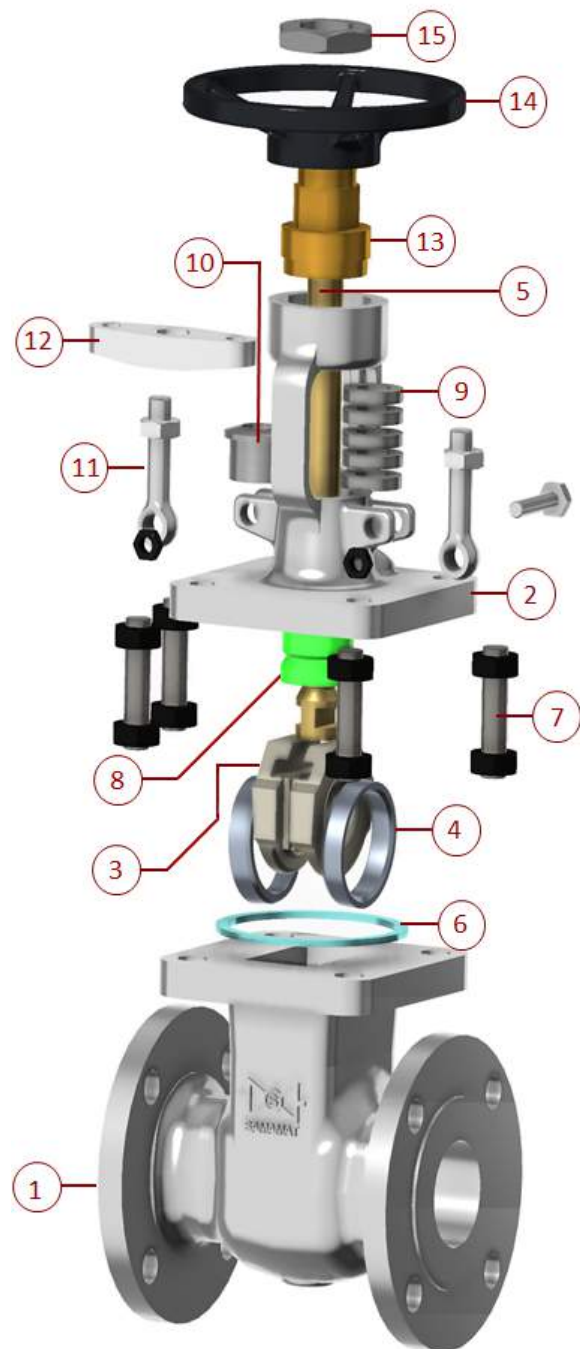
Top and bottom braided graphite and intermediate rings die mold flexible graphite packing are used to achieve low emission in high pressures and elevated temperatures.

ACTUATORS:

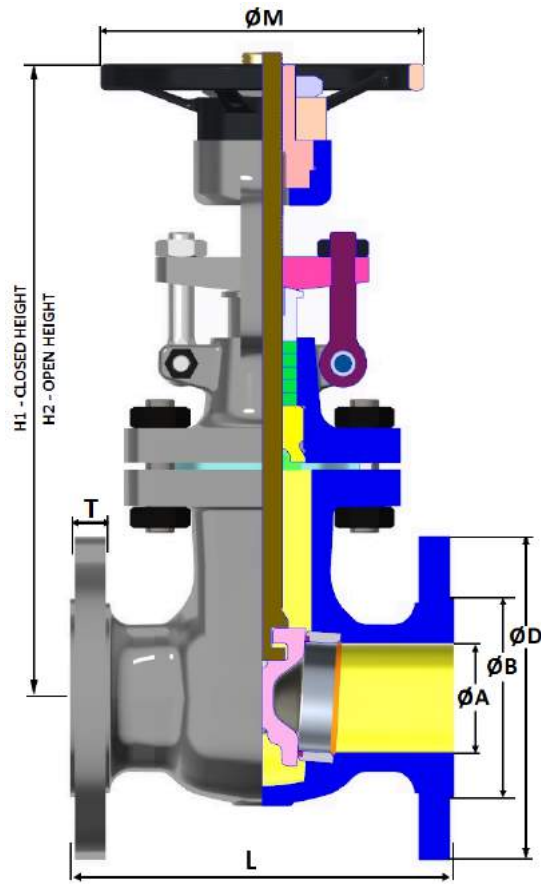
In general Hand wheel and Gear operator will be used to operate the valve and are chosen according to the Valve Thrust, Torque, required effort & No. of turns, Samamat Gate valves can be automated with both electrical and pneumatic multiturn actuator. Our Gear Box operated valves are easily convertible to MOV as the same are provided with ISO mounting pad which is interchangeable to any actuator brand.

PART LIST OF CAST STEEL GATE VALVE

1	BODY
2	BONNET
3	WEDGE
4	SEAT
5	STEM
6	GASKET
7	BOLTING'S
8	BACK SEAT
9	PACKING
10	GLAND
11	GLAND BOLT
12	GLAND FLANGE
13	STEM NUT
14	HAND WHEEL
15	H W NUT



DIMENSIONS OF CAST GATE VALVE:



CLASS 150											All Dimensions are in mm
NPS	L	ØD	ØB	T*	H1	H2	FLANGE DETAILS			ØM	APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES		
2"	178	150	92	16.3	305	365	120.7	19.05	4	200	22
3"	203	190	127	19.5	380	465	152.4	19.05	4	250	35
4"	229	230	157	24.3	455	570	190.5	19.05	8	250	55
6"	267	280	216	25.9	595	750	241.3	22.30	8	350	90
8"	292	345	270	29.0	730	945	298.5	22.30	8	350	140
10"	330	405	324	30.6	840	1150	362	25.40	12	450	200
12"	356	485	381	32.2	1040	1360	431.8	25.40	12	450	298
14"	381	535	413	35.4	1150	1510	476.3	28.50	12	450	410
16"	406	595	470	37.0	1285	1695	539.8	28.60	16	450	520

CLASS 150

All Dimensions are in mm

NPS	L	ØD	ØB	T*	H1	H2	FLANGE DETAILS			ØM	APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES		
18"	432	635	533	40.1	1410	1865	577.9	31.80	16	450	690
20"	457	700	584	43.3	1570	2080	635	31.80	20	450	900
24"	508	815	692	48.1	1835	2445	749.3	34.90	20	450	1400
28"	610	925	749	69.9	2628	3328	863.6	41.27	28	610	1931
30"	660	985	800	73.1	2856	3606	914.4	41.27	28	610	2380
32"	711	1060	857	79.4	2908	3708	977.9	47.7	28	610	2490
34"	762	1110	914	81.0	3012	3862	1028.7	47.7	32	610	3200
36"	813	1170	965	88.9	3024	3924	1085.8	47.7	32	610	3600

CLASS 300

All Dimensions are in mm

NPS	L	ØD	ØB	T*	H1	H2	FLANGE DETAILS			ØM	APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES		
2"	216	165	92	20.7	305	365	127	19.05	8	200	25
3"	282	210	127	27	380	465	168.3	22.30	8	250	50
4"	305	255	157	30.2	460	575	200	22.30	8	250	80
6"	403	320	216	35	605	760	269.9	22.30	12	350	150
8"	419	380	270	39.7	795	1010	330.2	25.40	12	450	225
10"	457	445	324	46.1	940	1200	387.4	28.50	16	550	330
12"	502	520	381	49.3	1090	1410	450.8	31.80	16	450	460
14"	760	585	413	52.4	1285	1640	514.4	31.80	20	450	750
16"	838	650	470	55.6	1370	1770	571.5	34.90	20	450	960
18"	914	710	533	58.8	1480	1930	628.6	34.90	24	450	1300
20"	991	775	584	62	1625	2130	685.8	34.90	24	450	1650
24"	1143	915	692	68.3	1910	2510	821.8	41.27	24	600	2450
28"	1346	1035	800	84.2	2400	3100	939.8	45	28	610	3893
30"	1397	1090	857	90.5	2410	3160	997.0	47.6	28	610	4930
32"	1524	1150	914	96.9	2410	3210	1054.1	50.8	28	610	5400
34"	1626	1205	965	100.1	2420	3270	1104.9	50.8	28	610	5900
36"	1727	1270	1022	103.2	2420	3320	1168.4	54	32	610	6390



CLASS 600											All Dimensions are in mm
NPS	L	ØD	ØB	T	H1	H2	FLANGE DETAILS			ØM	APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES		
2"	292	165	92	25.4	365	425	127	19.05	8	200	41
3"	356	210	127	21.8	465	550	168.3	22.30	8	250	65
4"	432	275	157	38.1	530	645	215.9	25.40	8	300	120
6"	559	355	216	47.7	730	905	292.1	28.50	12	600	250
8"	660	420	270	55.6	825	1035	349.2	31.80	12	600	420
10"	787	510	324	63.5	1175	1450	431.8	34.90	16	450	650
12"	838	560	381	66.7	1230	1530	489	34.90	20	450	1100
14"	889	605	413	69.9	1435	1790	527	38.10	20	450	1510
16"	991	685	470	76.2	1365	1755	603.2	41.27	20	450	1950
18"	1092	745	533	82.6	1525	1945	654	44.45	20	600	2050
20"	1194	815	584	88.9	1850	2315	723.9	44.45	24	600	2130
24"	1397	940	692	101.6	1935	2520	838.2	50.80	24	600	3600
28"	1549	1075	800	111.2	2480	3180	965.2	54	28	650	4200
30"	1651	1130	857	114.3	2510	3200	1022.4	54	28	650	4910
32"	1778	1195	914	117.5	2590	3290	1080	60	28	700	5480
34"	1930	1245	965	120.7	2610	3310	1130.3	60	28	700	5990
36"	2038	1315	1022	123.9	2610	3370	1194	66	28	700	6250

CLASS 900											All Dimensions are in mm
NPS (ØA)	L	ØD	ØB	T	H1	H2	FLANGE DETAILS			ØM	APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES		
2"	368	215	92.1	38.1	570	620	165.1	25.5	8	300	95
3"	381	240	127	38.1	663	737	190.5	28.5	8	350	125
4"	457	290	157.2	44.5	725	825	235	32	8	400	194
6"	610	380	215.9	55.6	915	1065	317.5	32	12	500	374
8"	737	470	269.9	63.5	1019	1219	393.7	38	12	600	635
10"	838	545	323.8	69.9	1095	1345	469.9	38	16	610	900
12"	965	610	381	79.4	1540	1840	533.4	38	20	610	1550

CLASS 1500											
All Dimensions are in mm											
NPS (ØA)	L	ØD	ØB	T	H1	H2	FLANGE DETAILS			ØM	APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES		
2"	368	215	92.1	38.1	645	695	165.1	25.5	8	350	95
3"	470	265	127	47.7	695	770	203.2	32	8	400	181
4"	546	310	157.2	54	772	872	241.3	35	8	500	275
6"	705	395	215.9	82.6	942	1092	317.5	38	12	600	627
8"	832	485	269.9	92.1	1200	1400	393.7	45	12	610	1000
10"	991	585	323.8	108	1350	1600	482.6	51	12	610	2200
12"	1130	675	381	123.9	1540	1840	571.5	54	16	610	3300

CLASS 2500											
All Dimensions are in mm											
NPS (ØA)	L	ØD	ØB	T	H1	H2	FLANGE DETAILS			ØM	APPROX. WEIGHT (Kg)
							PCD	HOLE DIA	# OF HOLES		
2"	451	235	92.1	51	650	700	171.4	29	8	350	135
3"	578	305	127	67	812	887	228.6	35	8	450	271
4"	673	356	157.2	76.5	979	1079	273	42	8	500	506
6"	941	483	215.9	108	1300	1450	368.3	54	8	610	1600
8"	1022	550	269.9	127	1410	1610	438.1	54	12	610	2450
10"	1270	675	323.8	165.5	1826	2076	539.7	67	12	610	4570
12"	1422	760	381	184.2	1981	2281	619.1	72.5	12	700	7150

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

Note: End Flange Dimensions: Size 2" – 24" to ASME B16.5 & Size 28" and above to ASME B16.47 Series A.



ON/OFF VALVES - MOTOR OPERATED (MOV)

The valves manufactured in Samamat Flow controls can be supplied with:

- Electric Actuators for Motor Operated Valves (MOV).

The actuators can be supplied with all kind of accessories like:

- Limit Switches
- Interlock System

We can supply our valves equipped with any actuator Brand as per needed by the customer and / or the Project specification.

The actuators are sized, assembled, regulated and functional tested by Samamat Flow Control L.L.C, assuring correct integration & performance of the valve & actuator.



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:

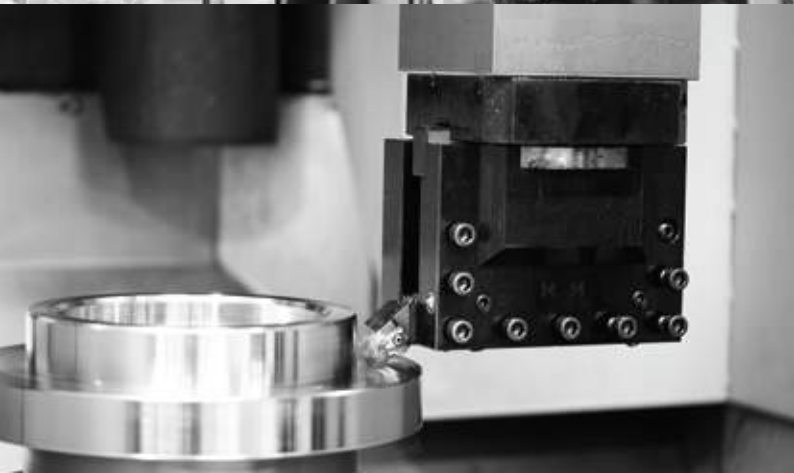
- Unusual alloy castings can include sub-surface defects, Cladding the surface produces a very high-Quality layer with minimal imperfections.
- Cladding process that builds up the corrosion resistant alloy (CRA) layer of 1.5 to 3 mm on the welded parts of flange and Valve. It protects the piping system's 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.





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