4Matic®

Industrial Valves and Valve Automation

Gate, Globe & Check Valves

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www.4maticvalves.com

Company Profile

4Matic is a valve manufacturer and exporter with over 40 years of combined experience in the global Industrial Valves and Valve Automation industry. We produce high-quality valves for a wide range of sectors, including Process and Chemical industries, Refineries and Petrochemicals, Fertilizers, Pharmaceuticals, Thermal and Nuclear Power Stations, Textiles, Dyes and Intermediates, Paints and Varnishes, Sugar, Breweries and Distilleries, Soaps and Detergents, Steel Plants, Food and Oil, Solvent Extraction, Sewage, Effluent and Water Treatment, Cooling Water Systems, Shipyards, Marine Management, Water Works, Pulp and Paper, LPG Bottling, Onshore and Offshore Platforms, and Slurry and Ash Handling.

Incorporated in 2005, **4Matic** set out with a vision to design and manufacture industrial valves, AWWA butterfly valves, and pneumatic actuators that would excel in demanding future process applications. By leveraging cutting-edge engineering techniques, advanced materials, precision machining, finite analysis, and rigorous testing procedures, we developed valves that outperformed the competition while meeting sustainability and automation requirements. Over the following years, we refined our manufacturing process, testing our valves in various applications to validate and confirm the success of our initial designs.

Building on the success of our resilient seated valves, **4Matic** introduced a range of PTFE seated butterfly valves, available in sizes from 1" to 24". These butterfly valves quickly gained a reputation for solving industry problems. In response to high-temperature applications, we designed metal-seated butterfly valves. By 2009, **4Matic** expanded further, adding a comprehensive line of pneumatic and electric automation products. We also introduced butterfly valves for the commercial HVAC market. Our relentless focus on research and development led to the design of high-performance and triple offset butterfly valves for critical Oil and Gas industry applications.

While **4Matic**'s core expertise lies in butterfly valves, triple offset valves, forged gate valves, globe valves, and automation, increasing customer demand spurred the introduction of a complete range of process valves, including ball valves, gate valves, check valves, and knife gate valves. Our growth is a testament to the dedication and hard work of our employees, who consistently deliver high-quality valve and automation packages. This commitment has earned us the trust of our customers, who know that **4Matic** valves and automation products are thoroughly designed, rigorously tested, and reliably perform as expected.

At **4Matic**, our goal is not just to secure an order but to ensure customer satisfaction. Our commitment to quality products, skilled personnel, and customer needs has earned us ongoing recognition. We look forward to serving you and contributing to a sustainable future.

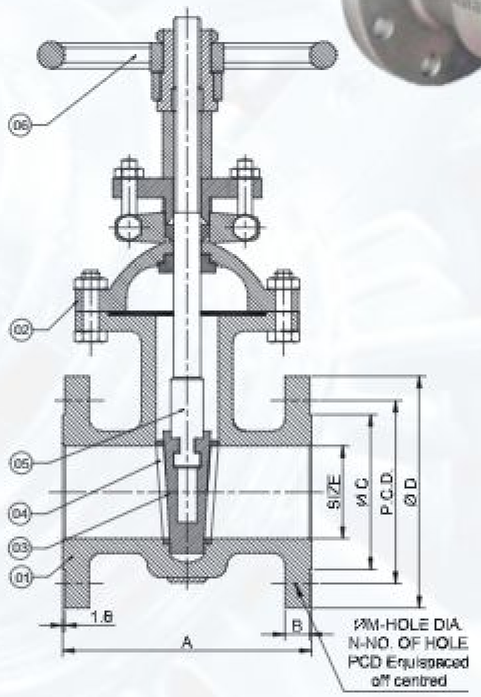
GATE VALVE (150# / 300#)

4Matic

Industrial Valves and Valve Automation

4Matic gate valves are primarily designed to start or stop flow, particularly when a straight-line flow of fluid with minimal flow restriction is required. In service, these valves are typically either fully open or fully closed.

No.	Parts Name	Material	Qty.
01	Body	ASTM A 216 Gr. WCB / CF8 / CF8M	1
02	Bonnet	ASTM A 216 Gr. WCB / CF8 / CF8M	1
03	Wedge	ASTM A 216 Gr. WCB / CF8 / CF8M	1
04	Seat Ring	AISI 410 (13% CR) / S.S. 304 / 316	2
05	Stem	AISI 410 (13% CR) / S.S. 304 / 316	1
06	Hand Wheel	S G IRON	1



TECHNICAL DATA	
Design & Manufacturing STD.	BS-1414 / API 600
Testing & Inspection STD.	API 598
End Connections :	FLANGED AS PER ANSI B-16.5 150#
Shell Wall Thickness	ANSI B 16.34
Face To Face :	AS PER ANSI / B 16.10

PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESSURE	TEMP.	HYD. BODY	PRESSURE SEAT
150	150 PSIG	260°C	425 PSIG	300 PSIG
300	300 PSIG	426°C	1100 PSIG	800 PSIG

SIZE		CLASS - 300							
TOLERANCE		±3MM	±3MM	±1MM	±3MM			±1.5 MM	
IN.	MM	A	B	ØC	ØD	ØM	N	P.C.D.	ØW
1. 1/2"	40	190.5	20.5	73	155.4	22	4	114.3	152
2"	50	215.9	22	92	165	19	8	127	203
2. 1/2"	65	241.3	25	105	190.5	22	8	149.3	203
3"	80	282.5	28.5	127	209.5	22	8	168.1	254
4"	100	304.8	32	157	254	22	8	200.1	305
5"	125	381	35	186	279.4	22	8	234.9	356
6"	150	403.2	36.5	216	317.5	22	12	269.7	356
8"	200	419.1	41	270	381	25	12	330.2	406
10"	250	457.2	48	324	444.5	29	16	387.3	457
12"	300	501.6	51	381	520.7	32	16	450.8	508
14"	350	762	54	413	584.2	32	20	514.3	508
16"	400	838.2	57	470	647.7	35	20	571.5	508

SIZE		CLASS - 150							
TOLERANCE		±3MM	±3MM	±1MM	±3MM			±1.5 MM	
IN.	MM	A	B	ØC	ØD	ØM	N	P.C.D.	ØW
01"	25	127.0	11.0	51	108.0	16	04	79.2	123
1. 1/2"	40	165.1	14.2	73	127.0	16	04	98.5	152
2"	50	177.8	15.7	92	152.0	19	04	120.6	203
2. 1/2"	65	190.5	17.5	105	178.0	19	04	139.7	203
3"	80	203.2	19.0	127	190.5	19	04	152.4	254
4"	100	228.6	24.0	157	229.0	19	08	190.5	305
5"	125	254.0	24.0	186	254.0	22	08	215.9	305
6"	150	266.7	25.0	216	279.0	22	08	241.3	356
8"	200	292.1	28.5	270	343.0	22	08	298.4	356
10"	250	330.2	30.0	324	406.0	25	12	362.0	406
12"	300	356	32.0	381	483.0	25	12	431.8	457
14"	350	381.0	35.0	413	534.0	28	12	476.2	508
16"	400	406.4	36.5	470	597.0	28	16	539	508

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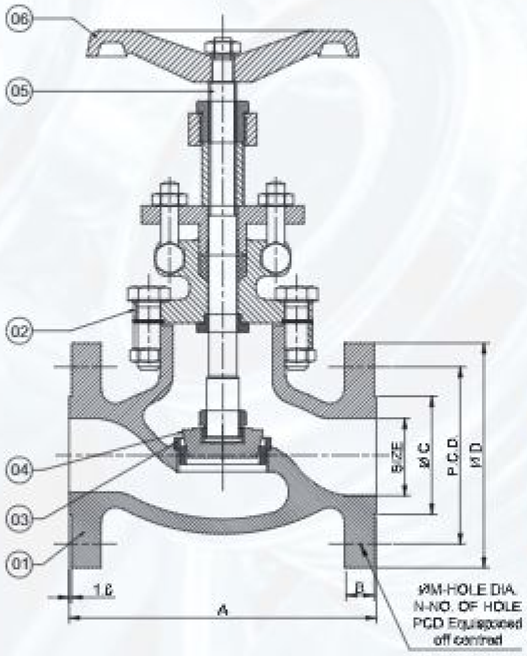
Industrial Valves and Valve Automation

GLOBE VALVE FLANGE ENDS (150# / 300#)

4Matic globe valves are linear motion valves primarily designed to stop, start, and regulate flow. The disc of a globe valve can be fully removed from the flow path or completely close it, depending on the operation.

No.	Parts Name	Material	Qty.
01	Body	ASTM A 216 Gr. WCB / CF8 / CF8M	1
02	Bonnet	ASTM A 216 Gr. WCB / CF8 / CF8M	1
03	Seat Ring	AISI 410 (13% CR) / S.S. 304 / 316	1
04	Disc	AISI 410 (13% CR) / S.S. 304 / 316	1
05	Stem	AISI 410 (13% CR) / S.S. 304 / 316	1
06	Hand Wheel	S G IRON	1



TECHNICAL DATA	
Design & Manufacturing STD.	BS 1873
Testing & Inspection STD.	API 598 / BS 5146
End Connections :	FLANGED AS PER ANSI B-16.5 150#
Shell Wall Thickness	ANSI B 16.34
Face To Face	AS PER ANSI / B 16.10

PRIMARY SERVICE RATING & TEST PRESSURE

CLASS	WORKING PRESSURE	TEMP.	HYD. PRESSURE BODY	HYD. PRESSURE SEAT
150	150 PSIG	260°C	425 PSIG	300 PSIG
300	300 PSIG	426°C	1100 PSIG	800 PSIG

SIZE		CLASS - 150							
TOLERANCE		±3MM	±3MM	±1MM	±3MM				±1.5 MM
IN.	MM	A	B	ØC	ØD	ØM	N	P.C.D.	ØW
1"	25	127	11.0	51	108.0	16	4	79.2	100
1.1/2"	40	165	14.2	73	127.0	16	4	98.5	135
2"	50	203	15.7	92	152.0	19	4	120.6	200
2.1/2"	65	216	17.5	105	178.0	19	4	139.7	250
3"	80	241	19.0	127	190.5	19	4	152.4	250
4"	100	292	24.0	157	229.0	19	8	190.5	300
5"	125	356	24.0	186	254.0	22	8	215.9	350
6"	150	406	25.0	216	279.0	22	8	241.3	350
8"	200	495	28.5	270	343.0	22	8	298.4	400
10"	250	622	30.0	324	406.0	25	12	362.0	450
12"	300	698	32.0	381	483.0	25	12	431.8	500

SIZE		CLASS - 300							
TOLERANCE		±3MM	±3MM	±1MM	±3MM				±1.5 MM
IN.	MM	A	B	ØC	ØD	ØM	N	P.C.D.	ØW
1"	25	203	17.5	51	124	19	4	89	135
1.1/2"	40	229	20.5	73	155.5	22	4	114.3	200
2"	50	267	22	92	165	19	8	127	200
2.1/2"	65	292	25	105	190.5	22	8	149.3	200
3"	80	317.5	28.5	127	209.5	22	8	168	300
4"	100	356	32	157	254	22	8	200	350
5"	125	400	35	186	279.4	22	8	235	350
6"	150	444.5	36.5	216	317.5	22	12	269.7	400
8"	200	559	41	270	381	25	12	330.2	550
10"	250	622	47.5	324	444.5	28	16	387.4	600
12"	300	711	51	381	521	32	16	150.8	600

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SWING TYPE CHECK VALVE (150# / 300#)

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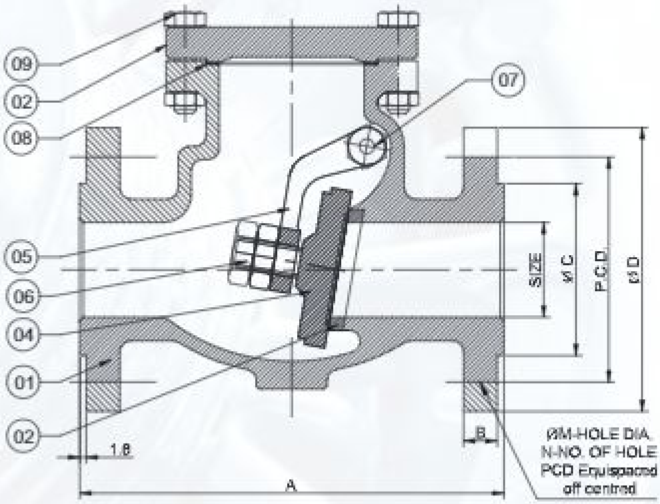
4Matic swing-type check valves are automatic valves that open with forward flow and close with reverse flow. The pressure of the fluid moving through the system opens the valve, while a reversal of flow closes it.

No.	Parts Name	Material	Qty.
01	Body	WCB / S.S. 304 / S.S. 316	1
02	Cover	C.S. / S.S. 304 / S.S. 316	1
03	Seat Ring	S.S. 410 / S.S. 304 / S.S. 316	1
04	Disc	S.S. 410 / S.S. 304 / S.S. 316	1
05	Hinge	WCB / S.S. 304 / S.S. 316	1
06	Disc Nut	Carbon Steel	1
07	Hinge Pin	S.S. AISI 410	1
08	Gasket	SPRIAL WOUND S.S. 304	1
09	Cover Stud & Nut	B7 - 2H	1

TECHNICAL DATA	
Design & Manufacturing STD.	ANSI B 16.35 / BS 1868
Testing & Inspection STD.	API 598 / BS 5146
End Connection	FLANGED AS PER ANSI B 16.5
Shell Wall Thickness	ANSI B 16.34
Face To Face	AS PER ANSI / B 16.10



PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESSURE	TEMP.	HYD. PRESSURE BODY	SEAT
150	150 PSIG	260°C	425 PSIG	300 PSIG
300	300PSIG	426°C	1100 PSIG	800 PSIG

TEST PRESSURE		
Testing	Body	Seat
Hydraulic	32 kg/cm²	22 kg/cm²

SIZE		CLASS - 300						
TOLERANCE		±3MM	±3MM	±1MM	±3MM			
IN.	MM	A	B	ØC	ØD	ØM	N	P.C.D.
1.1/2"	40	241.3	20.5	73	156	22	4	114.3
2"	50	266.7	22	92	165	19	8	127
2.1/2"	65	292	25	105	190.5	22	8	149.3
3"	80	317.5	28.5	127	209.5	22	8	168
4"	100	355.6	32	157	254	22	8	200
5"	125	400	35	186	279.4	22	8	235
6"	150	444.5	36.5	216	317.5	22	12	269.7
8"	200	533.4	41	270	381	25	12	330.2
10"	250	622.3	47.5	324	444.5	28	16	387.4
12"	300	711.2	51	381	521	32	16	450.8
14"	350	838	54	413	584	32	20	514.3
16"	400	863.6	57	470	648	35	20	571.5

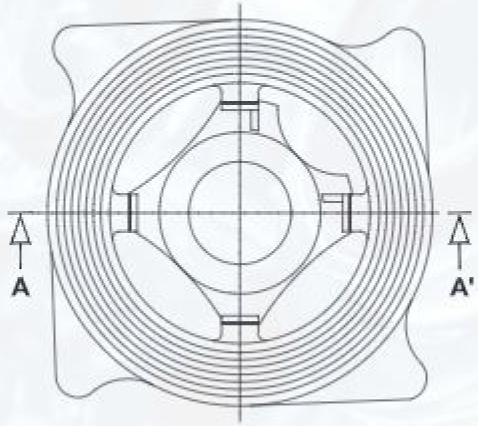
SIZE		CLASS - 150						
TOLERANCE		±3MM	±3MM	±1MM	±3MM			
IN.	MM	A	B	ØC	ØD	ØM	N	P.C.D.
1.1/2"	40	165	14.2	73	127.0	16	4	98.5
2"	50	203	15.7	92	152.0	19	4	120.6
2.1/2"	65	216	17.5	105	178.0	19	4	139.7
3"	80	241	19.0	127	190.5	19	4	152.4
4"	100	292	24.0	157	229.0	19	8	190.5
5"	125	330	24.0	186	254.0	22	8	215.9
6"	150	356	25.0	216	279.0	22	8	241.3
8"	200	495	28.5	270	343.0	22	8	298.4
10"	250	622	30.0	324	406.0	25	12	362.0
12"	300	699	32.0	381	483.0	25	12	431.8
14"	350	787	35.0	413	533.0	28	12	476.2
16"	400	864	36.5	470	597.0	28	16	539.8

DISC TYPE CHECK VALVE

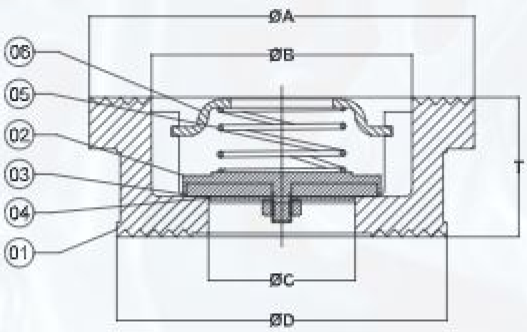
4Matic disc-type check valves are automatic valves that open with forward flow and close with reverse flow. The pressure of the fluid opens the valve, while any reverse flow will close it.

No.	Part Name	Material	Qty.
01	Body	ASTM A 351 GR. CF8 / CF8M	1
02	Disc	AISI 304 Or AISI 316	1
03	Spring	AISI 304 Or AISI 316	1
04	Cover Plate	AISI 304 Or AISI 316	1
05	Disc Seat	Metal To Metal	1

Technical Data	
Valve Type	WAFER DESIGN
Flange Std. Confirmation	AS PER 150#
Temperature	120°C MAX
Manufacturing STD.	BS 7438
Inspection And Testing STD.	API 598



Hydraulic Test Pressure	
Body	30 Bar (G)
Seat	22 Bar (G)
Pneumatic Test Pressure	07 Bar (G)



Section A A'

SIZE		CLASS - 150				
TOLERANCE		±1MM	±1MM	±1MM	±1MM	±3MM
IN.	MM	ØA	ØB	ØC	ØD	T
1/2"	15	43	29	15	37	16
3/4"	20	53	35	20	44	19
1"	25	63	44	25	56	22
1 1/4"	32	74	53	32	67	28
1 1/2"	40	85	66	39	78	32
2"	50	95	77	49	92	40
2 1/2"	65	115	98	64	107	44
3"	80	133	110	79	121	50
4"	100	155	129	100	142	60
5"	125	190	161	125	184	90
6"	150	223	191	150	223	105
8"	200	279	249	193	279	143
10"	250	340	306	248	338	140
12"	300	427	330	300	427	250

WAFER TYPE CHECK VALVE

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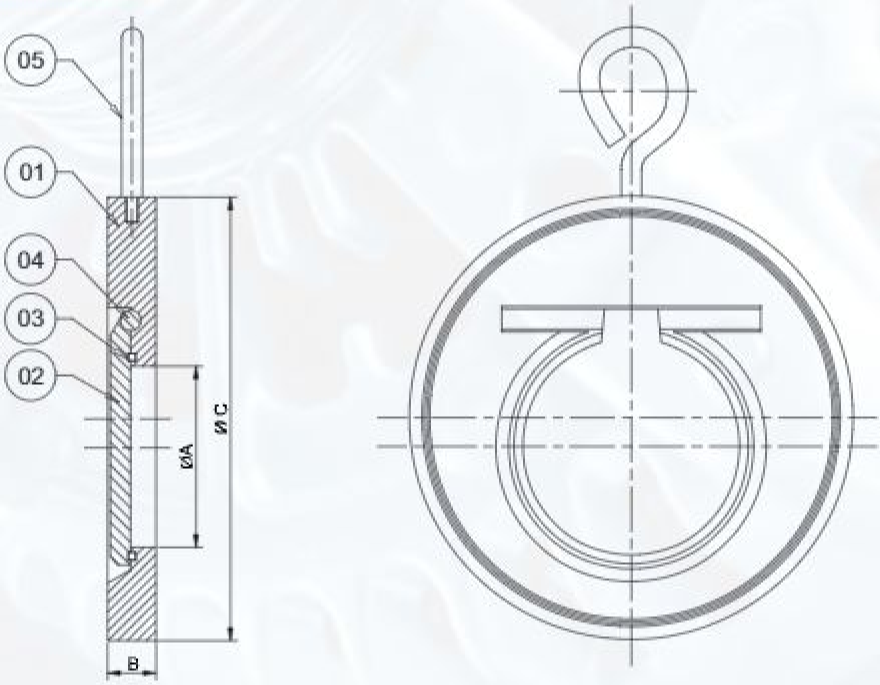
4Matic wafer-type check valves are primarily single-plate swing check valves with a short-pattern wafer body. The internal disc design allows the valve to open or close with minimal differential pressure.

No.	Part Name	Material	Qty.
1	Body	C.I. / M.S. / CF8 / CF8M	1
2	Disc	C.I. / M.S. / CF8 / CF8M	1
3	'O' Ring	NITRILE / EPDM / VITON / SILICON / PTFE	1
4	Hinge Pin	AISI 304 / AISI 316 / M.S.	1
5	Lifting Hook	M.S. / S.S.	1

TECHNICAL DATA	
Design & Manufacturing STD.	API 6D / ANSI B 16.34
Testing & Inspection STD.	API 598
Pressure Class :	150#

PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESSURE	TEMP.	HYD. BODY	PRESSURE SEAT
150	PN 10	20°C To 180°C	225 PSIG	150 PSIG

SIZE		CLASS - 150		
IN.	MM	ØA	B	ØC
1"	25	14	16	64
1.1/2"	40	22	19	86
2"	50	30	19	104
2.1/2"	65	40	19	123
3"	80	52	19	136
4"	100	71	19	174
5"	125	83	19	196
6"	150	114	19	221
8"	200	157	28	278
10"	250	195	28	339
12"	300	230	38	409
14"	350	270	44	449
16"	400	310	50	512
18"	450	360	60	545
20"	500	406	63	605
24"	600	490	70	714



4Matic®

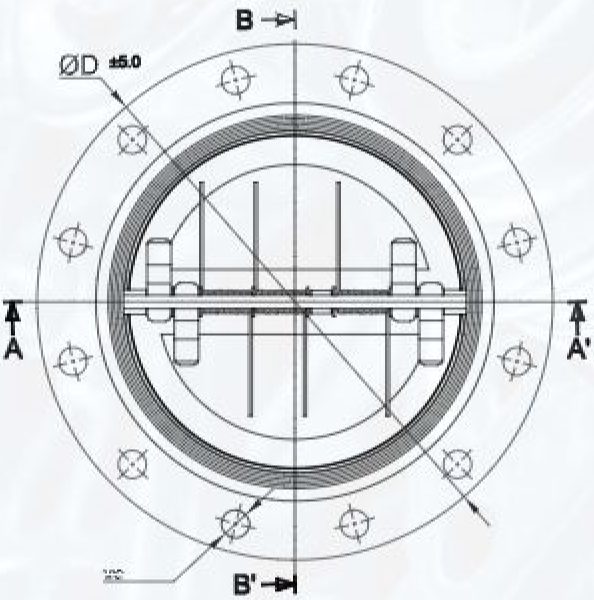
Industrial Valves and Valve Automation

DUAL PLATE CHECK VALVE

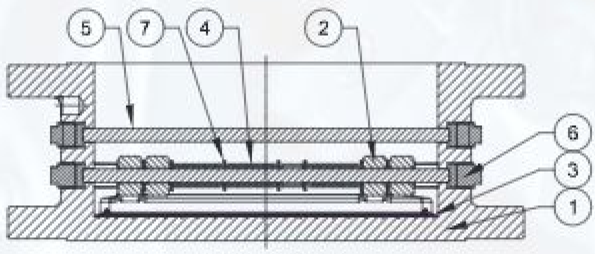
4Matic dual check valves are spring-loaded check valves uniquely designed for specific applications. Their construction makes them smaller in size, lighter in weight, and more efficient in operation compared to conventional swing check valves.

No.	Part Name	Material	Qty.
1	Body	C.I. - IS : 210 GR. FG 200 /	1
		ASTM A 216 GR. WCB	
2	Plate	A 351 GR. CF8	2
3	Seat	NBR, EPDM, VITON	1
4	Spring	AISI 304 / AISI 316	2
5	Stop Pin	AISI 304 / AISI 316	1
6	Pin Loak Nut	MS (ASTM A 350 CLASS LF1)	1
7	Space Washer	S.S. 304 (ASTM A 276 TYPE 304)	1

TECHNICAL DATA	
Design & Manufacturing STD.	API 594
Testing & Inspection STD.	API 598
End Connections	WAFER TYPE SUIT TO ANSI B 16.5 (150#)
Face To Face	API 594



PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESSURE	TEMP.	HYD. BODY	PRESSURE SEAT
150	20°F To 180°F		21 PSIG	11 PSIG



Section A A'

SIZE		CLASS - 150		
IN.	MM	ØA	ØB	ØD
2"	50	50	60	105
2.1/2"	65	65	75	124
3"	80	76	90	134
4"	100	100	115	172
5"	125	125	135	196
6"	150	150	165	220
8"	200	200	220	276
10"	250	250	265	338
12"	300	300	320	407
14"	350	350	350	448
16"	400	400	400	514
18"	450	450	450	549
20"	500	500	500	603
24"	600	600	600	718

FORGED STEEL GATE VALVE (800#)

4Matic®
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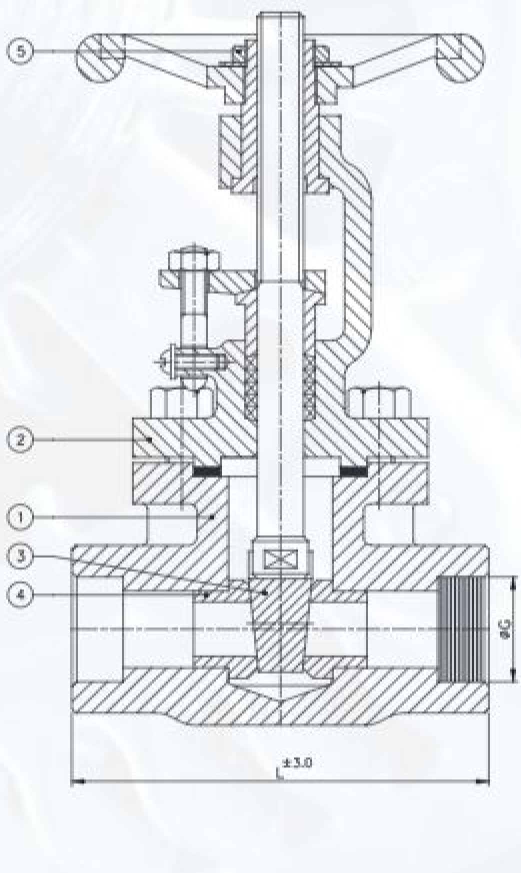
4Matic's forged steel gate valves are compact, sturdy, and ideal for high-pressure and high-temperature applications. These valves feature an outside screw and yoke (OS & Y) design with both rising and non-rising hand-wheel options. They are available with either a bolted or welded bonnet, and come in full or standard bore configurations.

No.	Part Name	A 105N	F 304	F 316
1	Body	ASTM A 105N	ASTM A 182 Gr. F 304	ASTM A 182 Gr. F 316
2	Bonnet	ASTM A 105N	ASTM A 182 Gr. F 304	ASTM A 182 Gr. F 316
3	Wedge	ASTM A 217 Gr. CA 15	ASTM A 351 Gr. CF8	ASTM A 351 Gr. CF8
4	Seat Ring	ASTM A 479 TYPE S.S. 410	ASTM A 479 TYPE S.S. 304	ASTM A 479 TYPE S.S. 316
5	Hand Wheel	S.G. IRON	S.G. IRON	S.G. IRON

TECHNICAL DATA	
Design Standard	API 602 / ISO 15761 / ASME B 16.34
Testing Standard	API 598
Face To Face Standard	MANUFACTURING STANDARD
Socket End Standard	ANSI B 16.11
Screwed End Standard	ANSI B 1.20.1
Butt weld Standard	ANSI B 16.25
Flanged End Standard	ASME B 16.5
Valve Operation	HANDWHEEL OPERATED
Pressure Rating	150#, 300#, 600#, 800#, 1500#, 2500#



PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESSURE	TEMP.	HYD. PRESSURE BODY	HYD. PRESSURE SEAT
800	20°F To 180°F	300°C	3000 PSIG	2000 PSIG

SIZE		SCREWED / SOCKET WELD							
TOLERANCE		±3MM	±3MM	±1MM	±3MM				
IN.	MM	L	ØP	SW	SE	ØA	H Open	H Close	ØWh
3/8"	10	87	6.5	9.5	14	17.6	166	154	86
1/2"	15	87	9.5	9.5	14	21.8	166	154	86
3/4"	20	92	12.7	12.5	16	27.2	169	155	86
1"	25	106	17.5	12.5	22	33.9	179	157	96
1.1/4"	32	127	23	12.5	22	42.7	277	243	150
1.1/2"	40	127	28.5	12.5	25	48.8	277	243	150
2"	50	142	36	16	26	61.2	292	253	150

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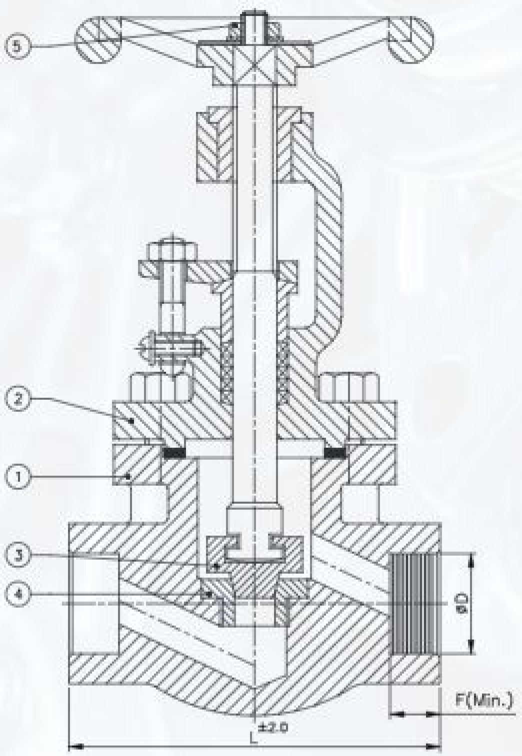
Industrial Valves and Valve Automation

FORGED STEEL GLOBE VALVE (800#)

4Matic's globe valves are linear motion valves designed primarily to start, stop, and regulate flow. They allow for precise control of the flow path or can completely close it when needed.

No.	Part Name	Material	Qty.
1	Body	Forge Steel A 105 / F 304 / F 316	1
2	Bonnet	Forge Steel A 105	1
3	Disc	AISI 304 / AISI 316 / 13% CR. S.S.	1
4	Seat Ring	AISI 304 / AISI 316 / 13% CR. S.S.	1
5	Hand Wheel	Cast Iron / C.S.	1



TECHNICAL DATA	
Design Standard	API 602 / ISO 15761 / BS 5352 / ASME B 16.34
Testing Standard	API 598
Face To Face Standard	MANUFACTURING STANDARD
Socket Weld Standard	ASME B 16.11
Screwed end Standard	ASME B 1.20.1
Butt weld Standard	ASME B 16.25
Flanged End Standard	ASME B 16.5
valve Operation	HANDWHEEL OPERATED
Pressure rating	150#, 300#, 600#, 800#, 1500#, 2500#

SIZE		SCREWED / SOCKET WELD							
TOLERANCE		±3MM	±3MM	±1MM	±3MM				
IN.	MM	L	ØP	SW	SE	ØA	H Open	H Close	ØWh
3/8"	10	87	6.5	9.5	14	17.6	161	150	86
1/2"	15	87	9.5	9.5	14	21.8	161	150	86
3/4"	20	92	12.7	12.5	16	27.2	165	152	86
1"	25	106	17.5	12.5	22	33.9	180	163	96
1.1/4"	32	127	23	12.5	22	42.7	279	250	150
1.1/2"	40	127	28	12.5	25	48.8	279	250	150
2"	50	142	30	16	26	61.2	291	255	150

FORGED STEEL CHECK VALVE (800#)

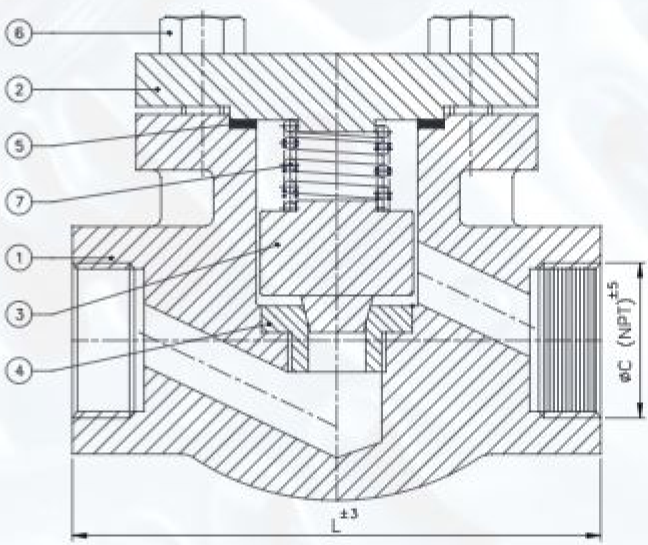
4Matic®
Industrial Valves and Valve Automation

4Matic's forged check valves are designed to prevent backflow, ensuring one-way flow in the system. These valves are durable, reliable, and suitable for high-pressure applications. They are available in a variety of sizes and configurations to meet diverse industrial needs.

No.	Part Name	A 105	F 304	F 316
1	Body	ASTM A 105N	ASTM A 182 GR. F 304	ASTM A 182 GR. F 316
2	Check Plate	ASTM A 105N	ASTM A 182 GR. F 304	ASTM A 182 GR. F 316
3	Plug	ASTM A 479 Type S.S. 410	ASTM A 479 Type S.S. 304	ASTM A 479 Type S.S. 316
4	Seat Ring	ASTM A 479 Type S.S. 410	ASTM A 182 GR. F 304	ASTM A 182 GR. F 316
			(Integral)	(Integral)
5	Gasket	SPW S.S. 316 + Graphite	SPW S.S. 316 + Graphite	S.S. 316 + SPW Graphite
6	Cover Bolt	ASTM A 193 GR. B7	ASTM A 193 GR. B8	ASTM A 193 GR. B8M
7	Spring	ASTM A 303 Type S.S. 304	ASTM A 313 Type S.S. 304	ASTM A 313 Type S.S. 316

TECHNICAL DATA	
Design Standard	API 602 / ISO 15761 / BS 5352 / ASME B16.34
Testing Standard	API 598
Face To Face Standard	MANUFACTURING STANDARD
Socket Weld Standard	ASME B 16.11
Screwed End Standard	ASME B 1.20.1
Butt Weld Standard	ASME B 16.25
Flanged End Stanard	ASME B 16.5
Valve Operation	Self
Pressure Rating	150#, 300#, 600#, 800#, 1500#, 2500#

SIZE		CLASS - 800					
TOLERANCE		±3MM	±3MM	±1MM	±3MM		
IN.	MM	L	ØP	SW	SE	ØA	H
3/8"	10	87	6.5	9.5	14	17.6	51
1/2"	15	87	9.5	9.5	14	21.8	51
3/4"	20	92	12.7	12.5	16	27.2	54
1"	25	106	17.5	12.5	22	33.9	60.5
1.1/4"	32	127	23	12.5	22	42.7	106
1.1/2"	40	127	28	12.5	25	48.8	106
2"	50	142	30	16	26	61.2	109



4Matic®

Industrial Valves and Valve Automation

Our Products

PINCH VALVE

KNIFE EDGE GATE VALVE

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WRAS UL IBR Approved AWWA