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EMICO

API 603 STAINLESS STEEL VALVES



ANSI Class 150 and 300
GATE, GLOBE & CHECK VALVES
Y-STRAINERS



EMICO STAINLESS STEEL VALVES

COMPLY WITH API & ASME STANDARDS AND
ARE WIDELY USED IN CHEMICAL,
PETROCHEMICAL, FOOD & BEVERAGE, PULP &
PAPER, MINING AND OTHER PROCESS PLANTS
THROUGHOUT THE WORLD.

EMICO VALVES ARE MANUFACTURED UNDER
STRICT QUALITY CONTROL AND ARE SUITABLE
FOR USE IN CORROSION RESISTANT
APPLICATIONS.



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ANSI 150 & 300 CAST STAINLESS STEEL GATE VALVES

DESCRIPTION

Raised Face flanged ends to ANSI Class 150 and ANSI Class 300. Integral T-head stem, fully guided flexible wedge, self-aligning gland, integral body seats, outside screw and yoke, rising stem, non-rising handwheel.
 Size range: ANSI 150 - 15mm through 400mm.
 ANSI 300 - 15mm through 300mm

DESIGN STANDARDS

- Design - API 603
- Shell Wall Thickness - API 603
- Pressure /Temperature Rating - ASME B16.34
- Face to Face Dimension - ASME B16.10
- Flange Dimension - ASME B16.5
- Flange Gasket Facing - ASME B16.5 (3.2 to 6.3 microns)

TEST PRESSURE

- Per API 598 standards
- ANSI 150 Shell (by Water) - 425psig
 - ANSI 150 Seat (by Water) - 303psig
(by Air) - 80psig
 - ANSI 300 Shell (by Water) - 1100psig
 - ANSI 300 Seat (by Water) - 792psig
(by Air) - 80psig



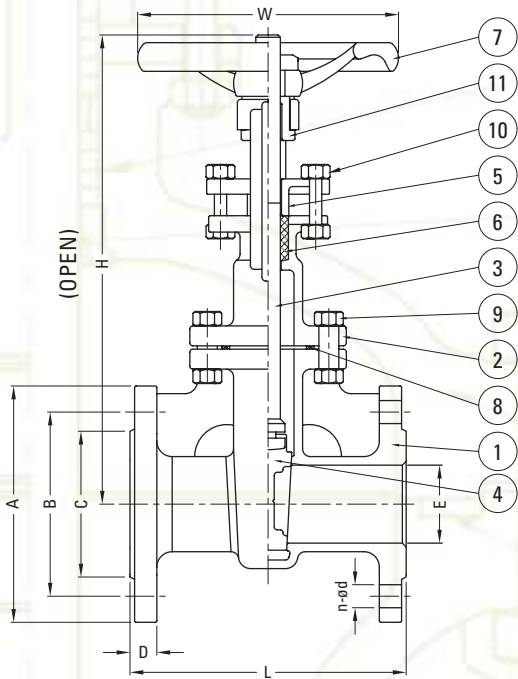
PARTS AND MATERIAL

NO.	PARTS NAME	MATERIAL
1	BODY	Stainless Steel ASTM A351 CF8M
2	BONNET	Stainless Steel ASTM A351 CF8M
3	STEM	AISI-316
4	DISC	ASTM A351 CF8M
5	GLAND FLANGE	ASTM A351 CF8M
6	GLAND PACKING	PTFE (Option: Graphite)
7	HANDWHEEL	Ductile Iron
8	BODY/BONNET GASKET	PTFE (Option: Graphite)
9	BODY/BONNET BOLTING	ASTM A193 B8/A194 Gr. 8
10	GLAND BOLT/NUT	ASTM A193 B8/A194 Gr. 8
11	YOKE SLEEVE	Ductile Iron



ANSI 150 & 300 CAST STAINLESS STEEL GATE VALVES

ANSI CLASS 150

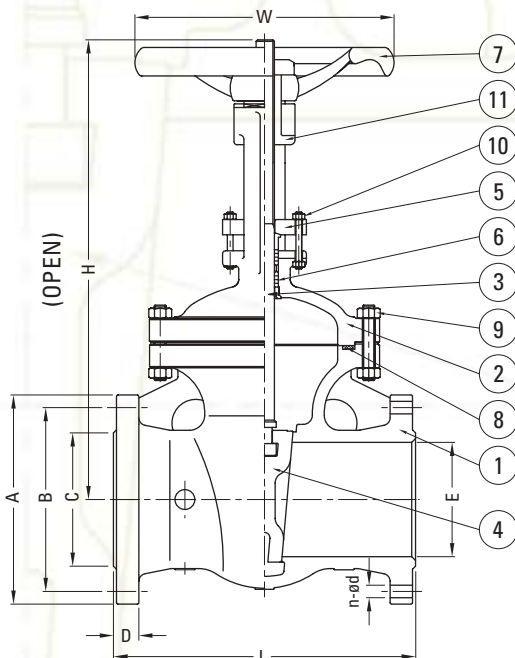


DIMENSIONS (mm)

Fig EAS-105

SIZE		ANSI-150									nø-d
in	mm	E	H	W	L	A	B	C	D		
1/2	15	15	190	90	108	89	60.5	35	11.2	4-16	
3/4	20	20	200	90	117	98	70	43	11.2	4-16	
1	25	25	230	100	127	108	79.5	51	11.2	4-16	
1 1/4	32	32	270	140	140	117	89	64	14.3	4-16	
1 1/2	40	40	280	140	165	127	98.5	73	14.3	4-16	
2	50	50	320	160	178	152	120.5	92	15.9	4-19	
2 1/2	65	65	390	180	190	178	139.5	105	17.5	4-19	
3	80	80	415	200	203	190	152.5	127	19.1	4-19	
4	100	100	510	225	229	229	190.5	157	23.9	8-19	
5	125	125	600	250	254	254	216	186	23.9	8-22	
6	150	150	710	290	267	279	241.5	216	25.4	8-22	
8	200	200	900	330	292	343	298.5	270	28.6	8-22	
10	250	250	1117	350	330	406	362	324	30.2	12-25	
12	300	300	1324	400	356	483	432	381	31.8	12-25	
14	350	350	1480	550	381	533	476.5	413	35	12-29	
16	400	400	1658	600	406	597	539.7	470	36.6	16-29	

ANSI CLASS 300



DIMENSIONS (mm)

Fig EAS-115

SIZE		ANSI-300									nø-d
in	mm	E	H	W	L	A	B	C	D		
1/2	15	15	160	100	140	95	66.5	35	14.3	4-16	
3/4	20	20	180	120	152	117	82.5	43	15.9	4-19	
1	25	25	210	140	165	124	89	51	17.5	4-19	
1 1/2	40	40	280	160	190	156	114.5	73	20.7	4-22	
2	50	50	330	180	216	165	127	92	22.3	8-19	
2 1/2	65	65	390	200	241	190	149	105	25.4	8-22	
3	80	80	454	224	283	210	168	127	28.6	8-22	
4	100	100	525	250	305	254	200	157	31.8	8-22	
5	125	125	639	250	381	279	235	186	35	8-22	
6	150	150	739	300	403	318	270	216	36.6	12-22	
8	200	200	933	350	419	381	330	270	41.3	12-25	
10	250	250	1138	400	457	444	387.5	324	47.7	16-29	
12	300	300	1338	500	502	521	451	381	50.8	16-32	



ANSI 150 & 300 CAST STAINLESS STEEL GLOBE VALVES

DESCRIPTION

Raised Face flanged ends to ANSI Class 150 and ANSI Class 300. Integral T-head stem, swivel disc, self-aligning gland, integral seat, bolted bonnet, outside screw and yoke, rising stem and handwheel.

Size range: ANSI 150 - 15mm through 300mm.
ANSI 300 - 15mm through 300mm

DESIGN STANDARDS

- Design - ASME B16.34
- Shell Wall Thickness - ASME B16.34
- Pressure / Temperature Rating - ASME B16.34
- Face to Face Dimension - ASME B16.10
- Flange Dimension - ASME B16.5
- Flange Gasket Facing - ASME B16.5 (3.2 to 6.3 microns)

TEST PRESSURE

Per API 598 standards

- ANSI 150 Shell (by Water) - 425psig
- ANSI 150 Seat (by Water) - 303psig
(by Air) - 80psig
- ANSI 300 Shell (by Water) - 1100psig
- ANSI 300 Seat (by Water) - 792psig
(by Air) - 80psig



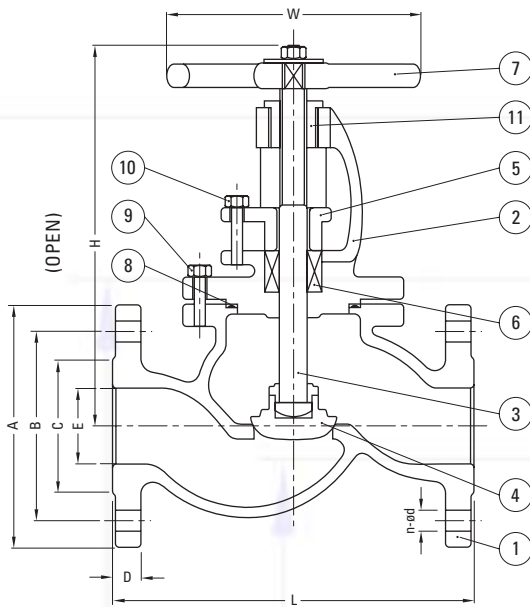
PARTS AND MATERIAL

NO.	PARTS NAME	MATERIAL
1	BODY	Stainless Steel ASTM A351 CF8M
2	BONNET	Stainless Steel ASTM A351 CF8M
3	STEM	AISI-316
4	DISC	ASTM A351 CF8M
5	GLAND FLANGE	ASTM A351 CF8M
6	GLAND PACKING	PTFE (Option: Graphite)
7	HANDWHEEL	Ductile Iron
8	BODY/BONNET GASKET	PTFE (Option: Graphite)
9	BODY/BONNET BOLTING	ASTM A193 B8/A194 Gr. 8
10	GLAND BOLT/NUT	ASTM A193 B8/A194 Gr. 8
11	YOKE SLEEVE	Ductile Iron



ANSI 150 & 300 CAST STAINLESS STEEL GLOBE VALVES

ANSI CLASS 150

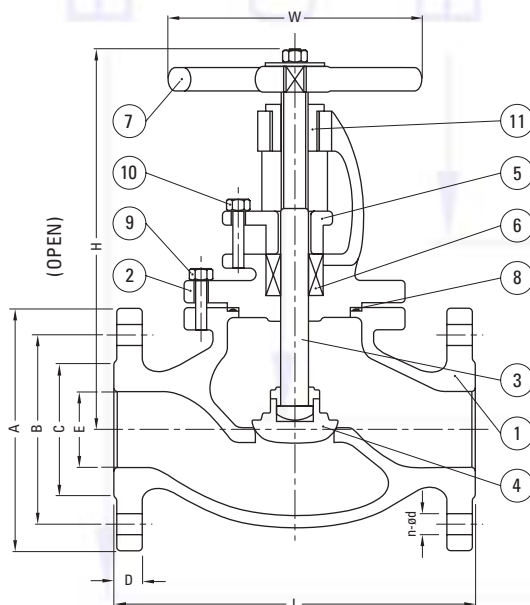


DIMENSIONS (mm)

Fig EAS-205

SIZE		ANSI-150								
in	mm	E	H	W	L	A	B	C	D	nø-d
1/2	15	15	190	90	108	89	60.5	35	11.2	4-16
3/4	20	20	200	100	117	98	70	43	11.2	4-16
1	25	25	230	100	127	108	79.5	51	11.2	4-16
1 1/2	40	40	240	140	165	127	98.5	73	14.3	4-16
2	50	50	250	160	203	152	120.5	92	15.9	4-19
2 1/2	65	65	270	180	216	178	139.5	105	17.5	4-19
3	80	80	290	200	241	190	152.5	127	19.1	4-19
4	100	100	350	225	292	229	190.5	157	23.9	8-19
5	125	125	410	250	356	254	216	186	23.9	8-22
6	150	150	520	300	406	279	241.5	216	25.4	8-22
8	200	200	570	350	495	343	298.5	270	28.6	8-22
10	250	250	670	400	622	406	362	324	30.2	12-25
12	300	300	736	500	698	483	432	381	31.8	12-25

ANSI CLASS 300



DIMENSIONS (mm)

Fig EAS-215

SIZE		ANSI-300								
in	mm	E	H	W	L	A	B	C	D	nø-d
1/2	15	15	165	100	152	95	66.5	35	14.3	4-16
3/4	20	20	173	100	178	117	82.5	43	15.9	4-19
1	25	25	175	140	203	124	89	51	17.5	4-19
1 1/2	40	40	225	160	229	156	114.5	73	20.7	4-22
2	50	50	268	180	267	165	127	92	22.3	8-19
2 1/2	65	65	301	200	292	190	149	105	25.4	8-22
3	80	80	330	220	318	210	168	127	28.6	8-22
4	100	100	390	250	356	254	200	157	31.8	8-22
5	125	125	464	320	400	279	235	186	35	8-22
6	150	150	510	350	444	318	270	216	36.6	12-22
8	200	200	570	400	559	381	330	270	41.3	12-25
10	250	250	630	450	622	444	387.5	324	47.7	16-29
12	300	300	720	500	711	521	451	381	50.8	16-32



ANSI 150 & 300 CAST STAINLESS STEEL CHECK VALVES

DESCRIPTION

Raised Face flanged ends to ANSI Class 150 and ANSI Class 300. Swing type disc, integral body seat, bolted cover.

Size range: ANSI 150 - 15mm through 300mm.
ANSI 300 - 15mm through 300mm

DESIGN STANDARDS

- Design - ASME B16.34
- Shell Wall Thickness - ASME B16.34
- Pressure / Temperature Rating - ASME B16.34
- Face to Face Dimension - ASME B16.10
- Flange Dimension - ASME B16.5
- Flange Gasket Facing - ASME B16.5 (3.2 to 6.3 microns)

TEST PRESSURE

Per API 598 standards

- ANSI 150 Shell (by Water) - 425psig
- ANSI 150 Seat (by Water) - 303psig (by Air) - 80psig
- ANSI 300 Shell (by Water) - 1100psig
- ANSI 300 Seat (by Water) - 792psig (by Air) - 80psig



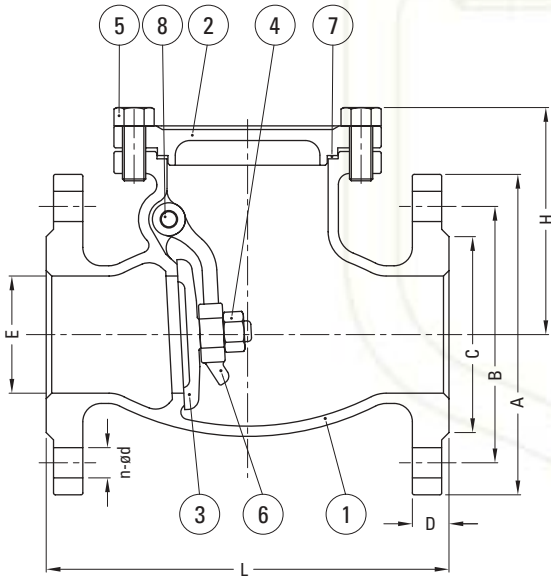
PARTS AND MATERIAL

NO.	PARTS NAME	MATERIAL
1	BODY	Stainless Steel ASTM A351 CF8M
2	COVER	Stainless Steel ASTM A351 CF8M
3	DISC	ASTM A351 CF8M
4	DISC NUT	SS 316
5	BODY/COVER BOLTING	ASTM A193 B8/A194 Gr. 8
6	ARM	ASTM A351 CF8M
7	BODY/COVER GASKET	PTFE (Option: Graphite)
8	HINGE PIN	SS 316



ANSI 150 & 300 CAST STAINLESS STEEL CHECK VALVES

ANSI CLASS 150

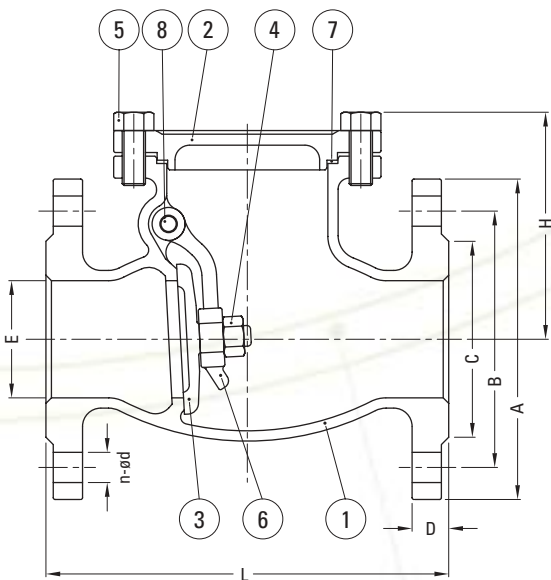


DIMENSIONS (mm)

Fig EAS-306

SIZE		ANSI-150							
in	mm	E	H	L	A	B	C	D	nø-d
1/2	15	15	63	108	89	60.5	35	11.2	4-16
3/4	20	20	66	117	98	70	43	11.2	4-16
1	25	25	75	127	108	79.5	51	11.2	4-16
1 1/2	40	40	85	165	127	98.5	73	14.3	4-16
2	50	50	110	203	152	120.5	92	15.9	4-19
2 1/2	65	65	135	216	178	139.5	105	17.5	4-19
3	80	80	135	241	190	152.5	127	19.1	4-19
4	100	100	170	292	229	190.5	157	23.9	8-19
5	125	125	170	330	254	216	186	23.9	8-22
6	150	150	210	356	279	241.5	216	25.4	8-22
8	200	200	250	495	343	298.5	270	28.6	8-22
10	250	250	315	622	406	362	324	30.2	12-25
12	300	300	376	698	483	432	381	31.8	12-25

ANSI CLASS 300



DIMENSIONS (mm)

Fig EAS-315

SIZE		ANSI-300							
in	mm	E	H	L	A	B	C	D	nø-d
1/2	15	15	80	152	95	66.5	35	14.3	4-16
3/4	20	20	90	178	117	82.5	43	15.9	4-19
1	25	25	100	216	124	89	51	17.5	4-19
1 1/2	40	40	116	241	156	114.5	73	20.7	4-22
2	50	50	129	267	165	127	92	22.3	8-19
2 1/2	65	65	143	292	190	149	105	25.4	8-22
3	80	80	164	318	210	168	127	28.6	8-22
4	100	100	177	356	254	200	157	31.8	8-22
5	125	125	217	400	279	235	186	35	8-22
6	150	150	231	444	318	270	216	36.6	12-22
8	200	200	291	533	381	330	270	41.3	12-25
10	250	250	319	622	444	387.5	324	47.7	16-29
12	300	300	360	711	521	451	381	50.8	16-32



ANSI 150 CAST STAINLESS STEEL Y-STRAINER

DESCRIPTION

Raised Face flanged ends to ANSI Class 150, bolted cover.
Size range: 15mm through 300mm.

DESIGN STANDARDS

- Design - ASME B16.34
- Shell Wall Thickness - ASME B16.34
- Pressure / Temperature Rating - ASME B16.34
- Flange Dimension - ASME B16.5
- Flange Gasket Facing - ASME B16.5 (3.2 to 6.3 microns)

TEST PRESSURE

- Per API 598 standards
- ANSI 150 Shell (by Water) - 425psig

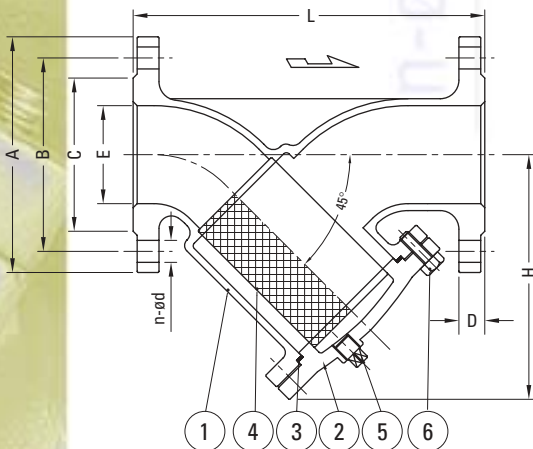


DIMENSIONS (mm)

Fig EAS-405

SIZE		ANSI-150							
in	mm	E	H	L	A	B	C	D	nø-d
1/2	15	15	75	120	89	60.5	35	11.2	4-16
3/4	20	20	75	140	98	70	43	11.2	4-16
1	25	25	100	150	108	79.5	51	11.2	4-16
1 1/2	40	40	120	190	127	98.5	73	14.3	4-16
2	50	50	140	210	152	120.5	92	15.9	4-19
2 1/2	65	65	175	250	178	139.5	105	17.5	4-19
3	80	80	196	280	190	152.5	127	19.1	4-19
4	100	100	244	340	229	190.5	157	23.9	8-19
5	125	125	277	380	254	216	186	23.9	8-22
6	150	150	320	420	279	241.5	216	25.4	8-22
8	200	200	390	500	343	298.5	270	28.6	8-22
10	250	250	430	700	406	362	324	30.2	12-25
12	300	300	600	780	483	432	381	31.8	12-25

ANSI CLASS 150



PARTS AND MATERIAL

NO.	PARTS NAME	MATERIAL
1	BODY	CF8M
2	BONNET	CF8M
3	GASKET	PTFE (Option: Graphite)
4	SCREEN	SS 316*
5	PLUG	AISI 316
6	BONNET BOLT/NUT	SUS 304/AISI 304

* Screen for 15mm - 50mm is punched stainless steel plate with 1mm Ø holes.
Screen for 65mm and above is punched stainless steel plate with 1.5mm Ø holes.



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 APPLICATIONS.



PRESSURE TEMPERATURE RATINGS
 ASME B16.34-1996

CLASS		ANSI-150		ANSI-300	
Service Temperature		CF8	CF8M	CF8	CF8M
°C	°F	psig	psig	psig	psig
-29~+38	-20~+100	275	275	720	720
93	200	235	235	600	620
149	300	205	215	540	560
204	400	190	195	495	515
260	500	170	170	465	480
316	600	140	140	435	450
343	650	125	125	430	445
371	700	110	110	425	430
399	750	95	95	415	425
427	800	80	80	405	420
454	850	65	65	395	420
482	900	50	50	390	415
510	950	35	35	380	385
538	1000	20	20	320	350
Hydrostatic Shell Test Pressure		425psig		1100psig	
Valve Closure Test Pressure	Hydrostatic	303psig		792psig	
	Air	80psig		80psig	

Flanged end valve ratings terminate at 538°C (1000°F).

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GATE, GLOBE & CHECK VALVES
Y- STRAINERS

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