

FLOW CONTROL
LEADER
FROM TAIWAN



valtec Ind. Co., Ltd.

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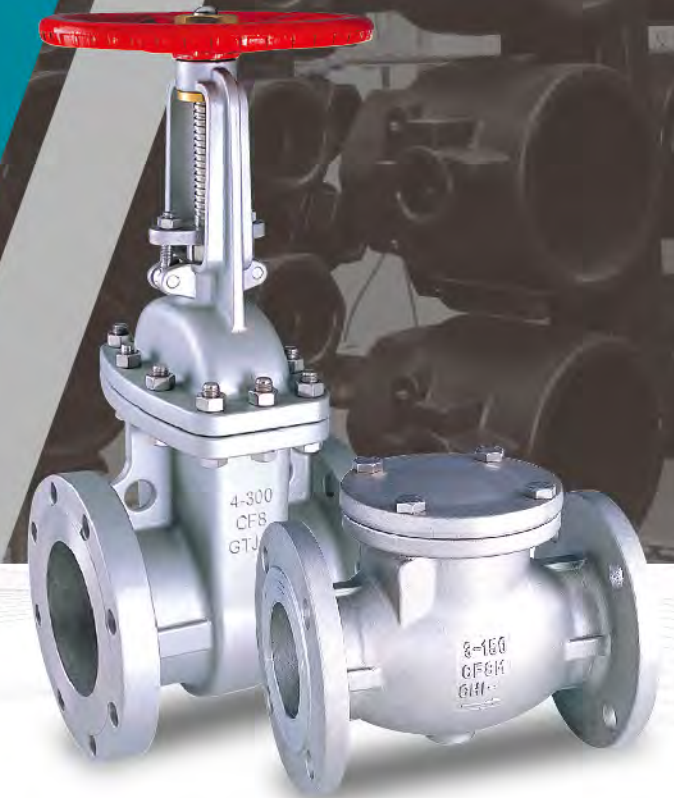
**FLOW CONTROL LEADER
FROM TAIWAN**

VALVES Series

- GATE, GLOBE, CHECK
- BUTTERFLY VALVES
- FITTINGS & FLANGES
- OEM / ODM CASTINGS



www.valtec.com.tw
www.valve-tek.com.tw





HISTORY & BRIEF LOOK

- 1984** Valve-Tek was founded by our president Mr. Stoney Shih
- 1988** Machining department was founded
- 1991** Sales (Export) department was founded
- 1995** Valve "Ball" branch factory was founded
- 1997** ISO 9002 was approved by SGS
- 1999** Established an 100% owned Investment Casting Foundry
- 2000** TRD 100 Approval by TÜV
- 2001** ISO 9001-2000 & API607 Fire Safe Approved by TÜV
- 2002** PED Approval by TÜV
- 2003** New plant with complete production lines (foundry, machining, fabrication)
- 2003** AD 2000 Approval by TÜV (transferred from TRD 100)
- 2006** API 6D Approval by TÜV
- 2008** Valtec Ind. Co., Ltd., was developed from Valve-Tek Mfg. Co., Ltd.
- 2011** GOST certificate approval
- 2012** TA-Luft Approval by TÜV
- 2018** New Location

COMPANY PROFILE

valtec is the "only one" manufacturer of ball valves sells directly worldwide with our own Casting Foundry, Machining Shop, Fabricating Center, Ball Manufacturer as one group in Taiwan.

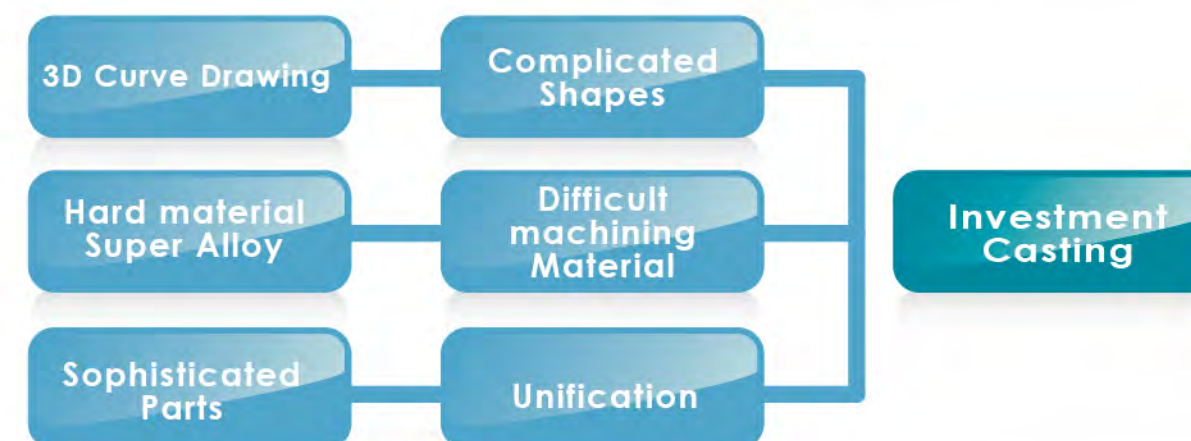
From 2008 **valtec** has taken over all the international sales affairs from Valve-tek. Besides, we extended business range from Ball Valves into all kinds of Valves (Gate, Globe, Check, Butterfly valve & Strainer), Flanges, Fittings, OEM/ ODM Castings and Balls.

valtec, as one of the best and main global supplier of industrial valves & relative products, would do all of our effort to meet customers' needs. YOUR continued support is much appreciated and keeps us moving forward. Please feel free to contact us for any demand, and let's work together & grow successfully in the future.

CASTING PROCESS



CONCEPTS FOR CASTING PROCEDURES





INVESTMENT (PRECISION) CASTINGS

Material we offer:

ASTM	EN	JIS	OTHER
CF8	1.4308	SCS 13A	
CF8M	1.4408	SCS 14A	
CF3M	1.4409	SCS 16A	
CN7M		SCS 23	
WCB	1.0619	S20C	
	X30Cr13	420J2	
	42CrMo4	SCM440	AISI 4140
		SNCM220	AISI 8620
A2		SKD12	

Weight: 5g-30kgs

Dimension: Max. 400x300x200mm

Wall thickness tolerances: 0.01" ~0.015"

Min. thickness: 0.3mm

Perpendicularity: 0.008"/1" (0.08mm/10mm)

Angular Tolerance: 0.5°~1°

Main production facilities:

Automatic wax injection machines
High frequency furnaces
Sand-Blasting machine
Sand-Cleaning machine
Acidic bath

Inspection:

Spectrometer
Impact test
Hardness test
Tensile strength
Penetrate test
X-Ray radiograph
Coordinate measuring
Inter-granular corrosion test

Advantages:

Heat treatment
Freedom in designing
Tight dimensional tolerances
Choice appropriate steel
Excellent surface finish

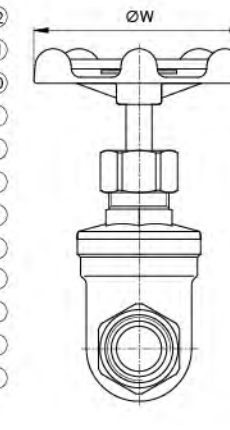
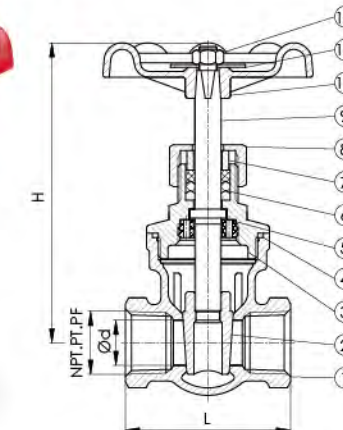
Line Tolerances:

m/m	0-5	5-10	10-25	25-50	50-75	75-100	100-125	125-150	150-175	175-200	200-250
Normal		±0.25		±0.4	±0.6	±0.8	±1.1	±1.4	±1.7	±2.0	±2.5
Special	±0.07	±0.14	±0.25	±0.32	±0.50	±0.70	±0.90	±1.1	±1.3	±1.5	±1.8



VT-GA GATE VALVE 200 WOG

SIZE: 1/2"~3"



NO.	PART NAME	MATERIAL
1	BODY	ASTM-A351-CF8M
2	DISC	ASTM-A351-CF8M
3	BONNET	ASTM-A351-CF8M
4	GASKET	PTFE
5	WHORL GASKET	AISI 304
6	PACKING	PTFE
7	GLAND	AISI 304
8	CAP NUT	CF8M
9	STEM	AISI 316
10	HAND WHEEL	ALUMINUM
11	NAMEPLATE	ALUMINUM
12	NUT	AISI 304

UNIT:mm

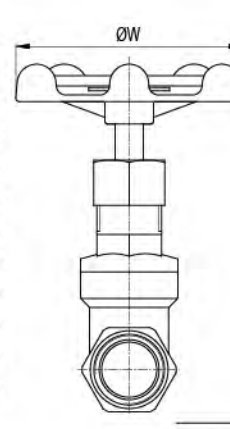
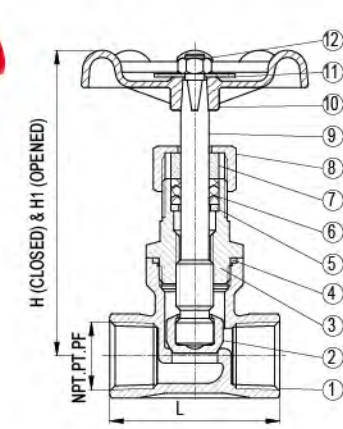
SIZE	Ød	L	H	ØW	WEIGHT KGS
1/2"	15	55	101	70	0.4
3/4"	20	60	108	70	0.5
1"	25	65	115	80	0.7
1-1/4"	32	75	132	80	1
1-1/2"	38	85	149	90	1.54
2"	50	95	175	100	2.1
2-1/2"	65	116	213	140	5.6
3"	80	130	241	140	8.6

FEATURES:

*Full port pressure temperature rating 200 W.O.G.
*Threaded ends conform to ANSI B 2.1, BS 21, DIN 259/2999, ISO 228
*Stainless steel inside screw and screwed bonnet, wedge disc integral seat, non-rising stem and handwheel

VT-GL GLOBE VALVE 200 WOG

SIZE: 1/4"~2-1/2"



NO.	PART NAME	MATERIAL
1	BODY	ASTM-A351-CF8M
2	DISC	ASTM-A351-CF8M
3	BONNET	ASTM-A351-CF8M
4	GASKET	PTFE
5	WHORL GASKET	AISI 304
6	PACKING	PTFE
7	GLAND	AISI 304
8	CAP NUT	CF8M
9	STEM	AISI 316
10	HAND WHEEL	ALUMINUM
11	NAMEPLATE	ALUMINUM
12	NUT	AISI 304

UNIT:mm

SIZE	L	H	H1	ØW	WEIGHT KGS
1/4"	52	91	103	70	0.34
3/8"	52	91	103	70	0.32
1/2"	52	91	103	70	0.34
3/4"	66	100	111	80	0.45
1"	76	104	121	80	0.66
1-1/4"	86	135	156	90	0.98
1-1/2"	94	133	147	90	1.27
2"	118	154	175	100	2.03
2-1/2"	150	171	199	140	5.7

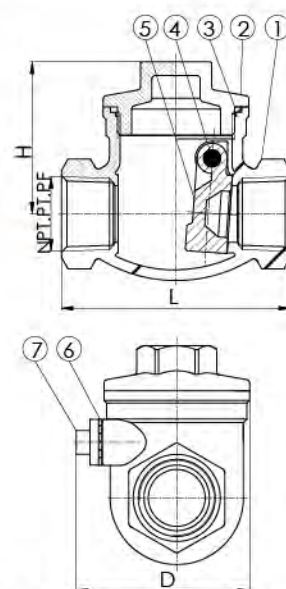
FEATURES:

*Full port pressure temperature rating 200 W.O.G.
*Threaded ends conform to ANSI B 2.1, BS 21, DIN 259/2999, ISO 228
*Stainless steel inside screw and screwed bonnet, swivel disc integral seat, and handwheel



VT-C SWING CHECK VALVE 200 WOG

SIZE: 1/4"~3"



FEATURES:

- *Full port
- *Investment casting body
- *Pressure temperature rating 200 W.O.G.
- *Threaded ends conform to ANSI B 2.1, BS 21, DIN 259 / 2999, ISO 228
- *Screwed cap, swing type disc, integral seat

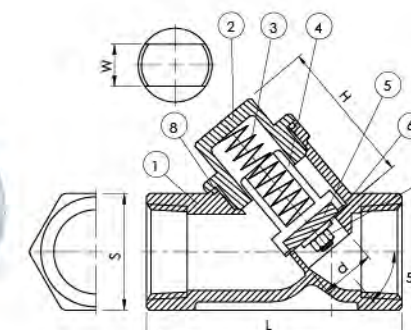
NO.	PART NAME	MATERIAL
1	BODY	ASTM-A351-CF8M
2	CAP	ASTM-A351-CF8M
3	GASKET	PTFE
4	PLUG	AISI 316
5	DISC	ASTM-A351-CF8M
6	GASKET	PTFE
7	STOPPER	AISI 304

SIZE	L	H	D	WEIGHT KGS
1/4"	65	43	46.5	0.26
3/8"	65	43	46.5	0.23
1/2"	65	43	46.5	0.24
3/4"	80	51	51.5	0.36
1"	89	60	56.0	0.69
1-1/4"	105	66	64.0	0.86
1-1/2"	120	75	74.5	1.35
2"	139	80	84.0	2.37
2-1/2"	181	99	105	4.73
3"	200	104	140	7.26

UNIT:mm

VT-P PISTON CHECK VALVE PN40

SIZE: 1/4"~2"



FEATURES:

- *Investment casting body & cap
- *PN40 rating
- *Maximum working temperature 180°C
- *Thread ends conform to ANSI B2.1, BS21, DIN 259/2999, ISO 228

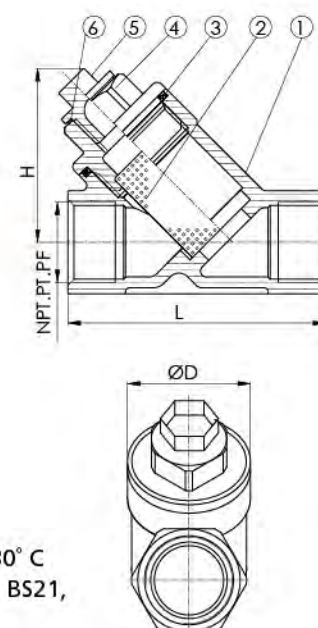
NO.	PART NAME	MATERIAL
1	BODY	ASTM-A351-CF8M
2	CAP	ASTM-A351-CF8M
3	SPRING	AISI 316
4	DISC	AISI 316
5	SEAT	PTFE
6	WASHER	AISI 304
7	NUT	AISI 304
8	JOINT GASKET	PTFE

SIZE	d	L	S	H	W	WEIGHT KGS
1/4"	11.6	65.8	27	36.4	24	0.28
3/8"	12.5	65.8	27	36.4	24	0.25
1/2"	12.5	65.8	27	36.4	24	0.23
3/4"	18	75.7	32.3	44.6	30	0.38
1"	23.5	89.7	41	57	35	0.72
1-1/4"	31.4	111	50	64	40	1.22
1-1/2"	35.7	121	55.5	76	45	1.50
2"	45.5	151	70	87	55	2.75

UNIT:mm

VT-Y Y-STRAINER 800 WOG

SIZE: 1/4"~3"



FEATURES:

- *Investment casting body
- *Max. pressure 800PSI
- *Maximum working temperature 180° C
- *Thread ends conform to ANSI B2.1, BS21, DIN259/2999, ISO 228

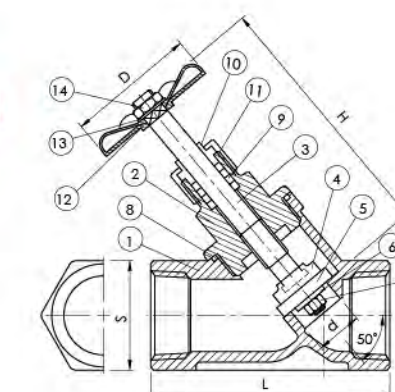
NO.	PART NAME	MATERIAL
1	BODY	ASTM-A351-CF8M
2	SCREEN	AISI 316
3	GASKET	PTFE
4	CAP	ASTM-A351-CF8M
5	STOPPER	ASTM-A351-CF8M
6	GASKET	PTFE

SIZE	L	H	ØD	WEIGHT KGS
1/4"	65	45	31	0.26
3/8"	65	45	31	0.23
1/2"	65	45	31	0.24
3/4"	80	53	36	0.36
1"	90	68	45	0.69
1-1/4"	105	72	50	0.86
1-1/2"	120	80	59	1.35
2"	140	97	75	2.37
2-1/2"	170	112	95	4.73
3"	195	129	111	7.26

UNIT:mm

VT-S SHUT-OFF VALVE PN40

SIZE: 1/4"~2"



FEATURES:

- *Investment casting body
- *PN40 rating
- *Max. working temperature 180° C
- *Thread ends conform to ANSI B2.1, BS21, DIN 259/2999, ISO 228

NO.	PART NAME	MATERIAL
1	BODY	ASTM-A351-CF8M
2	BONNET	ASTM-A351-CF8M
3	STEM	AISI 316
4	DISC	AISI 316
5	SEAT	PTFE
6	WASHER	AISI 304
7	NUT	AISI 304
8	JOINT GASKET	PTFE
9	STEM PACKING	PTFE
10	GLAND	AISI 304
11	PACKING NUT	AISI 304
12	HANDWHEEL	WCB
13	WASHER	AISI 304
14	NUT	AISI 304

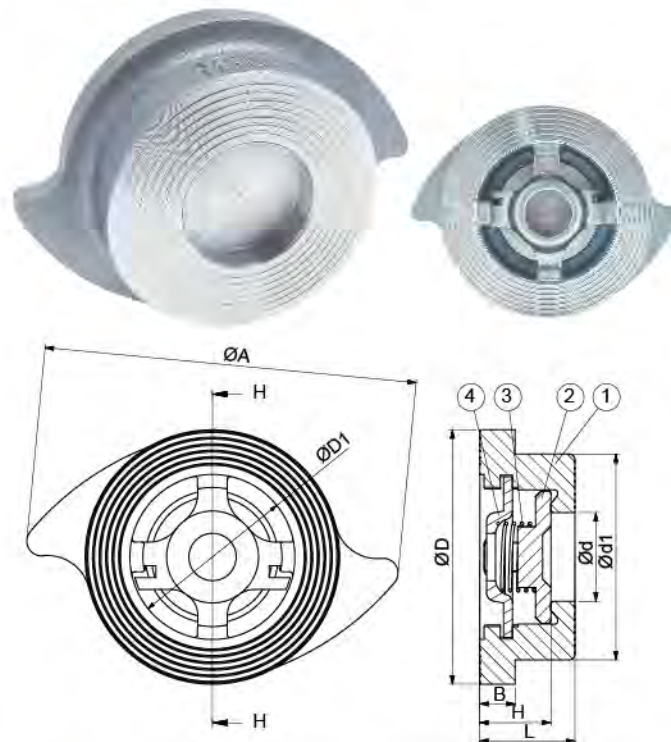
SIZE	d	L	S	H	D	WEIGHT KGS
1/4"	11.6	65.8	27	90.5	61.5	0.44
3/8"	12.5	65.8	27	90.5	61.5	0.41
1/2"	12.5	65.8	27	93.5	61.5	0.39
3/4"	18.0	75.7	32.3	109.5	61.5	0.54
1"	23.5	89.7	41	110.8	75.5	0.94
1-1/4"	31.4	109.8	50	137.5	115	1.44
1-1/2"	35.7	121	55.5	139	115	1.84
2"	45.5	151.6	70	162	115	3.30

UNIT:mm



VT-WC 1-PC WAFER DISC CHECK VALVE PN40

SIZE: 1/2"~4"



FEATURES:

- *Investment casting body
- *PN40 rating
- *Non Screw design
- *Suitable between flanges
- JIS 10K/20K
- PN 16/40
- ASME CLASS 150/300

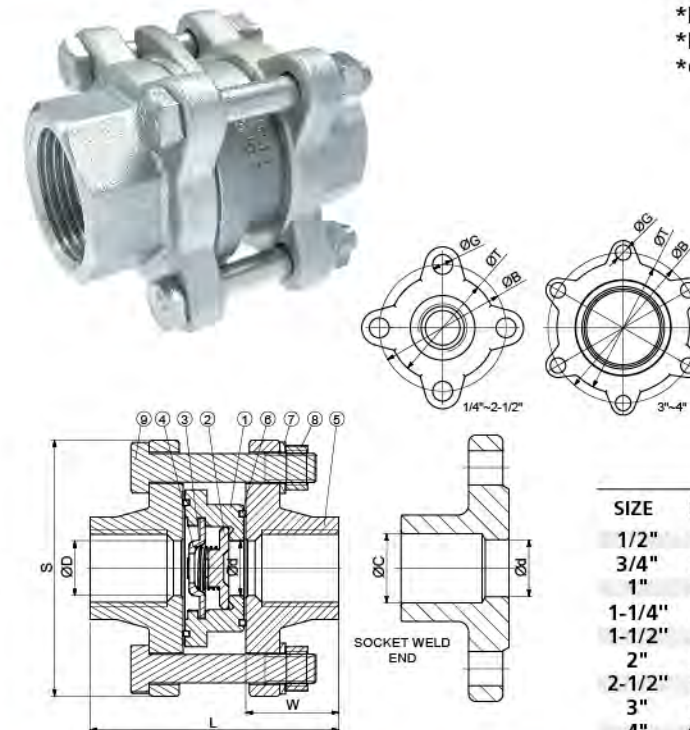
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	ASTM-A351-CF8M	1
2	DISC	ASTM-A351-CF8M	1
3	SPRING	AISI 316	1
4	CAP	AISI 316	1

UNIT:mm

SIZE	Ød	Ød1	ØD	L	H	ØD1	B	A	Cv Factor
1/2"	15	34.8	43	16	12	27.9	6	60	5.9
3/4"	20	45	53	19.5	14	35.8	7.7	69.5	8.0
1"	25	50.8	63	22	16.6	41.3	8	80.5	12.7
1-1/4"	32	60.2	72.5	28	22.3	49.2	9	90.5	16.6
1-1/2"	40	69.7	82	31.5	24.5	57	10	101	25.5
2"	50	89.8	95.2	40	33.2	76.1	8	115	41.1
2-1/2"	65	102	115.6	45	38.3	87.6	7.5	142	58.8
3"	80	121	129.4	50	42	106.2	8	153.5	86.2
4"	100	145	154.2	60	51.3	128.5	12	179.8	117.5

V3-WC 3-PC WAFER DISC CHECK VALVE PN40

SIZE: 1/2"~4"



FEATURES:

- *Investment casting body
- *Rating PN40
- *End: Threaded end / Butt weld end / Socket weld end
- *Option: Non Screw design

MATERIALS

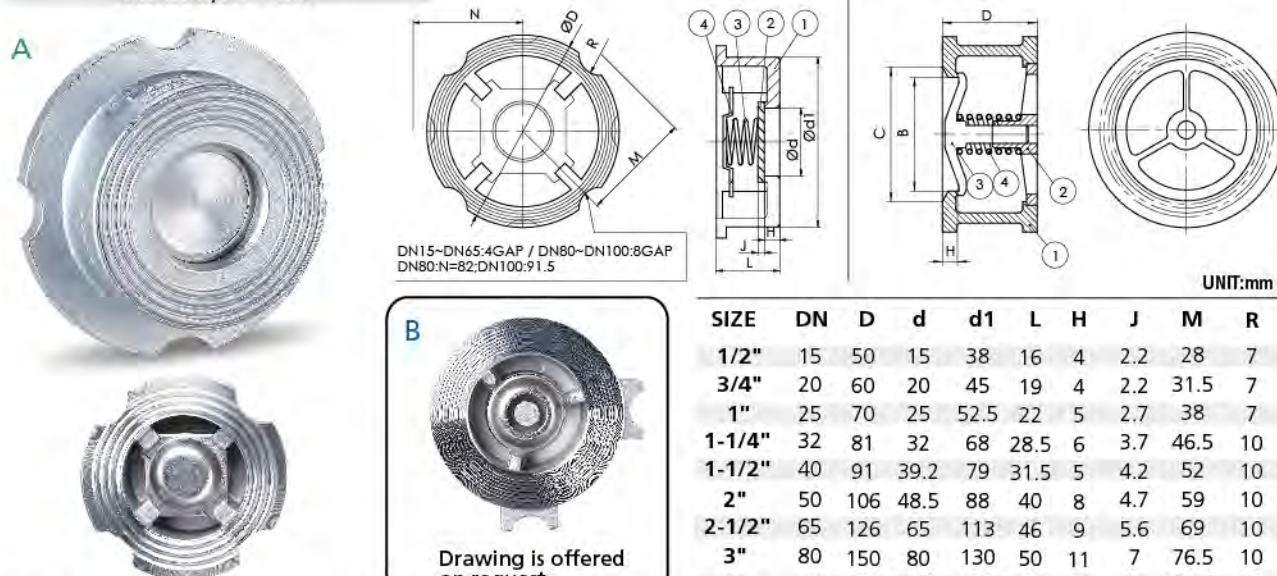
ITEM	PART	V3WC	V3WC-C	Q'TY
1	BODY	ASTM-A351-CF8M	ASTM-A316-WCB	1
2	DISC	AISI 316	AISI 316	1
3	SPRING	AISI 316	AISI 316	1
4	SPRING CAP	AISI 304	AISI 304	1
5	CAP	ASTM-A351-CF8M	ASTM-A216-WCB	2
6	JOINT GASKET	PTFE	PTFE	2
7	SPRING WASHER	AISI 304	AISI 304	4
8	HEX NUT	AISI 304	AISI 304	4
9	BOLT	AISI 304	AISI 304	4

UNIT:mm

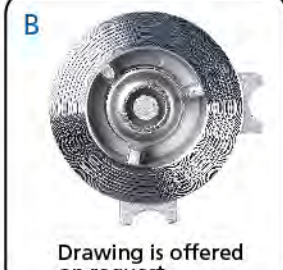
SIZE	DN	Ød	ØB	ØD	ØC	G	L	W	S	ØT
1/2"	15	15	55	15	-	8.6	67.8	25.4	70.2	46.3
3/4"	20	15	55	20	27.2	8.6	64.8	25.4	70.2	45.6
1"	25	20	63.2	25.1	33.9	8.6	74.6	28.3	79.8	53.6
1-1/4"	32	25	76.4	32	42.6	10.7	76.7	29.8	95.4	65.7
1-1/2"	40	32	87.2	38	48.7	10.8	95.7	35.3	105.6	74.4
2"	50	50	109	50	61.1	10.9	110	38.5	128.6	94.2
2-1/2"	65	65	136	65	76.9	13.9	139	46.4	162.8	121.6
3"	80	80	163.2	80	89.8	16.6	155	52	189.2	143.6
4"	100	100	206	100	115.4	20.1	195.4	67	240	175.4

OPTION VT-WC 1-PC WAFER DISC CHECK VALVE PN40, NON SCREW

SIZE: 1/2"~10"



DN15~DN65:4GAP / DN80~DN100:8GAP
DN80~N=82:DN100:91.5



* MATERIAL LIST *

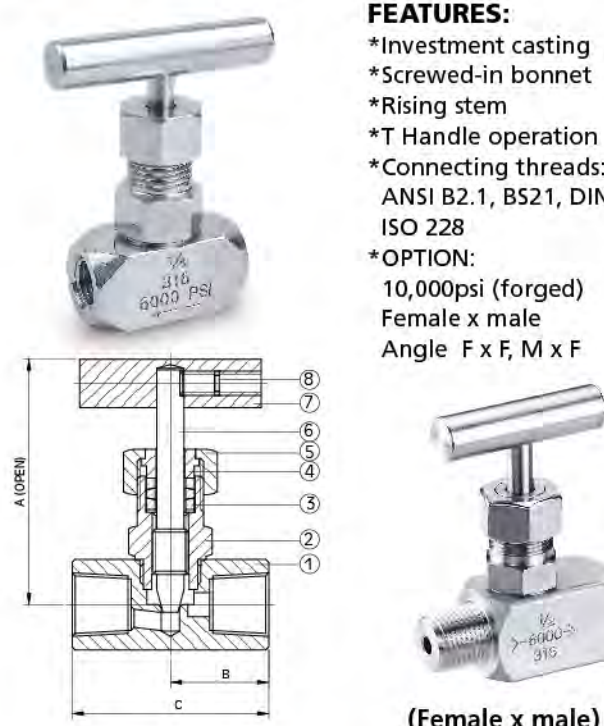
ITEM	PART	MATERIAL	Q.TY
1	BODY	ASTM-A351-CF8M	1
2	DISC	ASTM-A351-CF8M	1
3	SPRING	AISI 304	1
4	CAP	AISI 316	1

SIZE	DN	D	d	d1	L	H	J	M	R
1/2"	15	50	15	38	16	4	2.2	28	7
3/4"	20	60	20	45	19	4	2.2	31.5	7
1"	25	70	25	52.5	22	5	2.7	38	7
1-1/4"	32	81	32	68	28.5	6	3.7	46.5	10
1-1/2"	40	91	39.2	79	31.5	5	4.2	52	10
2"	50	106	48.5	88	40	8	4.7	59	10
2-1/2"	65	126	65	113	46	9	5.6	69	10
3"	80	150	80	130	50	11	7	76.5	10
4"	100	170	100	150	60	13	7.5	86.5	10

UNIT:mm

VT-ND NEEDLE VALVE 6000 PSI

SIZE: 1/8"~2"



FEATURES:

- *Investment casting
- *Screwed-in bonnet
- *Rising stem
- *T Handle operation
- *Connecting threads:
ANSI B2.1, BS21, DIN 259/2999,
ISO 228
- *OPTION:
10,000psi (forged)
Female x male
Angle F x F, M x F

NO.	PART NAME	MATERIAL	Q'TY
1	BODY	ASTM-A351-CF8M	1
2	BONNET	ASTM-A351-CF8M	1
3	PACKING	TEFLON	3
4	GLAND	AISI 304	1
5	GLAND NUT	AISI 304	1
6	STEM	AISI 316	1
7	HANDLE	AISI 410	1
8	SET SCREW	AISI 304	1

UNIT:mm

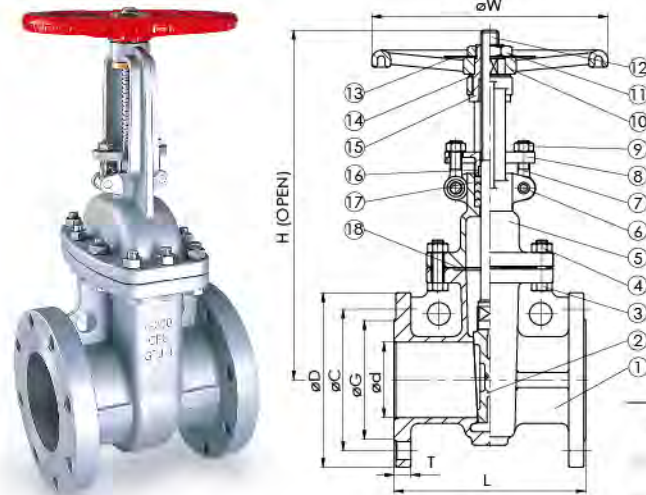
SIZE	A	B	C	WEIGHT KGS
1/8"	75	29	58	0.35
1/4"	75	29	58	0.35
3/8"	75	29	58	0.35
1/2"	87	32.5	65	0.56
3/4"	90	35	70	0.7
1"	103	40	80	1.3
1-1/4"	108	45	90	1.9
1-1/2"	115	50	100	2.8
2"	121	55	110	4.0

(Female x male)



VT-GAF GATE VALVE CL150/10K STAINLESS STEEL

SIZE: 1/2"~12"



NO.	PART NAME	MATERIAL
1	BODY	SCS14/CF8M SCS13/CF8
2	DISC	SCS14/CF8M SCS13/CF8
3	BONNET BOLT	ASTM 194-B8
4	BONNET NUT	ASTM 194-B8
5	BONNET	SCS14/CF8M SCS13/CF8
6	HINGE PIN	AISI 304
7	EYE BOLT	AISI 304
8	GLAND	SCS13/CF8
9	EYE NUT	AISI 304
10	HAND WHEEL	FCD
11	NUT	BRONZE(OR DUCTILENI-RESIST)
12	STEM	AISI 316 AISI 304
13	NAME PLATE	AISI 304
14	SPRING	BRONZE(OR DUCTILENI-RESIST)
15	YOKE SLEEVE	BRONZE(OR DUCTILENI-RESIST)
16	GLAND PACKING	PTFE
17	PACKING	PTFE
18	GASKET	PTFE(OR NO ASBESTOS)

UNIT:mm

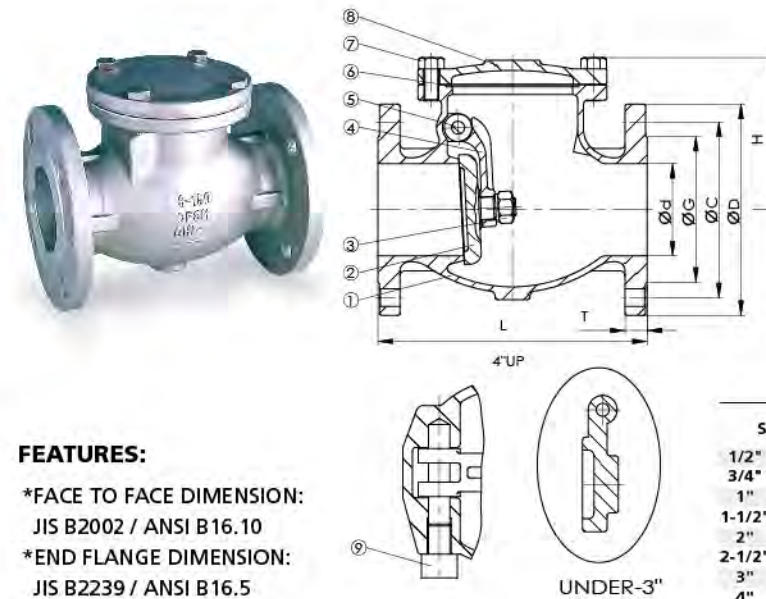
SIZE	Ød	L	H	ØW	150 10K	150 10K	150 10K	150 10K	150 10K	150 10K
1/2"	15	108	190	120	89	95	60.5	70	35	51
3/4"	20	117	195	120	98	100	70	75	43	56
1"	25	127	234	120	108	125	79.5	90	51	67
1 1/4"	32	140	297	200	117	135	89	100	64	76
1 1/2"	40	165	300	200	127	140	98.5	105	73	81
2"	50	178	331	200	152	155	120.5	120	92	96
2 1/2"	65	190	393	200	178	175	139.5	140	105	116
3"	80	203	470	250	190	185	152.5	150	127	126
4"	100	229	545	250	229	210	190.5	175	157	151
5"	125	254	640	300	254	250	216	210	186	182
6"	150	267	740	300	279	280	241.5	240	216	212
8"	200	292	910	350	343	330	298.5	290	270	262
10"	250	330	1097	400	406	400	362	355	324	324
12"	300	356	1285	400	483	445	432	400	381	368

FEATURES:

- *FACE TO FACE DIMENSION: JIS B2002 / ANSI B16.10
- *END FLANGE DIMENSION: JIS B2239 / ANSI B16.5
- *DESIGN: ANSI B16.34 / API 603
- *TEST: API 598
- *INVESTMENT CASTING BODY
- *OPTION: JIS 20K / CLASS 300 / DIN PN16

VT-WCF SWING CHECK VALVE CL150/10K STAINLESS STEEL

SIZE: 1/2"~12"



NO.	PART NAME	MATERIAL
1	BODY	SCS13/CF8 SCS14/CF8M
2	DISC	SCS13/CF8 SCS14/CF8M
3	NUT	AISI 304
4	ARM HINGE	SCS13/CF8 SCS14/CF8M
5	HINGE PIN	AISI 304
6	GASKET	PTFE(OR NO ASBESTOS)
7	BOLT	ASTM A194-B8/A194-2H
8	BONNET	SCS13/CF8 SCS14/CF8M
9	BOLT	AISI 304

UNIT:mm

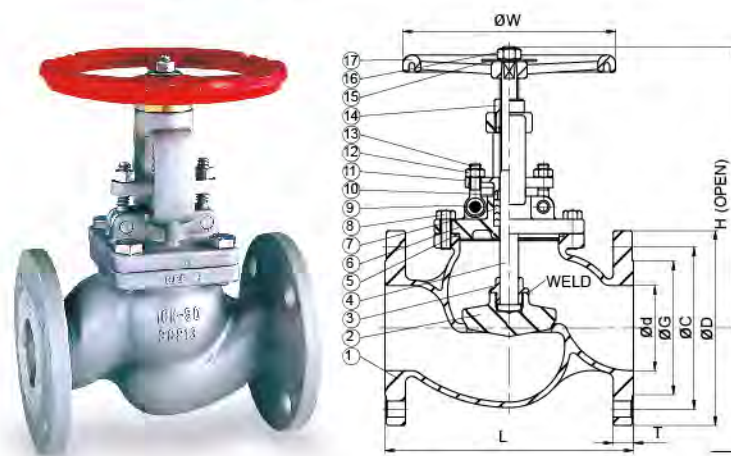
SIZE	Ød	L	H	150 10K	150 10K	150 10K	150 10K	150 10K	150 10K	150 10K
1/2"	15	15	108	51	89	95	60.5	70	35	51
3/4"	20	20	117	54	98	100	70	75	43	56
1"	25	25	127	64	108	125	79.5	90	51	67
1 1/2"	40	40	165	75	127	140	98.5	105	73	81
2"	50	50	203	97	152	155	120.5	120	92	96
2 1/2"	65	65	216	111	178	175	139.5	140	105	116
3"	80	80	241	120	190	185	152.5	150	127	126
4"	100	100	292	162	229	210	190.5	175	157	151
5"	125	125	330	179	254	250	216	210	186	182
6"	150	150	356	203	279	280	241.5	240	216	212
8"	200	200	495	236	343	330	298.5	290	270	262
10"	250	250	622	302	406	400	362	355	324	324
12"	300	300	698	340	483	445	432	400	381	368

FEATURES:

- *FACE TO FACE DIMENSION: JIS B2002 / ANSI B16.10
- *END FLANGE DIMENSION: JIS B2239 / ANSI B16.5
- *DESIGN: ANSI B16.34
- *TEST: API 598
- *INVESTMENT CASTING BODY
- *OPTION: JIS 20K / CLASS 300 / DIN PN16

VT-GLF GLOBE VALVE CL150/10K STAINLESS STEEL

SIZE: 1/2"~12"



NO.	PART NAME	MATERIAL
1	BODY	SCS13/CF8 SCS14/CF8M
2	DISC	SCS13/CF8 SCS14/CF8M
3	DISC COVER	SCS13/CF8 SCS14/CF8M
4	STEM	AISI 304
5	GASKET	PTFE
6	BONNET	SCS13/CF8 SCS14/CF8M
7	GLAND PACKING	PTFE
8	BONNET BOLT	ASTM 193-B8
9	HINGE PIN	AISI 304
10	SLEEVE	PTFE
11	GLAND	CF8
12	NUT	ASTM 193-B8
13	EYE BOLT	ASTM 193-B8
14	YOKE SLEEVE	BRONZE
15	NAME PLATE	AISI 304
16	NUT	ASTM 193-B8
17	HAND WHEEL	FCD400

UNIT:mm

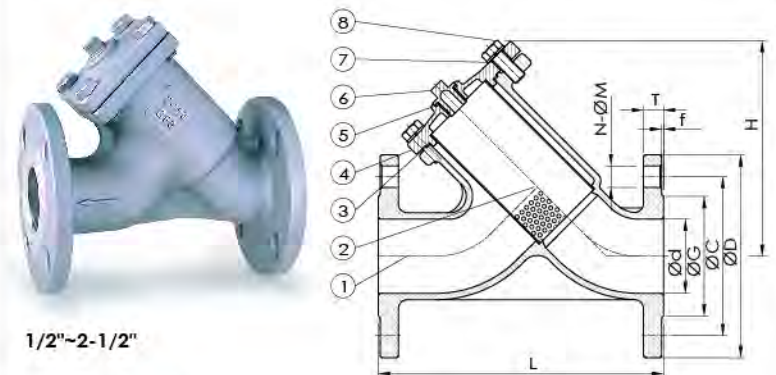
SIZE	d	L	H	W	150 10K	150 10K	150 10K	150 10K	150 10K	150 10K
1/2"	15	108	168	140	89	95	60.5	70	35	51
3/4"	20	117	168	140	98	100	70	75	43	56
1"	25	127	173	140	108	125	79.5	90	51	67
1 1/4"	32	140	190	160	117	135	89	100	64	76
1 1/2"	40	165	200	160	127	140	98.5	105	73	81
2"	50	203	230	200	152	155	120.5	120	92	96
2 1/2"	65	216	243	200	178	175	139.5	140	105	116
3"	80	241	286	250	190	185	152.5	150	127	126
4"	100	292	325	250	229	210	190.5	175	157	151
5"	125	356	380	300	254	250	216	210	186	182
6"	150	406	445	350	279	280	241.5	240	216	212
8"	200	495	545	400	343	330	298.5	290	270	262
10"	250	622	650	450	406	400	362	355	324	324
12"	300	698	736	450	483	445	432	400	381	368

FEATURES:

- *FACE TO FACE DIMENSION: JIS B2002 / ANSI B16.10
- *END FLANGE DIMENSION: JIS B2239 / ANSI B16.5
- *DESIGN: ANSI B16.34
- *TEST: API 598
- *INVESTMENT CASTING BODY
- *OPTION: JIS 20K / CLASS 300 / DIN PN16

VT-YF Y-STRAINER CL150/10K STAINLESS STEEL/CARBON STEEL

SIZE: 1/2"~12"



FEATURES:

- *END FLANGE DIMENSION: JIS B2239 / ANSI B16.5
- *DESIGN: ANSI B16.34
- *TEST: API 598
- *INVESTMENT CASTING BODY
- *OPTION: JIS 20K / CLASS 300 / DIN PN16

NO.	PART NAME	MATERIALS
1	BODY	CF8M CF8 WCB
2	SCREEN	AISI 316 AISI 304 AISI 304
3	GASKET	PTFE PTFE PTFE
4	BONNET	CF8M CF8 WCB
5	GASKET	PTFE PTFE PTFE
6	STOPPER	CF8M CF8M CF8M
7	SPRING WASHERS	AISI 304 AISI 304 AISI 304
8	BONNET BOLT	AISI 304 AISI 304 B7

UNIT:mm

SIZE	Ød	L	H	150 10K	150 10K	150 10K	150 10K	150 10K	150 10K	150 10K
1/2"	15	15	120	85	89	95	60.5	70	35	51
3/4"	20	20	140	87	98	100	70.0	75	43	56
1"	25	25	150	114	108	125	79.5	90	51	67
1 1/2"	40	40	190	135	127	140	98.5	105	73	81
2"	50	50	210	155	152	155	120.5	120	92	96
2 1/2"	65	65	250	189	178	175	139.5	140	105	116
3"	80	80	280	200	190	185	152.5	150	127	126
4"	100	100	340	232	229	210	190.5	175	157	151
5"	125	125	380	274	254	250	216.0	210	186	182
6"	150	150	420	326	279	280	241.5	240	216	212
8"	200	200	500	397	343	330	298.5	290	270	262
10"	250	250	730	512	406	400	362.0	355	324	324
12"	300	300	850	562	483	445	432.0	400	381	368

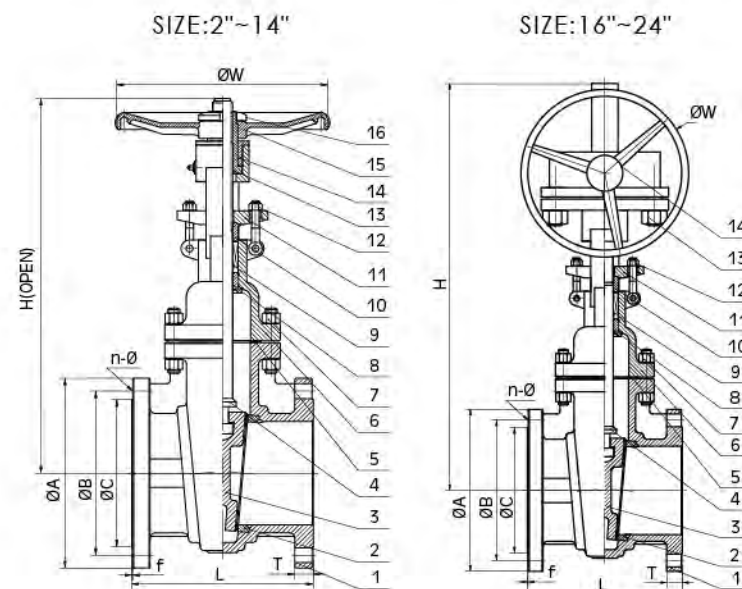
SCREEN SPECIFICATION

SIZE	PERFORATION
1/2"-1-1/4"	1.5MM
1-1/2"-12"	2MM

3"~12"

NEW VT-GAF-WCB GATE VALVE CLASS 150 CAST STEEL

SIZE: 2"~24"



FEATURES:

- *FACE TO FACE DIMENSIONS: ANSI B16.10
- *END FLANGE DIMENSIONS: ANSI B16.5
- *BASIC DESIGN: API 600
- *TEST STANDARD: API 598

OPTION:

- *CLASS 300/ 600
- *OTHER TRIM IS AVAILABLE.

UNIT:mm							
SIZE	ØA	ØB	ØC	T	f	L	n-Ø
2"	152	120.5	92	16	1.6	178	4-Ø19
2-1/2"	178	139.5	105	17.5	1.6	190	4-Ø19
3"	190	152.5	127	19	1.6	203	4-Ø19
4"	229	190.5	157	24	1.6	229	8-Ø19
5"	254	216	157	25	1.6	254	8-Ø22
6"	279	241.5	216	26	1.6	267	8-Ø22
8"	343	298.5	270	29	1.6	292	8-Ø22
10"	406	362	324	31	1.6	330	12-Ø25
12"	483	432	381	32	1.6	356	12-Ø25
14"	533	476	413	35	1.6	381	12-Ø29

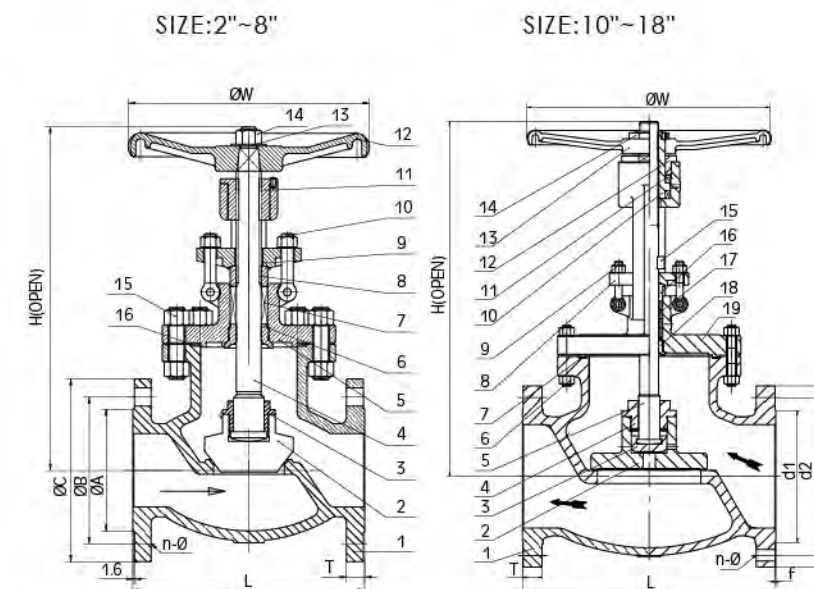
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	WCB	1
2	SEATRING	A105+13CR FACE	1
3	WEDGE	WCB+13CR FACE	1
4	STEM	13CR	1
5	GASKET	304+GRAPHITE	1
6	BONNET	WCB	1
7	BONNET BOLT	A193-B7/2H	1 SET
8	BACK SEAT	13CR	1
9	GLAND PACKING	GRAPHITE	6
10	GLAND	13CR	1
11	GLAND FLANGE	CARBON STEEL	1
12	GLAND BOLT / NUT	A193-B7/A194-2H	2
13	YOKE SLEEVE	QT450	1
14	NUT	AISI 1025	1
15	HANDWHEEL	MALLEABLE IRON	1
16	H/W NUT	AISI 1025	1

NO.	PART NAME	MATERIAL	Q'TY
1	BODY	WCB	1
2	SEATRING	A105+13CR FACE	2
3	WEDGE	WCB+13CR FACE	1
4	STEM	13CR	1
5	GASKET	304+GRAPHITE	1
6	BONNET	WCB	1
7	BONNET BOLT	A193-B7/2H	1 SET
8	BACK SEAT	13CR	1
9	GLAND PACKING	GRAPHITE	6
10	GLAND	13CR	1
11	GLAND FLANGE	CARBON STEEL	1
12	GLAND BOLT / NUT	A193-B7/A194-2H	2
13	BOLT / NUT	A193-B7/2H	1 SET
14	GEAR CASE	STEEL	1

UNIT:mm							
SIZE	ØA	ØB	ØC	T	f	L	n-Ø
16"	597	540	470	37	1.6	406	16-Ø29
18"	635	578	533	40	1.6	432	16-Ø32
20"	699	635	584	43	1.6	457	20-Ø32
24"	813	749.5	692	48	1.6	508	20-Ø35

NEW VT-GLF-WCB GLOBE VALVE CLASS 150 CAST STEEL

SIZE: 2"~18"



FEATURES:

- *FACE TO FACE DIMENSIONS: ANSI B16.10
- *END FLANGE DIMENSIONS: ANSI B16.5
- *BASIC DESIGN: BS 1873 & ANSI B16.34
- *TEST STANDARD: API 598

OPTION:

- *CLASS 300/ 600
- *OTHER TRIM IS AVAILABLE.

UNIT:mm							
SIZE	ØA	ØB	ØC	T	L	n-Ø	
2"	92	120.5	152	16	203	4-Ø19	
2-1/2"	105	139.5	178	17.5	216	4-Ø19	
3"	127	152.5	190	19	241	4-Ø19	
4"	157	190.5	229	24	292	8-Ø19	
5"	186	216	254	25	356	8-Ø22	
6"	216	241.5	279	26	406	8-Ø22	
8"	270	298.5	343	29	495	8-Ø22	

NO.	PART NAME	MATERIAL	Q'TY
1	BODY	WCB+13CR FACE	1
2	DISC	A105+13CR FACE	1
3	NUT	F6	1
4	STEM	F6	1
5	BONNET	WCB	1
6	BACK SEAT	F6	1
7	GLAND PACKING	Graphite	6
8	GLAND	F6	1
9	GLAND FLANGE	A105	1
10	STUD / NUT	A193-B7/2H	2
11	YOKE SLEEVE	QT400	1
12	HANDWHEEL	IRON CAST A197	1
13	WASHER	A3	1
14	NUT	A194-2H	1
15	STUD / NUT	A193-B7/2H	1 SET
16	GASKET	304+GRAPHITE	1

UNIT:mm							
SIZE	Ød1	Ød2	ØD	T	f	L	n-Ø
10"	324	362	406	31	1.6	622	12-Ø25
12"	381	432	483	32	1.6	698	12-Ø25
14"	413	476	533	35	1.6	787	12-Ø29
16"	470	540	597	37	1.6	914	16-Ø29
18"	533	578	635	40	1.6	978	16-Ø32

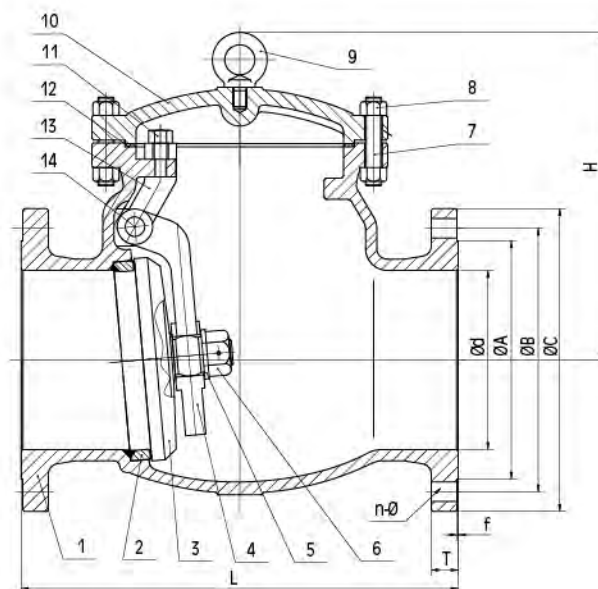
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	WCB+13CR FACE	1
2	DISC	A105+13CR FACE	1
3	SMALL DISC	13CR	1
4	NUT	A105	1
5	STEM	13CR	1
6	STUD / NUT	A193-B7/2H	1 SET
7	GASKET	304+GRAPHITE	1
8	GLAND FLANGE	A105	1
9	STUD / NUT	A193-B7/2H	2
10	YOKE SLEEVE	QT400	1
11	BEARING	STEEL	2
12	CAPPER	A194-2H	1
13	HANDWHEEL	IRON CAST A197	1
14	NUT	A194-2H	1
15	ORIENTED DOLLOP	STEEL	1
16	GLAND	13CR	1
17	GIAND PACKING	GRAPHITE	6
18	BACK SEAT	13CR	1
19	BONNET	WCB	1

NEW VT-WCF-WCB SWING CHECK VALVE CLASS 150 CAST STEEL

SIZE: 2"~24"



(2"-5")



FEATURES:

- *FACE TO FACE DIMENSIONS: ANSI B16.10
- *END FLANGE DIMENSIONS: ANSI B16.5
- *BASIC DESIGN: API 6D & BS 1868
- *TEST STANDARD: API 598

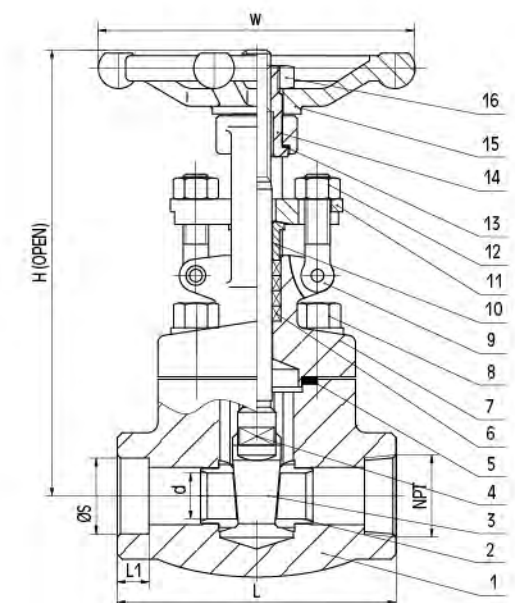
OPTION:

- *CLASS 300/ 600
- *OTHER TRIM IS AVAILABLE.

UNIT:mm											
SIZE	Ød	ØA	ØB	ØC	T	L	n-Ø	NO.	PART NAME	MATERIAL	Q'TY
2"	51	92	120.5	152	16	203	4-Ø19	1	BODY	WCB	1
2-1/2"	64	105	139.5	178	17.5	216	4-Ø19	2	BODY SEAT RING	A105+13CR FACE	1
3"	76	127	152.5	190	19	241	4-Ø19	3	DISC	WCB+13CR FACE	1
4"	102	157	190.5	229	24	292	8-Ø19	4	ARM	WCB	1
5"	127	186	216	254	25	330	8-Ø22	5	WASHER	13CR	1
6"	152	216	241.5	279	26	356	8-Ø22	6	NUT	SS 304	1
8"	203	270	298.5	343	29	495	8-Ø22	7	STUD	A193-B7	1 SET
10"	254	324	362	406	31	622	12-Ø25	8	NUT	A194-2H	1 SET
12"	305	381	432	483	32	698	12-Ø25	9	EYEBOLT(6"-24")	25#	1
14"	337	413	476	533	35	787	12-Ø29	10	BONNET	WCB	1
16"	387	470	540	597	37	864	16-Ø29	11	STUD	A193-B8	1
18"	438	533	578	635	40	978	16-Ø32	12	GASKET	304+GRAPHITE	1
20"	489	584	635	699	43	978	20-Ø32	13	LINK	WCB	1
24"	591	692	749.5	813	48	1295	20-Ø35	14	PIN	13CR	1

NEW VTFC-GA GATE VALVE CLASS 1500, A105N

SIZE: 3/8"~2"



FEATURES:

- * FORGED BODY
- * FULL PORT
- * CONSTRUCTION: B.B (BOLTED BONNET); OS & Y (OUTSIDE SCREW & YOKE)
- * MATERIAL FOR HARD TRIM DEPENDS ON CUSTOMER'S REQUEST & OPERATING CONDITION
- * DESIGN: API 602
- * SOCKET WELD DIMENSION: ANSI B16.11
- * SCREW END DIMENSION: ANSI B1.20.1
- * INSPECT & TEST: API 598

OPTIONS:

- * BODY MATERIAL: LF2, F5, F11, F22, F304, F304L, F316, F316L
- * CONSTRUCTION: W.B (WELDED BONNET)
- * CLASS 150-800 SOCKET WELD/ NPT END
- * CLASS 150-600 FLANGED END
- * CLASS 900-1500 BUTT WELD END
- * CLASS 900-2500 P.S (PRESSURE SEAL) SOCKET WELD/ NPT/ FLANGED END

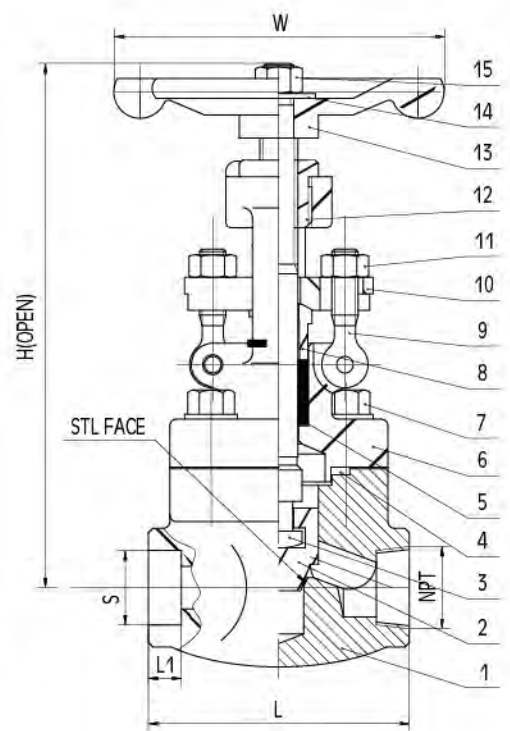
UNIT:mm						
SIZE	d	ØS	L1	L	H	W
3/8"	7	17.6	10	79	170	100
1/2"	12.7	21.8	10	92	193	100
3/4"	18	27.2	13	111	230	125
1"	23	33.9	13	120	246	160
1-1/4"	28.5	42.7	13	120	283	160
1-1/2"	36	48.8	13	140	325	180
2"	42	61.2	16	170	334	200

NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A105N	1
2	SEAT RING	A276-410	2
3	WEDGE	A182-F6a	1
4	STEM	A276-420	1
5	GASKET	SPIRAL WOUND TYPE 304+GRAPHITE	1
6	GLAND PACKING	FLEXIBLE GRAPHITE	5
7	BONNET	A105N	1
8	BONNET BOLT	A193-B7	4
9	GLAND BOLT	A193-B7	2
10	GLAND	A276-410	1
11	GLAND FLANGE	A105N	1
12	GLAND NUT	A194-2H	2
13	SLEEVE WASHER	A276-410	1
14	YOKE SLEEVE	13CR	1
15	HANDWHEEL	MALLEABLE IRON	1
16	H/W NUT	AISI 1025	1



NEW VTFG-GL GLOBE VALVE CLASS 1500, A105N

SIZE: 3/8"~2"



- FEATURES:**
- * FORGED BODY
 - * CONSTRUCTION: B.B (BOLTED BONNET); OS & Y (OUTSIDE SCREW & YOKE)
 - * BASIC DESIGN: API 602; TEST & INSPECT: API 598
 - * END: SOCKET WELD (ANSI B16.11) / THREADED END (ANSI B1.20.1)
 - * INTEGRAL SEAT

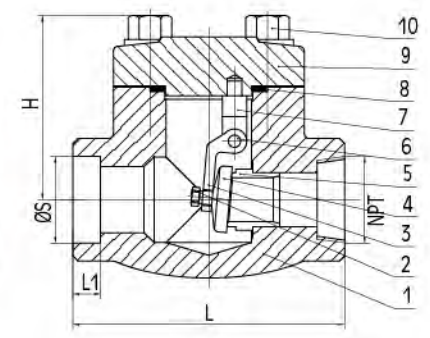
- OPTIONS:**
- * BODY MATERIAL: LF2, F5, F11, F22, F304, F304L, F316, F316L
 - * CONSTRUCTION: W.B (WELDED BONNET)
 - * CLASS 150-600 SOCKET WELD/ NPT END
 - * CLASS 900-1500 P.S (PRESSURE SEAL), SOCKET WELD/ NPT/ FLANGED END
 - * CLASS 2500 P.S (PRESSURE SEAL), SOCKET WELD/ NPT/ FLANGED END

UNIT:mm					
SIZE	L	H	W	S	L1
3/8"	79	166	100	17.6	9.6
1/2"	92	175	100	21.8	9.6
3/4"	111	209	125	27.1	12.7
1"	120	228	160	33.8	12.7
1-1/4"	152	261	160	42.6	12.7
1-1/2"	172	300	180	48.7	12.7
2"	220	327	200	61.1	15.9

ITEM	PART NAME	MATERIAL	Q'TY
1	BODY	A105N+STL FACE	1
2	DISC	A276 410	1
3	STEM	A276 420	1
4	GASKET	304+GRAPHITE	1
5	GLAND PACKING	FLEXIBLE GRAPHITE	5
6	BONNET	A105N	1
7	BONNET BOLT	A193-B7	4
8	GLAND	A276 410	1
9	GLAND BOLT	A193-B7	2
10	GLAND FLANGE	A105N	1
11	GLAND NUT	A194-2H	2
12	YOKE SLEEVE	13CR	1
13	HANDWHEEL	MALLEABLE IRON	1
14	SLEEVE WASHER	AISI 1025	1
15	H/W NUT	AISI 1025	1

NEW VTFG-C SWING CHECK VALVE CLASS 800, A105N

SIZE: 1/2"~2"



- FEATURES:**
- * FORGED BODY
 - * BASIC DESIGN: API 602; TEST & INSPECT: API 598
 - * REDUCED PORT; B.C (BOLTED COVER) SWING CHECK
 - * END: SOCKET WELD (ANSI B16.11) / THREADED END (ANSI B1.20.1)

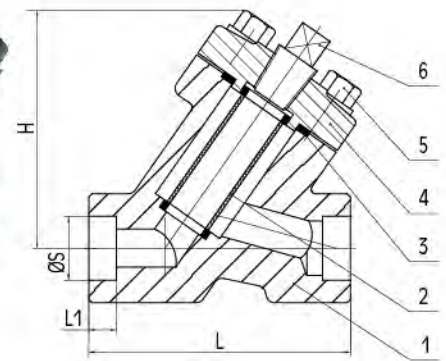
- OPTIONS:**
- * FULL PORT
 - * BODY MATERIAL: LF2, F5, F11, F22, F304, F304L, F316, F316L
 - * CLASS 150-800 LIFT CHECK VALVE
 - * CLASS 800-1500 Y TYPE LIFT CHECK VALVE

NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A105N	1
2	NUT	SS304	1
3	ARM	CF8	1
4	DISC	13CR	1
5	SEAT	13CR	1
6	PIN	SS304	1
7	PIN STEM	13CR	1
8	GASKET	SPW 304+GRAPHITE	1
9	BONNET	A105N	1
10	BOLT	A193-B7	4

UNIT:mm				
SIZE	L	ØS	L1	H
1/2"	79	21.8	10	62
3/4"	92	27.2	13	63
1"	111	33.9	13	78
1-1/4"	120	42.7	13	82
1-1/2"	120	48.8	13	102
2"	140	61.2	16	120

NEW VTFG-Y Y-STRAINER CLASS 800, A105N

SIZE: 1/4"~2"



- FEATURES:**
- * FORGED BODY
 - * BASIC DESIGN: API 602; TEST & INSPECT: API 598
 - * B.C (BOLTED COVER)
 - * END: SOCKET WELD (ANSI B16.11) / THREADED END (ANSI B1.20.1)

- OPTIONS:**
- * BODY MATERIAL: LF2, F5, F11, F22, F304, F304L, F316, F316L

NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A105N	1
2	SCREEN	SS304	1
3	GASKET	304+GRAPHITE	1
4	BONNET	A105N	1
5	BOLT	A193-B7	4
6	PLUG	13CR	1

UNIT:mm				
SIZE	L	H	ØS	L1
1/4"	98	86	21.8	10
3/4"	98	86	27.2	13
1"	120	105	33.9	13
1-1/4"	140	118	42.7	13
1-1/2"	140	120	48.8	13
2"	170	145	61.2	16

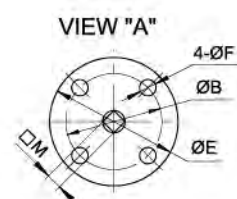
VT-BV BUTTERFLY VALVE - LUG TYPE

SIZE: DN40~DN1000

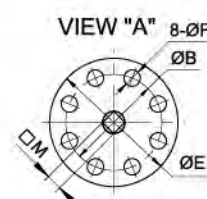


FEATURES:

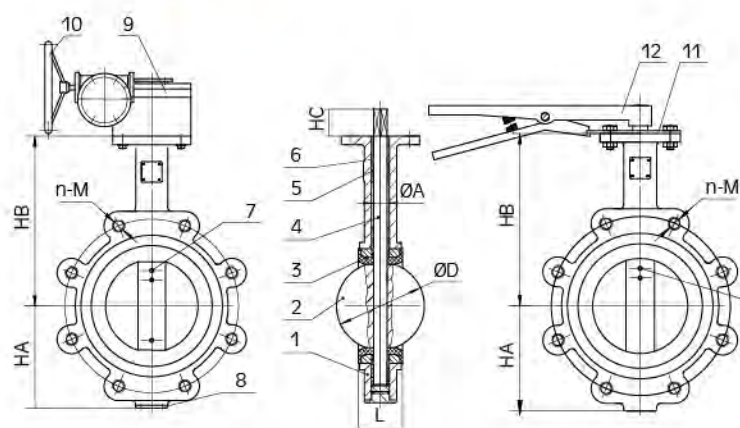
- *MATERIAL: C.I. / D.I. / WCB / SS304 / SS316
- *RATING: DIN PN16 / ANSI 150
- *HYDRAULIC TEST PRESSURE:
BODY 16 KGF/CM²
SEAT 12 KGF/CM²



DN40-500



DN600-900



NO.	PART NAME	MATERIAL
1	BODY	CI / DI / WCB / SS304 / SS316
2	DISC	DI / SS304 / SS316 / AL-BZ
3	SEAT	EPDM / NBR / PTFE / VITON
4	STEM	SS416 / SS420 / SS304 / SS316
5	BUSHING	PTFE
6	O-RING	EPDM / NBR / VITON
7	PIN	SS316 / SS416
8	END COVER	CI / DI / WCB / SS304 / SS316
9	GEAR BOX	CI / DI
10	HANDWHEEL	CI
11	RATCHET PLATE	Q235 / SS304
12	LEVER HANDLE	KTH350-10 / SS304

UNIT:mm

SIZE	HA	HB	HC	L	ØD	ØA	□M	ØE	ØB	ØF	ØC	DIN PN10/PN16 n-M	ANSI B16.1 n-M
DN40	70	110	32	35	42.4	12.7	9	92	70	9	110	4-M16	98.5 4-1/2"-13
DN50	76	162	32	45	52.9	12.7	9	92	70	9	125	4-M16	120.5 4-5/8"-11
DN65	80	175	32	48	64.6	12.7	9	92	70	9	145	4-M16	139.5 4-5/8"-11
DN80	95	181	32	49	79.04	12.7	9	92	70	9	160	4-M16/8-M16	152.5 4-5/8"-11
DN100	114	200	32	55	104.4	15.8	11	92	70	9	180	8-M16	190.5 8-5/8"-11
DN125	127	213	32	58	129.5	19.05	14	92	70	9	210	8-M16	216 8-3/4"-10
DN150	140	225	32	59	155.8	19.05	14	92	70	9	240	8-M20	241.5 8-3/4"-10
DN200	173	260	36	64	202.7	22.2	17	125	102	11	295	8-M20/12-M20	298.5 8-3/4"-10
DN250	203	292	36	70	250.7	28.6	22	125	102	11	350/355	12-M20/12-M24	362 12-7/8"-9
DN300	237	337	36	80	301.9	31.8	22	150	125	13	400/410	12-M20/12-M24	432 12-7/8"-9
DN350	279	368	45	80	333.3	31.8	22	150	125	13	460/470	16-M20/16-M24	476 12-1"-8
DN400	304	400	51	90	389.6	33.3	22	210	165	22	515/525	16-M24/16-M27	539.5 16-1"-8
DN450	362	422	51	109	439.9	38	27	210	165	22	565/585	20-M24/20-M27	578 16-11/8"-7
DN500	368	479	64	135	491.6	41.15	27	210	165	22	620/650	20-M24/20-M30	635 20-11/8"-7
DN600	444	562	70	156	592.3	50.65	36	300	254	18	725/770	20-M27/20-M33	749.5 20-11/4"-7
DN700	520	630	70	156	694.1	63.35	40	300	254	18	840	24-M27/24-M33	- -
DN750	621	648	72	169	744.2	63.35	40	300	254	18	-	-	914.5 28-11/4"-7
DN800	590	690	72	169	794.2	63.35	40	300	254	18	950	24-M30/24-M36	- -
DN900	623	768	77	211	863.4	74.25	53	300	254	18	1050	28-M30/28-M36	1086 32-11/2"-6
DN1000	670	850	77	211	963.4	84.2	60	300	254	18	1160/1170	28-M33/28-M39	- -

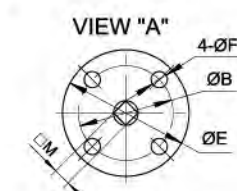
VT-BV BUTTERFLY VALVE - WAFER TYPE

SIZE: DN40~DN1200

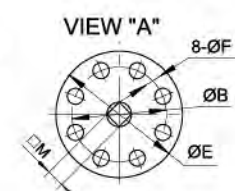


FEATURES:

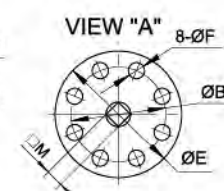
- *MATERIAL: C.I. / D.I. / WCB / SS304 / SS316
- *RATING: DIN PN16 / ANSI 150 / JIS 10K
- *HYDRAULIC TEST PRESSURE:
BODY 16 KGF/CM²
SEAT 12 KGF/CM²



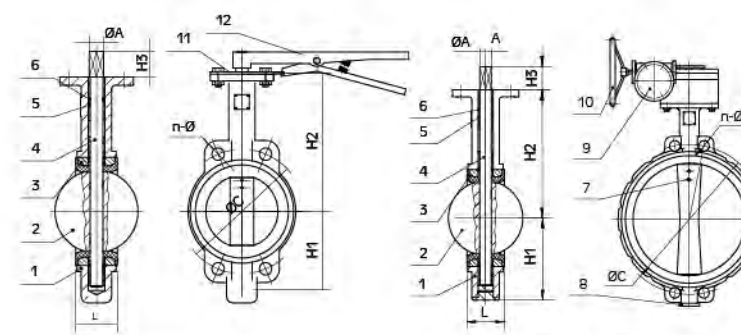
DN40-500



DN600



DN700-1000



DN40-300

DN350 above

NO.	PART NAME	MATERIAL
1	BODY	CI / DI / WCB / SS304 / SS316
2	DISC	DI / SS304 / SS316 / AL-BZ
3	SEAT	EPDM / NBR / PTFE / VITON
4	STEM	SS416 / SS420 / SS304 / SS316
5	BUSHING	PTFE
6	O-RING	EPDM / NBR / VITON
7	PIN	SS316 / SS416
8	END COVER	CI / DI / WCB / SS304 / SS316
9	GEAR BOX	CI / DI
10	HANDWHEEL	CI
11	RATCHET PLATE	Q235 / SS304
12	LEVER HANDLE	KTH350-10 / SS304

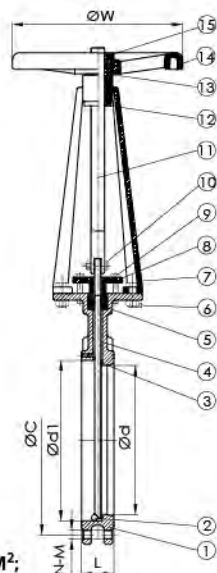
UNIT:mm

SIZE	H1	H2	H3	L	ØA	ØE	ØB	ØF	□M	ØC	DIN PN10 n-Ø	DIN PN16 n-Ø	ANSI 150 n-Ø	JIS 10K n-Ø
DN40	70	110	32	35	12.7	92	70	9	9	110	4-Ø18	110 4-Ø18	98.5 4-Ø16	95 4-Ø15
DN50	76	162	32	45	12.7	92	70	9	9	125	4-Ø18	125 4-Ø18	120.65 4-Ø19	120 4-Ø19
DN65	89	175	32	48	12.7	92	70	9	9	145	4-Ø18	145 4-Ø18	139.7 4-Ø19	140 4-Ø19
DN80	95	181	32	49	12.7	92	70	9	9	160	4-Ø18	160 8-Ø18	152.4 4-Ø19	150 4-Ø19
DN100	114	200	32	55	15.8	92	70	9	11	180	8-Ø18	180 8-Ø18	190.5 8-Ø19	175 8-Ø19
DN125	127	213	32	58	19.05	92	70	9	14	210	8-Ø18	210 8-Ø18	215.9 8-Ø22	210 8-Ø22
DN150	140	225	32	59	19.05	92	70	9	14	240	8-Ø23	240 8-Ø23	241.3 8-Ø22	240 8-Ø22
DN200	177	260	36	64	22.2	125	102	11	17	295	8-Ø23	295 12-Ø23	298.45 8-Ø22	290 8-Ø22
DN250	203	292	36	70	28.6	125	102	11	22	350	12-Ø23	355 12-Ø27	361.95 12-Ø25	355 12-Ø25
DN300	242	337	36	80	31.8	150	125	13	22	400	12-Ø23	410 12-Ø27	431.8 12-Ø25	400 16-Ø25
DN350	267	368	45	80	31.8	150	125	13	22	460	16-Ø23	460 16-Ø27	476.25 12-Ø29	-
DN400	298	400	51	90	33.3	210	165	22	22	515	16-Ø27	525 16-Ø30	539.75 16-Ø29	-
DN450	318	422	51	109	38	210	165	22	27	565	20-Ø27	585 20-Ø30	577.85 16-Ø32	-
DN500	349	479	64	135	41.15	210	165	22	27	620	20-Ø27	650 20-Ø33	635 20-Ø32	-
DN600	410	562	70	156	50.65	300	254	18	36	725	20-Ø30	770 20-Ø36	749.3 20-Ø35	-
DN700	520	624	72	169	55	300	254	18	40	840	24-Ø30	840 24-Ø36	-	-
DN750	516	624	72	175	55	300	254	18	40	-	-	-	914.5 4-1 1/4"-6	-
DN800	591	672	83	195	55	300	254	18	40	950	24-Ø33	950 24-Ø39	977.9 4-1 1/2"-6	-
DN900	611	768	77	211	74.25	300	254	18	53	1050	28-Ø33	1050 28-Ø39	1086 4-1 1/2"-6	-
DN1000	665	823	85	229	84.2	300	254	18	60	1160	28-Ø36	1170 28-Ø42	-	-
DN1200	955	880	206	249	92	350	298	22	60	1380	32-Ø39	-	1422.5 44-Ø41	-



NEW VT-KG KNIFE GATE VALVE

SIZE: 2"~20"



NO.	PART NAME	MATERIALS				
1	BODY	CF8M/SCS14	CF8/SCS13	WCB	FC	
2	PAWLS	AISI 316	AISI 304	AISI 304	FC	
3	SEAT		PTFE			
4	PLATE	AISI 316	AISI 304	AISI 304	AISI 304	
5	PACKING		ASB NON-ASB			
6	BOLT/NUT		AISI 304		MILD STEEL	
7	YOKE	CF8M/SCS14	CF8/SCS13	WCB	FC	
8	GLAND	CF8M/SCS14	CF8/SCS13	WCB	FC	
9	BOLT		AISI 304		MILD STEEL	
10	BOLT/NUT		AISI 304		MILD STEEL	
11	STEM	AISI 316	AISI304	AISI 304	SS41+HCr	
12	YOKE SLEEVE		BRONZE			
13	SPRING		BRONZE			
14	HAND WHEEL		FCD			
15	NUT		BRONZE			

UNIT:mm

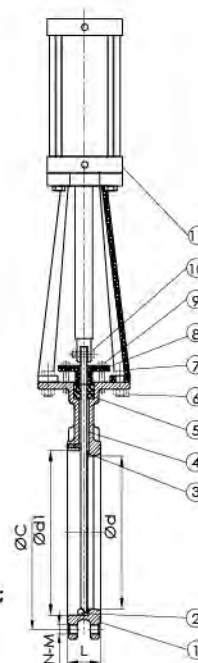
SIZE	Ød	Ød1	L	FC	AISI	ØW	ØC	10K	150	10K	150
2"	50	42	64	55	48	200	120	120.5	4-M16	4-M16	
2-1/2"	65	57	80	55	51	200	140	139.5	4-M16	4-M16	
3"	80	72	95	55	51	250	150	152.5	8-M16	4-M16	
4"	100	95	120	55	51	250	175	190.5	8-M16	8-M16	
5"	125	125	148	60	57	300	210	216	8-M20	8-M20	
6"	150	150	175	60	57	300	240	241.5	8-M20	8-M20	
8"	200	195	222	70	70	350	290	298.5	12-M20	8-M20	
10"	250	242	275	75	70	400	355	362	12-M22	12-M22	
12"	300	300	325	80	76	400	400	432	16-M22	12-M22	
14"	350	350	377	80	76	400	455	476.5	16-M22	12-M26	
16"	400	400	431	90	89	500	510	539.5	16-M24	16-M26	
18"	450	450	487	95	89	500	565	578	20-M24	16-M30	
20"	500	500	531	120	114	500	620	635	20-M24	20-M32	

- FEATURES:
- * RISING STEM DESIGN
 - * CONNECTION RATING: CLASS 150/ JIS 10K
 - * MSS- SP81 TEST STANDARD: BODY 11KG/CM²; SEAT 2.8 KG/CM²
 - * INVESTMENT CASTING BODY

- OPTIONS:
- * STEM IN NON-RISING DESIGN
 - * OPERATION IN ACTUATOR, GEAR, CHAINWHEEL
 - * BODY IN ONE PIECE DESIGN, OR BOLTED BONNET DESIGN, OR FLANGED END DESIGN
 - * PORT TYPE: IN V-PORT, WITH DEFLECTION CONE
 - * STELLITE SEAT

NEW VT-KG KNIFE GATE VALVE- WITH ACTUATOR

SIZE: 2"~20"



NO.	PART NAME	MATERIALS				
1	BODY	CF8M/SCS14	CF8/SCS13	WCB	FC	
2	PAWLS	AISI 316	AISI 304	AISI 304	FC	
3	SEAT		PTFE			
4	PLATE	AISI 316	AISI 304	AISI 304	AISI 304	
5	PACKING		ASB NON-ASB			
6	BOLT/NUT		AISI 304		MILD STEEL	
7	YOKE	SCS14/CF8M	SCS13/CF8	WCB	FC	
8	GLAND	SCS14/CF8M	SCS13/CF8	WCB	FC	
9	BOLT		AISI 304		MILD STEEL	
10	BOLT/NUT		AISI 304		MILD STEEL	
11	ACTUATOR		FC			

UNIT:mm

SIZE	Ød	Ød1	L	FC	AISI	10K	150LBS	10K	150LBS
2"	50	42	64	55	48	120	120.5	4-M16	4-M16
2-1/2"	65	57	80	55	51	140	139.5	4-M16	4-M16
3"	80	72	95	55	51	150	152.5	8-M16	4-M16
4"	100	95	120	55	51	175	190.5	8-M16	8-M16
5"	125	125	148	60	57	210	216	8-M20	8-M20
6"	150	150	175	60	57	240	241.5	8-M20	8-M20
8"	200	195	222	70	70	290	298.5	12-M20	8-M20
10"	250	242	275	75	70	355	362	12-M22	12-M22
12"	300	300	325	80	76	400	432	16-M22	12-M22
14"	350	350	377	80	76	455	476.5	16-M22	12-M26
16"	400	400	431	90	89	510	539.5	16-M24	16-M26
18"	450	450	487	95	89	565	578	20-M24	16-M30
20"	500	500	531	120	114	620	635	20-M24	20-M32

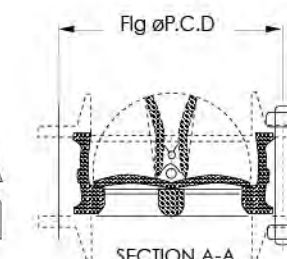
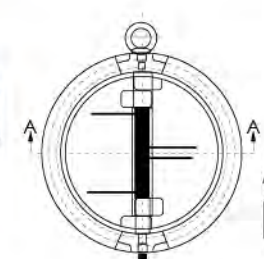
- FEATURES:
- * RISING STEM DESIGN
 - * CONNECTION RATING: CLASS 150/ JIS 10K
 - * MSS- SP81 TEST STANDARD: BODY 11KG/CM²; SEAT 2.8 KG/CM²
 - * INVESTMENT CASTING BODY

- OPTIONS:
- * STEM IN NON-RISING DESIGN
 - * OPERATION IN HAND WHEEL, GEAR, CHAINWHEEL
 - * BODY IN ONE PIECE DESIGN, OR BOLTED BONNET DESIGN, OR FLANGED END DESIGN
 - * PORT TYPE: IN V-PORT, WITH DEFLECTION CONE
 - * STELLITE SEAT

DUAL PLATE WAFER STYLE CHECK VALVE

SIZE: DN40-DN600

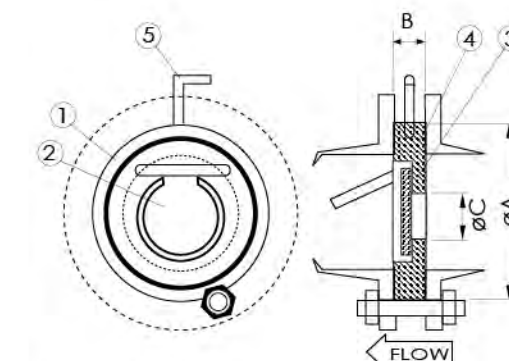
OPTION:



- * RATING DIN PN16/25/40
- * BODY & PLATE ASTM-A351-CF8M/ ASTM-A351-CF8
- * SEAT NBR/ EPDM/ VITON/ METAL TO METAL
- * FACE TO FACE API-594/ API-6D, SUIT FLANGED FOR ISO-7005-1
- * OPTION: MATERIAL OF WCB, CAST IRON

SINGLE DOOR CHECK VALVE

FL-HOOK TYPE SIZE: 2"~8"



- * RATING CLASS 150/ JIS 10K/ DIN PN16
- * BODY & DISC ASTM-A351-CF8M/ ASTM-A351-CF8

INSTALLATION DIMENSIONS

UNIT: mm

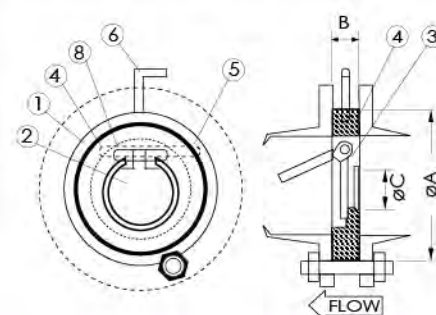
SIZE	SERIES	ØA	B	ØC	WEIGHTS (KGS)	SIZE	SERIES	ØA	B	ØC	WEIGHTS (KGS)
2"	10K	104	19	27	1.2	5"	10K	190	21	90	3.7
	150L	105	19	27	1.2		150L	197	21	90	4.0
	PN16	109	19	27	1.3		PN16	194	21	90	3.9
2-1/2"	10K	124	19	38	1.6	6"	10K	220	24	110	5.5
	150L	124	19	38	1.6		150L	222	24	110	5.7
	PN16	129	19	38	1.6		PN16	220	24	110	5.5
3"	10K	134	19	46	1.8	8"	10K	270	29	140	11.0
	150L	137	19	46	1.9		150L	279	29	140	11.5
	PN16	144	19	46	2.1		PN16	275	29	140	11.3
4"	10K	159	19	69	2.5						
	150L	175	19	69	2.7						
	PN16	164	19	69	2.9						

SL-PIN TYPE SIZE: 2"~24"

INSTALLATION DIMENSIONS

UNIT: mm

SIZE	SERIES	ØA	B	ØC	SIZE	SERIES	ØA	B	ØC
2"	10K	104	19	27	10"	10K	333	50	190
	150L	105	19	27		150L	340	50	190
	PN16	109	19	27		PN16	331	50	190
1-1/2"	10K	124	19	38	12"	10K	378	55	216
	150L	124	19	38		150L	410	55	216
	PN16	129	19	38		PN16	386	55	216
3"	10K	134	19	46	14"	10K	423	60	255
	150L	137	19	46		150L	451	60	255
	PN16	144	19	46		PN16	446	60	255
4"	10K	159	19	69	16"	10K	486	65	299
	150L	175	19	69		150L	514	65	299
	PN16	164	19	69		PN16	498	65	299
5"	10K	190	19	90	18"	10K	541	70	356
	150L	197	19	90		150L	549	70	356
	PN16	194	19	90		PN16	558	70	356
6"	10K	220	24	110	20"	10K	596	75	387
	150L	222	24	110		150L	606	75	387
	PN16	220	24	110		PN16	620	75	387
8"	10K	270	29	140	24"	10K	700	85	460
	150L	279	29	140		150L	718	85	460
	PN16	275	29	140		PN16	737	85	460





PRODUCTION OF FORGED FLANGES



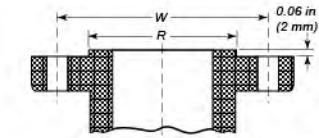
STANDARDS AVAILABLE:

- ASME: ANSI B16.5: CLASS 150/300/400/600/900/1500/2500
ANSI B16.47: SERIES A (MSS SP-44), SERIES B (API 605)
ANSI B16.36: Orifice
- DIN: 2573, 2572, 2631, 2576, 2632, 2633 (PN16), 2635 (PN40), 2543, 2634, 2545
- UNI: 2276 (EN 1092-1 PN6), 2277 (EN 1092-1 PN10), UNI 2278 (EN 1092-1 PN16), UNI 6083 (EN 1092-1 PN25), UNI 6084 (EN 1092-1 PN40)
- JIS: 5K, 10K, 16K, 20K
- BS: 4504, BS 3293, BS10
- UN (ISO)
- OTHERS: AS, NF, SANS

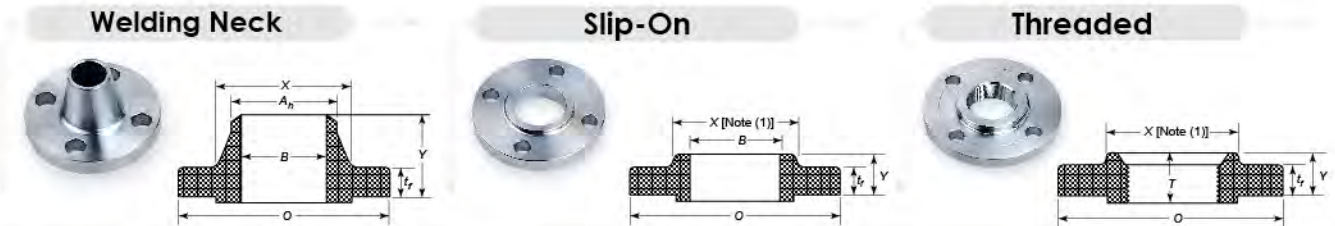
FORGED&CASTING FLANGES Stainless Steel/Carbon Steel CL150

SIZE: 1/2"-24"

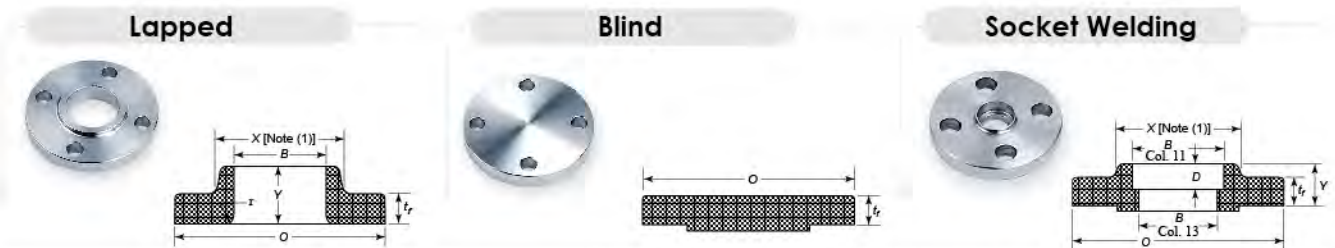
MATERIAL: ASTM A351-CF8M/ CF8, ASTM A105,
ASTM A182-F316/ F316L/ F304/ F304L
OPTION: CL300 / PN16 / PN40 / DIN ST37-2



Regularly furnished on
Classes 150 and 300,
unless otherwise ordered



Nominal Pipe Size	O.D. of Flange O	Thickness of Flange #	Diameter of Raised Face R	Diameter of Hub at Base X	Hub Dia. Beginning of Chamfer Welding Neck Ah	Length Thru Hub				Bore		
						Slip-On, Threaded, Socket	Lapped	Welding Neck	Min. Thread Length	Slip-On, Socket	Lapped	Welding Neck, Socket
						Y	Y	Y	T	B11	B12	B13
1/2"	90	9.6	34.9	30	21.3	14	16	46	16	22.2	22.9	15.8
3/4"	100	11.2	42.9	38	26.7	14	16	51	16	27.7	28.2	20.9
1"	110	12.7	50.8	49	33.4	16	17	54	17	34.5	34.9	26.6
1-1/4"	115	14.3	63.5	59	42.2	19	21	56	21	43.2	43.7	35.1
1-1/2"	125	15.9	73	65	48.3	21	22	60	22	49.5	50	40.9
2"	150	17.5	92.1	78	60.3	24	25	62	25	61.9	62.5	52.5
2-1/2"	180	20.7	104.8	90	73	27	29	68	29	74.6	75.4	62.7
3"	190	22.3	127.0	108	88.9	29	30	68	30	90.7	91.4	77.9
3-1/2"	215	22.3	139.7	122	101.6	30	32	70	32	103.4	104.1	90.1
4"	230	22.3	157.2	135	114.3	32	33	75	33	116.1	116.8	102.3
5"	255	22.3	185.7	164	141.3	35	36	87	36	143.8	144.4	128.2
6"	280	23.9	215.9	192	168.3	38	40	87	40	170.7	171.4	154.1
8"	345	27	269.9	246	219.1	43	44	100	44	221.5	222.2	202.7
10"	405	28.6	323.8	305	273	48	49	100	49	276.2	277.4	254.6
12"	485	30.2	381.0	365	323.8	54	56	113	56	327	328.2	304.8
14"	535	33.4	412.8	400	355.6	56	79	125	57	359.2	360.2	-
16"	595	35	469.9	457	406.4	62	87	125	64	410.5	411.2	-
18"	635	38.1	533.4	505	457	67	97	138	68	461.8	462.3	-
20"	700	41.3	584.2	559	508	71	103	143	73	513.1	514.4	-
24"	815	46.1	692.2	663	610	81	111	151	83	616	616	-



Nominal Pipe Size	Bore Radius r	Diameter of Bolt Circle W	Number of Bolts	Drilling		Welding Neck	Approximate Weight in KGS			
				Diameter of Bolts	Diameter of Holes		Slip-On Threaded	Lapped	Blind	Socket
1/2"	3	60.3	4	1/2"	5/8"	0.48	0.39	0.38	0.42	0.42
3/4"	3	69.9	4	1/2"	5/8"	0.71	0.56	0.55	0.61	0.59
1"	3	79.4	4	1/2"	5/8"	1.01	0.78	0.76	0.86	0.81
1-1/4"	5	88.9	4	1/2"	5/8"	1.33	1.03	1.01	1.17	1.07
1-1/2"	6	98.4	4	1/2"	5/8"	1.72	1.32	1.30	1.53	1.36
2"	8	120.7	4	5/8"	3/4"	2.58	2.06	2.03	2.42	2.10
2-1/2"	8	139.7	4	5/8"	3/4"	4.11	3.28	3.25	3.94	3.33
3"	10	152.4	4	5/8"	3/4"	4.92	3.85	3.81	4.93	3.90
3-1/2"	10	177.8	8	5/8"	3/4"	6.08	4.81	4.76	6.17	-
4"	11	190.5	8	5/8"	3/4"	6.84	5.30	5.25	7.00	-
5"	11	215.9	8	3/4"	7/8"	8.56	6.07	6.02	8.63	-
6"	13	241.3	8	3/4"	7/8"	10.60	7.45	7.40	11.30	-
8"	13	298.5	8	3/4"	7/8"	17.60	12.10	12.10	19.60	-
10"	13	362	12	7/8"	1"	24.00	16.50	16.40	28.80	-
12"	13	431.8	12	7/8"	1"	36.50	26.20	26.10	43.20	-
14"	13	476.3	12	1"	1-1/8"	48.40	34.60	34.50	58.10	-
16"	13	539.8	16	1"	1-1/8"	60.60	44.80	44.60	76.00	-
18"	13	577.9	16	1-1/8"	1-1/4"	68.30	48.90	48.70	93.70	-
20"	13	635	20	1-1/8"	1-1/4"	84.50	61.90	61.60	122.00	-
24"	13	749.3	20	1-1/4"	1-3/8"	115.00	86.90	86.60	185.00	-



INVESTMENT CASTING FITTINGS 150PSI

SIZE: 1/8"~4"

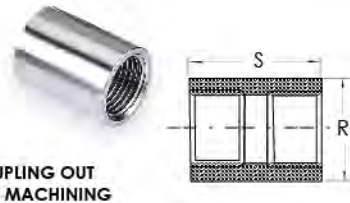
MATERIAL: ASTM-A351-CF8M, ASTM-A351-CF8

THREAD IN ACCORDANCE WITH ANSI B2.1, BS21, DIN 259/2999

SOCKET BANDED



COUPLING

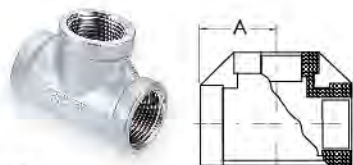


COUPLING OUT
SIDE MACHINING

SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
O	18	22	26	30	36	44	53	60	73	91	105	133
Q	25	25	30	35	39	44	50	55	60	70	75	85
S	15	19	22	27	33	41	49	56	69	87	103	133
R	26	29	30	38	40	44	50	54	63	70	77	87

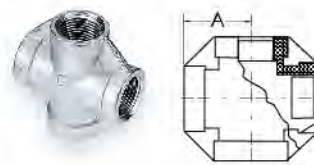
Unit: mm

TEE



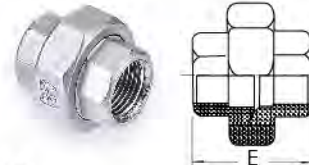
BANDED

CROSS



BANDED

UNION



UNIONS F/F

SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
A	20	20	24	28	33	38	45	49	57	69	78	96
E	25	31	37	42	49	59	69	78	93	112	127	158

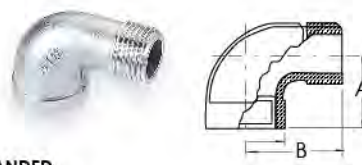
Unit: mm

ELBOW 90 DEG



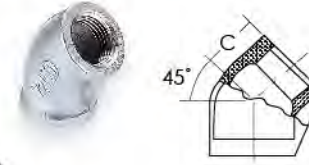
BANDED

STREET ELBOW



BANDED

ELBOW 45 DEG



BANDED

SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
A	20	20	24	28	33	38	45	49	57	69	78	96
B	26	30	36	41	48	54	62	68	80	92	104	126
C	19	19	21	22	25	29	33	36	43	49	54	65

Unit: mm

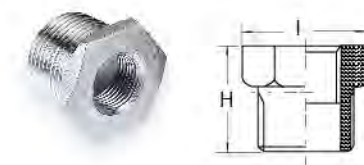
THREADED END

REDUCER SOCKET



SOCKET BANDED
REDUCING

HEXAGON BUSHING



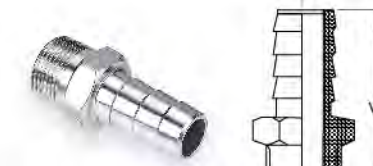
SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
O	18	22	26	30	36	44	53	60	73	91	105	133
P	-	25	28	34	38	42	48	52	58	65	72	85
I	13	16	20	24	30	37	46	52	64	80	94	120
J	-	17	18	22	24	27	31	32	37	40	44	51

Unit: mm

HEXAGON NIPPLE



HOSE NIPPLE



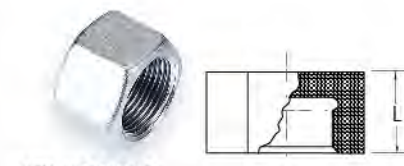
ROUND CAP



SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
K	31	33	35	42	47	52	56	59	66	72	80	91
V	40	45	50	60	65	75	85	90	100	120	130	140
O	18	22	26	30	36	44	53	60	73	91	105	133
N	15	15	16	19	20	25	26	26	31	35	40	45

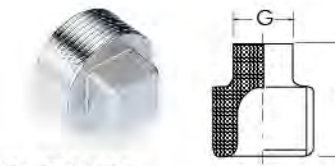
Unit: mm

HEXAGON CAP



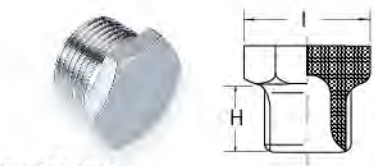
HEX. HEAD CAP

SQUARE PLUG



SQUARE HEAD PLUG

HEXAGON PLUG



HEX. HEAD PLUG

SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
L	15	15	17	20	24	28	30	32	36	42	45	55
G	7	9	12	14	17	19	23	26	32	41	46	58
F	15	19	21	25	28	31	35	36	41	48	53	62
H	16	19	22	24	27	30	37	38	41	51	54	59
I	13	16	20	24	30	37	46	52	64	80	94	120

Unit: mm

* Unlisted drawing is offered on request



NEW

PIPE FITTINGS 150PSI

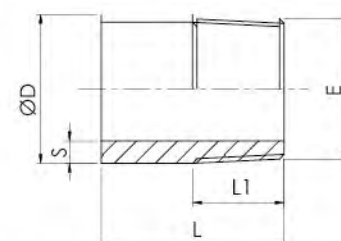
THREADED END

SIZE: 1/8"~4"

FEATURES:

- * MATERIAL: AISI 316, AISI 304
- * MADE FROM PIPE DIRECTLY
- * THREAD IN ACCORDANCE WITH ANSI B2.1, BS21, DIN 259/ 2999
- * LENGTH IS OFFERED ON REQUESTED: 30, 35, 40, 50, 60, 65, 80, 100, 150, 200MM
- * OPTION: HOSE NIPPLE, COUPLINGS OUTSIDE MACHINING, WELCOME OEM / ODM DESIGN

WELDING NIPPLE

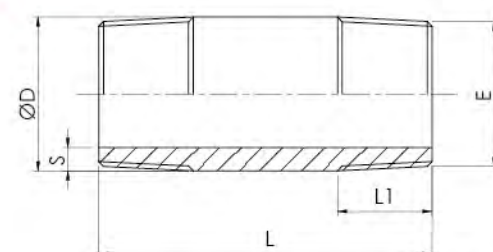


UNIT:mm

E	ØD	S	L1	L (Total Length)									
				30	35	40	50	60	70	80	100	150	200
1/8"	10.2	2.0	11	✓							✓	✓	✓
1/4"	13.5	2.3	12	✓							✓	✓	✓
3/8"	17.2	2.3	14	✓							✓	✓	✓
1/2"	21.3	2.6	16		✓						✓	✓	✓
3/4"	26.9	2.6	18			✓					✓	✓	✓
1"	33.7	3.2	21			✓					✓	✓	✓
1-1/4"	42.4	3.2	23				✓				✓	✓	✓
1-1/2"	48.3	3.2	23				✓				✓	✓	✓
2"	60.3	3.6	25				✓				✓	✓	✓
2-1/2"	76.1	3.6	30					✓			✓	✓	✓
3"	88.9	4.0	35						✓		✓	✓	✓
4"	114.3	4.5	45							✓	✓	✓	✓

✓ =Standard length

BARREL NIPPLE (RUNNING NIPPLE)



UNIT:mm

E	ØD	S	L1	L (Total Length)						
				40	65	80	100	120	150	200
1/8"	10.2	2.0	11	✓			✓		✓	✓
1/4"	13.5	2.3	12	✓			✓		✓	✓
3/8"	17.2	2.3	14	✓			✓		✓	✓
1/2"	21.3	2.6	16		✓		✓		✓	✓
3/4"	26.9	2.6	18		✓		✓		✓	✓
1"	33.7	3.2	21		✓		✓		✓	✓
1-1/4"	42.4	3.2	23			✓	✓		✓	✓
1-1/2"	48.3	3.2	23			✓	✓		✓	✓
2"	60.3	3.6	25			✓	✓		✓	✓
2-1/2"	76.1	3.6	30				✓		✓	✓
3"	88.9	4.0	35					✓	✓	✓
4"	114.3	4.5	45					✓	✓	✓

✓ =Standard length

SANITARY BUTTERFLY VALVES & FITTINGS

SIZE: 1"~4"



BUTTERFLY VALVES

- * MATERIAL: AISI 316L, AISI 304
- * FORGED BODY
- * LOW TORQUE
- * BUTT WELD END, CLAMP END, MALE/ MALE END
- * STANDARD: 3A, SMS, BS, DIN, IDF, RJT
- * DISC: FULL MACHINED, HIGH POLISHED
- * HANDLE: NYLON RE-FORCED HANDLE, SS HANDLE GRIPPER, PULL/ PRESS TYPE

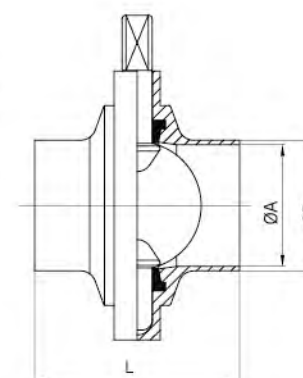
OPTION:

- * WITH ACTUATOR OPERATION
- * ELECTRO-POLISHED AND PTFE COATING

3A WELD/WELD

UNIT:mm

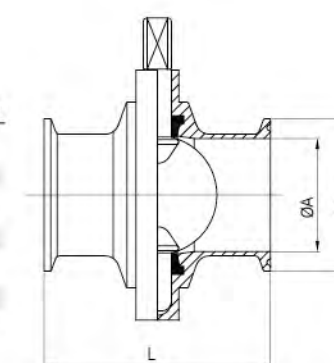
SIZE	ØA	ØD	L
1"	22.1	25.4	48
1-1/2"	34.8	38.1	48
2"	47.5	50.8	52
2-1/2"	60.2	63.5	54
3"	72.9	76.2	62
4"	97.4	101.6	80



3A CLAMP/CLAMP

UNIT:mm

SIZE	ØA	ØD	L
1"	22.1	50.5	70
1-1/2"	34.8	50.5	70
2"	47.5	64	75
2-1/2"	60.2	77.5	80
3"	72.9	91	90
4"	97.4	119	100



UNIONS, FERRULES, CLAMPS AND PIPE FITTINGS

BODY: SS304, SS316, SS316L

ENDS: 3A, BS, AS, NZS, SMS, DIN, RJT, CIP, IDF., ETC.