Enflow
INDUSTRIES INC.

CUSTOMER FOCUSED • HIGHEST QUALITY PRODUCTS • ENGINEERED TO EXACT DETAIL

QUALITY VALVES

FORGED STEEL VALVES
(GATE, GLOBE, CHECK)

Forged Gate, Globe & Check Valves

Forged steel Gate, Globe & Check valves come in three bonnet designs:

Bolted bonnet
Male-female joint, spiral wound graphite, Flexitalic spiral wound graphite or RTJ type sealing.

Welded bonnet
Threaded and seal welded joint. Full penetration strength welded joint available on request.

Pressure seal bonnet
Threaded and pressure seal bonnet joint.

Gate & Globe Valves

Valve Design Construction and Specifications

API 602, BS 5352 and ASME B16.34
Full Port or Conventional Port
Outside Screw and Yoke (OS & Y)
Two piece self aligning packing gland
Integral backseat
Socket weld ends to ASME B16.11
Screwed Ends (NPT) to ASME B 1.20.1
Flanged face to face ASME B16.10
Flanges to ASME B16.5
Butt Weld Ends to ASME B16.25
Tested to API 598
Marking to MSS-SP-25

Check Valves

Valve Design Construction and Specifications

MSS-SP-118, BS 5352, API 602 and ASME B16.34
Full Port or Conventional Port
Piston Check
Ball Check
Swing Check
Spring available on request
Socket weld ends to ASME B16.11
Screwed Ends (NPT) to ASME B 1.20.1
Flanged face to face ASME B16.10
Flanges TO ASME B16.5
Butt Weld Ends to ASME B16.25
Tested to API 598
Marking to MSS-SP-25

Enflow Figure Number System

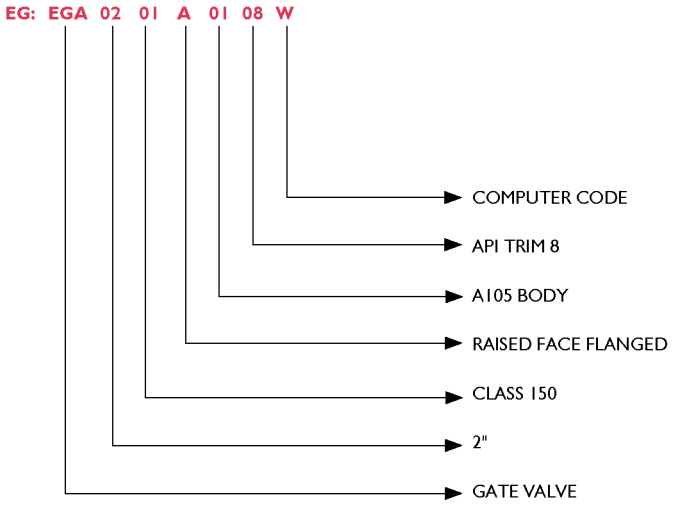
1	**TYPE**	EGA = GATE OS&Y EGL = GLOBE OS&Y EYG = Y PATTERN GLOBE	ESC = SWING CHECK ELC = LIFT CHECK EPC = PISTON CHECK EYC = Y PATTERN PISTON CHECK
2	**SIZE**	00 = 1/4" 05 = 1/2" 07 = 3/4"	01 = 1" 15 = 1 1/2" 02 = 2"
3	**CLASS / WOG**	01 = 150 03 = 300 06 = 600 08 = 800 09 = 900 15 = 1500 25 = 2500	20 = 2000 30 = 3000 40 = 4000 60 = 6000
4	**ENDS**	A = RAISED FACE B = RTJ F = WELD END	N = NPT FEMALE S = SOCKET WELD E = SW X NPT
5	**BODY**	01 = A105 02 = A350 LF2 03 = 316SS 04 = DUPLEX 22CR 05 = SUPER DUPLEX 25CR OTHER MATERIALS UPON REQUEST	

6 TRIM

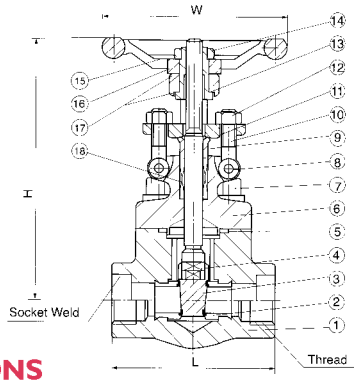
ENFLOW TRIM NUMBER	WEDGE FACE	SEAT FACE	STEM	API#
01 = F6	F6 (410)	F6 (410)	F6 (410)	1
02 = 304SS	304	304	304	2
05 = STL/F6	STELITE	STELITE	F6 (410)	5
08 = F6/STL	F6 (410)	STELITE	F6 (410)	8
10 = 316SS	316	316	316	10
12 =316/STL	316	STL	316	12

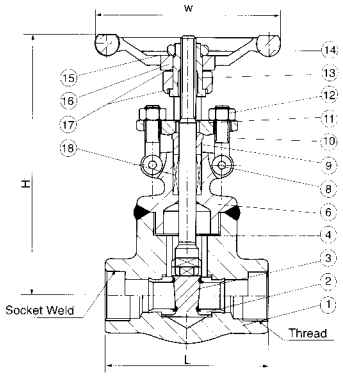
NOTE: 1. F6 = 410SS, STL = STELITE, NICU = MONEL
2. BASE MATERIAL IS EITHER SAME AS BODY OR SOLID TRIM, AT MANUFACTURER'S
3. OTHER TRIMS, INCLUDING SOFT SEATING, ARE ALSO AVAILABLE

7	**ONLY USED IF REQUIRED** SPECIAL FEATURES****	F = FULL PORT N = NACE PS = PRESSURE SEAL WB = WELDED BONNET BP = BY PASS BS = BARE STEM	CR = CRYO SERVICE ND = NDE - SPECIFY HB = HORIZONTAL BALL HP = HORIZONTAL PISTON VB = VERTICAL BALL VP = VERTICAL PISTON



2000 TO 4000 WOG GATE VALVE





STANDARD MATERIAL SPECIFICATIONS

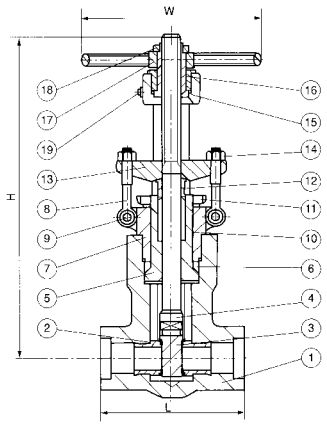
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	SEAT RING	API Trim Specified			
3	WEDGE	API Trim Specified			
4	STEM	API Trim Specified			
5	GASKET	Corrugated SS+graphite		SS+PTFE	
6	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
7	BONNET BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
8	PIN	A276 42		A276 F304	
9	GLAND	A276 410		A182 F304(L)	A182 F316(L)
10	GLAND EYEBOLT	A193 B7 / B7M	A320 L7M	A193 B8	A193 B8M
11	GLAND FLANGE	A105	A350 LF2	A182 F304(L)	A182 F316(L)
12	GLAND NUT	A194 2H / 2HM	A194 7 / 7M	A194 8	A194 8M
13	STEM NUT	A276 420/Cu-Alloy			
14	H.W. LOCK NUT	A 194 2H	A194 2H	A 194 8	A194 8M
15	NAMEPLATE	SS			
16	HANDWHEEL	A197			
17	BEARING GASKET	A473 431			
18	STEM PACKING	Flexible Graphite		PTFE	
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS		RB / WOG	3/8	1/2	3/4	1	1 1/4	1 1/2		
		FB / WOG		3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		2000	79	79	92	111	120	120	140	178
		3000	79	92	111	120	120	140	178	210
		4000	111	111	111	114	120	140	162	210
H(OPEN)		2000	158	158	169	197	236	246	283	330
		3000 / 4000	169	197	197	236	246	283	330	354
W		2000	100	100	100	125	160	160	180	200
		3000 / 4000	100	125	125	160	160	180	200	240
WEIGHTS	BOLTED	2000	2.1	2.0	2.3	4.3	5.9	6.9	11.1	15.2
		3000 / 4000	2.5	4.3	4.2	6.6	8.8	12.5	17.2	23.5
	WELDED	2000	1.8	1.7	2.0	3.8	5.1	6.1	10.2	14.2
		3000 / 4000	2.4	4.2	4.0	6.3	8.7	12.1	17.2	22

2000 TO 6000 WOG
PRESSURE-SEAL GATE VALVE



STANDARD MATERIAL SPECIFICATIONS

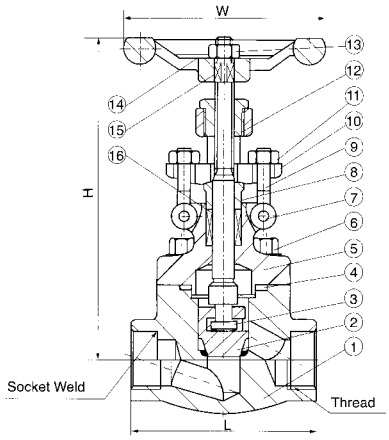
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	SEAT	API Trim Specified			
3	WEDGE	API Trim Specified			
4	STEM	API Trim Specified			
5	PRESSURE SEALING SEAT	A105	A182 F304	A182 F304(L)	F316(L)
6	PRESSURE SEALING RING	A276 304		A276 316L	
7	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
8	GLAND EYEBOLT	A193 B7 / B7M	A320 L7M		
9	PIN	A276 420		A182 F304(L)	
10	STEM PACKING	Flexible Graphite		PTFE	
11	P.S. LOCK NUT	A194 2H	A320 L7	A194 8	A194 8M
12	GLAND	A276 F420		A182 F304	
13	GLAND FLANGE	A105	A350 LF2	A351 CF8	
14	NUT	A 194 2H / 2HM	A194 7 / 7M	A 194 8	A194 8M
15	STEM NUT	A276 T420 or Cu - Alloy			
16	RETAINING NUT	A 194 2H	A194 2H	A194 8	A194 8M
17	HANDWHEEL	A197			
18	H.W. LOCK NUT	A 194 2H	A194 2H	A194 8	A194 8M
19	OIL CUP	Carbon or Brass			
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

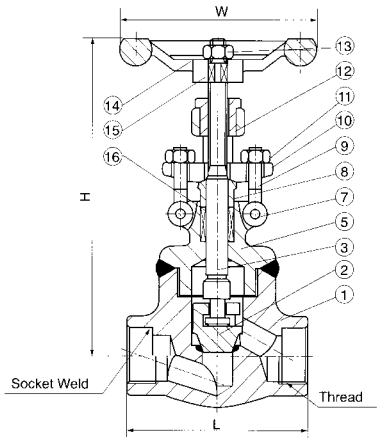
Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS		1/2	3/4	1	1/4	1 1/2	2
L	2000 / 3000	140	140	140	178	178	216
	4000	186	186	186	232	232	279
H(OPEN)		321	321	321	380	414	502
W		160	160	180	200	250	280
WEIGHTS	2000 / 3000	11.5	10.8	10.5	19.6	21.0	55.4
	4000	12.3	11.6	10.8	26.0	28.4	60.0

2000 TO 4000 WOG GLOBE VALVE





STANDARD MATERIAL SPECIFICATIONS

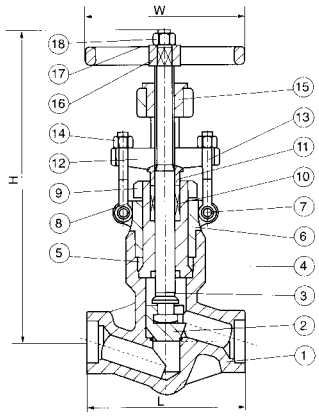
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	DISC	API Trim Specified			
3	STEM	API Trim Specified			
4	GASKET	Corrugated SS + Graphite		SS + PTFE	
5	BONNET	A105	A350 LF2	A276 304(L)	A182 F316(L)
6	BONNET BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
7	PIN	A276 420		A276 F304	
8	GLAND	A276 410		A182 F304(L)	A182 F316(L)
9	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
10	GLAND FLANGE	A105	A350 LF2	A351 CF8	
11	GLAND NUT	A194 2H / 2HM	A194 7 / 7M	A194 8	A194 8M
12	STEM NUT	A276 420/Cu - Alloy			
13	H.W.LOCK NUT	A194 2H	A194 2H	A 194 8	A194 8M
14	NAMEPLATE	SS			
15	HANDWHEEL	A197			
16	STEM PACKING	Flexible Graphite		PTFE	
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS		RB / WOG	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
		FB / WOG		3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		2000	79	79	92	111	120	152	172	200
		3000 / 4000	111	111	111	130	152	172	220	235
H(OPEN)		2000	166	166	171	207	240	258	330	355
		3000 / 4000	171	207	207	240	258	330	355	370
W		2000	100	100	100	125	160	160	180	200
		3000 / 4000	100	125	125	160	160	180	200	240
WEIGHTS	BOLTED	2000	1.9	1.9	2.1	3.5	6.0	7.5	11.4	14.6
		3000 / 4000	2.2	3.7	3.6	6.8	7.6	11.6	15.0	21.9
	WELDED	2000	1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8
		3000 / 4000	2.0	3.4	3.3	6.0	5.6	10.3	14.2	18.0

2000 TO 6000 WOG
PRESSURE-SEAL GLOBE VALVE



STANDARD MATERIAL SPECIFICATIONS

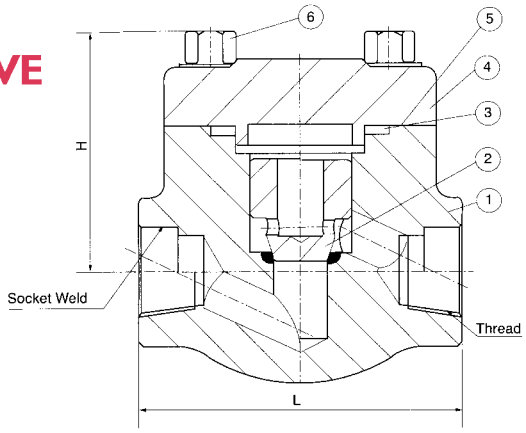
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	DISC	API Trim Specified			
3	STEM	API Trim Specified			
4	PRESSURE SEALING SEAT	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	PRESSURE SEALING RING	A182 F304L		A182 F316(L)	
6	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
7	PIN	A276 420		A182 F304	
8	P.S. WASHER	A105	A350 LF2	A182 F304(L)	A182 F316(L)
9	P.S. LOCK NUT	A194 2H	A320 L7	A194 8	A194 B8M
10	STEM PACKING	Corrugated SS + Graphite		SS + PTFE	
11	GLAND	A276 420		A182 F304	
12	GLAND FLANGE	A216 WCB	A352 LCC	A351 CF8	
13	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
14	GLAND NUT	A 194 2H / 2HM	A194 7 / 7M	A 194 8	A194 8M
15	STEM NUT	A276 T410/Cu - Alloy			
16	HANDWHEEL	A197			
17	NAMEPLATE	SS			
18	H.W. LOCK NUT	A194 2H	A194 4	A194 8	A194 8M
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

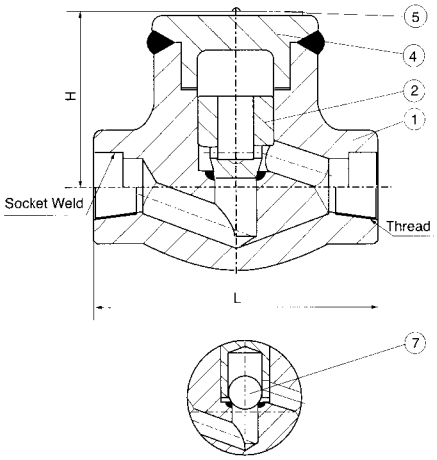
Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS		1/2	3/4	1	1/4	1 1/2	2
L	2000 - 4000	140	140	140	178	178	216
	6000	186	186	186	232	232	279
H(OPEN)		333	333	333	408	408	524
W		160	160	180	200	250	280
WEIGHTS	2000 - 4000	11.2	10.5	10.1	21.0	19.6	40.4
	6000	12.3	11.6	10.8	28.0	26.4	43.8

2000 TO 3000 WOG PISTON CHECK VALVE





STANDARD MATERIAL SPECIFICATIONS

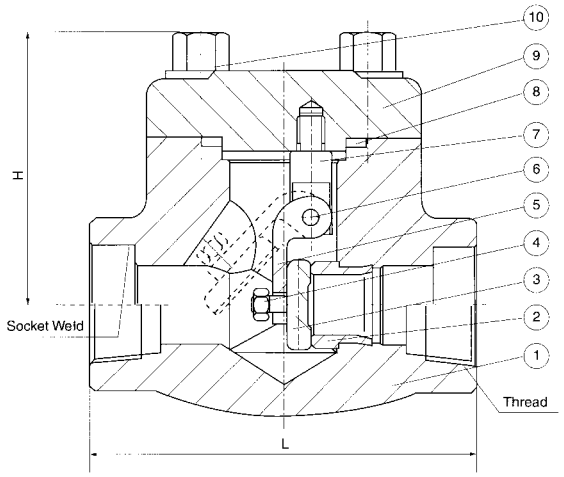
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	PISTON DISC	API Trim Specified			
3	GASKET	Corrugated SS + Graphite		SS + PTFE	
4	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
5	NAMEPLATE	SS			
6	BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8M	A193 B8M
7	BALL	A182 F304	A182 F304	A182 F304	A182 F304
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS		RB / WOG	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
		FB / WOG		3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		2000	79	79	92	111	120	152	172	200
		3000	111	111	111	130	152	172	220	220
H		2000	61	61	65	79	95	103	118	132
		3000	65	79	79	97	104	120	139	215
WEIGHTS	BOLTED	2000	1.4	1.2	1.5	3.1	3.9	5.6	8.9	12.5
		3000	1.6	3.4	3.3	5.5	6.0	9.2	12.9	16.2
	WELDED	2000	1.1	1.0	1.2	2.9	3.3	4.9	8.1	10.9
		3000	1.3	3.2	3.1	4.8	5.4	8.5	11.2	14.3

2000 TO 3000 WOG
SWING CHECK VALVE



STANDARD MATERIAL SPECIFICATIONS

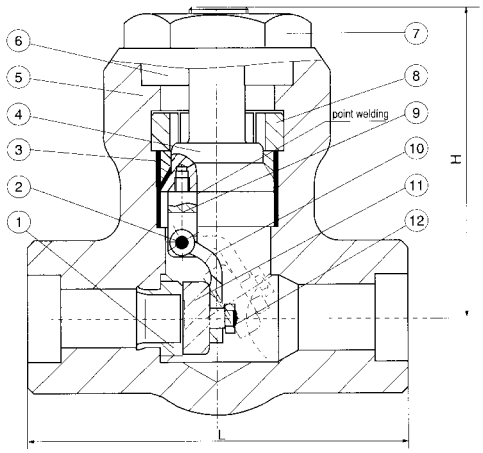
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	SEAT	API Trim Specified			
3	SWING DISC	A276 420	A276 304	A276 F304(L)	A276 F316(L)
4	NUT	A194 2H	A194 4	A194 8	A194 8M
5	HINGE	A105	A105	A182 F304(L)	A182 F316(L)
6	PIN	API Trim Specified			
7	YOKE	A105	A105	A182 F304(L)	A182 F3316(L)
8	GASKET	Corrugated SS + Graphite		SS + PTFE	
9	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
10	BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS / WOG		3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	2000	79	79	92	111	120	120	140
	3000	92	111	111	120	140	140	162
H	2000	61	61	78	84	101	120	133
	3000	79	79	79	97	105	120	140
WEIGHTS	2000	1.1	1.0	1.9	3.9	4.5	7.3	10.0
	3000	3.1	3.0	3.6	4.3	6.1	8.8	12.6

3000 TO 6000 WOG
PRESSURE-SEAL SWING CHECK VALVE



STANDARD MATERIAL SPECIFICATIONS

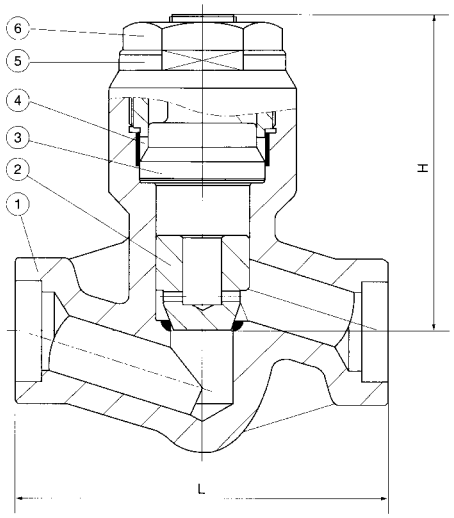
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	SEAT RING	API Trim Specified			
2	PIN	API Trim Specified			
3	PRESSURE SEALING RING	A276 304L			A276 F316(L)
4	PRESSURE SEALING SEAT	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
6	BONNET	A105	A350 LF2	A182 F304L	A182 F316(L)
7	CAP	A194 2H / 2HM	A194 L7 / L7M	A194 8	A194 8M
8	QUARTER RING	A276 420	A182 F304		A182 F316
9	YOKE	A105	A105	A182 F304(L)	A182 F316(L)
10	HINGE	A105	A105	A182 F304(L)	A182 F316(L)
11	DISC	API Trim Specified			
12	NUT	A194 2H	A194 2H	A194 8	A194 8M
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS / WOG		1/2	3/4	1	1 1/4	1 1/2	2
L	3000 - 4000	140	140	140	178	178	216
	6000	186	186	186	232	232	279
H		117	117	117	152	152	195
WEIGHTS	3000 - 4000	8.2	7.8	7.7	19.8	19.2	21.3
	6000	10.0	9.6	9.4	21.5	21.1	22.8

3000 TO 6000 WOG PRESSURE-SEAL PISTON CHECK VALVE



STANDARD MATERIAL SPECIFICATIONS

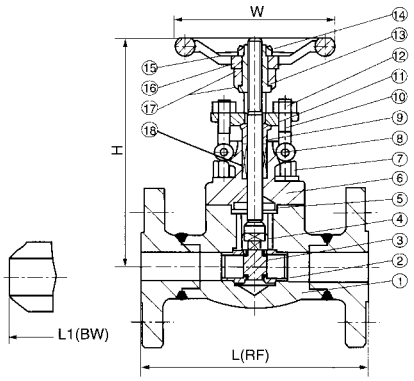
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	LIFT DISC	API Trim Specified			
3	PRESSURE SEAT	A105	A105	A182 F304(L)	F316(L)
4	PRESSURE RING	A276 304L			A276 316L
5	RETAINING NUT	A194 2H	A194 7M	A194 8	A194 8M
6	P.S. LOCK NUT	A194 2H	A194 7M	A194 8	A194 8M
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

NPS / WOG		1/2	3/4	1	1 1/4	1 1/2	2
L	3000 - 4000	140	140	140	178	178	216
	6000	186	186	186	232	232	279
H		117	117	117	152	152	195
WEIGHTS	3000 - 4000	7.5	7.0	6.8	18.5	18.1	20.3
	6000	9.0	7.6	8.4	19.5	20.1	21.8

ANSI 150 TO 600
FLANGED END GATE VALVE



STANDARD MATERIAL SPECIFICATIONS

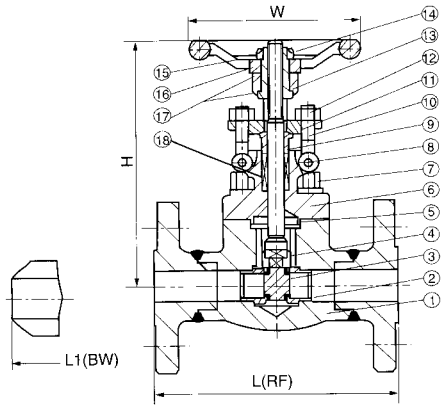
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	SEAT RING	API Trim Specified			
3	WEDGE	API Trim Specified			
4	STEM	API Trim Specified			
5	GASKET	Corrugated SS + Graphite		SS + PTFE	
6	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
7	BONNET BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
8	PIN	A276 410		A276 304	
9	GLAND	A276 410		A182 F304(L)	A182 F316(L)
10	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
11	GLAND FLANGE	A105	A350 LF2	A182 F304(L)	A182 F316(L)
12	GLAND NUT	A194 2H / 2HM	A 194 7 / 7M	A194 8	A194 8M
13	STEM NUT	A276 410/Cu-Alloy			
14	H.W. LOCK NUT	A 194 2H	A194 2H	A 194 8	A194 8M
15	NAMEPLATE	SS			
16	HANDWHEEL	A197			
17	BEARING GASKET	A473 431			
18	STEM PACKING	Flexible Graphite		PTFE	
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS			1/2	3/4	1	1/4	1 1/2	2
L (RF) L1(BW)	150		108	117	127	140	165	178
	300		140	152	165	178	190	216
	600		165	190	216	229	241	292
H(OPEN)	150, 300		158	169	197	236	246	283
	600		169	197	236	246	283	320
W			100	100	125	160	160	180
WEIGHTS	150	RF	4.5	5.2	8.2	11.5	12.5	20.3
		BW	2.8	3.3	5.4	7.1	8.2	12.5
	300	RF	4.8	6.2	9.3	14	15.5	23.4
		BW	3.5	4.4	6.8	8.1	9.2	15.4
	600	RF	5.9	7.4	10.4	16.2	17.5	28.3
		BW	4.5	5.1	8.2	10.5	12.4	20.1

ANSI 900 TO 1500
FLANGED END GATE VALVE



STANDARD MATERIAL SPECIFICATIONS

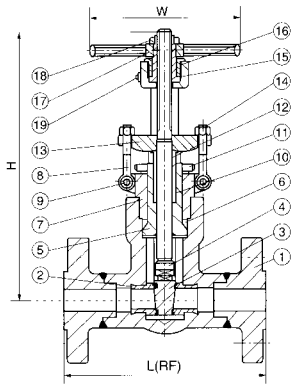
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	SEAT RING	API Trim Specified			
3	WEDGE	API Trim Specified			
4	STEM	API Trim Specified			
5	GASKET	Corrugated SS + Graphite		SS + PTFE	
6	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
7	BONNET BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
8	PIN	A276 410		A276 304	
9	GLAND	A276 410		A182 F304(L)	A182 F316(L)
10	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
11	GLAND FLANGE	A105	A350 LF2	A182 F304(L)	A182 F316(L)
12	GLAND NUT	A194 2H / 2HM	A194 7 / 7M	A194 8	A194 8M
13	STEM NUT	A276 410/Cu-Alloy			
14	H.W. LOCK NUT	A 194 2H	A194 2H	A 194 8	A194 8M
15	NAMEPLATE	SS			
16	HANDWHEEL	A197			
17	BEARING GASKET	A473 431			
18	STEM PACKING	Flexible Graphite		PTFE	
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS		1/2	3/4	1	1 1/4	1 1/2	2
L (RF)	900, 1500	216	229	254	279	305	368
L1(BW)	900, 1500	216	229	254	279	305	368
H(OPEN)	197	197	236	246	283	330	
W	125	125	160	160	180	200	
WEIGHTS	RF	7.2	11.5	15.6	16.2	22.6	32.8
	BW	5.2	9.3	12.4	13.8	18.9	27.5

ANSI 900 TO 2500
FLANGED END PRESSURE-SEAL GATE VALVE



STANDARD MATERIAL SPECIFICATIONS

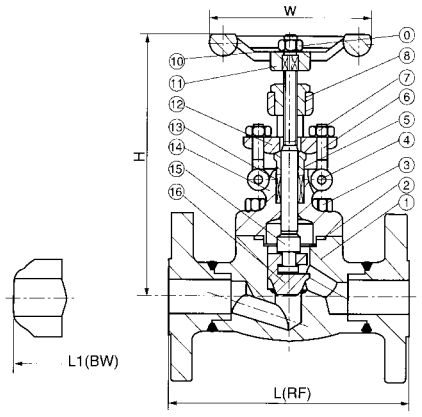
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	SEAT RING	API Trim Specified			
3	WEDGE	API Trim Specified			
4	STEM	API Trim Specified			
5	PRESSURE SEALING SEAT	A105	A350 LF2	A182 F304(L)	F316(L)
6	PRESSURE SEALING RING	A105	A182 F304 (L)	A182 F304(L)	A276 316L
7	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
8	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
9	PIN	A276 420		A182 F304	
10	STEM PACKING	Flexible Graphite		PTFE	
11	P.S. LOCK NUT	A194 2H	A194 2H	A194 8	A194 8M
12	GLAND	A276 F420		A182 F304	
13	GLAND FLANGE	A216 WCB	A352 LCC	A351 CF8	
14	NUT	A 194 2H / 2HM	A194 7 / 7M	A 194 8	A194 8M
15	STEM NUT	A276 410 / Cu - Alloy			
16	RETAINING NUT	A 194 2H	A194 2H	A194 8	A194 8M
17	HANDWHEEL	A197			
18	H.W. LOCK NUT	A 194 2H	A194 2H	A194 8	A194 8M
19	OIL CUP	Brass			
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS		1/2	3/4	1	1/4	1 1/2	2
L (RF)	900 - 1500	216	229	254	279	305	368
	2500	264	273	308	349	384	451
H(OPEN)	900 - 1500	216	250	270	320	350	445
	2500	321	321	321	373	406	495
W		160	160	180	200	250	280
WEIGHTS	900 - 1500	19.6	21.5	25.7	37.8	48.5	99.8
	2500	21.5	24.7	30.4	48.1	58.1	130.0

ANSI 150 TO 600
FLANGED END GLOBE VALVE



STANDARD MATERIAL SPECIFICATIONS

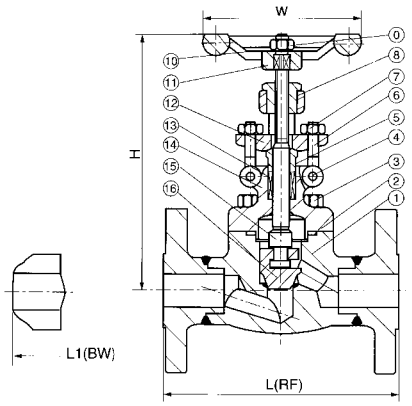
NO.	PART NAME	STANDARD NACEE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	GASKET	Corrugated SS + Graphite		SS + PTFE	
3	BONNET BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
4	PIN	A276 420		A276 304	
5	GLAND	A276 410		A182 F304(L)	A182 F316(L)
6	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
7	GLAND NUT	A194 2H / 2M	A194 7 / 7M	A194 8	A194 8M
8	STEM NUT	A276 410/Cu - Alloy			
9	H.W. LOCK NUT	A194 2H	A194 2H	A194 8	A194 8M
10	NAMEPLATE	SS			
11	HANDWHEEL	A197			
12	GLAND FLANGE	A216 WCB	A352 LCC	A351 CF8	
13	STEM PACKING	Flexible Graphite		PTFE	
14	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
15	STEM	API Trim Specified			
16	DISC	API Trim Specified			
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS			1/2	3/4	1	1/4	1 1/2	2
L (RF) L1(BW)	150		108	117	127	140	165	203
	300		152	178	203	216	229	267
	600		165	190	216	229	241	292
H(OPEN)	150, 300		166	171	207	240	258	330
	600		171	207	240	258	330	380
W			100	100	125	160	160	180
WEIGHTS	150	RF	4.5	6.9	9.8	13.5	19.5	28.0
		BW	2.3	3.6	7.8	8.2	12.0	15.0
	300	RF	4.8	7.7	11.0	16.8	21.2	32.6
		BW	2.8	4.0	8.5	9.2	12.6	16.8
	600	RF	5.6	7.8	12.5	17.0	23.5	38.8
		BW	3.4	4.7	9.2	10.5	13.3	18.9

ANSI 900 TO 1500
FLANGED END GLOBE VALVE



STANDARD MATERIAL SPECIFICATIONS

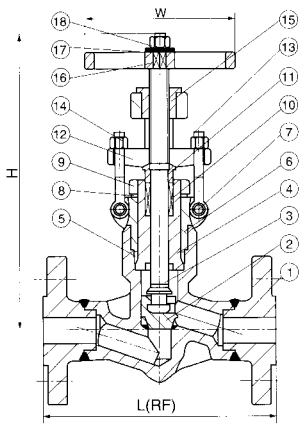
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	GASKET	Corrugated SS + Graphite		SS + PTFE	
3	BONNET BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
4	PIN	A276 420		A276 304	
5	GLAND	A276 420		A182 F304(L)	A182 F316(L)
6	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
7	GLAND NUT	A194 2H / 2HM	A194 7 / 7M	A194 8	A194 8M
8	STEM NUT	A276 410/Cu - Alloy			
9	H.W. LOCK NUT	A194 2H / 2HM	A194 7 / 7M	A194 8	A194 8M
10	NAMEPLATE	SS			
11	HANDWHEEL	A197			
12	GLAND FLANGE	A216 WCB	A320 LCC	A351 CF8	
13	STEM PACKING	Flexible Graphite		PTFE	
14	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
15	STEM	API Trim Specified			
16	DISC	API Trim Specified			
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS		1/2	3/4	1	1/4	1 1/2	2
L (RF)	900, 1500	216	229	254	279	305	368
L1(BW)	900, 1500	216	229	254	279	305	368
H(OPEN)		207	207	240	258	330	355
W		125	125	160	160	180	200
WEIGHTS	RTJ	8.0	13.2	17.4	19.0	24.5	31.0
	BW	5.2	10.0	14.6	15.8	20.5	27.8

ANSI 900 TO 2500 FLANGED END PRESSURE-SEAL GLOBE VALVE



STANDARD MATERIAL SPECIFICATIONS

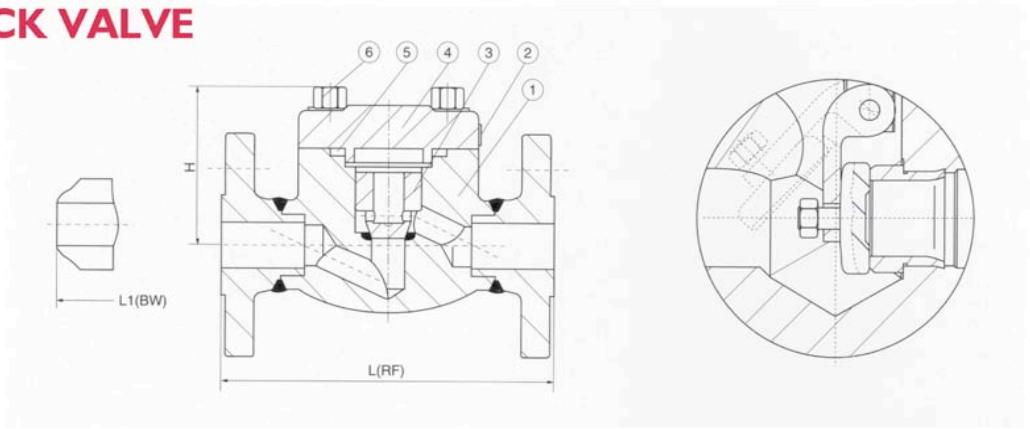
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	DISC	API Trim Specified			
3	STEM	API Trim Specified			
4	PRESSURE SEAT	A105	A350 LF2	A182 F304(L)	A182 F316(L)
5	PRESSURE RING	A182 F304(L)			F316L
6	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
7	PIN	A276 420		A276 304	
8	P.S. WASHER	A105	A105	A182 F304(L)	A182 F316(L)
9	P.S. LOCK NUT	A194 2H / 2HM	A194 7 / 7M	A194 8	A194 8M
10	STEM PACKING	Flexible Graphite		SS+PTFE	
11	GLAND	A276 420		A182 F304	
12	GLAND FLANGE	A216 WCB	A320 LCC	A351 CF8	
13	GLAND EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8M
14	GLAND NUT	A 194 2H / 2HM	A194 7 / 7M	A 194 8	A194 8M
15	STEM NUT	A276 T410/Cu - Alloy			
16	HANDWHEEL	197			
17	NAMEPLATE	SS			
18	H.W. NUT	A194 2H	A194 2H	A194 8	A194 8M
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS		1/2	3/4	1	1/4	1 1/2	2
L (RF)	900,1500	216	229	254	279	305	368
	2500	264	273	308	349	384	451
H(OPEN)	900,1500	318	318	318	398	408	524
	2500	333	333	333	410	420	524
W		160	160	180	200	250	280
WEIGHTS	900,1500	15.5	16.9	18.9	28.9	34.3	52.8
	2500	18.0	20.5	23.0	36.1	45.0	81.5

ANSI 150 TO 600
FLANGED END CHECK VALVE



STANDARD MATERIAL SPECIFICATIONS

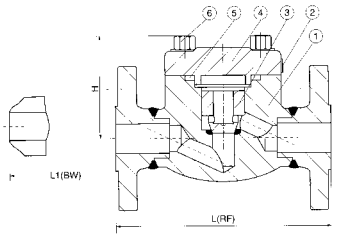
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	NAMEPLATE	SS			
3	PISTON DISC	API Trim Specified			
4	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
5	GASKET	Corrugated SS+graphite		SS+PTFE	
6	BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8(M)
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

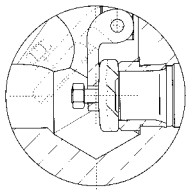
Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS			1/2	3/4	1	1/4	1 1/2	2
L (RF) L1 (BW)	150		108	117	127	140	165	203
	300		152	178	203	216	229	267
	600		165	190	216	229	241	292
H	150, 300		61	61	79	95	103	118
	600		61	79	95	103	118	135
WEIGHTS	150	RF	2.56	3.37	4.37	8.17	8.94	12.64
		BW	1.70	1.90	2.10	5.12	5.50	7.89
	300	RF	2.73	3.65	4.74	8.77	9.60	13.70
		BW	1.90	2.10	3.00	5.12	6.60	7.85
	600	RF	3.00	4.00	5.83	9.47	10.10	15.6
		BW	2.00	3.12	4.2	7.25	8.56	13.60

ANSI 900 TO 1500
FLANGED END CHECK VALVE





STANDARD MATERIAL SPECIFICATIONS

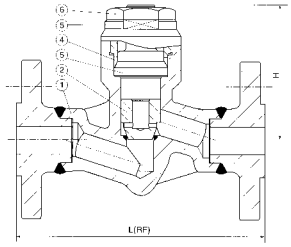
NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	NAMEPLATE	SS			
3	PISTON DISC	API Trim Specified			
4	BONNET	A105	A350 LF2	A182 F304(L)	A182 F316(L)
5	GASKET	Corrugated SS+graphite		SS+PTFE	
6	BOLT	A193 B7 / B7M	A320 L7 / L7M	A193 B8	A193 B8(M
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS		1/2	3/4	1	1/4	1 1/2	2
L (RF)		216	229	254	279	305	368
L1 (BW)		216	229	254	279	305	368
H		79	79	95	104	120	139
WEIGHTS	RTJ	8.5	10.5	15.7	20.8	27.2	33.0
	BW	6.4	8.0	13.2	17.8	24.2	29.7

ANSI 900 TO 1500
PRESSURE-SEAL
PISTON CHECK VALVE



STANDARD MATERIAL SPECIFICATIONS

NO.	PART NAME	STANDARD NACE	LOW TEMPERATURE	CORROSIVE	CORROSIVE
1	BODY	A105	A350 LF2	A182 F304(L)	A182 F316(L)
2	LIFT DISC	API Trim Specified			
3	PRESSURE SEALING SEAT	A105	A276 304(L)	A276 304(L)	A276 316(L)
4	PRESSURE SEALING RING	A276 304(L)			
5	RETAINING NUT	A194 2H / 2HM	A194 7M	A194 8	A194 8M
6	P.S. LOCK NUT	A194 2H / 2HM	A194 7M	A194 8	A194 8M
SUITABLE TEMPERATURE		-29°C~425°C	-46°C~425°C	-29°C~180°C	

Note: Other materials are available upon request

DIMENSIONS (mm) AND WEIGHTS (kg)

CLASS		1/2	3/4	1	1/4	1 1/2	2
L	900 - 1500	216	224	254	279	305	368
	2500	264	273	308	349	384	451
H		117	117	117	152	152	195
WEIGHTS	900 - 1500	10.5	11.9	13.9	19.9	26.9	32.5
	2500	12.6	14.9	16.5	24.8	30.9	35.0

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