

GATE VALVE ANSI CLASS 150 FLANGED END RF, CAST STEEL WCB



TECHNICAL SPECIFICATION

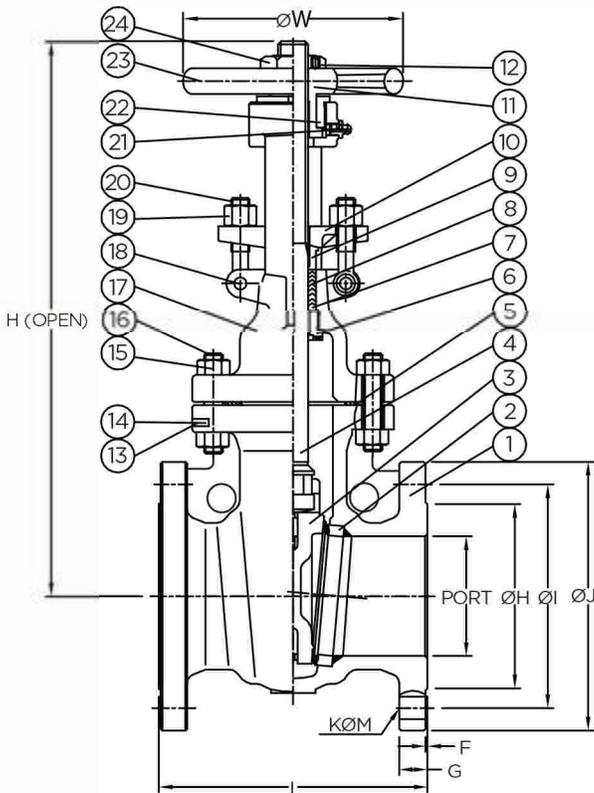
SHELL WAL THICKNESS: ASME B16.34
 VALVE DESIGN: API 600
 FLANGE DIMENSIONS: ANSI B16.15
 FACETO FACE: ANSI B16.10
 OUTSIDE SCREW & JOKE (OS&Y)
 UNIVERSAL TRIM 8
 FLEXIBLE WEDG E

TEST SPECIFICATION

TEST ACCORDANCE TO PER API 598
 NOMINAL PRESSURE: 285 PSI
 SHELL TEST: 450 PSIG
 BACK SEAT & SEAT TEST (WATER): 314 PSIG
 AIR TEST: 87 PSIG

BODYMARK

DLINE
 2
 150
 WCB



MATERIAL LIST

1	BODY	ASTM A-216 Gr. WCB
2	SEAT RING	ASTM A-105+STL#6
3	WEDGE	ASTM A-216 Gr. WCB+13Cr
4	STEM	ASTM A-182 Gr. F6a
5	GASKET	304+GRAPHITE
6	BACK SEAT	ASTM A-276 Gr. 410
7	PACKING	GRAPHITE
8	PACKING	SS WIRE + GRAPHITE
9	GLAND	ASTM A-276 Gr. 410
10	GLAND FLANGE	ASTM A-216 Gr. WCB
11	STEM NUT	ASTM A-216 Gr. D-2
12	SCREW	ASTM A-29 Gr.1035
13	NAMEPLATE	SS304
14	RIVET	SS304
15	NUT	ASTM A-194 Gr. 2H
16	BOLT	ASTM A-193 Gr. B7
17	BONNET	ASTM A-216 Gr. WCB
18	PIN	ASTM A-536 Gr. 1035
19	EYE NUT	ASTM A-194 Gr. 2H
20	EYE BOLT	ASTM A-193 Gr. B7
21	OIL FILLER	CARBON STEEL
22	SLEEVE	ASTM A-29 Gr.1020
23	HANDWHEEL	ASTM A-536 Gr. 65-45-12
24	LOCK NUT	ASTM A-29 Gr.1035

DIMENSIONS, WEIGHTS & TORQUE

MODEL	SIZE	PORT	L	H	ØW	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT (KG)	TORQUE (LBS-INCH)
1118F-09	2"	DN50	2.00	7.00	15.20	7.88	5.91	4.75	3.63	0.56	0.06	4.00	14.00	252.80
1118F-10	2½"	DN65	2.50	7.48	17.13	7.88	7.09	5.50	4.13	0.63	0.06	4.00	19.00	284.20
1118F-11	3"	DN80	3.00	8.00	19.02	9.84	7.48	6.00	5.00	0.69	0.06	4.00	26.00	425.60
1118F-12	4"	DN100	4.00	9.02	23.35	9.84	9.05	7.50	6.19	0.88	0.06	8.00	40.00	494.80
1118F-13	5"	DN125	5.00	10.00	26.77	11.81	10.04	8.50	7.31	0.88	0.06	8.00	48.00	662.50
1118F-14	6"	DN150	6.00	10.51	30.31	11.81	11.03	9.50	8.50	0.94	0.06	8.00	60.00	857.60
1118F-15	8"	DN200	8.00	11.50	37.60	13.78	13.58	11.75	10.63	1.06	0.06	8.00	93.00	1151.20
1118F-16	10"	DN250	10.00	13.00	45.39	15.75	15.95	14.25	12.75	1.13	0.06	12.00	150.00	1592.80
1118F-17	12"	DN300	12.00	14.02	52.83	17.72	19.09	17.00	15.00	1.19	0.06	12.00	223.00	2833.10

GATE VALVE ANSI CLASS 150 FLANGED END RF, CAST STEEL WCB



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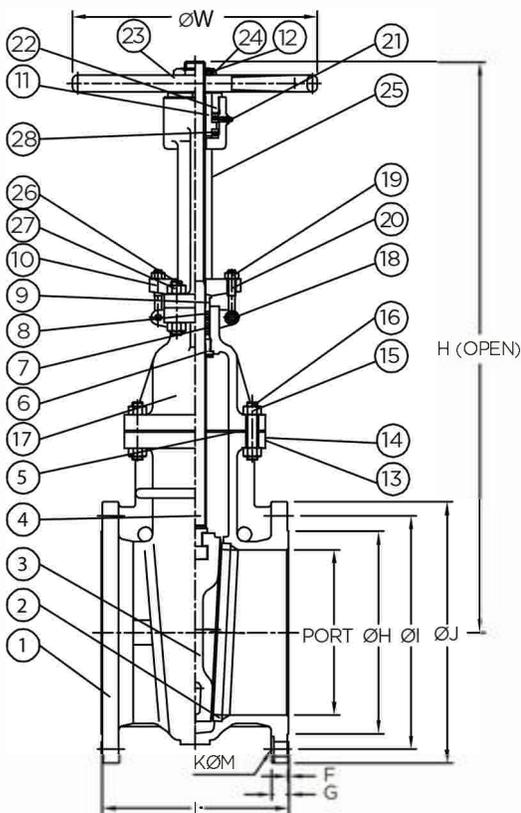
SHELL WAL THICKNESS: ASME B16.34
 VALVE DESIGN: API 600
 FLANGE DIMENSIONS: ANSI B16.15
 FACETO FACE: ANSI B16.10
 OUTSIDE SCREW & JOKE (OS&Y)
 UNIVERSAL TRIM 8
 FLEXIBLE WEDGE

TEST SPECIFICATION

TEST ACCORDANCE TO PER API 598
 NOMINAL PRESSURE: 285 PSI
 SHELL TEST: 450 PSIG
 BACK SEAT & SEAT TEST (WATER): 314 PSIG
 AIR TEST: 87 PSIG

BODYMARK

2
 150
 WCB



MATERIAL LIST

1	BODY	ASTM A-216 Gr. WCB
2	SEAT RING	ASTM A-105+STL#6
3	WEDGE	ASTM A-216 Gr. WCB+13Cr
4	STEM	ASTM A-182 Gr. F6a
5	GASKET	304+GRAPHITE
6	BACK SEAT	ASTM A-276 Gr. 410
7	PACKING	GRAPHITE
8	PACKING	SS WIRE + GRAPHITE
9	GLAND	ASTM A-276 Gr. 410
10	GLAND FLANGE	ASTM A-216 Gr. WCB
11	STEM NUT	ASTM A-216 Gr. D-2
12	SCREW	ASTM A-29 Gr.1035
13	NAMEPLATE	SS304
14	RIVET	SS304
15	NUT	ASTM A-194 Gr. 2H
16	BOLT	ASTM A-193 Gr. B7
17	BONNET	ASTM A-216 Gr. WCB
18	PIN	ASTM A-536 Gr. 1035
19	EYE NUT	ASTM A-194 Gr. 2H
20	EYE BOLT	ASTM A-193 Gr. B7
21	OIL FILLER	CARBON STEEL
22	SLEEVE	ASTM A-29 Gr.1020
23	HANDWHEEL	ASTM A-536 Gr. 65-45-12
24	LOCK NUT	ASTM A-29 Gr.1035
25	YOKE	ASTM A-216 Gr. WCB
26	BOLT	ASTM A-193 Gr. B7M
27	NUT	ASTM A-194 Gr. 2H
28	SCREW	ASTM A-29 Gr. 1035

DIMENSIONS, WEIGHTS & TORQUE

MODEL	SIZE	PORT	L	H	ØW	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT (KG)	TORQUE (LBS-INCH)	
1118F-18	14"	DN350	14.00	15.00	60.00	19.69	21.06	18.75	16.25	1.31	0.06	12.00	1.14	337.00	4115.10
1118F-19	16"	DN400	16.00	16.00	76.76	22.05	23.43	21.25	18.50	1.38	0.06	16.00	1.14	410.00	4604.10

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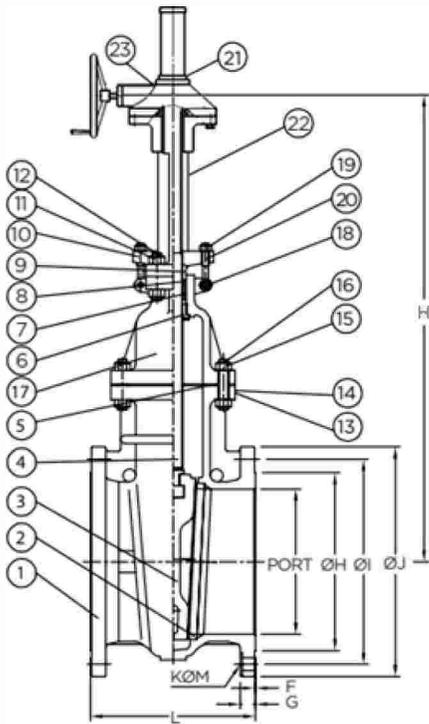
SHELL WALL THICKNESS: ASME B16.34
 VALVE DESIGN: API 600
 FLANGE DIMENSIONS: ANSI B16.15
 FACETO FACE: ANSI B16.10
 OUTSIDE SCREW & YOKE IOS&YI
 UNIVERSAL TRIM 8
 FLEXIBLE WEDGE

TEST SPECIFICATION

TEST ACCORDANCE TO PER API 598
 NOMINAL PRESSURE: 285 PSI
 SHELL TEST: 450 PSIG
 BACK SEAT & SEAT TEST (WATER): 314 PSIG
 OUTSIDE SCREW & YOKE IOS&YI
 AIR TEST: 87 PSIG

BODY MARK

LINE
 2
 150
 WCB



MATERIAL LIST

NO.	DESCRIPTION	MATERIAL
1	BODY	ASTM A-216 GR. WCB
2	SEAT RING	ASTM A-105 +STL#6
3	WEDGE	ASTM A-216 GR. WCB+ 13CR
4	STEM	ASTM A-182 GR. F6A
5	GASKET	304+GRAPHITE
6	BACK SEAT	ASTM A-276 GR. 410
7	PACKING	GRAPHITE
8	PACKING	SS WIRE + GRAPHITE
9	GLAND	ASTM A-276 GR. 410
10	GLAND FLANGE	ASTM A-216 GR. WCB
11	NUT	ASTM A-194 GR. 2H
12	BOLT	ASTM A-193 GR. B7M
13	NAMEPLATE	SS304
14	RIVET	SS304
15	NUT	ASTM A-194 GR. 2H
16	BOLT	ASTM A-193 GR. B7
17	BONNET	ASTM A-216 GR. WCB
18	PIN	ASTM A-536 GR. 1035
19	EYE NUT	ASTM A-194 GR. 2H
20	EYE BOLT	ASTM A-193 GR. B7
21	GREASE FITTING	ASTM A536 GR. 60-42-10
22	YOKE	ASTM A-216 GR. WCB
23	GEAR OPERATOR	ASTM A536 GR. 60-42-10

DIMENSIONS, WEIGHT & TORQUE

MODEL	SIZE	PORT	L	H	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT(KG)	TORQUE (LBS-INCH)	
1118F-20	18"	DN420	18.00	17.00	69.29	25.00	22.75	21.00	1.50	0.06	16	1.26	621.00	10797.90
1118F-21	20"	DN500	20.00	18.00	77.95	27.56	25.00	23.00	1.63	0.06	20	1.26	780.00	13541.60
1118F-23	24"	DN600	24.00	20.00	93.70	32.09	29.50	27.25	1.82	0.06	20	1.38	1140.00	20356.70

*WEIGHT IS ESTIMATED
 *ALL DIMENSIONS ARE EXPRESSED IN INCHES

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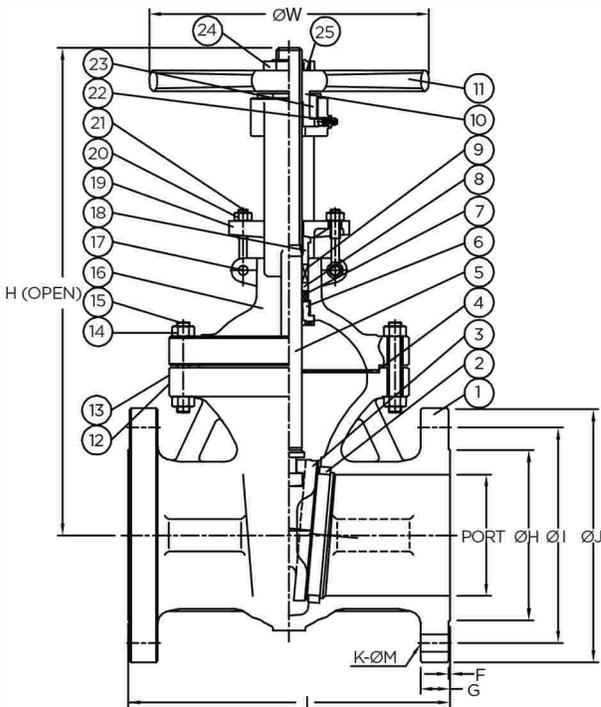
SHELL WALL THICKNESS: ASME B16.34
 VALVE DESIGN: API 600
 FLANGE DIMENSIONS: ANSI B16.5
 FACETO FACE: ANSI B16.10
 OUTSIDE SCREW & JOKE (OS&Y)
 UNIVERSAL TRIM 8
 FLEXIBLE WEDGE

TEST SPECIFICATION

TEST ACCORDANCE TO PER API 598
 NOMINAL PRESSURE: 740 PSI
 SHELL TEST (WATER): 1110 PSIG
 BACK SEAT & SEAT TEST (WATER): 814 PSIG
 AIR TEST: 87 PSIG

BODYMARK

DLINE
 2
 300
 WCB



MATERIAL LIST

1	BODY	ASTM A-216 Gr. WCB
2	SEAT RING	ASTM A-105+STL#6
3	WEDGE	ASTM A-216 Gr. WCB+13Cr
4	GASKET	304+GRAPHITE
5	STEM	ASTM A-182 Gr. F6a
6	BACK SEAT	ASTM A-276 Gr. 410
7	PACKING	GRAPHITE
8	SPACER	ASTM A-276 Gr. 410
9	PACKING	SS WIRE + GRAPHITE
10	STEM NUT	ASTM A-439 Gr. D-2
11	HANDWHEEL	ASTM A-536 Gr. 65-45-12
12	NAMEPLATE	SS304
13	RIVET	SS304
14	NUT	ASTM A-194 Gr. 2H
15	BOLT	ASTM A-193 Gr. B7
16	BONNET	ASTM A-216 Gr. WCB
17	PIN	ASTM A-29 Gr. 1035
18	GLAND	ASTM A-276 Gr. 410
19	GLAND FLANGE	ASTM A-216 Gr. WCB
20	EYE NUT	ASTM A-194 Gr. 2H
21	EYE BOLT	ASTM A-193 Gr. B7
22	OIL FILLER	CARBON STEEL
23	SLEEVE	ASTM/ANSI 1020
24	LOCK NUT	ASTM/ANSI 1020
25	SCREW	ASTM A-29 Gr. 1035

DIMENSIONS, WEIGHTS & TORQUE

MODEL	SIZE	PORT	L	H	ØW	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT (KG)	TORQUE (LBS-INCH)	
1318F-09	2"	DN50	2.00	8.50	16.54	7.88	6.50	5.00	3.62	0.82	0.06	8.00	0.75	25.00	265.50
1318F-10	2½"	DN65	2.50	9.50	17.72	7.88	7.50	5.88	4.12	0.94	0.06	8.00	0.88	36.30	305.80
1318F-11	3"	DN80	3.00	11.12	20.71	9.84	8.25	6.62	5.00	1.06	0.06	8.00	0.88	46.50	442.50
1318F-12	4"	DN100	4.00	12.00	24.41	9.84	10.00	7.88	6.19	1.19	0.06	8.00	0.88	69.50	531.20
1318F-13	5"	DN125	5.00	15.00	27.32	11.81	10.98	9.25	7.32	1.31	0.06	8.00	0.88	96.00	839.00
1318F-14	6"	DN150	6.00	15.88	32.44	13.78	13.00	10.62	8.50	1.38	0.06	12.00	0.88	132.00	1239.00
1318F-15	8"	DN200	8.00	16.50	39.45	15.75	15.00	13.00	10.62	1.56	0.06	12.00	1.00	215.00	1681.40
1318F-16	10"	DN250	10.00	18.00	47.32	17.72	17.50	15.25	12.75	1.81	0.06	16.00	1.13	310.00	2787.80
1318F-17	12"	DN300	12.00	19.75	55.31	19.69	20.50	17.75	15.00	1.94	0.06	16.00	1.25	460.00	3982.50

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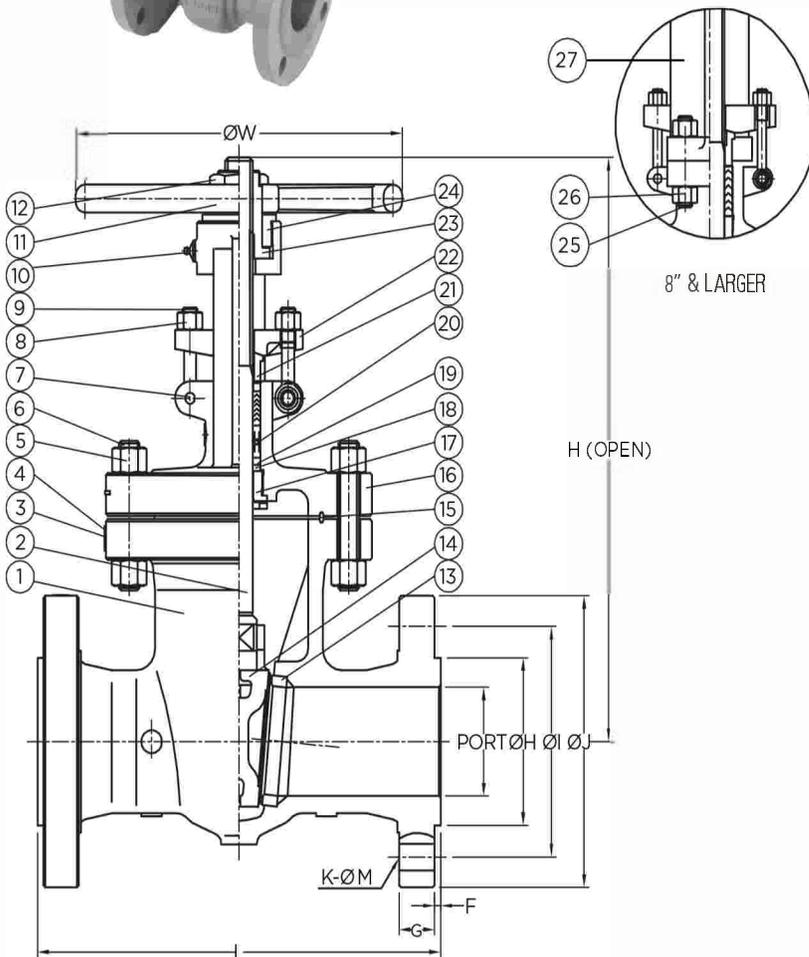
SHELL WALL THICKNESS: ASME B16.34
 VALVE DESIGN: API 600
 FLANGE DIMENSIONS: ANSI B16.10
 FACETO FACE: ANSI B16.10
 OUTSIDE SCREW & YOKE (OS&Y)
 UNIVERSAL TRIM 8
 FLEXIBLE WEDGE

TEST SPECIFICATION

TEST ACCORDANCE TO PER API 598
 NOMINAL PRESSURE: 1480 PSI
 SHELL TEST: 2220 PSIG
 BACK SEAT & SEAT TEST: 1628 PSIG
 AIR TEST: 87 PSIG

BODYMARK

DLINE
 2
 600
 WCB



MATERIAL LIST

NO.	DESCRIPTION	MATERIAL
1	BODY	ASTM A-216 Gr. WCB
2	STEM	ASTM A-182 Gr. F6
3	RIVET	SS304
4	NAME PLATE	SS304
5	NUT	ASTM A-194 Gr. 2H
6	BOLT	ASTM A-193 Gr. B7
7	PIN	ASTM A29 Gr. 1045
8	EYE NUT	ASTM A-194 Gr. 2H
9	EYE BOLT	ASTM A-193 Gr. B7
10	OIL FILLER	CARBON STEEL
11	HANDWHEEL	ASTM A-536 GR. 66-45-12
12	LOCK NUT	ASTM/ANSI 1020
13	SEAT RING	ASTM A-105+STL#6
14	WEDGE	ASTM A-216 Gr. WCB+13Cr
15	GASKET	RING JOINT-SOFT IRON
16	BONNET	ASTM A-216 Gr. WCB
17	BACK SEAT	ASTM A-276 Gr. 410
18	PACKING	STAINLESS STEEL WIRE + GRAPHITE
19	PACKING	STAINLESS STEEL WIRE + GRAPHITE
20	DISTANCE RING	ASTM A-276 Gr. 410
21	GLAND	ASTM A-276 Gr. 410
22	GLAND FLANGE	ASTM A-216 Gr. WCB
23	STEM NUT	ASTM A-439 Gr. D-2
24	SLEEVE	ASTM/ANSI 1020
25	YOKE BOLT	ASTM A-193 Gr. B7
26	YOKE NUT	ASTM A-194 Gr. 2H
27	YOKE	ASTM A-216 Gr. WCB

DIMENSIONS, WEIGHTS & TORQUE

MODEL	SIZE	PORT	L	H	ØW	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT (KG)	TORQUE (LBS-INCH)	
1618F-09	2"	ON50	2.00	11.50	17.32	9.84	6.50	5.00	3.62	1.00	0.25	8.00	0.75	32.50	973.50
1618F-10	2 1/2"	DN65	2.50	13.00	19.80	9.84	7.50	5.88	4.12	1.12	0.25	8.00	0.87	50.00	1106.30
1618F-11	3"	ON80	3.00	14.00	21.46	9.84	8.25	6.62	5.00	1.25	0.25	8.00	0.87	61.80	1416.00
1618F-12	4"	DN100	4.00	17.00	26.10	11.81	10.83	8.50	6.19	1.50	0.25	8.00	1.00	111.40	1902.80
1618F-14	6"	DN150	6.00	22.00	32.99	17.72	14.00	11.50	8.50	1.88	0.25	12.00	1.12	231.80	4248.00
1618F-15	8"	DN200	7.87	26.00	43.78	19.69	16.50	13.75	10.62	2.19	0.25	12.00	1.25	430.00	4867.50
1618F-16	10"	DN250	9.75	31.00	50.59	25.20	20.00	17.00	12.75	2.50	0.25	16.00	1.37	680.00	8026.90
1618F-17	12"	DN300	11.75	33.00	58.66	28.35	22.00	19.25	15.00	2.62	0.25	20.00	1.37	890.00	11682.00