



# Contributing to safer and smarter pipe network flow control

Through Conduit Gate Valve

## KAMROO HOLDING GROUP CO., LTD.

**ADD** No.28, Yongxing Road, Jianshan  
New District, Jiaying City, Zhejiang, China

**TEL** +86 (0)573 87979999 Ext 8068  
+86 (0)573 8797 5353

**WEB** [www.kamroo.com](http://www.kamroo.com)

**E-MAIL** [info@kamroo.com](mailto:info@kamroo.com)







EST.2012

# BRIEF INTRODUCTION

Founded in 2012, KAMROO Holding Group is an innovative integrator focusing on "smart" manufacturing of valves. The core products are suitable for tough working applications such as low temperature, high temperature, high pressure, strong corrosion, and solids mixed medium. KAMROO products are suitable for industries such as Oil&Gas, Refinery, Chemical, Natural Gas, Power Plant, Metallurgy, Electronics, and new energy. The equivalent standards cover many industrial pipelines fields.

KAMROO strives to create an automation, digital, and intelligent platform, integrates profound technical accumulation and professional wisdom of the team. We also provide superior product support and technical services for domestic and international clients, as well as provide customized solutions for end user.

Contributing to safer and smarter pipe network flow control

KAMROO adheres to customer-oriented principle and guarantees system compatibility. We will continue to maintain the attitude and belief of concentration and ingenuity, adhering to safer, more reliable and smarter pipeline flow control technology and advanced design concepts to help you optimize the working application, improve the efficiency and save the costs.

With a flexible and open attitude, KAMROO listens to the voice of the market and embraces multiculturalism. KAMROO focuses on the construction of a global service system, and strives to become the preferred partner in the field of flow control. No matter where you are in the world, we look forward to keeping in close contact with you to understand your specific needs and provide precise services.





Contributing to safer and smarter pipe network flow control



API 6FA Cert



API 607 Cert



API 6D-1729



CE Cert

# QUALIFICATION CERTIFICATE



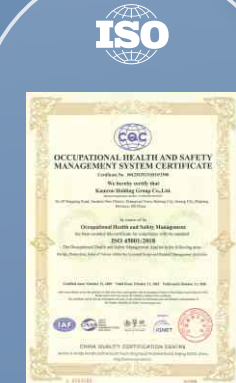
EAC Cert (CU-TR)



ISO 9001



ISO 14001



ISO 45001

# THROUGH CONDUIT GATE VALVE

Contributing to safer and smarter pipe network flow control

DESIGN STANDARDS	API6D, API607, API6FA, ASME B16.5, API641, ASME B16.34, etc.
SIZE RANGE	NPS2~NPS48, DN50~DN1200
NOMINAL PRESSURE	CLASS150~CLASS2500
CONNECTION	RF, RTJ, BW, etc.
MATERIALS	ASTM A216 WCB, ASTM A352 LCB, ASTM A351 CF8, ASTM A351 CF8M, A995 4A, etc.
APPLICABLE TEMPERATURE	-29℃~180℃
APPLICABLE MEDIUM	Oil, Gas, Steam, etc.
OPERATION	Handwheel, Gear, Pneumatic, Electric, etc.

## SOFT-SEATED DESIGN

The floating seat rings & gate can achieve automatic sealing by pressure and double block of upstream & downstream valve seat. Soft-seated design ensures “bubble tightness” sealing and self-cleaning. Floating seat rings always closely contact the gate. The sealing surface is well protected to prolong its service life.

## DOUBLE BLOCK DESIGN

When the valve is in the closed position with equal or no pressure, both spring loaded seats can shut off the pipeline. When the pipeline pressure is applied, the pressure forces the slab gate to float against the downstream seat and form the tight sealing. At the same time, the upstream pipeline pressure forces the upstream valve seat on the slab gate to form the upstream sealing.

## SELF RELIEVING CAVITY

Double block and bleed slab gate design may cause the cavity pressure to increase due to thermal expansion when in the closed position. When the cavity pressure exceeds the pipeline pressure, the seat is forced away from the gate surface allowing the excess cavity pressure to drain into the pipeline, which achieves the pressure balance between the body cavity and the pipeline.

## SECONDARY SEALANT INJECTION SYSTEM

6" and larger valves will be with a secondary sealant injection fitting for the stem and seats. If the seat inserts or stem O-rings are damaged, the leakage from the seat and stem can be prevented injecting sealant into the fitting.

## GASKET OF BONNET FLANGE

Unless otherwise stated, KAMROO provides stainless steel + graphite spiral wound gasket for bolted bonnet globe valve pressure rating Class 150-Class 600, and octagonal ring joint for bolted bonnet globe valve pressure rating Class 900 and above as standard. Pressure sealing bonnet design are usually used for valve pressure rating Class 900 and above, such pressure sealing design makes the valve as to pressure seal bonnet, the commonly used material for its gasket is steel ring, graphite is also available as an option.

## SEALANT INJECTION

In normal condition, stem sealing is not achieved with sealing grease. Sealing grease can be injected through injection port for urgent repair in the event that stem sealing is failed due to one or another reason. Each sealant injection port is installed an injection valve and an underground non-return check valve. The typical injection valve has a helmet to secure its safety and reliability. There is a buckle designed at the head of injection valve for fast injection.

## DRAIN PORT

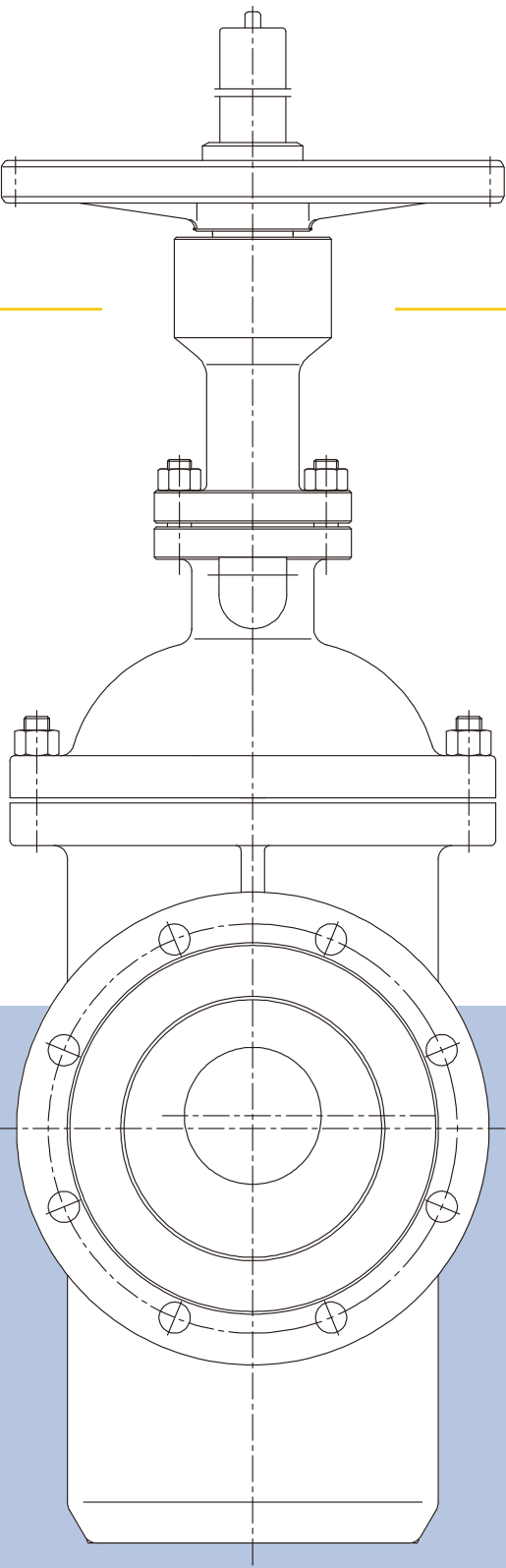
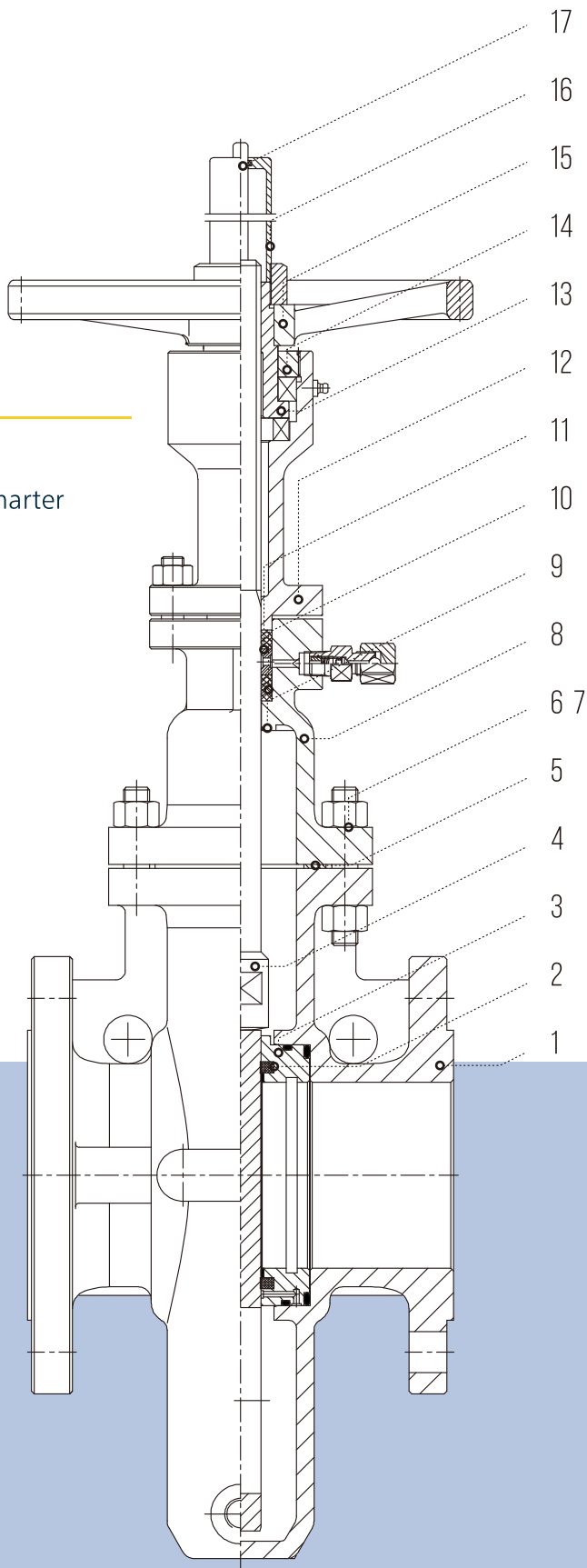
Drain port is installed on the bottom of valve body, valve can be vented or drained through drain port. The drain port can be an insulation valve or a special plug, which is safe and convenient.

## OVER-PRESSURE RELEASE OF VALVE CAVITY

The over-pressure of valve cavity is released automatically to upstream through seat ring, thus relief device of over-pressure in body cavity is not required. When the valve is fully closed, the upstream and downstream pressure will be blocked by valve seats, and then the valve can be vented or drained.



Contributing to safer and smarter  
pipe network flow control





		SOFT SEAT			METAL TO METAL SEAT		
No.	Part Name	Carbon Steel	Stainless Steel	L.T. Carbon Steel	Carbon Steel	Stainless Steel	L.T. Carbon Steel
1	Body	A216 WCB	A351 CF8M	A352 LCB	A216 WCB	A351 CF8M	A352 LCB
2	Seat ring	RPTFE	RPTFE	RPTFE	RPTFE	RPTFE	RPTFE
3	Wedge	A216 WCB+13Cr	A182 F316	A350 LF2+ENP	A105+STL	A182 F316+STL	A350 LF2+STL
4	Stem	17-4PH	17-4PH	17-4PH	17-4PH	17-4PH	17-4PH
5	Bonnet Gasket	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE
6	Bonnet Bolt	A193 B7	A193 B8M	A320 L7	A193 B7	A193 B8M	A320 L7
7	Bonnet Nut	A194 2H	A194 8M	A194 7	A194 2H	A194 8M	A194 7
8	Bonnet	A216 WCB	A351 CF8M	A352 LCB	A216 WCB	A351 CF8M	A352 LCB
9	Back Facing	13Cr	STL	13Cr	13Cr	STL	13Cr
10	Stem Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
11	Sealing Shroud	SS316	SS316	SS316	SS316	SS316	SS316
12	Yoke	A216 WCB	A351 CF8M	A352 LCB	A216 WCB	A351 CF8M	A352 LCB
13	Stem nut	ASTM B148	A276 316	A276 316	ASTM B148	A276 316	A276 316
14	Gland	A276 410	A276 316	A276 316	A276 410	A276 316	A276 316
15	Hand Wheel	ASTM A197	ASTM A197	ASTM A197	ASTM A197	ASTM A197	ASTM A197
16	Stem Protector	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel	Stainless Steel
17	Position Indicator	SS304	SS316	SS316	SS304	SS316	SS316

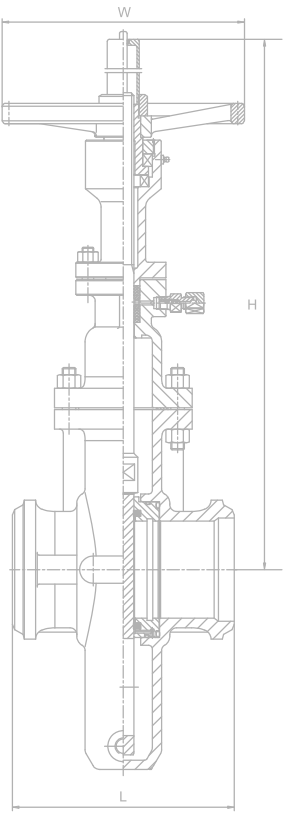
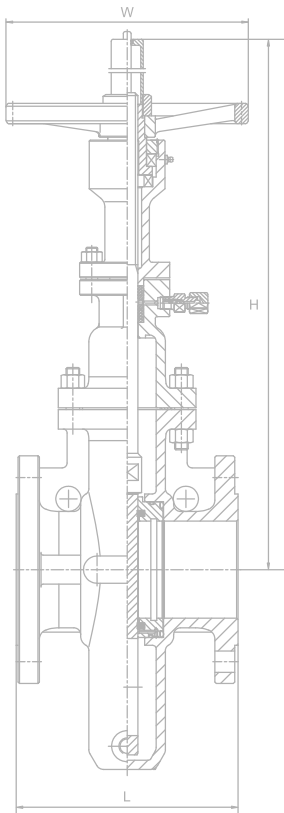
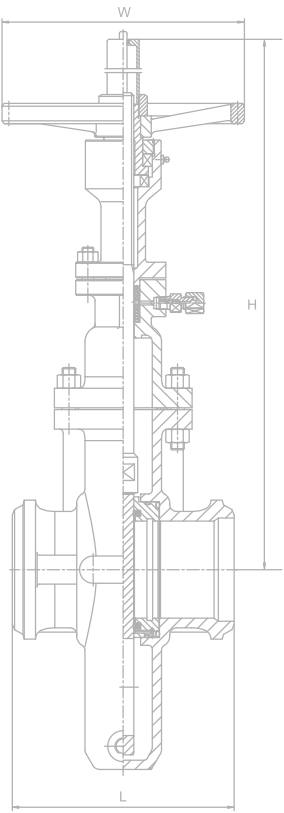
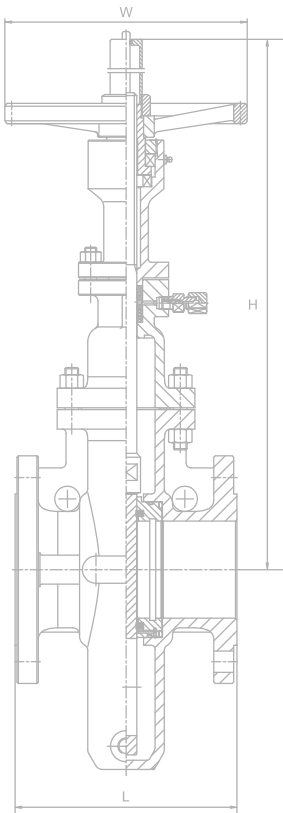
Optional Body Material:  
A105/WCC, A352 LCB/LCC, A351 CF8/CF3/CF8M/CF3M, A890 4A/5A/6A, B148 C95800,Alloy Steel ect..

Contributing to safer and smarter pipe network flow control

# THROUGH CONDUIT GATE VALVE



Contributing to safer and smarter  
pipe network flow control



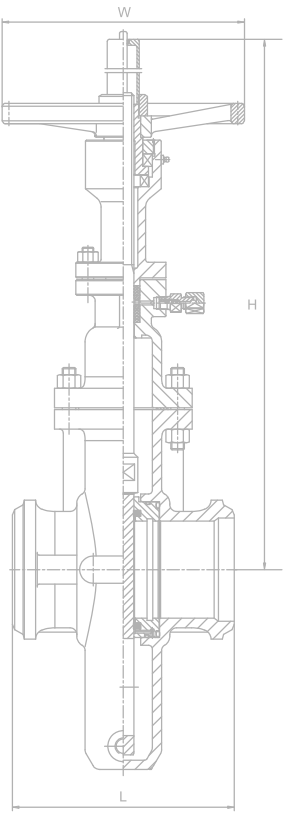
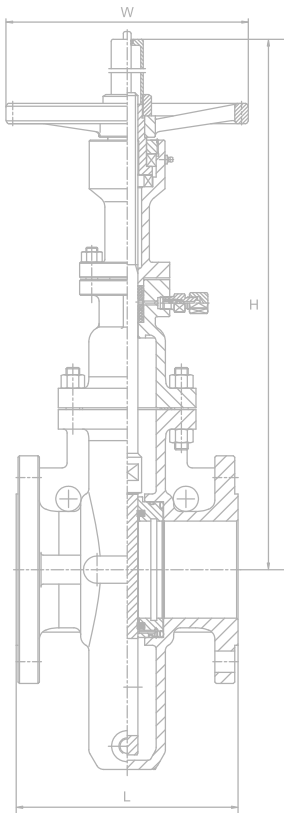
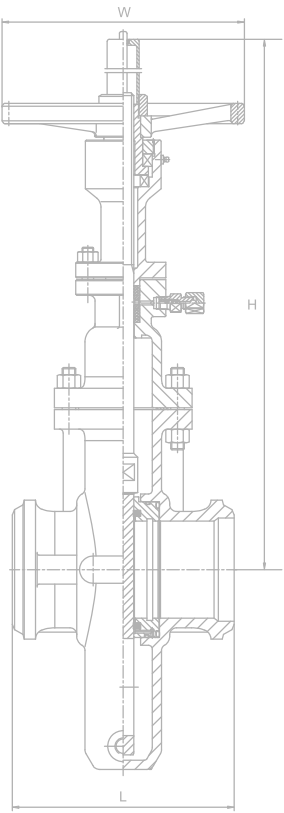
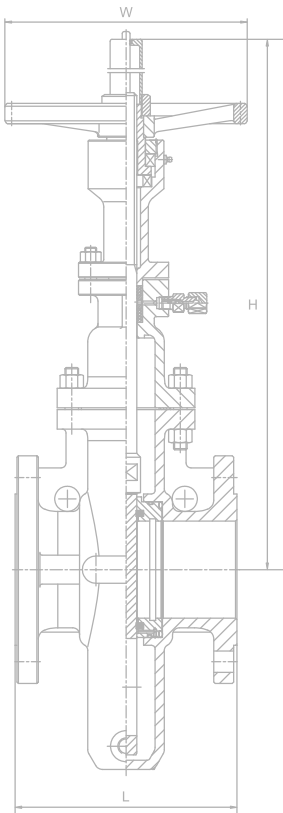
CLASS 150

DN	NPS	L			H	W	Weight (kg)
		RF	RTJ	BW			
50	2	178	191	216	450	250	34
65	2 1/2	190	203	241	550	300	41
80	3	203	216	283	610	300	56
100	4	229	241	305	700	300	84
150	6	267	279	403	895	350	142
200	8	292	305	419	1130	350	236
250	10	330	343	457	1290	400	352
300	12	356	368	502	1480	450	450
350	14	381	394	572	1660	500	600
400	16	406	419	610	1850	550	736
450	18	432	445	660	2080	600	890
500	20	457	470	711	2300	700	1120
600	24	508	521	813	2680	800	2010

CLASS 300

DN	NPS	L			H	W	Weight (kg)
		RF	RTJ	BW			
50	2	216	232	216	458	250	54
65	2 1/2	241	257	241	555	300	68
80	3	283	298	283	615	300	85
100	4	305	321	305	710	300	112
150	6	403	419	403	900	350	240
200	8	419	435	419	1135	350	365
250	10	457	473	457	1401	400	500
300	12	502	518	502	1580	400	757
350	14	762	778	762	-	-	1050
400	16	838	854	838	-	-	1480
450	18	914	930	914	-	-	2040
500	20	991	1010	991	-	-	2650
600	24	1143	1165	1143	-	-	4260



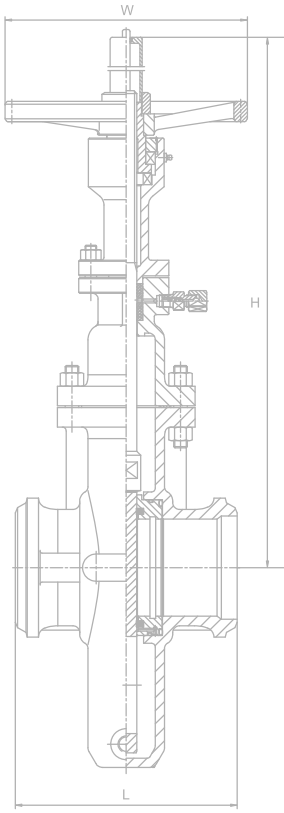
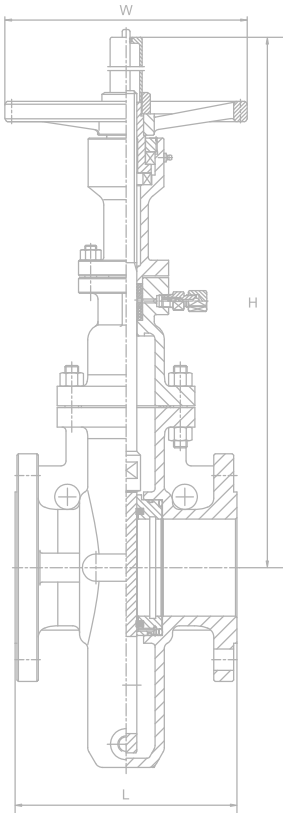


CLASS 600

DN	NPS	L			H	W	Weight (kg)
		RF	RTJ	BW			
50	2	292	295	292	468	300	66
65	2 1/2	330	333	330	565	300	93
80	3	356	359	350	625	350	110
100	4	432	435	432	720	350	156
150	6	559	562	559	910	400	296
200	8	660	664	660	1145	500	640
250	10	787	791	787	1411	500	900
300	12	838	841	838	1590	600	1135
350	14	889	892	889	-	-	1700
400	16	991	994	991	-	-	2350
450	18	1092	1095	1092	-	-	2776
500	20	1194	1200	1194	-	-	4210
600	24	1397	1407	1397	-	-	6010

CLASS 900

DN	NPS	L			H	W	Weight (kg)
		RF	RTJ	BW			
50	2	368	371	368	473	300	103
65	2 1/2	419	422	419	570	300	135
80	3	381	384	381	630	350	162
100	4	457	460	457	725	350	286
150	6	610	613	610	915	400	532
200	8	737	740	737	1150	500	970
250	10	838	841	838	1416	500	1305
300	12	965	968	965	1595	600	2000
350	14	1029	1038	1029	-	-	2600
400	16	1130	1140	1130	-	-	3210
450	18	1219	1232	1219	-	-	4000
500	20	1321	1334	1321	-	-	5120
600	24	1549	1568	1549	-	-	9400



CLASS 1500

DN	NPS	L			H	W	Weight (kg)
		RF	RTJ	BW			
50	2	368	371	368	480	350	120
65	2 1/2	419	422	419	595	350	169
80	3	470	473	470	650	400	260
100	4	546	549	546	740	450	380
150	6	705	711	705	980	500	910
200	8	832	842	832	-	-	1520
250	10	991	1000	991	-	-	2280
300	12	1130	1146	1130	-	-	3300

CLASS 2500

DN	NPS	L			H	W	Weight (kg)
		RF	RTJ	BW			
50	2	450	454	450	480	350	176
65	2 1/2	508	540	508	595	350	268
80	3	578	584	578	650	400	365
100	4	673	683	673	740	450	580
150	6	914	927	914	980	500	1440
200	8	1022	1038	1022	-	-	2350
250	10	1270	1292	1270	-	-	4100
300	12	1422	1445	1422	-	-	5850