

### DESIGN APPRAISAL DOCUMENT

Date	26 December 2002	Quote this reference on all future communications	YPA/I/MIF/I-1-U-2/25925/W00130004
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**INSPECTION ON BEHALF OF M.H.L.W., JAPAN**  
**PART NO. 4435HCK - MODEL NO. 4523/33 AND 4524/34**  
**PART NO. 4436HCK - MODEL NO. 4523/33 AND 4524/34**  
**PART NO. 4437HCK - MODEL NO. 4521/31 AND 4522/32**  
**PART NO. 4438HCK - MODEL NO. 4521/31 AND 4522/32**  
**PARR INSTRUMENT COMPANY**

1. The plans listed below have been examined for compliance with the First Class Pressure Vessel requirements of Construction Code for Pressure Vessels - M.H.L.W., Japan and, for the design conditions stated on the plans and in the calculation, are assigned an appraisal status as indicated, subject to satisfactory resolution of the following comment:-

1.1. Materials are based on SA-479 Type 316 and SB-574-N10276 for head and cylinder and SA-193-B7 and B16 for split ring, compression ring and bolts of ASME Code.

2. Plan No.	Rev.	Title	Appraisal Status
4435HCK Sheet 1	--	Assembly	(N) 26 Dec. 2002
4435HCK Sheet 2	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
4435HCK Sheet 3	--	Assembly	(N) 26 Dec. 2002
4435HCK Sheet 4	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
4436HCK Sheet 1	--	Assembly	(N) 26 Dec. 2002
4436HCK Sheet 2	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
4436HCK Sheet 3	--	Assembly	(N) 26 Dec. 2002
4436HCK Sheet 4	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
4437HCK Sheet 1	--	Assembly	(N) 26 Dec. 2002
4437HCK Sheet 2	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
4437HCK Sheet 3	--	Assembly	(N) 26 Dec. 2002
4437HCK Sheet 4	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
4438HCK Sheet 1	--	Assembly	(N) 26 Dec. 2002
4438HCK Sheet 2	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
4438HCK Sheet 3	--	Assembly	(N) 26 Dec. 2002
4438HCK Sheet 4	--	Dimensions and Design Conditions	(C) 26 Dec. 2002
296MC (Japan)	--	Design Calculation	(N) 26 Dec. 2002

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Date

26 December 2002

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#### Appraisal Status Key

(C)= Considered to comply provided the installation is to Lloyd's Register's Surveyor's satisfaction and the remaining requirements of the Code are complied with.

(N)= Noted as supporting documentation for information only.



M. Furuyama  
Senior Surveyor  
Engineering Services Group  
Yokohama Plan Approval Services

### DESIGN APPRAISAL DOCUMENT

Date	19 August 2002	Quote this reference on all future communications	YPA/I/MIF/I-1-U-2/23113/YKA0235052
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#### INSPECTION ON BEHALF OF M.H.L.W., JAPAN

**PART NO. 4303HCK - MODEL NO. 4561, 4562, 4563, 4564 AND 4565**

**PART NO. 4304HCK - MODEL NO. 4561, 4562, 4563, 4564 AND 4565**

**PART NO. 4305HCK - MODEL NO. 4566, 4567, 4568, 4566B AND 4566C**

**PART NO. 4306HCK - MODEL NO. 4566, 4567, 4568, 4566B AND 4566C**

#### PARR INSTRUMENT COMPANY

1. The plans listed below have been examined for compliance with the First Class Pressure Vessel requirements of Construction Code for Pressure Vessels - M.H.L.W., Japan and, for the design conditions stated on the plans and in the calculation, are assigned an appraisal status as indicated, subject to satisfactory resolution of the following comments:-

- 1.1. Materials is based on SA-479 Type 316 of ASME Code.
- 1.2. Bottom thickness is insufficient to comply with Article 34 of the Code.
- 1.3. Split ring wall thickness is insufficient.

2. Plan No.	Rev.	Title	Appraisal Status
4303HCK Sheet 1 of 3	--	Assembly	(N) 19 Aug. 2002
4303HCK Sheet 2 of 3	--	Detail of Dimension	(CQ) 19 Aug. 2002
4303HCK Sheet 3 of 3	--	Detail of Design Condition	(N) 19 Aug. 2002
4304HCK Sheet 1 of 3	--	Assembly	(N) 19 Aug. 2002
4304HCK Sheet 2 of 3	--	Detail of Dimension	(CQ) 19 Aug. 2002
4304HCK Sheet 3 of 3	--	Detail of Design Condition	(N) 19 Aug. 2002
4305HCK Sheet 1 of 3	--	Assembly	(N) 19 Aug. 2002
4305HCK Sheet 2 of 3	--	Detail of Dimension	(CQ) 19 Aug. 2002
4305HCK Sheet 3 of 3	--	Detail of Design Condition	(N) 19 Aug. 2002
4306HCK Sheet 1 of 3	--	Assembly	(N) 19 Aug. 2002
4306HCK Sheet 2 of 3	--	Detail of Dimension	(CQ) 19 Aug. 2002
4306HCK Sheet 3 of 3	--	Detail of Design Condition	(N) 19 Aug. 2002
296MA (Japan)	--	Design Calculation	(N) 19 Aug. 2002

#### Appraisal Status Key

(CQ)= Considered to comply subject to matters which require resolution and provided the installation is to Lloyd's Register's Surveyor's satisfaction and the remaining requirements of the Code are complied with.

(N)= Noted as supporting documentation for information only.

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Document number	YPA/E/0235052
Issue number	0

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