

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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DESIGN APPRAISAL DOCUMENT

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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