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[www.tssa.org](http://www.tssa.org)

August 30, 2013

YUVRAJ MALHOTRA  
HILTON METAL FORGING LTD  
701 PALM SPRING PALM COURT COMPLEX LINK RD  
MUMBAI, MALAD (W) MAHARASHTRA INDIA 400 064  
IN

Service Request Type.: BPV-National AB  
Service Request No.: 1143574  
Your Reference No.:  
Registered to.: HILTON METAL FORGING LTD

Dear YUVRAJ MALHOTRA,

Please find enclosed the original response from AB, registered under the CRN No.: 0A00936.92.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you. For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail [customerservices@tssa.org](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis  
Administrative Assistant\_ BPV Engineering  
Tel. : 416-734-3423  
Fax : 416-231-6183  
Email : [tfrancis@tssa.org](mailto:tfrancis@tssa.org)



the pressure equipment safety authority

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

July 31, 2013

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
3300 BLOOR STREET WEST  
14 FLOOR CENTRE TOWER  
TORONTO, ON M8X 2X4

The design submission, tracking number 2013-05340, originally received on July 18, 2013 was surveyed and accepted for registration as follows:

**CRN :** 0A00936.92 **Accepted on:** July 31, 2013

**Reg Type:** Addition to Acc. Fitting **Expiry Date:** May 17, 2023

**Drawing No. :** STUB ENDS SIZES UP TO 24 IN NPS

**Fitting type:** STUB ENDS ASME B 16.9

Design registered in the name of : HILTON METAL FORGING LTD

**The registration is conditional on your compliance with the following notes:**

*This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form. This registration is valid only until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

GRYNCHUK, MILLA



the pressure equipment safety authority

STATUTORY DECLARATION  
Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.  
**HF**

I, YUVAJ MALHOTRA,

CMD

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of HILTON METAL FORGING LTD.

(name of manufacturer)

located at Plot No. 1,2,3,15,16,17,20,21,25,26,28,29 & 30, Shah & Mehta Ind. Estate, Vill. Ghonsai, Tal. Wada, Dist. Thane - 421 312, Maharashtra, India

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

comply with the requirements of ASME/ANSI B16.9, MSS SP43 which specifies the dimensions, (title of recognized North American Standard)

materials of construction, pressure/temperature ratings and identification marking of the fittings, or

are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001: 2008 as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Stub Ends

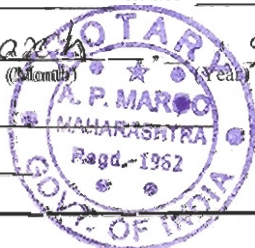
In support of this application, the following information, calculations and/or test data are attached:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DECLARED before me at \_\_\_\_\_ in the \_\_\_\_\_ of \_\_\_\_\_

this 20th day of March 2013

(print) NOTARY  
(sign) [Signature]  
(A Commissioner for Oaths)



[Signature]  
(Signature of Applicant)

For Office Use Only

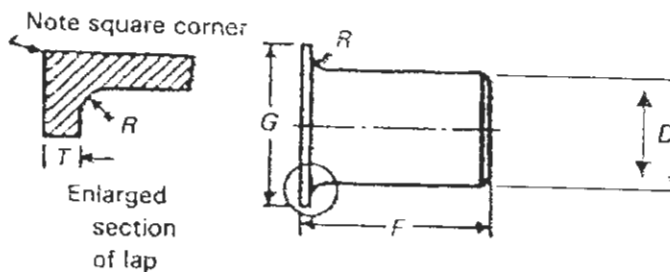
To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category A

Registration Number: 0A00936-92

Date Registered: JUL 31 2013

[Signature]  
(For the Administrator/Chief Inspector of Alberta)  
Expiry Date: 2023-05-17

# LAP JOINT STUB ENDS ASME B 16.9 - 2007



Nominal Pipe Size (NPS)	Outside Diameter at Bevel D	Long Pattern Length F	Short Pattern Length F	Radius of Fillet R	Diameter of Lap G	Outside Diameter of Barrel	
						Max.	Min.
1/2	0.84	3.00	2.00	0.12	1.38	0.896	0.809
3/4	1.05	3.00	2.00	0.12	1.69	1.106	1.019
1	1.32	4.00	2.00	0.12	2.00	1.376	1.284
1 1/4	1.66	4.00	2.00	0.19	2.50	1.716	1.629
1 1/2	1.90	4.00	2.00	0.25	2.88	1.965	1.869
2	2.38	6.00	2.50	0.31	3.62	2.456	2.344
2 1/2	2.88	6.00	2.50	0.31	4.12	2.966	2.844
3	3.50	6.00	2.50	0.38	5.00	3.596	3.469
3 1/2	4.00	5.00	3.00	0.38	5.50	4.096	3.969
4	4.50	6.00	3.00	0.44	6.19	4.593	4.469
5	5.56	8.00	3.00	0.44	7.31	5.683	5.532
6	6.62	8.00	3.50	0.50	8.50	6.743	6.594
8	8.62	8.00	4.00	0.50	10.62	8.743	8.594
10	10.75	10.00	5.00	0.50	12.75	10.913	10.719
12	12.75	10.00	6.00	0.50	15.00	12.913	12.719
14	14.00	12.00	6.00	0.50	16.25	14.170	13.969
16	16.00	12.00	6.00	0.50	18.50	16.180	15.969
18	18.00	12.00	6.00	0.50	21.00	18.190	17.969
20	20.00	12.00	6.00	0.50	23.00	20.240	19.969
22	22.00	12.00	6.00	0.50	25.25	22.240	21.969
24	24.00	12.00	6.00	0.50	27.25	24.240	23.969

(Dimensions are in Inches)

## TOLERANCES (in mm)

Nominal Pipe Size (NPS)	Outside Diameter at Bevel D	Inside Diameter at End	Outside Diameter of Lap G	Fillet Radius of Lap R	Wall Thickness
1/2 to 2 1/2	1	0.8	+0-1	+0-1	
3 to 3 1/2	1	1.6	+0-1	+0-1	
4	+2-1	1.5	+0-1	+0-2	
5 to 6	+3-1	1.6	+0-1	+0-2	
8	2	1.6	+0-1	+0-2	
10	+4-3	3.2	+0-2	+0-2	
12 to 18	+4-3	3.2	+0-2	+0-2	
20 to 24	+8-5	4.8	+0-2	+0-2	

**ASME**

**SAFETY CODES ACT - PROVINCE OF ALBERTA**

**REGISTRATION OF FITTINGS**

Should not be less than 87 1/2% of wall thickness

REGISTRATION NO. **0A00936.92**

DWG. NO. or CAT. NO. **HF**

TYPE OF FITTINGS **LAP STUB ENDS**

Date **31 2013** INITIALS **[Signature]**

MILLA GRYNCHUK, P.Eng.  
DESIGN SURVEY ENGINEER