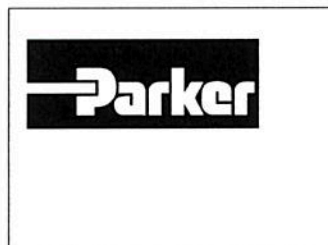




the pressure equipment safety authority

STATUTORY DECLARATION
Registration of Fittings



I, Matthew Weinle,

Innovation Engineer

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

of Parker Hannifin, IPDE

(name of manufacturer)

located at Riverside Road, Barnstaple, Devon, EX31 1NP

(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 _____ 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 ASME Pressure Vessel Codes 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, DNV Mangement Systems 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 Air Distribution Manifolds

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

Design Verification of Hi-Pro Distribution Manifolds / Headers; Type CRNHPAHM****;

typical customer drawing: HPAHMS1016F01MSW8F8FBBVO.*

DECLARED before me at Barnstaple in the County of Devon

this 16 day of December, 2011
(Month) (Year)

(print) Matthew Weinle

M. Weinle
(Signature of Applicant)

(sign) Michael T. Outh
(A Commissioner for Oaths)

For Office Use Only * Accepted design per dwg. HPAHM-DWG-CRN Rev. 1

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: OH12507.2

[Signature]
(For the Administrator/Chief Inspector of Alberta)
Expiry Date: July 11, 2012

Date Registered: JUL 11 2012

July 11, 2012

Susan Turner
PARKER HANNIFIN INSTRUMENTATION CANADA
4635 DURHAM ROAD S
GRIMSBY, ON

Dear Susan Turner,

The design submission, tracking number 2011-08434, originally received on December 22, 2011 was surveyed and accepted for registration as follows:

CRN :	0H12507.2	Accepted on:	July 11, 2012
Reg Type :	New Design	Expiry Date:	July 11, 2022
Drawing No. :	HPAHM-DWG-CRN Rev 1 As Noted		
Fitting Desc:	AIR HEADER MANIFOLD		

Design registered in the name of : PARKER HANNIFIN IPDE

Description	MAWP	Design Temperature
as listed on drawing	kPa	°C

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

This registration is valid 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.

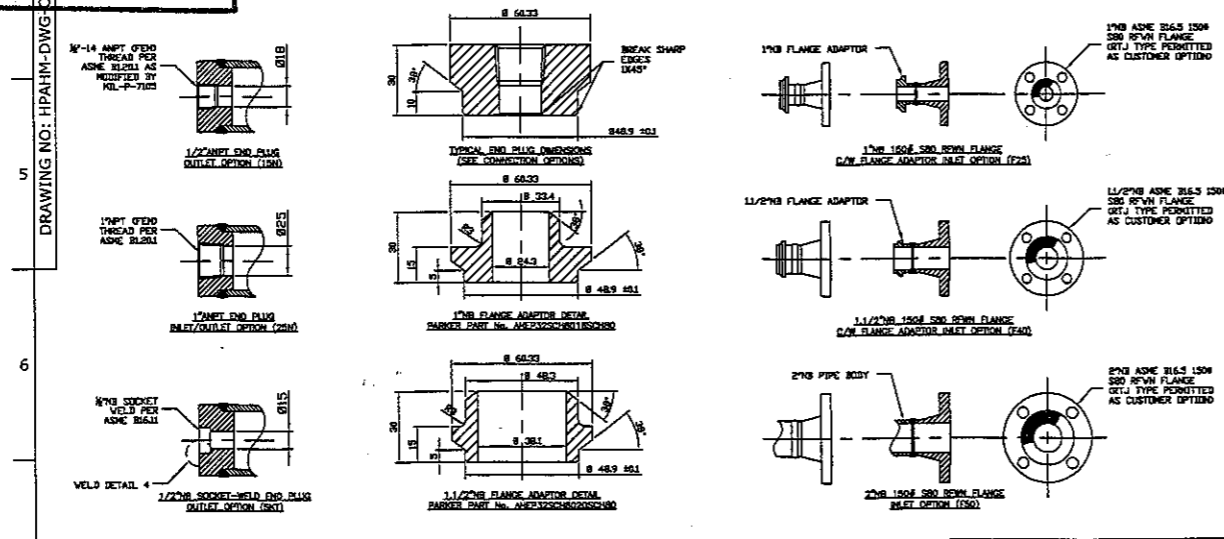
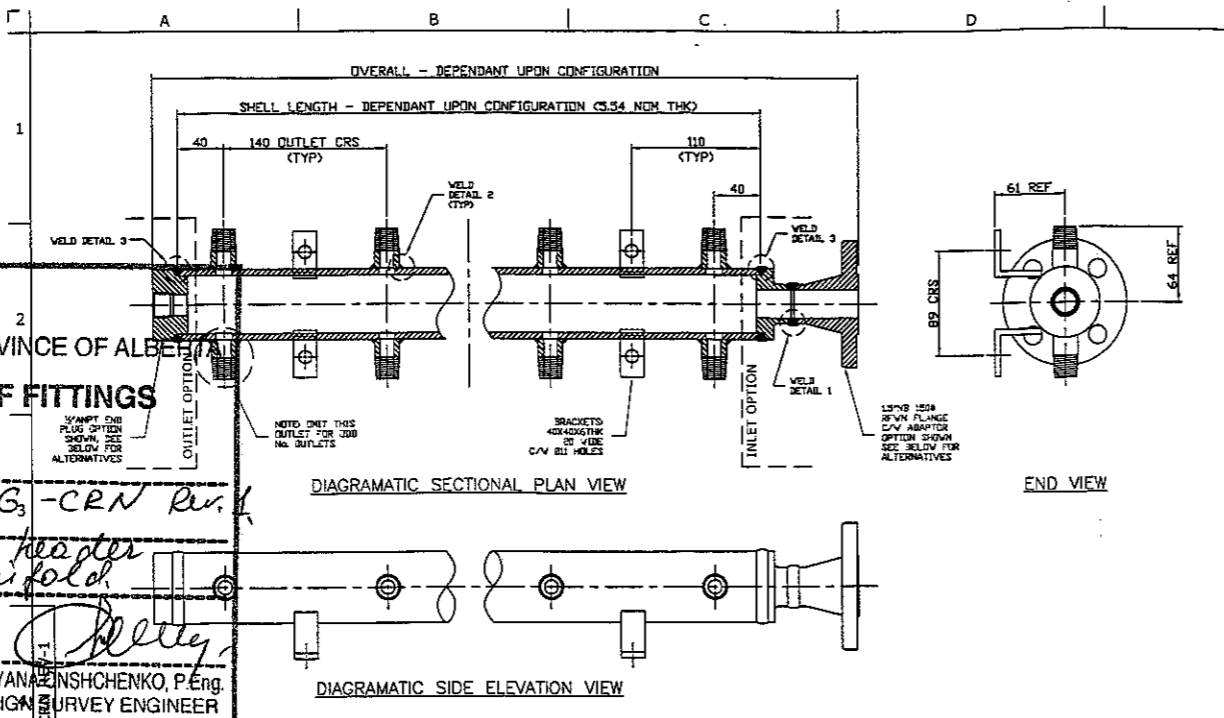
Enclosed are stamped prints for your reference.

Sincerely,



ONSHCHENKO, TETYANA, P. Eng.
Design Survey Engineer

ASCA
SAFETY CODES ACT - PROVINCE OF ALBERTA
REGISTRATION OF FITTINGS
OH12507.2
 REGISTRATION NO.
 DWG. NO. of CAT. NO. **HPAHM-DWG-CRN Rev. 1**
 TYPE OF FITTINGS **NPS & SCH. 80 Air Header Manifold**
JUL 11 2012
 Date
 INITIALS **[Signature]**
TETYANAZHCHENKO, P.Eng.
 DESIGN SURVEY ENGINEER



AIR HEADER DESIGNATOR: AH

OUTLET NUMBER: E.G. 8-WAY = 8W
 4W, 5W, 6W, 8W, 10W, 12W, 14W, 16W, 18W, 20W ETC.
 *S = SINGLE SIDED

MATERIAL:
 316 = SS316
 316L = SS316L
 254 = S31254
 MON = MONEL

INLET:
 F25 = 1\"/>

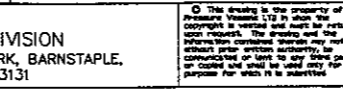
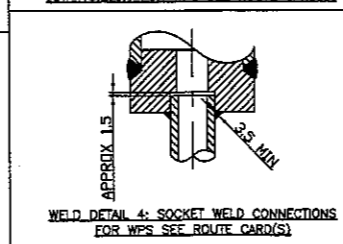
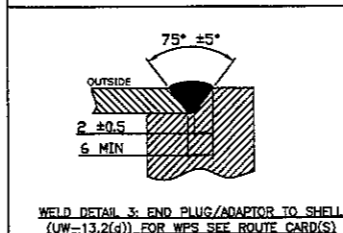
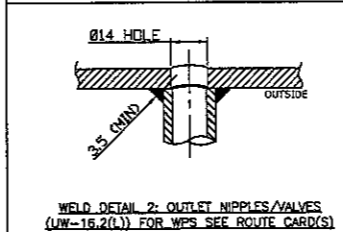
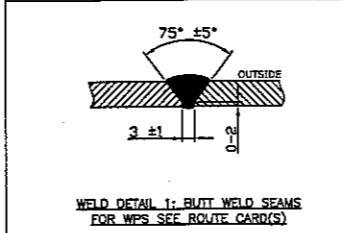
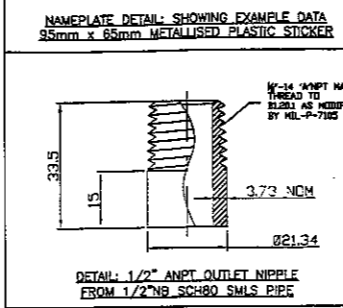
AH - 8W - 316 - F40 - 15N - ANPT - CRN

DO NOT SCALE
 ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED
 IF IN DOUBT - ASK!

Parker
 PARKER HANNIFIN PLC
 INSTRUMENTATION PRODUCTION DIVISION
 RIVERSIDE ROAD, POTTINGTON BUSINESS PARK, BARNSTAPLE,
 DEVON, EX31 1NP, UK; TEL: +44(0)1271 313131

Parker

SERIAL NO.	DESCRIPTION	DESIGN PRESSURE	TEMPERATURE	TEST PRESSURE	MATERIAL	MANUFACTURED BY
158 10	1/2\"/>					



DESIGN DATA - GENERAL

DESIGN CODE	ASME VIII DIVISION 1
EDITION	2010
ADDENDA	NOT CODE STAMPED
CODE STAMP	N/A
DIRECTIVE	CRN REQUIRED
OTHER SPECIFICATIONS	NONE SPECIFIED
PRESSURE CYCLES	NONE SPECIFIED
NOZZLE LOADINGS	NONE SPECIFIED
OTHER LOADINGS	NONE SPECIFIED
RADIOGRAPHY (CIRC SEAMS)	NONE JOINT EFF. 0.60
RADIOGRAPHY (LONG SEAMS)	NONE JOINT EFF. 0.85 (SMLS PIPE)
PT/MT (DPI/MP)	5% PER BATCH (CUSTOMER REQUEST)
ULTRASONIC (UT)	NONE
OTHER NDE	100% VISUAL ONLY
INSPECTION	CPE ONLY
IMPACT TESTING	EXEMPT - SEE CALCULATIONS
TO CONTAIN	NON-HAZARDOUS GASES
EXTERNAL FINISH	BEAD BLAST TO UNIFORM FINISH
INTERNAL FINISH	AS MANUFACTURED - CLEAN & DRY

DESIGN DATA - MATERIAL SPECIFIC

MATERIAL TYPE	SS316	SS316L	S31254	N04400
DESIGN PRESSURE	19.0 BARG (275 PSIG)	15.3 BARG (220 PSIG)	20.0 BARG (290 PSIG)	12.7 BARG (184 PSIG)
WAMP	19.0 BARG (275 PSIG)	15.9 BARG (230 PSIG)	20.0 BARG (290 PSIG)	12.7 BARG (184 PSIG)
DESIGN TEMPERATURE (MAX)	+38°C (100°F)	+38°C (100°F)	+38°C (100°F)	+28°C (82°F)
MDMT	-29°C (-20°F)	-29°C (-20°F)	-29°C (-20°F)	-29°C (-20°F)
TEST PRESSURE	24.7 BARG (358 PSIG)	20.7 BARG (300 PSIG)	28.0 BARG (407 PSIG)	18.5 BARG (269 PSIG)
CORROSION ALLOWANCE	0mm	0mm	0mm	0mm
PMHT	NONE	NONE	NONE	NONE

MATERIAL DATA

ITEM \ MATERIAL TYPE	SS316	SS316L	S31254	N04400
SHELL	SA-312	SA-312	SA-312	SB-165
TP316	F316L	S31254	N04400	N04400
END PLUGS	SA-182	SA-182	SA-182	SB-164
FLANGE ADAPTORS	SA-182	SA-182	SA-182	SB-164
FLANGES	F316	F316L	F44	N04400
THREADED NIPPLES	SA-312	SA-312	SA-312	SB-165
HI-PRO BALL VALVES	TP316	F316L	S31254	N04400
MOUNTING BRACKETS	SS316	SS316L	S31254	N04400

NOZZLE SCHEDULE

NOZZLE	DUTY	NOM BORE	RATING	TYPE	SCHEDULE
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

NOZZLE SCHEDULE DEPENDANT UPON AIR-HEADER CONFIGURATION - SEE DETAILS AND PURCHASE ORDER(S)

-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

CUSTOMER: PARKER HANNIFIN PLC
SERIAL NUMBER(S): SEE ROUTE CARD(S)
PED RISK CATEGORY: N/A
EC UNIT VERIFICATION MODULE: N/A
MANUFACTURER: GPE PRESSURE VESSELS LTD

DRAWN BY: P.O. **CHECKED BY:** FOR CHECKING

1	08/06/12	HI-PRO BALL VALVE ADDED, RTJ FLANGE OPTION, PARKER BRANDING	P.O.
0	15/05/12	ORIGINAL ISSUE	P.O.
REV	DATE	DESCRIPTION	ISS

AIR HEADER MANIFOLD ASSEMBLY

DATE: 08/06/12 **SCALE:** ---:--- **DRAWING No:** HPAHM-DWG-CRN