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October 20, 2016

SUSAN TURNER
PARKER HANNIFIN INSTRUMENTATION GROUP CANADA
4635 DURHAM RD S
GRIMSBY ON L3M 4G4
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 1938552
Your Reference No.: 2,3 & 5 valve manifold
Registered to: PARKER HANNIFIN INSTRUMENTATION GROUP CANADA

Dear SUSAN TURNER,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0C11191.5R1
Main Design No.: 4190-FM, 4190-HV, 4190-PM, MESC CMMS
Expiry Date: 20-Oct-2026

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

CRN Note: See attached "part of CRN" for the scope.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Charley Dong, M.Sc. P.Eng.
Mechanical Engineer

Tel.: 416-734-3436
Fax: 416-231-6183
Email: cdong@tssa.org



TECHNICAL STANDARDS &
SAFETY AUTHORITY
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4



STATUTORY DECLARATION Registration of Fittings

I, James Nelson, Senior Core Engineer
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Parker Hannifin, IPDE
(Name of Manufacturer)

Located at Riverside Road, Barnstaple, Devon, EX32 1NP .01271 313161
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of MSSSP99, ASME B31.1, ASME B16.5, ASME B16.34, ASME VIII, FED-STD-H28/2B
(Title of recognized North American Standard)
which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

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, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of Lloyds Register Quality Assurance which has been verified by the following authority, H-Series - Cat 4190HV, 4190PM, 4190FM, 4190 MESC.

The items covered by this declaration, for which I seek registration, are category C Valves all in Lines type fittings. In support of this application, the following information and/or test data are attached as follows:

Design Calculations (CRN H-Series Needle Valve Calculation.xls) (CRN H-Series Needle Valve Calculation Cast Body.xls)
(drawings, calculations, test reports, etc.)

Declared before me at Bideford in the County of Devon UK
the 24th day of March AD 2016.

Commissioner for Oaths: Maurice Charh
(Printed name)
Maurice Charh
(Signature)

J.P. Nelson
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category C

CRN: 0C11191-5R1

Registered by: Charley Dony

Dated: Dec. 20/16

NOTE: This registration expires on: Dec. 20, 2026

NOTE: SEE ATTACHED
"PART OF CRN"
FOR THE SCOPE.
CPD
TSSA

Technical Standards and Safety Authority **Boilers and Pressure Vessels Safety Program**

REGISTERED

C.R.N.: 0C11191-5R1

Signed: Charley Dony

Date: Dec. 20/16



**BOILERS & PRESSURE VESSELS
SAFETY DIVISION**
3300 Bloor Street West
4th Floor, West Tower
Toronto, Ontario
CANADA M8X 2X4



**STATUTORY DECLARATION
Registration of Fittings**

I, **Spencer Nicholson - Technical Manager**

Of
Parker Hannifin PLC - Instrumentation Products Division Europe (IPDE)

Located at

Riverside Road, Pottlington Business Park, Barnstaple, Devon, England. EX31 1NP.
Telephone: +44 1271 313131
Telefax: +44 1271 313166
Web: www.parker.com/instrumentation

**THIS IS PART OF
CRN 0C11191.5R1**
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

*THIS IS THE SCOPE, SEE THE
BOTTOM NOTES.*
*CRD
TSSA
Oct. 20/16*

do solemnly declare that the fittings (valves) listed hereunder, which are subject to the Technical Standards and Safety Act, 2000, and Regulations for Boilers and Pressure Vessels are not covered by the provisions of a recognized North American standard. They are manufactured to comply with normal industry requirements, Parker Hannifin PLC product design standards and specifications together with relevant/applicable parts of MSS SP99, ANSI/ASME valve, pipeline and pressure vessel codes all as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings (valves) is controlled by a quality system meeting the requirements of ISO9001 (2000) which has been verified by the following authority, **Lloyds Register Quality Assurance**. The items covered by this declaration, for which I seek registration, are category C type fittings. In support of this application, the following information and/or test data are attached as follows:
Catalogues: 4190-PM 2 valve Manifolds, 4190-FM 3 & 5 valve Manifolds and 'H' series Needle Valve Design Verification.

Declared before me at Barnstaple in the County of Devon UK
the 7th day of December AD 2004.

Commissioner for Cans:
MICHAEL THOMAS ORTON
(Printed name)
Michael T. Orton
(Signature)

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY		Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Division
To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, 2000, and Regulations for Boilers and Pressure Vessels and is accepted for registration in Category <u>C</u> .		REGISTERED	
CRN: <u>0C11191.5</u>	Maximum working pressure: <u>limited</u>	C.R.N.: <u>0C11191.5</u>	
Registered by: <u>Carlaw Dine</u>	at <u>6000psi</u>	Signed: <i>[Signature]</i>	
Dated: <u>2006/10/4</u>		Date: <u>2006/10/4</u>	
NOTE: This registration expires on <u>2016/10/4</u>			
[Revised August 24, 2001]			

Registration scope: Catalog 4190-PM (June 2002) manifolds on pages 6 to 11, Catalog 4190-FM (June 2002) manifolds on pages 8 to 11, Page 10, 12, manifold HD*3MCP on page 13, 14 to 16 and 18 to 19. Rev. 2

- SR# 1938552 - No technical changes in Catalog #'s
4190-PM and 4190-FM
Susan Turner