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April 19, 2020

SCOTT ISLIP
ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 2795442
Your Reference No.: R-1189
Registered to: DSS VALVE PRODUCTS INC.

Dear SCOTT ISLIP,

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

CRN: **0C22353.5**
Main Design No.: DSS KNIFE GATE VALVES SERIES M81 - SEE SCOPE OF
REGISTRATION (1PG)
Expiry Date: 19-Apr-2030

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

1. This registration is for DSS Series M81 knife gate valve. Design code in accordance with ASME B31.3 and MSS SP-81.
2. See scope of registration for material restrictions.
3. 2" to 12" class 150.
4. 150psi to max of 150F

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, 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,

Alan Wu P. Eng.
Mechanical Engineer, BPV
Tel. : 416-734-3443
Fax : 416-231-6183
Email : awu@tssa.org



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

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



DSS[®]
VALVES

STATUTORY DECLARATION Registration of Fittings

I, TRENT RUNYON

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of DSS VALVES

(Name of Manufacturer)

Located at 1760 MAYFLOWER ROAD, NILES, MICHIGAN, 49120

(Plant Address)

269-409-6080

(Telephone No.)

269-409-6099

(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 MSS SP-81

(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 ISO 9001:2015 which has been verified by the following authority, PECB

The items covered by this declaration, for which I seek registration, are category C - KNIFE GATE VALVES type fittings. In support of this application, the following information and/or test data are attached as follows:
SCOPE OF CRN, REPORTS

(drawings, calculations, test reports, etc.)

Declared before me at Niles In the State of Michigan

the 11th day of NOVEMBER AD 2019

Commissioner for Oaths:

Christina Lee
(Printed name)

Christina Lee
(Signature)

Christina Lee
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF BERRIEN
My Commission Expires April 23, 2026
Acting in the County of BERRIEN

[Signature]
(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: 0C22353.5

Registered by: A Wu

Dated: April 18, 2020

NOTE: This registration expires on April 18, 2030

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C22353.5

Signed: [Signature]

Date: April 19, 2020

DSS Valves

1760 MAYFLOWER RD.
NILES, MI
49120



THIS IS PART OF CRN
0C22353.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

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SCOPE OF CRN REGISTRATION

Product Description	DSS Series	Design Code	Size Range	Material Specification	MAWP at MAWT	Report Number
Knife Gate Valve	M81	MSS SP-81 ASME B31.3	2" thru 12" CL. 150 FF Lugged Full Face	ASTM A351-CF8M, ASTM A351-CF8, ASTM A351-CG8M, ASTM A351-CF3, ASTM A351-CF3M, ASTM A240-304, ASTM A240-316, ASTM A240-317, ASTM A240-304L, ASTM A240-316L, ASTM A240-317L	150 psig at 150°F	R-1189
Knife Gate Valve	M81	ASME B31.3	2" thru 12" CL. 150 FF Lugged Full Face	ASTM A216-WCB, ASTM A352-LCC, ASTM A436 Grade 1 UNS F41000 (Note 4), ASTM A439 Grade D2 UNS F43000, ASTM A995-4A CD3MN UNS J92205, ASTM A995-5A CE3MN UNS J93404	150 psig at 150°F	R-1189

Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

Note 2: In all cases the pressure-temperature ratings of the valves may be limited by the seat and seal materials. Consult literature.

Note 3: Products that are to operate at low temperatures shall conform to the rules of the applicable codes under which they are used.

Note 4: ASTM A436 Grade 1 UNS F41000 is limited to 100°F maximum operating temperature when used under this CRN as this material has no elevated temperature properties published in ASME B31.3 or ASME Section II Part D.