

345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel.: 416.734.3300 Fax: 416.231.1626 Toll Free: 1.877.682.8772

www.tssa.org

June 17, 2021

ROUND ENGINEERING INC 10 SEGWUN RD WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 8012975

Your Reference No.: R-1410 - HB SERIES CONTROL VALVES - WATSON MCDANIEL

Registered to: WATSON MCDANIEL

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: 0C23315.5

Main Design No.: HB Series Control Valves per Scope of Registration

Expiry Date: Jun 17, 2031

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

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). 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,

Zivko Gacevic , P. Eng. Engineer, BPV

Tel.: +1 416-734-3429 Email: zgacevic@tssa.org



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



STATUTORY DECLARATION									
Registration of Fittings									
I, ROBERT HICKEY, GENERAL MANAGER									
(Name and Position, e.g. President, Plant Manager, Chief Engineer)									
of WATSON MCDANIEL									
(Name of Manufacturer)									
Located at	10-495-5131 610-495-5134								
(Plant Address) (Te	elephone No.) (Fax No.)								
do solemnly declare that the fittings listed hereunder, which are subject to the <i>Technical Standards and Safety Act</i> , Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B16.34, ASME B31.3, ASME B31.1									
(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, <u>HSB</u> The items covered by this declaration, for which I seek registration, are category <u>C - Control Value</u>	alves type fittings. In support of								
this application, the following information and/or test data are attached as follows:	type numgs. In support of								
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS									
(drawings, calculations, test reports, etc.)									
Declared before me at Pottstown in the State of Rangivania									
the 15+h day of April AD 20 21. Commonwealth of Pennsylvania - Notar, a Jay Goldberg, Notary Public									
Montgomery County My commission expires June 28, 2024									
Commission number 1299266									
(Printed name)									
2 MW									
(Signature) (Signature of Declarer)									
FOR OFFICE USE ONLY	Technical Boilers and								
To the best of my knowledge and belief, the application meets the requirements of the	Standards Pressure Vessels								
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and	and Safety Safety Program								
CSA Standard B51 and is accepted for registration in Category'C'	Authority								
CRN:	REGISTERED								
Registered by:	C.R.N.: 0C23315.5								
Dated:	Signed: Lacrue Zil								
NOTE: This registration expires on: Jun 17, 2031	Date: June 17, 2021.								

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

WATSON MCDANIEL

428 JONES BLVD. POTTSTOWN, PENNSYLVANIA 19464, U.S.A.



THIS IS PART OF CRN 0C23315.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

09-Apr-21

PAGE 1 OF 2

SCOPE OF CRN REGISTRATION

Product	Series /	Size	Design	Material	Inlet/	MAWP	MAWP at MAWT	Report
Description	Drawing	Range	Code	Specification	Outlet	at 100°F	(psig at °F)	Number
HB Series	HB-12-X,	1/2", 3/4",	ASME B16.34	Stainless Steel	NPT,	720 psig	720 psig at 100°F	R-1410A
Control Valves	HB-13-X,	1", 1-1/2",		ASTM A351-CF8M	Socket Weld		620 psig at 200°F	Rev. 0
	HB-14-X,	2"		(Note 4)			560 psig at 300°F	
	HB-16-X,						515 psig at 400°F	
	HB-17-X						497.5 psig at 450°F	
			ASME B31.1,	Stainless Steel	CL300	720 psig	720 psig at 100°F	R-1410A
			ASME B31.3	ASTM A351-CF8M,	Flanged		620 psig at 200°F	Rev. 0
				ASTM A312-TP316,	(Note 5,6)		560 psig at 300°F	
				ASTM A182-F316			515 psig at 400°F	
							497.5 psig at 450°F	
			ASME B31.1,	Stainless Steel	CL150	275 psig	275 psig at 100°F	R-1410A
			ASME B31.3	ASTM A351-CF8M,	Flanged		235 psig at 200°F	Rev. 0
				ASTM A312-TP316,	(Note 5,6)		215 psig at 300°F	
				ASTM A182-F316			195 psig at 400°F	
							182.5 psig at 450°F	

Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature.

Note 2: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP may be limited by the seat or seal material or other considerations. Please consult Watson McDaniel literature.

Note 3: Per ASME B16.34 para. 2.3.2. the pressure rating for service at any temperature below -20F shall be no greater that the ASME B16.34 ratings for -20F. Products that are to operate at low temperatures shall conform to the rules of the applicable codes under which they are used.

Note 4: Other ASME B16.34 materials may be supplied for NPT and Socket Weld Valves under this CRN. When this is the case the pressure-temperature ratings are to be in accordance with the applicable ASME B16.34 Table 2 ratings.

WATSON MCDANIEL

428 JONES BLVD. POTTSTOWN, PENNSYLVANIA 19464, U.S.A.



THIS IS PART OF CRN 0C23315.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

09-Apr-21

PAGE 2 OF 2

SCOPE OF CRN REGISTRATION

Note 5: When ASME B16.5 CL. 150 and CL. 300 flanges are used the pressure-temperature ratings of the valves are to be limited to the applicable ASME B16.34 Table 2 ratings for each pressure class.

Note 6: Pipe used in flanged connections shall be stainless steel ASTM A312-TP316 schedule 80 minimum thickness per ASME B36.19M. Flanges shall be stainless steel ASTM A182-F316 or any other ASME B16.5 Table II-2-2.2 listed material.