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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
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THIS IS PART OF CRN
 0C23315.5
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

SCOPE OF CRN REGISTRATION

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

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 than 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
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POTTSTOWN, PENNSYLVANIA
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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.