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December 08, 2016

ANDREA GENITRINI
BARDIANI VALVES CANADA LTD
1920 YONGE ST SUITE 200
TORONTO ON M4S 3E2
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 1964190
Your Reference No.: RENEWAL OF CRN#0C10778.5
Registered to: BARDIANI VALVOLE SPA

Dear ANDREA GENITRINI,

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

CRN No.: 0C10778.5R2
Main Design No.: SEE LIST OF MODULES
Expiry Date: 08-Dec-2026

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

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,


Zivko Gacevic P. Eng.
Mechanical Engineer, BPV
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| Valves falling within the equivalent module | Equivalent module representative valve | |
|---|--|--|
| | Of which we'll witness the proof test 1 | Of which we'll verify the design 2 |
| <p>1 Single seat valves DN 10-100, Pmax 10 bar, Tmin -10°C, Tmax 140°C</p> <p>ZP with the following configurations: "L", "T", "LL", "TL", "LT", "TT", "P7-LL", "P7-TL", "P7-LT", "P7-TT", "M8-LL", "M8-TL", "M8-LT", "M8-TT", "M8-LLL", "M8-LTL", "M8-LLT", "M8-LTT", "M8-TLL", "M8-TTL", "M8-TLT", "M8-TTT", "M9-LLL", "M9-LTL", "M9-LLT", "M9-LTT", "M9-TLL", "M9-TTL", "M9-TLT", "M9-TTT".</p> <p>ZR with the following configurations: "L", "T", "LL", "TL", "LT", "TT"</p> <p>YPA with the following configurations: "L", "T", "LL", "TL", "LT", "TT"</p> <p>YP1 with the following configurations: "L", "T", "LL", "TL", "LT", "TT", "P7-LL", "P7-TL", "P7-LT", "P7-TT", "M8-LL", "M8-TL", "M8-LT", "M8-TT", "M8-LLL", "M8-LTL", "M8-LLT", "M8-LTT", "M8-TLL", "M8-TTL", "M8-TLT", "M8-TTT", "M9-LLL", "M9-LTL", "M9-LLT", "M9-LTT", "M9-TLL", "M9-TTL", "M9-TLT", "M9-TTT".</p> <p>ZT with the following configurations: "L", "T", "LL", "TL", "LT", "TT", "P7-LL", "P7-TL", "P7-LT", "P7-TT", "M8-LL", "M8-TL", "M8-LT", "M8-TT", "M8-LLL", "M8-LTL", "M8-LLT", "M8-LTT", "M8-TLL", "M8-TTL", "M8-TLT", "M8-TTT", "M9-LLL", "M9-LTL", "M9-LLT", "M9-LTT", "M9-TLL", "M9-TTL", "M9-TLT", "M9-TTT".</p> <p>ZO with the following configurations: "L", "T", "LF", "2TF".</p> <p>ZOG with the following configurations: "L", "T".</p> <p>By-pass valves</p> <p>ZS1 with the following configurations: "L", "T", "M8-LL", "M8-TL", "M8-LT", "M8-TT".</p> <p>ZSA with the following configurations: "L", "T", "M8-LL", "M8-TL", "M8-LT", "M8-TT".</p> <p>As your request the module include also the following that, as</p> | <p>ZP "T"</p> <p>DN 10 DN 50 DN 100</p> | <p>ZP "L"</p> <p>DN 10 DN 100</p> <p>ZP "T"</p> <p>DN 10 DN 100</p> <p>ZP "P7-LL"</p> <p>DN 10 DN 100</p> <p>ZP "P7-TT"</p> <p>DN 10 DN 100</p> <p><u>End Connections</u> DIN, SMS</p> <div style="border: 2px solid red; padding: 5px; margin-top: 20px;"> <p style="color: red; font-weight: bold; font-size: 1.2em;">THIS IS PART OF</p> <p style="color: blue; font-size: 1.2em;">CRN 0C10778.5R2</p> <p style="color: red; font-size: 0.8em;">Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program</p> <p style="color: red; font-size: 0.8em;">7.6. 12/8/16</p> </div> |

you declared, are the same configuration of main pressure parts:

ZP - ON-OFF PNEUMATIC,
ZPEX - ZP ATEX norm,
ZPU - ZP USDA norm,
ZT - ON-OFF TWIN-STOP, YP1 - ON-OFF PNEUMATIC + barr.vap.,
YT1 - ON-OFF TWIN-STOP + barr.vap.,
ZR - ON-OFF PNE. Long Stroke ,
YR1 - ON-OFF PNE. Long Stroke + barr.vap.,
ZO - ON-OFF PNEUMATIC FONDO,
YO - ON-OFF PNEUMATIC Bottom Tank + barr.vap.,
ZOG - ON-OFF PNEUMATIC Bottom Tank Flange Body,
YOG - ON-OFF PNEUMATIC Bottom Tank Flange Body + steam barrier,
ZRT - ON-OFF PNE. Settable Actuator Long Stroke,
ZPT - ON-OFF PNEUMATIC Settable Actuator, ZOR - ON-OFF PNEUMATIC Bottom Tank ZO Long Stroke,
ZOH - ON-OFF PNEUMATIC Bottom Tank ZOG Long Stroke,
YOR - ON-OFF PNEUMATIC Bottom Tank YO Long Stroke,
ZRU - ZR USDA norm,
ZM - ON-OFF MANUAL with hand control,
ZM1 - ON-OFF MANUAL without hand control,
ZM1EX - ON-OFF MANUAL without hand control ATEX norm,
YM - ON-OFF MANUAL with hand control + steam barrier,
YM11 - ON-OFF MANUAL without hand control + steam barrier,
ZMF - ON-OFF MANUAL Bottom Tank with hand control,
ZMF1 - ON-OFF MANUAL Bottom Tank without hand control,
ZMFEX - ZMF ATEX norm,
ZMG - ON-OFF MANUAL Bottom Tank Flange Body with hand control;
ZMG1 - ON-OFF MANUAL Bottom Tank Flange Body without hand control,
ZMG1EX - ON-OFF Manual Bottom Tank Flange Body without hand control ATEX norm,
ZMU - ZM USDA norm,
ZM1U - ZM1 USDA norm,
ZMR - ON-OFF Manual Long Stroke with hand control,
ZMR1 - ON-OFF manual Long Stroke without hand control,
ZS1 - BY-PASS,
ZS1EX - ZS1 ATEX norm,
ZS5 - BY-PASS PISTON,
ZS5 - ZS5 ATEX norm,
ZSA - BY-PASS PNEUMATIC,
YS1 - BY-PASS + steam barrier,
YS5 - BY-PASS PISTON + steam barrier,
YSA - BY-PASS PNEUMATIC + steam barrier,
ZS1U - ZS1 USDA norm,
ZS5U - ZS5 USDA norm,
ZSAU - ZSA USDA norm,

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12/18/16 ZG

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| | ZK – Modulating Valve, ZKU - ZK norme USDA, YK – Modulating Valve + steam barrier, | | |
| 2 | <p>Double seat valves DN 25-100, Pmax 10 bar, Tmin -10°C, Tmax 140°C</p> <p>ZD910 with the following configurations: “L”, “TL”, “LT”, “TT”, “LLL”, “LLT”, “LTT”, “TTT”, “LTL”, A”TLT”, B”TTL”, C”TLL”.</p> <p>ZD920 with the following configurations: “L”, “TL”, “LT”, “TT”, “LLL”, “LLT”, “LTT”, “TTT”, “LTL”, A”TLT”, B”TTL”, C”TLL”.</p> <p>As your request the module include also the following that, as you declared, are the same configuration of main pressure parts: ZD910 - MIXPROOF with leakage, ZDA10 - ZD910 3A norm, ZD910EX - ZD910 ATEX norm, ZD910V - MIXPROOF + steam barrier ZD910B - MIXPROOF + C.I.P. , ZD910A - MIXPROOF with leakage + C.I.P. + steam barrier, ZD910C - MIXPROOF with 1 movement, ZD910K - MIXPROOF ZD910C + steam barrier, ZD910L - MIXPROOF + cleaning with 1 movement, ZD910M - MIXPROOF ZD910L + steam barrier, ZD920 - MIXPROOF without leakage, ZD920EX - ZD920 ATEX norm, ZD920V - MIXPROOF ZD920 + steam barrier, ZD920B - MIXPROOF ZD920+ cleaning, ZD920A - MIXPROOF ZD920 + cleaning + steam barrier, ZD920C - MIXPROOF ZD920 with 1 movement, ZD920K - MIXPROOF ZD920C + steam barrier, ZD920L - MIXPROOF ZD920 + cleaning with 1 movement, ZD920M - MIXPROOF ZD920L + steam barrier,</p> | <p>ZD910 “TT”</p> <p>DN 25 DN 50 DN 100</p> | <p>ZD910 “LT”</p> <p>DN 25 DN 100</p> <p><u>End Connections</u> DIN, SMS</p> |
| 3 | <p>B925 Double seat valves DN 25-100, Pmax 10 bar, Tmin -10°C, Tmax 140°C</p> <p>B925 with the following configurations: “L”, “TL”, “LT”, “TT”, “LLL”, “LLT”, “LTT”, “TTT”, “LTL”, A”TLT”, B”TTL”, C”TLL”.</p> <p>As your request the module include also the following that, as you declared, are the same configuration of main pressure parts: B925 - MIXPROOF B925, B925V - MIXPROOF B925 + steam barrier, B925B - MIXPROOF B925 + cleaning, B925A - MIXPROOF B925 + steam barrier +cleaning, ZL - MIXPROOF PMO norm, ZLB - MIXPROOF PMO norm + cleaning ,</p> | <p>B925 “TT”</p> <p>DN 40 DN 80</p> | <p>B925 “LT”</p> <p>DN 25 DN 100</p> <p><u>End Connections</u> DIN, SMS</p> |

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| 4 | <p>Butterfly valves DN 10-150, Pmax 10 bar, Tmin -10°C, Tmax 140°C</p> <p>ZVF</p> <p>As your request the module include also the following that, as you declared, are the same configuration of main pressure parts: ZVF – Pneumatic Butterfly, ZVFEX - ZVF ATEX norm, VVF – manual butterfly valve, VVFEX - VVF ATEX norm,</p> | <p>ZVF</p> <p>DN 15 DN 50 DN 150</p> | <p>ZVF</p> <p>DN 10 DN 150</p> <p><u>End Connections</u> DIN, SMS</p> |
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2.6. 12/8/16

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| <p>5 Double seat valves DN 25-100, Pmax 10 bar, Tmin -10°C, Tmax 140°C</p> <p>ZD911 with the following configurations: "L", "TL", "LT", "TT", "LLL", "LLT", "LTT", "TTT", "LTL", "A"TLT", "B" TTL", "C" TLL".</p> <p>ZD921 with the following configurations: "L", "TL", "LT", "TT", "LLL", "LLT", "LTT", "TTT", "LTL", "A"TLT", "B" TTL", "C" TLL".</p> <p>As your request the module include also the following that, as you declared, are the same configuration of main pressure parts:</p> <p>ZD911K - MIXPROOF ZD910K single two-chamber body, ZD911 - MIXPROOF ZD910 single two-chamber body, ZD911EX - ZD911 ATEX norm, ZD911V - MIXPROOF ZD910V single two-chamber body, ZD911B - MIXPROOF ZD910B single two-chamber body, ZD911A - MIXPROOF ZD910A single two-chamber body, ZD911C - MIXPROOF ZD910C single two-chamber body, ZD911L - MIXPROOF ZD910L single two-chamber body, ZD911M - MIXPROOF ZD910M single two-chamber body, ZD921 - MIXPROOF ZD920 single two-chamber body, ZD921EX - ZD921 ATEX norm, ZD921V - MIXPROOF ZD920V single two-chamber body, ZD921B - MIXPROOF ZD920B single two-chamber body, ZD921A - MIXPROOF ZD920A single two-chamber body, ZD921C - MIXPROOF ZD920C single two-chamber body, ZD921L - MIXPROOF ZD920L single two-chamber body, ZD921M - MIXPROOF ZD920M single two-chamber body, ZD921K - MIXPROOF ZD920K single two-chamber body,</p> | <p>ZD911 "TT"</p> <p>DN 25 DN 50 DN 100</p> | <p>ZD911 "LT"</p> <p>DN 25 DN 100</p> <p><u>End Connections</u> DIN, SMS</p> |
| <p>Single seat valves</p> <p>DN 10-150, Pmax 10 bar, Tmin -10°C, Tmax 140°C</p> <p>BBZP con le seguenti configurazioni: "L", "T", "LL", "TL", "LT", "TT", "V-45", "P7-LL", "P7-TL", "P7-LT", "P7-TT", "M8-LL", "M8-TL", "M8-LT", "M8-TT", "M8-LLL", "M8-LTL", "M8-LLT", "M8-LTT", "M8-TLL", "M8-TTL", "M8-TLT", "M8-TTT", "M9-LLL", "M9-LTL", "M9-LLT", "M9-LTT", "M9-TLL", "M9-TTL", "M9-TLT", "M9-TTT".</p> | <p>BBZP "T" DN10 DN50 DN150</p> | <p>BBZP "L" DN50</p> <p>BBZP "T" DN50</p> <p>BBZP "P7-TT" DN50</p> <p>BBZOG "T" DN50</p> |

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As your request the module include also the following that, as you declared, are the same configuration of main pressure parts:

BBZP ON-OFF PNEUMATICA, BBZT ON-OFF TWIN-STOP, BBYP ON-OFF PNEUMATICA + barr.vap., BBYT ON-OFF TWIN-STOP + barr.vap., BBZR ON-OFF PNE. CORSA MAGGIORATA, BBYR ON-OFF PNE. CORSA MAGGIORATA + barr.vap., BBZO ON-OFF PNEUMATICA FONDO, BBYO ON-OFF PNEUMATICA FONDO + barr.vap., BBZOG ON-OFF PNEUMATICA FONDO, BBYOG ON-OFF PNEUMATICA FONDO CORPOFLANGIA + barr.vap., BBZOR ON-OFF PNEUMATICA FONDO BBZO CORSA MAGGIORATA, BBZOH ON-OFF PNEUMATICA FONDO BBZOG CORSA MAGGIORATA, BBYOR ON-OFF PNEUMATICA FONDO BBYO CORSA MAGGIORATA, BBYOH ON-OFF PNEUMATICA FONDO BBYOG CORSA MAGGIORATA, BBZM ON-OFF MANUALE, BBYM ON-OFF MANUALE + barr.vap., BBZMF ON-OFF MANUALE FONDO, BBZMG ON-OFF MANUALE FONDO CORPOFLANGIA, BBYMF ON-OFF MANUALE FONDO + barr.vap., BBYMG ON-OFF MANUALE FONDO CORPOFLANGIA + barr.vap., BBZMR ON-OFF MANUALE CORSA MAGGIORATA, BBZS1 BY-PASS, BBYS1 BY-PASS + barr.vap., BBZS5 PNE TARABILE, BBYS5 PNE TARABILE + barr.vap., BBZPM PNE MODULANTE, BBYPM PNE MODULANTE + barr.vap., BBZK MODULANTE, BBYK MODULANTE + barr.vap., BBZPEX BBZP norme ATEX, BBZTEX BBZT norme ATEX, BBYPEX BBYP norme ATEX, BBYTEX BBYT norme ATEX, BBZREX BBZR norme ATEX, BBYREX BBYR norme ATEX, BBZOEX BBZO norme ATEX, BBYOEX BBYO norme ATEX, BBZOGEX BBZOG norme ATEX, BBYOGEX BBYOG norme ATEX, BBZOREX BBZOR norme ATEX, BBZOHEX BBZOH norme ATEX, BBYOREX BBYOR norme ATEX, BBYOHEX BBYOH norme ATEX, BBZMEX BBZM norme ATEX, BBYMEX BBYM norme ATEX, BBZMFEX BBZMF norme ATEX, BBZMGEX BBZMG norme ATEX, BBZMREX BBZMR norme ATEX, BBZS1EX BBZS1 norme ATEX, BBYS1EX BBYS1 norme ATEX, BBZKEX BBZK norme ATEX, BBYKEX BBYK norme ATEX

End Connections
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The following remarks has written considering that the valves material is an A182 F316L (AISI Listing)

1 Third part proof test inspection

Above valves witness proof test. The proof test will do in according with ASME VIII Div. 1 and the time test in according with API 598.

2 Design verification

Body and upper flange design in according to ASME VIII Div. 1.

Branch connection design in according to B31.3 or, better, ASME VIII Div. 1.

About Valve - Actuator triclamp connection we'll verify only the body valve design. The triclamp will consider only supplier certification.



z.c. 12/8/16