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Reference (7) in WSD 3321/00 Pt.1 T/J(308)

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8 May 2001

Gate Way Valve & Fitting Ltd.
Flat F, 22/F., Luk Hop Industrial Bldg.,
8 Luk Hop Street, San Po Kong,
Hong Kong.

(Attn.: Mr. Eric P. M. MUI)

Dear Sirs,

**Approval of
"AVK" Single and Double Check Valves**

Your letter ref. L-00110WA dated 5 May 2001 refers.

It is noted that the fittings described below have been examined, tested and accepted by the Water Research Centre (WRC) to have complied with the United Kingdom Water Byelaws Scheme when correctly installed:

Name of Manufacturer: J C Hansens Metalvarefabrik ApS

Country of Origin: Denmark

Name of Brand: AVK

(1) Details of Fittings: In-line single check valve assemblies consisting of a spring loaded resilient trim check valve cartridge (Watts Ocean type TK model IN, DN15) housed within a DZR brass body.

Size: JCH 90 - DN15 - 1/2" BSP female inlet/outlet.
JCH 94 - DN15 - 15mm compression inlet/outlet.

Product Designation: JCH 90 and JCH 94

Marking: Body stamped range name, size, direction of flow

Acceptance Reference No. B20010012

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香港灣仔告士打道七號
入境事務大樓

Immigration Tower
7 Gloucester Road
Hong Kong

供水百五年 服務客為先

arrow and DZR mark.

WRc Directory Ref. No.: 9501006

IRN 111.

- (2) **Details of Fittings:** In-line single check valve assemblies consisting of a spring loaded resilient trim check valve cartridge (Watts Ocean type TK model IN, DN20) housed within a DZR brass body.
- Size:** JCH 90 - DN20 - 3/4" BSP female inlet/outlet.
JCH 94 - DN20 - 22mm compression inlet/outlet.
- Product Designation:** JCH 90 and JCH 94
- Marking:** Body stamped range name, size, direction of flow arrow and DZR mark.

WRc Directory Ref. No.: 9501007

IRN 111.

- (3) **Details of Fittings:** In-line single check valve assemblies consisting of a spring loaded resilient trim check valve cartridge (Watts Ocean type TK model IN, DN25) housed within a DZR brass body.
- Size:** JCH 90 - DN25 - 1" BSP female inlet/outlet.
JCH 94 - DN25 - 28mm compression inlet/outlet.
- Product Designation:** JCH 90 and JCH 94
- Marking:** Body stamped range name, size, direction of flow arrow and DZR mark.

WRc Directory Ref. No.: 9501008

IRN 111.

- (4) **Details of Fitting:** In-line single check valve assembly consisting of a spring loaded resilient trim check valve cartridge (Watts Ocean type TK model IN, DN32) housed within a DZR brass body.
- Size:** DN32 - 1-1/4" BSP female inlet/outlet.
- Product Designation:** JCH 90
- Marking:** Body stamped range name, size, direction of flow arrow and DZR mark.

WRc Directory Ref. No.: 9501009

IRN 111.

- (5) **Details of Fitting:** In-line single check valve assembly consisting of a spring loaded resilient trim check valve cartridge (Watts Ocean type TK model IN, DN40) housed within a DZR brass body.
- Size:** DN40 - 1-1/2" BSP female inlet/outlet.
- Product Designation:** JCH 90
- Marking:** Body stamped range name, size, direction of flow arrow and DZR mark.

- (6) **Details of Fitting:** In-line single check valve assembly consisting of a spring loaded resilient trim check valve cartridge (Watts Ocean type TK model IN, DN50) housed within a DZR brass body.
- Size:** DN50 - 2" BSP female inlet/outlet.
- Product Designation:** JCH 90
- Marking:** Body stamped range name, size, direction of flow arrow and DZR mark.

- (7) **Details of Fittings:** In-line double check valve assemblies consisting of two spring loaded resilient trim check valve cartridges (Watts Ocean type TK model IN, DN15) housed within a DZR brass body with a hexagonal stainless steel test point between each check valve cartridge.
- Size:** JCH 902 - DN15 - 1/2" BSP female inlet/outlet.
JCH 942 - DN15 - 15mm compression inlet/outlet
- Product Designation:** JCH 902 and JCH 942
- Marking:** Body stamped range name, size, direction of flow arrow and DZR mark.

- (8) **Details of Fittings:** In-line double check valve assemblies consisting of two spring loaded resilient trim check valve cartridges (Watts Ocean type TK model IN, DN20) housed within a DZR brass body with a hexagonal stainless steel test point between each check valve cartridge.
- Size:** JCH 902 - DN20 - 3/4" BSP female inlet/outlet.
JCH 942 - DN20 - 22mm compression inlet/outlet
- Product Designation:** JCH 902 and JCH 942
- Marking:** Body stamped range name, size, direction of flow arrow and DZR mark.

- (9) **Details of Fittings:** In-line double check valve assemblies consisting of two spring loaded resilient trim check valve cartridges (Watts Ocean type TK model IN, DN25) housed within a DZR brass body with a hexagonal stainless steel test point between each check valve cartridge.
- Size:** JCH 902 - DN25 - 1" BSP female inlet/outlet.
JCH 942 - DN25 - 28mm compression inlet/outlet

Product Designation: JCH 902 and JCH 942

Marking: Body stamped range name, size, direction of flow arrow and DZR mark.

WRc Directory Ref. No.: 9501014

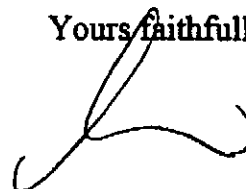
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In view of the acceptance by WRc, I have no objection to the use of the said fittings in fresh water supply plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the fittings to be installed should be replicas of the samples certified by WRc and no modification should be made to the fittings. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in fresh water supply plumbing systems.

For the use of the fittings in any project, the Acceptance Reference Number at the bottom of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Yours faithfully,

A handwritten signature in black ink, appearing to be 'David Chai', written over the closing 'Yours faithfully,'.

(CHAU Chi Wai, David)
for Water Authority