



**東業德勤測試顧問有限公司**  
**ETS-TESTCONSULT LIMITED**

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318 E-mail : etl@ets-testconsult.com  
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**Witnessed Report**

Information Provided by Customer

**Customer** : Gate Way Valve & Fitting Ltd.  
**Address** : Flat A2, 4/F, Galaxy Factory Building,  
25-27 Luk Hop Street, San Po Kong,  
Hong Kong  
**Subject** : Witnessed Hydrostatic Pressure Test of  
"AVK" Gate valves, Ball Check Valves and  
Swing Check Valve

Lab. Information

**Report No.** : PFA30105  
**Issue Date** : 21 February 2013  
**W. I. No.** : IN/3/1/44  
**ETL Lab. No.** : IN/3/0044/01  
**Page No.** : 1 of 2

As requested by "Gate Way Valve & Fitting Ltd.", witnessed hydrostatic pressure test of valves were carried out by "ETS-Testconsult Ltd." and with details & results as follows :

- 1.0) Date of witness** : 6-7 February 2013
- 2.0) Location of witness** : The customer's warehouse at Unit A. G/F, Galaxy Factory Bldg.,  
Luk Hop St., San Po Kong, Kowloon, Hong Kong
- 3.0) Applicable document** : BS 5163-1/ BS EN 1074-2 (Gate valves)  
EN 12050-4 (Ball check valves)  
BS 5153 (Swing check valve)  
MTRC's contract PS & the customer's instruction

**4.0) Test details & results**

4.1) For "AVK" brand, gate valves (seat tightness test only & two sides were tested in sequence)

Item no.	Product descriptions	Nominal size (mm)	Test Pressure & duration	Results	Remark
1	"AVK" brand, model no 02/40, cast iron gate valves with fusion bonded epoxy coated, resilient seated, stainless steel stem (AISI 420 – equivalent to EN10088-1.4021 / DIN X20 Cr13), hand-wheel operated, PN16	DN65	≥ 2.4 Mpa & 30 minutes	No visible leakage or failure of any kind was noted during the test	Acceptable
2		DN80			
3		DN100			
4		DN150			
5		DN200			
6	"AVK" brand, model no 02/40, cast iron gate valves with fusion bonded epoxy coated, resilient seated, stainless steel stem (AISI 316L – equivalent to EN10088-1.4404 / DIN X2 Cr Ni Mo17-12-2), hand-wheel operated, PN16	DN65	≥ 2.4 Mpa & 30 minutes	No visible leakage or failure of any kind was noted during the test	Acceptable
7		DN80			
8		DN100			
9		DN150			
10		DN200			



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### 4.2) For "AVK" brand, ball check valves (body & seat tightness test)

Item no.	Product descriptions	Nominal size (mm)	Test Pressure & duration	Results	Remark
11	"AVK" brand, model no 53/35, ductile iron flanged ball check valves with fusion bonded epoxy coated, resilient ball, (aluminium / ductile iron ball vulcanized with NBR rubber), PN16	DN65	$\geq 1.5$ Mpa for shell & seat, duration $\geq 30$ minutes	No visible leakage or failure of any kind was noted during the shell and seat test	Acceptable
12		DN80			
13		DN100			
14		DN150			
15		DN200			

### ~~4.3) For "AVK" brand, swing check valve (body & seat tightness tests)~~

Item no.	Product descriptions	Nominal size (mm)	Test Pressure & duration	Results	Remark
16	"AVK" brand, model no 41, ductile iron swing check valve with fusion bonded epoxy coated, resilient seated, PN16	DN150	$\geq 2.4$ Mpa for shell & seat, duration $\geq 30$ minutes	No visible leakage or failure of any kind was noted during the shell and seat tests	Acceptable

## 5.0) Attachment

5.1) The manufacturer's catalogue of valves (10 pages)

5.2) The calibration certificates of the (2) pressure gauges (CSA30237 & CSA30238 - 2 pages )

Note: The (2) pressure gauges were new bought equipments & taken back by the inspector to "ETL" for calibration after the completion of hydrostatic pressure test. The pressure gauges were found within acceptable accuracy for normal application as stated in the calibration certificates.

6.0) Witnessed and reported by : Mr. LAM, Ming Wah (ETL - Inspector)

Approved Signatory

  
WONG, Yiu Keung Tony