



Industrie Service

CERTIFICATE

Name of Applicant / Manufacturer: Kingdom Flow Control Co., Ltd.
Address: No.23-1,Nan-he West Rd., Nan-touTown, Zhongshan City, Guangdong Province 528427,P.R.China

The products satisfy the following requirements:

Leakage measurement in accordance with the type test set forth in EN 14432:2014

- Number of cycles: 1000 at RT without pressure and 10 at RT with 6 bar, conforming to section 7.5, EN 14432:2014
- Test pressure: 6 bar
- The required surface pressure in the sealing system is reached when the product is assembled in accordance with the operating manual
- Visual verification of the required surface pressure set forth in the operating manual
- Specified seal materials: composite sealing (e.g.TFM1600,TFM4215) for seat and plastic sealing(e.g. PTFE) for stem packing
- surface roughness, dimensions, shape and position tolerances in accordance with drawings

The products fulfils the requirements regarding pneumatic leak testing in according with EN 14432:2014, Section 7.4 , not exceed Rate A as defined in EN 12266-1:2012, Table A.5:

- No visually detectable leakage for the duration of the test
- Test medium: gas
- No air bubbles

Description of test valves:

| Type(according to applicant's drawings) | Pressure Rating | Td | Body material | Seat Materials | Size (tested) | Size(qualified) |
|---|-----------------|---------------------|-------------------|----------------|----------------|-----------------|
| KV-L20 | 1000WOG(PN63) | -29°C ~ 200°C | CF8M/CF8/WCB | TFM1600 | 1/4" and 3" | 1/4" to 3" |
| KV-L30,KV-L31,KV-L32 | 1000WOG(PN63) | | CF8M/CF8/WCB | TFM1600 | 1/4" and 4" | 1/4" to 4" |
| KV-L50,KV-L51 | 1000WOG(PN63) | | CF8M/CF8/WCB | TFM1600 | 1/2" and 2" | 1/2" to 2" |
| KV-L5KL,KV-L5KT | PN16 | | 1.4408/1.0619/WCB | TFM1600 | DN15 and DN100 | DN15 to DN100 |
| KV-L5NL,KV-L5NT | PN40 | | 1.4408/1.0619/WCB | TFM1600 | DN15 and DN100 | DN15 to DN100 |
| KV-L61 | Class150 | | CF8M/CF8/WCB | TFM1600 | 1/2" and 8" | 1/2" to 8" |
| KV-L62 | Class300 | | CF8M/CF8/WCB | TFM1600 | 1/2" and 8" | 1/2" to 8" |
| KV-L6K,KV-L6K-F1 | PN16 | | 1.4408/1.0619 | TFM1600 | DN15 and DN200 | DN15 to DN200 |
| KV-L6N,KV-L6N-F1 | PN40 | | 1.4408/1.0619 | TFM1600 | DN15 and DN200 | DN15 to DN200 |
| KV-L7K | PN16 | | 1.4408/1.0619 | TFM1600 | DN15 and DN150 | DN15 to DN150 |
| KV-L7N | PN40 | | 1.4408/1.0619 | TFM1600 | DN15 and DN150 | DN15 to DN150 |
| KV-L80,KV-L81,KV-L82 | 2000WOG(PN130) | | CF8M/CF8/WCB | TFM4215 | 1/4" and 1" | 1/4" to 1" |
| KV-L80,KV-L81,KV-L82 | 1500WOG(PN100) | | CF8M/CF8/WCB | TFM4215 | 1-1/4" and 2" | 1-1/4" to 2" |

The valve assembly pneumatic tightness test and cyclic test on above valves have been conducted for above mentioned manufacturer and witnessed by TÜV SÜD Engineer according to requirements of EN 14432:2014.

The valve qualification shall be limited to similar valves of same basic design and construction as the test valves and of the same nonmetallic materials as the test valve in the seat-to-closure member seal, seat-to-body seal, stem seal, and body joint and seal, etc.

Guangzhou, Mar., 31th, 2016
 (Place, date)


Mr. Jianlin Li
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