

Inspection Report

of

Bronze Regulating Valve

Location of inspection: Customer's warehouse at San Po Kong, H.K.

Date of inspection: 13 September 2014

To:
Gate Way Valve & Fitting Ltd.
(Attn: Mr. Thomas Kwong)

Inspected by:

W.K. Leung
(Inspector)

Approved by:

K.K. Ho
(Approved Signatory)

Inspection Report

Customer : Gate Way Valve & Fitting Ltd.
 Address : Flat A1, 4/F., Galaxy Factory Building, 25-27 Lup Hop Street, San Po Kong, Kowloon, H.K.
 Manufacturer : VIR Valvoindustria Ing. Rizzio S.p.A.
 Subject : Inspection of bronze regulating valve
 Assigned inspector : Mr. W.K. Leung

At the request of "Gate Way Valve & Fitting Ltd.", a local inspection of the manufactured products for installation at the project has been carried out with details as follow:

1. Date of inspection : 13 September 2014
2. Location of inspection : Customer's warehouse at San Po Kong, H.K.
3. Applicable standard (as agreed with customer) : BS EN12266-1 : 2012 and the manufacturer's drawing
4. Scope of works :
 - (1) Sampling for inspection
 - (2) Visual appearance check
 - (3) Dimensional measurement and marking check
 - (4) Witnessing hydrostatic pressure test
 - (5) Review of manufacturer's Q.C. documentation and verification of measuring & testing equipments for validity
 - (6) Conclusion
 - (7) Issue acceptance note
 - (8) Issue inspection report

5. Inspection details & results:-

(1) Sampling for inspection:

Item no.	Sample description	Nominal size (DN)	Quantity supplied (no.)	Quantity of sample for inspection	
				Hydrostatic pressure test (no.)	Other test (no.)
1	"vir" Fig 9505 variable orifice bronze double regulating valve thread F/F, PN25	15	1	1	1
2		20	1	1	1
3		25	1	1	1
4		32	1	1	1
5		40	1	1	1
6		50	1	1	1

Sampling procedure for the above inspection:-


- A) For hydrostatic pressure test
 - For lot size less than 20 nos, the sample size shall be equal to lot size. For lot size equal to or more than 20 nos, the sample size shall be 20 nos.
 - B) For other tests (Visual appearance, dimensional measurement & marking check)
 - Sample size shall be determined in accordance with BS 6001-1 : 1999 inspection level II, single sampling plan, A.Q.L. = 4.0
- (2) Visual appearance check
- There were no obvious defect observed on the inspected sample of bronze regulating valves and the passage surface of the valves do not have any metallic coating. They were all generally acceptable.

(3) Dimensional measurement & marking check

- The dimensions of the inspected samples were measured by the inspector. The actual dimensions were tabulated as following:

“vir” Fig 9505 variable orifice bronze double regulating valve

Item no.	Nominal size	Castco's identification mark on sample	H (mm)	L (mm)	B (mm)	øV (mm)
1	DN15	INS0140913-2-MISCEL-1-1 CAS-WK	90	90	17.6	70
2	DN20	INS0140913-2-MISCEL-2-1 CAS-WK	90	103	18.0	70
3	DN25	INS0140913-2-MISCEL-3-1 CAS-WK	91	110	19.2	70
4	DN32	INS0140913-2-MISCEL-4-1 CAS-WK	116	121	22.1	70
5	DN40	INS0140913-2-MISCEL-5-1 CAS-WK	117	143	24.0	70
6	DN50	INS0140913-2-MISCEL-6-1 CAS-WK	116	161	27.2	70

Marking :  1/2, 3/4, 1, 1 1/4, 1 1/2, 2 RGS → PN25

Note : The measured dimensions of the inspected samples were found to comply with the manufacturer's drawing by considering the deviations in some measured results will not affect the application..

(4) Witnessing hydrostatic pressure test

- All the inspected sample of bronze regulating valves were witnessed for hydrostatic pressure test by the inspector. There was no sign of leakage, sweating and defect observed during the tests and the test results were found to comply with the requirement of BS EN12266-1 : 2012.

Castco identification mark on sample	Nominal size (DN)	Shell Test		Seat Test	
		Pressure (MPa)	Duration (sec.)	Pressure (MPa)	Duration (sec.)
INS0140913-2-MISCEL-1-1 CAS-WK	15	3.75	15	2.75	15
INS0140913-2-MISCEL-2-1 CAS-WK	20				
INS0140913-2-MISCEL-3-1 CAS-WK	25				
INS0140913-2-MISCEL-4-1 CAS-WK	32				
INS0140913-2-MISCEL-5-1 CAS-WK	40				
INS0140913-2-MISCEL-6-1 CAS-WK	50				

(5) Review of manufacturer's Q.C. documentation and verification of measuring & testing equipments for validity

Appendix no.	Document type	Remark
A	Manufacturer's drawing	For review and information
B	Quality management system certificate of manufacturer to ISO 9001 : 2008	For review and check for validity
C	Calibration certificate of pressure gauge	Check for validity
D	Calibration certificate of measuring tape	Check for validity
E	Calibration certificate of vernier caliper	Check for validity

(6) Conclusion

- Based on our inspection results and reviewing the relevant documents, the bronze regulating valves for this delivery were found to comply with the requirements of BS EN12266-1 : 2012 and manufacturer's drawing respectively.

~ End of Report ~