



# APRAGAZ

Your Inspection Authority



REPORT n° : 21756/P04  
Operator Mr : T.Tielemans

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Belgium Ventiel N.V, Mechelen	Reference Mr. J. Van den Brande	
Apragaz	0401/P6550/003/sa	

General description of the work : Certification on prototype for ADR tank equipment  
Report concerning Certification of ball valve – Type BV 4  
Place of control Laboratory Apragaz Date 26/04/2004

At the request of the company BELGIUM VENTIEL n.v., Mr J. Van Brande located Blokhuisstraat, 24-Industriepark Noord 1 at 2800 Mechelen, we have carried out the examination of the prototype described in view of its certification in accordance with the requirements of R.D. of 09 march 2003 for the class 3,4,5,6,8 and 9.

**A. Category of the accessories :** Two parts split body ball valve

Manufacturer : BELGIUM VENTIEL n.v.  
Mark : BELGIUM VENTIEL n.v.  
Type : BV4-6666T-FS  
Drawing : Catalogus sheets from Belgium Ventiel (VER. BV/TF/01.01.0)  
( copy in our possession).  
Material : Body : 1.4408 (Stainless steel) ; Ball : 1.4408 (stainless steel) ; Stem : 1.4401 (stainless steel) ; Body seal : PTFE + GR ; Stempacking : PTFE + GR. And VITON ; Thrust : PTFE ; Ball seats : PTFE  
Diameter : DN 80  
The certification is required for all diameters from DN 15 to DN 25 and from DN40 to DN200  
Maximum operating pressure : 10 bar  
Temperature : from -20°C to + 170°C

**B. Description :**

The split body ball valves, type BV4-6666T-FS, are designed to be installed on tanks with diameter from DN 15 to DN 25 and from DN 40 to DN 200.

The valves are designed with a double seal system to permit an operation in both directions. The inlet and outlet connections are flanged connections with eight holes.

The handle is so positioned that it is perpendicular on the valve body in closing position.

**C. Tests and verifications :**

**C.1. Leak-proof verification:**

This has been verified with a hydraulic and pneumatic pressures of 2,4,6 and 10 bar applied to the valve in the two directions.

No leak of permanent deformation has been detected on the tested ball valve.

**C.2. Marking verification :**

C.2.1. On the handle :

The presented ball valve is marked on the handle as follow :

O

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C

BV

Belgium  
VentielC.2.2. On the body :

The presented ball valve is marked in the body as follow :

1 4408

SDD 40

BV

PN 16

DN80

CE0036

C.2.3. On the flange :

The presented ball valve is marked in the flange as follow :

760014 FS

3202 F4

PN16 04BD

C.2.4. Remark :

The marking on the valve need to be adapted to the requirements of the ADR and updated with the next elements :

- temperature range (-20°C - + 160°C)
- ADR class
- The complete type reference (BV4 – 6666T)

C.3. Material compatibility :

The split body ball valve, type BV4-6666T, can be used in ADR equipment for class 3,4,5,6,8 ar 9 which the valve for thr materials.

D. Conclusion :

No anomalies have been detected in regard of the safety after examination of the prototype conception and examination of the supplied documents.

The split body ball valves BV4-6666T to the prototype can be used in the previous limits of the ADR for the above mentionned fluids.

By using of the present agreement, the manufacturer and its representative are obliged to supply the valves without modification and with the same status of fabrication and finality as the prototype examine. All modification on the prototype made by the manufacturer must be submitted to a new examination.

Seen and approved on 29/04/2004  
Head Steam Department,  
Eng. P. De Hertefelt

