



VESS Ball Check Valves are a kind of check valves that acts automatically when the flow stops , thanks to the movement of the ball located inside the valve itself , that returns to initial position , stopping the flow . The ball check valve grant the full bore with the movement of the ball , without pressure drops . The mechanical works of these check valve creates optimal conditions inside the valve , the passage is never obstructed , and this kind of valve can be well used in case of flow with little powders. The ball check valves don't need any maintenance and are automatically cleaned.

Features

- Uniseat / seal of NBR or EDPM
- Balls is the only moving part . It unseats to permit flow in one direction but seals against seat to prevent backflow .
- Suitable for both horizontal and vertical installation .
- Minimum shut-off of 5 PSI
- Coated with powder epoxy both inside & outside for corrosion resistance

Pressure & Temperature

| | |
|-------------------------------|---------------|
| Pressure Rating | 16 bar |
| Hydraulic Shell Test Pressure | 24 bar |
| Hydraulic Seat Test Pressure | 17.6 bar |
| Working Temperature | - 10°C ~ 80°C |
| Suitable Medium | Raw water |



Technical Data

| | |
|------------------------|---------------------|
| Size Range | DN 50mm ~ DN 300mm |
| Manufacturing Standard | EN 13445 / EN 12334 |
| Flange Standard | BS EN 1092-2 |

Service Fields

Mainly used for dirty water , waste water treatment plants , plumbing stations , sewage and fluids with powders , sticky

Head Loss Chart

Fluid : water (1m H₂O = 0.098bar)

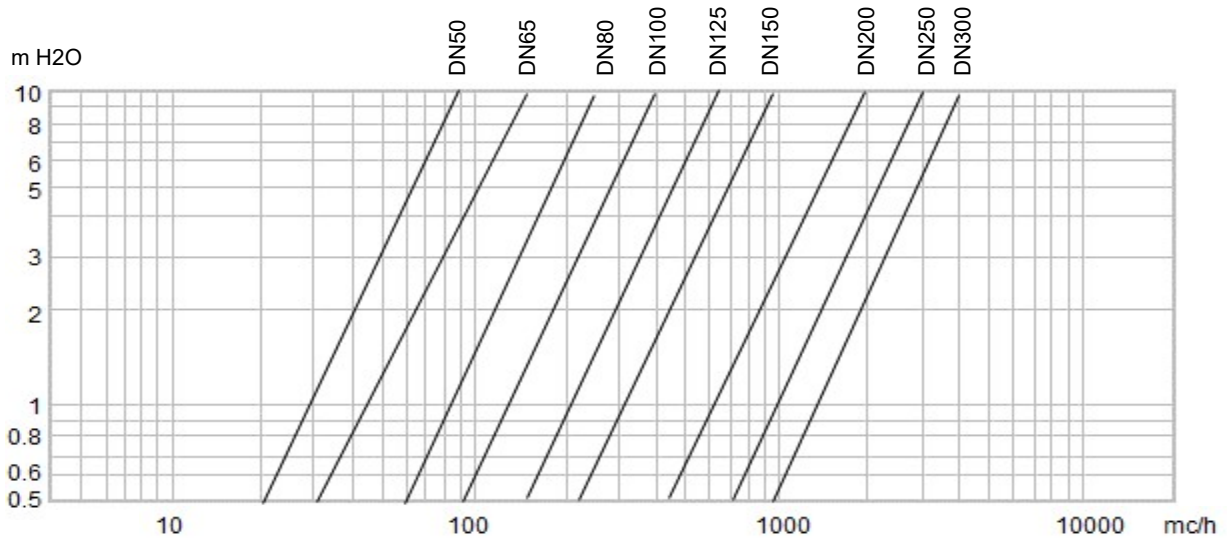


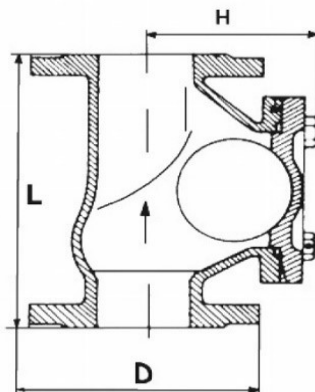
Tabella Kv-DN

| Size (DN) | Kv (m c/h) |
|-----------|------------|
| 50 | 90 |
| 65 | 140 |
| 80 | 253 |
| 100 | 396 |
| 125 | 642 |
| 150 | 962 |
| 200 | 1990 |
| 250 | 3100 |
| 300 | 4150 |

Material Specification

| Component | Material | Specification |
|--------------|-----------------------------|------------------------------|
| Body | Cast Iron / Ductile Iron | EN GJL 250 / EN GJL 500-7 |
| Cover | Cast Iron / Ductile Iron | EN GJL 250 / EN GJL 500-7 |
| Ball | Ductile Iron | EN GJL 500-7 |
| Ball Coating | Rubber | EPDM / NBR |
| Cover Gasket | Rubber | EPDM / NBR |
| Screw | Stainless Steel | 304S31 |

Note : 1. Other flange types available , specity on order.
2. Size 50mm to 150mm , ball material : Aluminium coated bu rubber.



Dimensions - Millimetres

| Size (DN) | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | 200 | 240 | 260 | 300 | 350 | 400 | 500 | 600 | 700 |
| H | 106 | 119 | 145 | 172 | 208 | 255 | 324 | 400 | 430 |
| D | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 395 | 445 |

* We reserve the right to alter specifications or dimensions without prior notice.

Distributed By :



Maxwell Valve Industry Sdn Bhd

Vess Valve Sdn Bhd (799530-K)
(922423-U)

No.26 , Jalan Utama 2/28 ,
Taman Perindustrian Puchong Utama.
47140 Puchong , Selangor Darul Ehsan , Malaysia

Tel : 60(3) 8060 3325

Fax : 60(3) 8060 3341

E-mail : sales@maxwellvalve.com

Web : www.maxwellvalve.com