**Sample Specification: EkoWodrol Elbow Ball Check Valve**

**General**

Check valves shall be 90-degree elbow ball check type. The vibration dampening elbow ball check valve shall consist of a self-cleaning, free-floating, NBR rubber coated ductile iron ball with precision-cast conical seating area, providing positive shut-off to API 598. The valve shall be fully open with a minimum fluid velocity 2,3 f/s (0,7 m/s), and maintain a constant resistance coefficient, K factor, throughout the entire range of flow.

**Valve Construction**

The valve body shall be a one-piece design minimizing wear points and leakage, with integral NPT tappings for heavy-duty 304SS bonnet studs. A one-piece oversized corner bonnet shall allow for optimal solids handling and a uniform flow profile with moulded ball channel guides. The serviceable valve bonnet shall allow for access to the entire length of the valve from inlet to discharge and be fastened to the valve body with 304SS hardware, sealed with a heavy gauge NBR O-ring within a tapered sealing area. The valve shall have FNPT end connections for 32mm to 50mm in diameter, with optional ANSI/ASME B16.1 Class 125 flange ends at 50mm in diameter. From 75mm to 300mm the valve shall be ANSI/ASME B16.1 Class 125 flanged ends. 32mm to 50mm valve castings shall be Cast Iron, ASTM A126 Class B; for 75mm to 300mm casting shall be Ductile Iron, ASTM A536 Grade 65-45-12. Heavy-duty bonnet studs, nuts and washers shall be Stainless Steel, ASTM A240 Grade 304. The valve body and bonnet shall have a fusion bonded epoxy RAL 5015 coating, a minimum of 200uM. The valve shall be pressure rated to 230 PSI, leak tested to 145 PSI, and hydrostatically shell tested to 230 PSI.

Approved manufacturer: EkoWodrol ball check valve or approved equal.