
PRODUCT SPECIFICATION – DURAPIPE SUPERFLO SYSTEM

DURAPIPE SUPERFLO PIPES

In accordance with the dimensional and testing requirements of DIN 8062, KIWA 49, ISO 161/1, and ISO DIS 15493 (where applicable). Pressure rating PN 10 at 20°C up to 250 mm. PN 8 at 20°C for 315 mm.

DURAPIPE SUPERFLO FITTINGS

In accordance with the dimensional and testing requirements of DIN 8063, KIWA 549, ISO 727 and ISO DIS 15493 (where applicable). Pressure rating PN 10 at 20°C up to 250 mm. PN 8 at 20°C for 315 mm.

MATCHED SYSTEM

Durapipe superFLO products shall be from a single manufacturer to ensure complete integrity, quality and compatibility between pipes, fittings and valves. Manufacturers warranties may be compromised if a system is installed with materials from various manufacturers. Where this is not possible then any alternative products should be confirmed as being at least equivalent to that which is normally supplied.

QUALITY SYSTEM

Pipes, fittings and valves shall be manufactured in an environment which operates a Quality Assurance System assessed to ISO 9001.

ENVIRONMENTAL SYSTEM

The manufacturer of pipes, fittings, and valves shall be able to demonstrate compliance with applicable environmental legislation and products shall be manufactured in an environment where documented performance reviews are undertaken and an Environmental Management System is successfully assessed to ISO 14001.

The manufacturer shall offer Durapipe superFLO solvent cements and cleaners, specially formulated to minimise any adverse effects on the environment during installation of the superFLO system.

THIRD PARTY APPROVALS

The manufacturer shall have the following Third Party Approvals:

WRAS Water Regulations Advisory Scheme

0012099 for Durapipe superFLO ABS Metric pipes and fittings

0009516 for Durapipe superFLO ABS solvent cement (5560)

0205509 for Durapipe thixotropic cement (5560)

DEPARTMENT OF HEALTH AND SOCIAL SECURITY

Renal Dialysis Applications

DET NORSKE VERITAS

BUREAU VERITAS

COLOUR/MATERIAL/FOOD CONTACT APPROVAL

Coloured mid-grey to DIN 2403, RAL 7001, all Durapipe superFLO materials shall conform to the EC requirements for plastics materials in contact with food stuffs, and requirements of the World Health Organisation for potable water transportation.

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APPROVAL FOR USE IN CONTACT WITH DRINKING WATER

Durapipe superFLO pipework up to property boundaries shall be approved by the Department of the Environment and the Welsh Office according to Regulation 31 and be included in the "List of Approved Products and Processes" as issued by the United Kingdom Drinking Water Inspectorate.

Additionally, within private property boundaries all superFLO pipes, fittings and solvent cement shall be listed in the Water Fittings and Materials Directory to show compliance with the requirements of the United Kingdom Water Regulations Advisory Service.

In any situation which could result in the Durapipe superFLO pipes, fittings and solvent cement coming into contact with water which is intended for human consumption these shall be in accordance with the requirements of BS 6920 Part 1 and listed in the United Kingdom, Water Fittings And Materials Directory.

Copies of certification of compliance with these approvals must be available for inspection.

DESIGN LIFE

Pipes, fittings and valves shall be designed to operate continuously for 50 years at their maximum rated pressure at a working temperature of 20°C.

Process Control Testing must be carried out during manufacture and documented on each and every production batch.

Fittings and Pipes will be subjected to a pressure test of 3.2 x maximum recommended working pressure for 1 hour at 20°C during 1st and 2nd hours of production, then every 6 hours for fittings and 8 hours for pipes.

Pipes are in addition to be impact tested after conditioning at 0°C for 1 hour. Fittings are in addition to be subject to stress relief testing at 150°C.

Pipes and fittings shall undergo dimensional, marking, and visual inspection at the frequency outlined above.

CHEMICAL SUITABILITY

The manufacturer shall publish detailed chemical resistance data to enable the suitability of the Durapipe superFLO material, seals, and gaskets to be determined by designers and specifiers.

The manufacturer shall also employ a qualified and experienced Chemist and provide a free-of-charge advisory service for assessing the suitability of its Durapipe superFLO material, seals, and gaskets.

DESIGN & INSTALLATION SPECIFICATION

The installation must be carried out by competent persons.

The contractor shall be required to provide technical documentation relating to the manufacturers recommended Design and Installation procedures.

The manufacturer shall publish Design and Installation recommendations, and shall also provide a free-of-charge training service for designers and installers, with appropriate written confirmation of attendance.

DURAPIPE SUPERFLO BALL VALVES

True union design, end load resistant with full pressure and shock resistant anti blow out device which conforms to design and endurance testing requirements of BS 5392 Part 1 1976, and DIN 3230 Part 3 Leak Rate One (Water and Air).

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The following testing will have been successfully completed:

Drop Tight and Bubble Tight test.
Hydrostatic Shell Test 1.5 x maximum working pressure
Seat Test 1.1 x maximum working pressure.

PRESSURE RATING

16 mm to 63mm – PN 16 at 20°C
75 mm to 110 mm – PN 10 at 20°C

SEATS AND SEALS

Seats: PTFE material fitted with O ring compensators. Seals: Standard size O ring type for ease of replacement. Available in EPDM or FPM materials.

END CONNECTIONS

Plain socket ends or BSP threaded.

ACTUATION

Options: Electric or Pneumatic.

DURAPIPE SUPERFLO BALL CHECK VALVES

These shall be single union with plain socket or BSP threaded end.

PRESSURE RATING

20 mm to 110 mm – PN10 at 20°C.

SEALS

Available in either EPDM or FPM.

DURAPIPE SUPERFLO BUTTERFLY VALVES

Reinforced Polypropylene body, fully lined, with ABS disc.
Full flanged design, with oval holes/inserts to suit various standard flange drillings.
Lever operated, with 10 x 10° position stops, and locking device

PRESSURE RATING

50 mm to 250mm – PN 10 at 20°C
315 mm – PN 8 at 20 °C

PRIMARY LINER

Available in EPDM, FPM, or NBR

ACTUATION

Electric, Pneumatic, or Gearbox (standard on sizes over 225 mm).

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