

Product Specification

METRIC RANGE

DURAPIPE SuperFLO ABS PIPES

KIWA 49, ISO 161/1, and ISO DIS 15493 (where applicable). Pressure rating PN10 at 20°C up to 250 mm. PN8 at 20°C for 315 mm.

DURAPIPE SuperFLO ABS FITTINGS

KIWA 549, ISO 727 and ISO DIS 15493 (where applicable). Pressure rating PN10 at 20°C up to 250 mm. PN8 at 20°C for 315 mm.

MATCHED SYSTEM

The ABS products shall be from a single manufacturer to ensure complete integrity, quality and compatibility between pipes, fittings and valves. Manufacturer's 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 ABS solvent cements and cleaners, specially formulated to minimise any adverse effects on the environment during installation of the ABS system.

THIRD PARTY APPROVALS

The manufacturer shall have the following Third Party Approvals:

WRAS Water Regulations Advisory Scheme

1505040 - Durapipe SuperFLO ABS Metric Pipe and Fittings
1509035 - Durapipe SuperFLO ABS VKD and VKR Ball Valves

APPROVAL FOR USE IN CONTACT WITH DRINKING WATER

All ABS 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.

Copies of certification of compliance with these approvals are available for inspection.

MARINE APPROVALS

American Bureau of Shipping
Bureau Veritas
Germanischer Lloyd
Det Norske Veritas
Lloyds register UK
RINA (Royal Institution of Naval Architects)
Russian Marine register

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 ABS 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 ABS material, seals, and gaskets.

INSTALLATION SPECIFICATION

The installation must be carried out by competent persons.

The contractor shall be required to provide technical documentation relating to the manufacturer's recommended Installation procedures.

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

DURAPIPE SuperFLO ABS 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).

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

16mm to 63mm - PN 16 at 20°C (VKD series), PN10 (VXE series)
75mm to 110mm - PN16 at 20°C (VKD series)

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 ABS DIAPHRAGM VALVES

Equipped with a maintenance free hand wheel actuator with spindle extension to indicate the position of the valve open or closed. The body retaining bolts are fixed from the underside, to provide a crevice free outer surface to prevent accumulation of debris or risk of corrosion of exposed steel bolts from chemical spillage.

Valves will have been hydrostatically pressure tested to the requirements of BS 5392 Part 1 1976, BS 5156, ISO 7508 and DIN 3230 Part 3 Leak Rate One.

PRESSURE RATING

20mm to 110mm - PN9 at 20°C

DIAPHRAGM TYPE

Choice of EPDM, FPM or PTFE will be available

END CONNECTION

These may be plain spigot ends or flanged

ACTUATION

Options: Pneumatic

DURAPIPE SuperFLO ABS BALL CHECK VALVES

These shall be double union with plain socket or BSP threaded ends.

PRESSURE RATING

20mm to 63mm - PN10 at 20°C

SEALS

Available in either EPDM or FPM

DURAPIPE SuperFLO ABS 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

50mm to 250mm - PN9 at 20°C
315mm - PN 8 at 20°C

PRIMARY LINER

Available in EPDM, FPM, or NBR

ACTUATION

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

IMPERIAL RANGE

DURAPIPE SuperFLO ABS PIPES

In accordance with the dimensional and testing requirements of BS 5391
Third Party Approved with British Standard Kitemark Licence
(where applicable).

DURAPIPE SuperFLO ABS FITTINGS

In accordance with the dimensional and testing requirements of BS 5392
Third Party Approved with British Standard Kitemark Licence
(where applicable).

MATCHED SYSTEM

The ABS products (see below) shall be from a single manufacturer to ensure complete integrity, quality and compatibility between pipes, fittings and valves. Manufacturer's 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 ABS solvent cements and cleaners, specially formulated to minimise any adverse effects on the environment during installation of the ABS system.

THIRD PARTY APPROVALS

The manufacturer shall have the following Third Party Approvals:

British Standard Kitemark Licence

KM07961 for Durapipe Inch pipes to BS 5391
KM07962 for Durapipe Inch fittings to BS 5392

WRAS Water Regulations Advisory Scheme

1212103 - Durapipe SuperFLO ABS Imperial Pipe and Fittings
1509035 - Durapipe SuperFLO ABS VKD and VKR Ball Valves

Department of the Environment

M & E 100 Standard Specification for Air Conditioning

MARINE APPROVALS

American Bureau of Shipping

APPROVAL FOR USE IN CONTACT WITH DRINKING WATER

All ABS 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. Copies of certification of compliance with these approvals are 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 ABS 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 service advisory service for assessing the suitability of its ABS material, seals and gaskets.

INSTALLATION SPECIFICATION

The installation must be carried out by competent persons.

The contractor shall be required to provide technical documentation relating to the manufacturer's recommended Installation procedures.

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

DURAPIPE SuperFLO ABS 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).

The following testing will have been successfully conducted:

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

Up to size 2" - PN15 (Class E) at 20°C (VKD series), PN10 (VXE series)

2½" to 4" - PN15 at 20°C (VKD series)

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 ABS DIAPHRAGM VALVES

Equipped with a maintenance free hand wheel actuator with spindle extension to indicate the position of the valve open or closed. The body retaining bolts are fixed from the underside, to provide a crevice free outer surface to prevent accumulation of debris or risk of corrosion of exposed steel bolts from chemical spillage.

Valves will have been hydrostatically pressure tested to the requirements of BS 5392 Part 1 1976, BS 5156, ISO 7508 and DIN 3230 Part 3 Leak Rate One.

PRESSURE RATING

½" to 4" - PN9 at 20°C

DIAPHRAGM TYPE

Choice of EPDM, FPM or PTFE will be available

END CONNECTION

These may be plain spigot ends or flanged

ACTUATION

Options: Pneumatic

DURAPIPE SuperFLO ABS BALL CHECK VALVES

These shall be double union with plain socket or BSP threaded ends.

PRESSURE RATING

½" to 2" - PN10 at 20°C

SEALS

Available in either EPDM or FPM

DURAPIPE SuperFLO ABS 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

1½" to 10" - PN9 at 20°C

12" - PN8 at 20°C

PRIMARY LINER

Available in EPDM, FPM, or NBR

ACTUATION

Electric, Pneumatic, or Gearbox (standard on sizes over 8")