

21. SANITARY APPLIANCES AND WATER FITTINGS

- 21-1) ASTM A377 - 03(2008)e1 ; Standard Index of Specifications for Ductile-Iron Pressure Pipe
- 21-2) ASTM A53 / A53M - 07 ; Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
- 21-3) ASTM A74 - 09 ; Standard Specification for Cast Iron Soil Pipe and Fittings
- 21-4) ASTM B209 - 07 ; Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- 21-5) ASTM B251 - 02e1 ; Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube
- 21-6) ASTM B302 - 07 ; Standard Specification for Threadless Copper Pipe, Standard Sizes
- 21-7) ASTM B306 - 09 ; Standard Specification for Copper Drainage Tube (DWV)
- 21-8) ASTM B42 - 02e1 ; Standard Specification for Seamless Copper Pipe, Standard Sizes
- 21-9) ASTM B42 - 02e1 ; Standard Specification for Seamless Copper Pipe, Standard Sizes
- 21-10) ASTM B429 / B429M - 06 ; Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube
- 21-11) ASTM B43 - 09 ; Standard Specification for Seamless Red Brass Pipe, Standard Sizes
- 21-12) ASTM B447 - 07 ; Standard Specification for Welded Copper Tube
- 21-13) ASTM B745 / B745M - 97(2005) ; Standard Specification for Corrugated Aluminum Pipe for Sewers and Drains
- 21-14) ASTM B75 - 02 ; Standard Specification for Seamless Copper Tube
- 21-15) ASTM B88 - 09 ; Standard Specification for Seamless Copper Water Tube
- 21-16) ASTM C14 - 07 ; Standard Specification for Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe
- 21-17) ASTM C425 - 04(2009) ; Standard Specification for Compression Joints for Vitrified Clay Pipe and Fittings
- 21-18) ASTM C443 - 05ae1 ; Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets
- 21-19) ASTM C508 / C508M - 00(2009)e1 ; Standard Specification for Asbestos-Cement Underdrain Pipe
- 21-20) ASTM C564 - 09a ; Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
- 21-21) ASTM C654 - 05a ; Standard Specification for Porous Concrete Pipe
- 21-22) ASTM C700 - 09 ; Standard Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated
- 21-23) ASTM C76 - 10a ; Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe

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- 21-24) ASTM D1527 - 99(2005) ; Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedules 40 and 80
- 21-25) ASTM D1785 - 06 ; Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
- 21-26) ASTM D1869 - 95(2005)e1 ; Standard Specification for Rubber Rings for Asbestos-Cement Pipe
- 21-27) ASTM D2235 - 04 ; Standard Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
- 21-28) ASTM D2239 - 03 ; Standard Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter
- 21-29) ASTM D2241 - 09 ; Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)
- 21-30) ASTM D2321 - 09 ; Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications ASTM D2464 - 06 Standard Specification for Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
- 21-31) ASTM D2466 - 06 ; Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40 ASTM D2467 - 06 Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
- 21-32) ASTM D2564 - 04(2009)e1 ; Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems
- 21-33) ASTM D2609 - 02(2008) ; Standard Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe
- 21-34) ASTM D2657 - 07 ; Standard Practice for Heat Fusion Joining of Polyolefin Pipe and Fittings
- 21-35) ASTM D2661 - 08 ; Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings
- 21-36) ASTM D2661 - 08 ; Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings
- 21-37) ASTM D2665 - 09 ; Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
- 21-38) ASTM D2672 - 96a(2009) ; Standard Specification for Joints for IPS PVC Pipe Using Solvent Cement
- 21-39) ASTM D2729 - 03 ; Standard Specification for Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings
- 21-40) ASTM D2737 - 03 ; Standard Specification for Polyethylene (PE) Plastic Tubing
- 21-41) ASTM D2751 - 05 ; Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings
- 21-42) ASTM D2846 / D2846M - 09b ; Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems
- 21-43) ASTM D2846 / D2846M - 09b ; Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems

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- 21-44) ASTM D2855 - 96(2010) ; Standard Practice for Making Solvent-Cemented Joints with Poly(Vinyl Chloride) (PVC) Pipe and Fittings
- 21-45) ASTM D2949 - 01a(2008)e1 ; Standard Specification for 3.25-in. Outside Diameter Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
- 21-46) ASTM D3034 - 08 ; Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings
- 21-47) ASTM D3139 - 98(2005) ; Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
- 21-48) ASTM D3212 - 07 ; Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals
- 21-49) ASTM F402 - 05 ; Standard Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings
- 21-50) ASTM F405 - 05 ; Standard Specification for Corrugated Polyethylene (PE) Pipe and Fittings
- 21-51) ASTM F409 - 02(2008) ; Standard Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
- 21-52) ASTM F437 - 09 ; Standard Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
- 21-53) ASTM F438 - 09 ; Standard Specification for Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
- 21-54) ASTM F441 / F441M - 09 ; Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
- 21-55) ASTM F442 / F442M - 09 ; Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)
- 21-56) ASTM F493 - 04 ; Standard Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings
- 21-57) ASTM F628 - 08 ; Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core
- 21-58) ASTM F628 - 08 ; Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core
- 21-59) ASTM F656 - 08 ; Standard Specification for Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings
- 21-60) ASTM F891 - 09 ; Standard Specification for Coextruded Poly(Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core
- 21-61) BDS 1111:1984 ; Centrifugally Cast (spun) Iron Pressure Pipes for Water, Gas and Sewage;
- 21-62) BDS 1162 : 2006 (1st revision) ; Ceramic wash basin and pedestal, ceramic wash basin and pedestals dimension, design & construction, type, permissible deviation
- 21-63) BDS 1163 : 1987 ; Specification for Vitreous Sanitary Appliances,
- 21-64) BDS 1356:1992 ; Specification for Ferrules for Water Services;

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- 21-65) BDS 1357: 1992 ; Specification for Washers with Fittings for Water Service;
- 21-66) BDS 1361 : 1992 ; Faucets
- 21-67) BDS 1361:1992 ; Faucets
- 21-68) BDS 1507 : 1995 ; Bib taps used in water supply
- 21-69) BDS 1508 : 1995 ; Stop taps used in water supply.Specifies the requirements, dimensions construction, materials and test methods of stop taps used in water supply.
- 21-70) BDS 1508:1995 ; Stop taps used in water supply.
- 21-71) BDS 1509:1995 ; Pillar taps used in water supply
- 21-72) BDS 1562:1997 ; Solvent cements for polyvinyl chloride (PVC) plastic pipe and fitting.
- 21-73) BDS 1593 : 1998 ; Plastic sanitary squatting pan
- 21-74) BDS 1593:1998 ; Plastic sanitary squatting pan
- 21-75) BDS 428:1964 ; Specification for Asbestos Cement Pressure Pipe;
- 21-76) BDS 429:1964 ; Specification for Asbestos Cement Building and Sanitary Pipes (under revision);
- 21-77) BDS 987 : 1981 ; Sand cast brass screw-down bib taps and stop taps for water services.
- 21-78) BDS EN 1112: 2009 ; Sanitary tapware - Shower outlets for sanitary tapware for water supply systems of type 1 and type 2 – General technical specification
- 21-79) BDS EN 1113: 2009 ; Sanitary tapware – Shower hoses for sanitary tapware for water supply systems of type 1 and type 2 – General technical specification
- 21-80) BDS EN 1254-2: 2009 ; Copper and copper alloys - Plumbing fittings – Part 2: Fittings with compression ends for use with copper tubes
- 21-81) BDS EN 14506: 2009 ; Devices to prevent pollution by backflow of potable water – Automatic diverter – Family H, type C
- 21-82) BDS EN 1717: 2009 ; Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow
- 21-83) BDS EN 200: 2009 ; Sanitary tapware — Single taps and combination taps for water supply systems of type 1 and type 2 — General technical specification
- 21-84) BDS EN 246: 2009 ; Sanitary tapware – General specifications for flow rate regulators
- 21-85) BDS EN 248: 2009 ; Sanitary tapware – General specification for electrodeposited coatings of Ni-Cr
- 21-86) BDS EN 681-1: 2008 ; Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 1: Vulcanized rubber
- 21-87) BDS EN 681-2 : 2008 ; Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 2: Thermoplastic elastomers
- 21-88) BDS ISO /TR 4191: 2008 ; Unplasticized polyvinyl chloride (PVC-U) pipes for water supply-Recommended practice for laying
- 21-89) BDS ISO 11413:2010 ; Plastics pipes and fittings — Preparation of test piece

assemblies between a polyethylene (PE) pipe and an electrofusion fitting BDS ISO 11414, Plastics pipes and fittings — Preparation of polyethylene (PE) pipe/pipe or pipe/fitting test piece assemblies by butt fusion

- 21-90) BDS ISO 1167-1 : 2008 ; Thermoplastics pipes fittings and assemblies for the conveyance of fluids - Determination of the resistance to internal pressure- Part 1: General method
- 21-91) BDS ISO 1167-2 : 2008 ; Thermoplastics pipes fittings and assemblies for the conveyance of fluids- Determination of the resistance to internal pressure-
- 21-92) BDS ISO 12176-2:2010 ; Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 2: Electrofusion
- 21-93) BDS ISO 12176-3:2010 ; Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 3: Operator's badge
- 21-94) BDS ISO 12176-4:2010 ; Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 4: Traceability coding
- 21-95) BDS ISO 13479:2010 ; Polyolefin pipes for the conveyance of fluids — Determination of
- 21-96) BDS ISO 13761:2010 ; Plastics pipes and fittings — Pressure reduction factors for polyethylene pipeline systems for use at temperatures above 20 °C
- 21-97) BDS ISO 13951:2010 ; Plastics piping systems — Test method for the resistance of polyolefin pipe/pipe or pipe/fitting assemblies to tensile loading
- 21-98) BDS ISO 13953:2010 ; Polyethylene (PE) pipes and fittings — Determination of the tensile strength and failure mode of test pieces from a butt-fused joint
- 21-99) BDS ISO 13954:2010 ; Plastics pipes and fittings — Peel decohesion test for polyethylene (PE) electrofusion assemblies of nominal outside diameter greater than or equal to 90 mm
- 21-100) BDS ISO 13955:2010 ; Plastics pipes and fittings — Crushing decohesion test for polyethylene (PE) electrofusion assemblies
- 21-101) BDS ISO 13957:2010 ; Plastics pipes and fittings — Polyethylene (PE) tapping tees — Test method for impact resistance
- 21-102) BDS ISO 14236:2010 ; Plastics pipes and fittings — Mechanical-joint compression fittings for use with polyethylene pressure pipes in water supply systems
- 21-103) BDS ISO 161-1 : 2008 ; Thermoplastics pipes for the conveyance of fluids Nominal outside diameters and Nominal Pressures- Part 1: Metric series
- 21-104) BDS ISO 161-2 : 2008 ; Thermoplastics pipes for the conveyance of fluids- Nominal outside diameters and Nominal Pressures- Part 2: Inch – based series
- 21-105) BDS ISO 1746 : 2008 ; Rubber or Plastics hoses and tubing-Bending tests
- 21-106) BDS ISO 18553:2010 ; Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds
- 21-107) BDS ISO 18553:2010 ; Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds Amendment 1:2010
- 21-108) BDS ISO 2505 : 2008 ; Thermoplastics pipes- Longitudinal reversion – Test method and parameters

- 21-109) BDS ISO 2507-2 : 2008 ; Thermoplastics pipes and fittings – Vicat softening temperature- Part 2: Test conditions for Unplasticized poly (Vinyl chloride) (PVC-U) or chlorinated poly (Vinyl chloride) (PVC-C) pipes and fittings and for high impact resistance poly (Vinyl chloride) (PVC-HI) pipes
- 21-110) BDS ISO 265-1 : 2008 ; Pipes and fittings of plastics materials- fittings for domestic and industrial waste pipes- Basic dimensions: Metric series- Part 1: Unplasticized Poly (Vinyl chloride) (PVC-U)
- 21-111) BDS ISO 3114: 2008 ; Unplasticized polyvinyl chloride (PVC) pipes for potable water supply-Extractability of lead and tin- Test method
- 21-112) BDS ISO 3126 : 2008 ; Plastics piping systems-Plastics components- Determination of dimensions
- 21-113) BDS ISO 3127: 2008 ; Thermoplastics pipes- Determination of resistance to external blows-Round – the - clock method
- 21-114) BDS ISO 3419: 2008 ; Non – alloy and alloy steel butt–welding fittings
- 21-115) BDS ISO 3458:2010 ; Assembled joints between fittings and polyethylene (PE)
- 21-116) BDS ISO 3459:2010 ; Polyethylene (PE) pressure pipes — Joints assembled with mechanical fittings — Internal under pressure test method and requirement
- 21-117) BDS ISO 3501:2010 ; Assembled joints between fittings and polyethylene (PE) pressure pipes — Test of resistance to pull-out
- 21-118) BDS ISO 3503:2010 ; Assembled joints between fittings and polyethylene (PE) pressure pipes — Test of leakproofness under internal pressure when subjected to bending
- 21-119) BDS ISO 3633: 2008 ; Plastics piping systems for soil and waste discharge (Low and high temperature) inside buildings- Specifications
- 21-120) BDS ISO 3822--1: 2009 ; Acoustics: Laboratory tests on noise emission from appliances and equipment used in water supply installations – Part 1: Method of measurement
- 21-121) BDS ISO 3822--2: 2009 ; Acoustics: Laboratory tests on noise emission from appliances and equipment used in water supply installations – Part 2: Mounting and operating conditions for draw-off taps and mixing valves
- 21-122) BDS ISO 3822--4: 2009 ; Acoustics: Laboratory tests on noise emission from appliances and equipment used in water supply installations – Part 4: Mounting and operating conditions for special appliances
- 21-123) BDS ISO 4065: 2008 ; Thermoplastics pipes- Universal wall thickness table
- 21-124) BDS ISO 4422-1: 2008 ; Pipes and fittings made of unplasticized poly (vinyl chloride) (PVC-U) for water supply - Specifications - Part 1: General
- 21-125) BDS ISO 4422-2: 2008 ; Pipes and fittings made of unplasticized poly (vinyl chloride) (PVC-U) for water supply - Specifications - Part 2: Pipes (with or without integral sockets)
- 21-126) BDS ISO 4422-3: 2008 ; Pipes and fittings made of unplasticized poly (vinyl chloride)(PVC-U) for water supply- Specifications - Part 3: Fittings and joints
- 21-127) BDS ISO 4422-4: 2008 ; Pipes and fittings made of unplasticized poly (vinyl chloride)

- (PVC-U) for water supply- Specifications- Part 4: Valves and ancillary equipment
- 21-128) BDS ISO 4422-5: 2008 ; Pipes and fittings made of unplasticized poly (vinyl chloride) (PVC- U) for water supply- Specifications- Part 5: Fitness for purpose of the system
- 21-129) BDS ISO 4427-1:2010 ; Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 1: General
- 21-130) BDS ISO 4427-1:2010 ; Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 1: General Technical corrigendum 1: 2010
- 21-131) BDS ISO 4427-2:2010 ; Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 2: Pipes
- 21-132) BDS ISO 4427-3:2010 ; Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 3: Fittings
- 21-133) BDS ISO 4427-5:2010 ; Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 5: Fitness for purpose of the system
- 21-134) BDS ISO 4433-3: 2008 ; Thermoplastics pipes- Resistance to liquid chemicals- Classification-Part 3: Unplasticized poly (vinyl chloride) (PVC-U), high- impact poly (vinyl chloride) (PVC-HI) and chlorinated poly (vinyl chloride) (PVC -C) pipes
- 21-135) BDS ISO 4435: 2008 ; Plastic piping systems for non- pressure underground drainage and sewerage- Unplasticized poly (vinyl chloride) (PVC-U)
- 21-136) BDS ISO 4439: 2008 ; Unplasticized polyvinyl chloride (PVC) pipes and fittings – Determination and specification of density
- 21-137) BDS ISO 5251: 2008 ; Stainless steel butt-welding fittings
- 21-138) BDS ISO 6259-1: 2008 ; Thermoplastics pipes- Determination of tensile properties- Part 1: General test method
- 21-139) BDS ISO 6259-2: 2008 ; Thermoplastics pipes- Determination of tensile properties- Part 2: Pipes made of unplasticized poly (vinyl chloride) (PVC-U), Chlorinated poly (vinyl chloride) (PVC-C), and high – impact poly (vinyl chloride) (PVC-HI)
- 21-140) BDS ISO 6761: 2008 ; Steel tubes – Preparation of ends of tubes and fittings for welding
- 21-141) BDS ISO 6964:2010 ; Polyolefin pipes and fittings — Determination of carbon black content by calcination and pyrolysis — Test method and basic specification
- 21-142) BDS ISO 6992: 2008 ; Unplasticized polyvinyl chloride (PVC-U) pipes for drinking water supply - Extractability of cadmium and mercury occurring as impurities
- 21-143) BDS ISO 9624:2010 ; Thermoplastics pipes for fluids under pressure — Mating dimensions of flange adapters and loose backing flanges
- 21-144) BS 1010 ; Specification for Draw-Off Taps and Stopvalves for Water Services;
- 21-145) BS 1125: 1987 ; Specification for WC Flushing Cisterns (Including Dual Flash Cisterns and Flush Pipes);
- 21-146) BS 1212 3 (Parts) ; Specification for Float Operated Valves (excluding floats);
- 21-147) BS 1244 ; Metal Sink for Domestic Purposes;
- 21-148) BS 1254:1981 ; Specification for C Seats (Plastics);

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- 21-149) BS 1329:1974 ; Specification for Metal Hand Rinse Basins;
- 21-150) BS 1415 (2 parts) ; Mixing Valves (Manullay Operated);
- 21-151) BS 1876: 1992(1977) ; Specification for Automatic Flushing Cistern for Urinals
- 21-152) BS 1968 ; Specification for Floats for Ball Valves (copper);
- 21-153) BS 2456: 1973 ; Specification for Floats for Ball Valves (plastic) for Cold and Hot Water
- 21-154) BS 3377:1985 ; Specification for Boilers for Use with Domestic Solid Mineral Fuel Appliances;
- 21-155) BS 5163: 1986 ; Specification for Predominantly Key-Operated Cast Iron Wedge Gate Valve for Water Works;
- 21-156) BS 5433: 1976 ; Specification for Underground Stop valves for Water Services (copper);
- 21-157) BS 843: 1976 ; Specification for Thermal Storage Electric Water Heaters;
- 21-158) BS 855:1976 ; Specification for Welded Steel Boilers for Central Heating and Indirect Hot Water Supply.
- 21-159) IS 404 (Part-I)-1993 ; Specification for Lead Pipes Part I for other than Chemical Purpose (third Revision);
- 21-160) ISO 160: 1980 ; Asbestos-Cement Pressure Pipes and Joints;
- 21-161) ISO 2531-1991 ; Ductile Iron Pipes, Fittings and Accessories for Pressure Pipelines;
- 21-162) ISO 392:1986 ; Asbestos-Cement Pipe Fittings for Building and Sanitary Purposes;
- 21-163) ISO 881:1980 ; Asbestos-Cement Pipes, Joints and Fittings for Sewerage and Drainage;