

BUREAU OF INDIAN STANDARDS

Program of Work

CED 50 : Plastic Piping System

Scope: STANDARDIZATION OF PIPES, FITTINGS AND AUXILIARIES INTENDED FOR THE TRANSPORT OF FLUIDS AND FOR CABLE DUCTING MADE FROM ALL TYPES OF PLASTIC MATERIALS INCLUDING REINFORCED PLASTICS METAL FITTINGS AND RUBBER GASKETS USED WITH PLASTIC PIPES. THE SCOPE FURTHER COVERS STANDARDIZATION FOR DIMENSIONS AND THEIR TOLERANCES, REQUIREMENTS AND TEST METHODS FOR CHEMICAL, MECHANICAL AND PHYSICAL PROPERTIES AS RELEVANT TO PARTICULAR APPLICATION AND CODES OF PRACTICES FOR LAYING AND INSTALLATION

Liaison: **ISO TC-138 (O):** *Plastics pipes, fittings and valves for the transport of fluids* **ISO TC-138 SC-1 (O):** *Plastics pipes and fittings for soil, waste and drainage (including land drainage)* **ISO TC-138 SC-2 (O):** *Plastics pipes and fittings for water supplies* **ISO TC-138 SC-3 (O):** *Plastics pipes and fittings for industrial applications* **ISO TC-138 SC-4 (O):** *Plastics pipes and fittings for the supply of gaseous fuels* **ISO TC-138 SC-5 (O):** *General properties of pipes, fittings and valves of plastic materials and their accessories -- Test methods and basic specifications* **ISO TC-138 SC-6 (O):** *Reinforced plastics pipes and fittings for all applications* **ISO TC-138 SC-7 (O):** *Valves and auxiliary equipment of plastics materials*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10124 (Part 1) : 2009 <i>Reviewed In : 2019</i> <i>ISO 1452-1:2009</i> <i>ISO 1452-4:2009</i>	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 1 General Requirements (Second Revision)	April, 2019	2	Not Equivalent
2	IS 10124 (Part 2) : 2009 <i>Reviewed In : 2019</i> <i>ISO 1452-1:2009</i> <i>ISO 1452-4:2009</i>	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 2 Specific Requirements for Sockets (Second Revision)	April, 2019	-	Not Equivalent
3	IS 10124 (Part 3) : 2009 <i>Reviewed In : 2019</i>	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 3 Specific Requirements for Straight Reducers (Second Revision)	April, 2019	-	
4	IS 10124 (Part 4) : 2009 <i>Reviewed In : 2019</i> <i>ISO 1452-1:2009</i> <i>ISO 1452-4:2009</i>	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 4 Specific Requirements for Caps (Second Revision)	April, 2019	-	Not Equivalent
5	IS 10124 (Part 5) : 2009	Fabricated PVC-U Fittings for Potable Water Supplies -	April, 2019	-	Not Equivalent

	Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Specification: Part 5 Specific Requirements for Equal Tees (Second Revision)			
6	IS 10124 (Part 6) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 6 Specific Requirements for Flanged Tail Pieces with Metallic Flanges (Second Revision)	April, 2019	-	Not Equivalent
7	IS 10124 (Part 7) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 7 Specific Requirements for Threaded Adaptors (Second Revision)	April, 2019	-	Not Equivalent
8	IS 10124 (Part 8) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 8 Specific Requirements for 90 Degree Bends (Second Revision)	April, 2019	-	Not Equivalent
9	IS 10124 (Part 9) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 9 Specific Requirements for 60 Degree Bends (Second Revision)	April, 2019	-	Not Equivalent
10	IS 10124 (Part 10) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 10 Specific Requirements for 45 Degree Bends (Second Revision)	April, 2019	-	Not Equivalent
11	IS 10124 (Part 11) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 11 Specific Requirements for 30 Degree Bends (Second Revision)	April, 2019	-	Not Equivalent
12	IS 10124 (Part 12) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification: Part 12 Specific Requirements for 22½ Degree Bends (Second Revision)	April, 2019	-	Not Equivalent
13	IS 10124 (Part 13) : 2009 Reviewed In : 2019	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 13 Specific Requirements for 11¼ Bends PART 12 SPECIFIC REQUIREMENTS FOR 22 ½ BENDS	April, 2019	-	
14	IS 12231 : 1987 Reviewed In : 2018	Specification for Unplasticized PVC Pipes for Use in Suction and Delivery Lines of Agricultural Pump Sets	May, 2018	1	
15	IS 12235 (Part 119) : 2004 Reviewed In : 2019	Thermoplastics Pipes and Fittings - Methods of Test (First Revision)	April, 2019	-	
16	IS 12709 : 1994 Reviewed In : 2019 ISO 10649:2017	Glass-Fibre Reinforced Plastics (GRP) Pipes, Joints and Fittings for Use for Potable Water Supply - Specification (First Revision)	April, 2019	5	Not Equivalent
17	IS 12818 : 2010 Reviewed In : 2021	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes	March, 2021	3	Indigenous

		for Bore/Tubewells - Specification (Second Revision)			
18	IS 13592 : 2013 Reviewed In : 2018	Unplasticized Polyvinyl Chloride (PVC-U) Pipes for Soil and Waste Discharge System Inside and Outside Buildings Including Ventilation and Rain Water System - Specification (First Revision)	May, 2018	2	
19	IS 13593 : 1992 Reviewed In : 2022	UPVC Pipe Fittings for Use with the UPVC Pipes in the Suction and Delivery Lines of Agricultural Pumps -Specification	June, 2022	1	
20	IS 13916 : 1994 Reviewed In : 2019	Installation of Glassfibre Reinforced Plastic (GRP) Piping System - Code Of Practice	April, 2019	-	
21	IS 14333 : 2022 ISO 8772	Polyethylene Pipes for Sewerage and Industrial Chemicals and Effluent - Specification (First Revision)		-	Not Equivalent
22	IS 14402 : 1996 Reviewed In : 2022 ISO 10467:2018	Glass Fibre Reinforced Plastics (GRP) Pipes, Joints and Fittings for Use for Sewerage, Industrial Waste and Water (Other than Potable) - Specification	January, 2022	2	Not Equivalent
23	IS 14735 : 1999 Reviewed In : 2019	Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings Including Ventilation and Rain Water System - Specification	April, 2019	5	
24	IS 14787 : 2000 Reviewed In : 2020	Unplasticized PVC Pipes (Ducts) and Fittings for Underground Telecommunications Cable Installation - Specification	March, 2020	1	Indigenous
25	IS 14885 : 2022 ISO 4437-1 and 2	Polyethylene Pipes for the Supply of Gaseous Fuels - Specification (First Revision)		-	Not Equivalent
26	IS 15265 : 2003 Reviewed In : 2018	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agricultural Pumps - Specification	May, 2018	2	Indigenous
27	IS 15328 : 2003 Reviewed In : 2018	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for Use in Underground Drainage and Sewerage Systems - Specification	May, 2018	7	
28	IS 15450 : 2022 ISO 21003-1 and 2	Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications (First Revision)		-	Not Equivalent
29	IS 15778 : 2007 Reviewed In : 2022 ISO 15877-1:2009 ISO 15877-2:2009	Chlorinated Polyvinyl Chloride (CPVC) Pipes for Potable Hot and Cold Water Distribution Supplies - Specification	June, 2022	4	Not Equivalent
30	IS 15801 : 2008 Reviewed In : 2022 ISO 15874-1:2014	Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification	June, 2022	1	Not Equivalent

	ISO 15874-2:2014				
31	IS 15927 (Part 1) : 2012 Reviewed In : 2022 ISO 4447-1:2014 ISO 4447-4:2014	Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification: Part 1 Fittings for Socket Fusion Using Heated Tools	January, 2022	-	Not Equivalent
32	IS 15927 (Part 2) : 2012 Reviewed In : 2022 ISO 4447-1:2014 ISO 4447-4:2014	Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification: Part 2 Spigot Fittings for Butt Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings	January, 2022	-	Not Equivalent
33	IS 15927 (Part 3) : 2011 Reviewed In : 2021	Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification: Part 3 Electro Fusion Fittings	March, 2021	-	
34	IS 16098 (Part 1) : 2013 Reviewed In : 2022	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage - Specification: Part 1 Pipes and Fittings with Smooth External Surface, Type A	June, 2022	2	
35	IS 16098 (Part 2) : 2013 Reviewed In : 2022	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage – Specification: Part 2 Pipes and Fittings with Non-Smooth External Surface, Type B	June, 2022	2	
36	IS 16130 : 2014 ISO 12162 : 2009 Reviewed In : 2019 ISO 12162 : 2009	Thermoplastics Materials for Pipes and Fittings for Pressure Applications - Classification, Designation and Design Coefficient		-	Identical under dual numbering
37	IS 16268 : 2017 ISO/TR 10358 : 1993 Reviewed In : 2022 ISO/TR 10358 : 1993	Plastic Pipes and Fittings - Combined Chemical-Resistance Classification Table	March, 2022	-	Identical under dual numbering
38	IS 16462 : 2016 ISO 9080 : 2012 Reviewed In : 2021 ISO 9080 : 2012	Plastic Piping and Ducting Systems - Determination of the Long-Term Hydrostatic Strength of Thermoplastics Materials in Pipe Form by Extrapolation	March, 2021	-	Identical under dual numbering
39	IS 16647 : 2017 Reviewed In : 2022 ISO 16422:2014	Oriented Unplasticized Polyvinyl Chloride (PVC-O) Pipes for Water Supply - Specification	June, 2022	1	Modified/Technically Equivalent
40	IS 17544 : 2022 ISO 13623:2000(E)	Multilayer (PE-AL-PE) Plastic Piping Systems for Indoor Gas Installations with a Maximum Operating Pressure up to and Including 500 kPa (5 bar) - Specification		-	Not Equivalent
41	IS 17546 : 2021 ISO 3514	Chlorinated Polyvinyl Chloride (C P V C) Fittings For Potable Hot And Cold Water Distribution Supplies – Specification		-	Not Equivalent

42	IS 4984 : 2016 Reviewed In : 2021 ISO 4427-1:2007 ISO 4427-2:2019	Polyethylene Pipes for Water Supply - Specification (Fifth Revision)	July, 2021	2	Not Equivalent
43	IS 4985 : 2021 ISO 1452-1 and ISO 1	Unplasticized PVC Pipes for Potable Water Supplies - Specification (Fourth Revision)		-	Not Equivalent
44	SP 57 : 1993 Reviewed In : 2016	Handbook on pipes and fittings for drinking water supply	March, 2016	-	Indigenous
45	IS 7634 (Part 1) : 1975 Reviewed In : 2022	Code of Practice for Plastics Pipe Work for Potable Water Supplies: Part 1 Choice of Materials and General Recommendations	June, 2022	2	
46	IS 7634 (Part 2) : 2012 Reviewed In : 2022	Plastics Pipes Selection, Handling, Storage and Installation for Potable Water Supplies - Code of Practice: Part 2 Laying and Jointing of Polyethylene (PE) Pipes (First Revision)	June, 2022	-	
47	IS 7634 (Part 3) : 2003 Reviewed In : 2018	Plastics Pipe Selection, Handling, Storage and Installation for Potable Water Supplies - Code of Practice: Part 3 Laying and Jointing of UPVC Pipes (First Revision)	May, 2018	-	
48	IS 7834 (Part 1) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 1 General requirements (First Revision)	May, 2018	1	
49	IS 7834 (Part 2) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 2 Specific Requirements for 45 Degrees Elbows (First Revision)	May, 2018	-	
50	IS 7834 (Part 3) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 3 Specific Requirements for 90 Degree elbows (First revision)	May, 2018	-	
51	IS 7834 (Part 4) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 4 Specific Requirements for 90 Degree Tees (First Revision)	May, 2018	-	
52	IS 7834 (Part 5) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies : Part 5 Specific Requirements for 45 degree Tees (First Revision)	May, 2018	-	
53	IS 7834 (Part 6) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 6 Specific Requirements for Sockets (First	May, 2018	-	

		Revision)			
54	IS 7834 (Part 7) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 7 Specific Requirements for Unions (First Revision)	May, 2018	-	
55	IS 7834 (Part 8) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 8 Specific Requirements for Caps (First Revision)	May, 2018	-	
56	IS 8008 : 2022 ISO 4427-1 and 3	Injection Moulded/Machined Polyethylene Fittings for Water Supply - Specification (Second Revision)		-	Not Equivalent
57	IS 8360 : 2022 ISO 4427-1 and 3	Fabricated Polyethylene Fittings for Water Supply - Specification (First Revision)		-	Not Equivalent
58	IS 9271 : 2004 Reviewed In : 2019	Unplasticized Polyvinyl Chloride (UPVC) Single Wall Corrugated Pipes for Drainage - Specification (First Revision)	April, 2019	3	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
1	CED 50 (21934)	Polypropylene PP Plastic Piping Systems for Soil and Waste Discharge within the Building Structure Part 1 Monolayer Polypropylene PP Plastic Piping System
2	CED 50 (21935)	Polypropylene PP Plastic Piping Systems for Soil and Waste Discharge within the Building Structure Part 2 Structured WallMultilayer Plastic Piping System

Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	CED 50 (19721)	Thermoplastics Pipes and Fittings Methods of Test Part 9 Resistance to External Blows Impact Resistance at 0 C Round-The-Clock Method First Revision
2	CED 50 (19725)	Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies Specification - Amendment No 5
3	CED 50 (19729)	Structured Wall Plastics Piping Systems for Non Pressure Drainage and Sewerage Specification Part 1 Pipes and Fittings with Smooth External Surface Type A - Amendment No 3
4	CED 50 (19730)	Structured Wall Plastics Piping Systems for Non Pressure Drainage and Sewerage Specification Part 2 Pipes and Fittings with Non Smooth External Surface Type B - Amendment no 3
5	CED 50 (19731)	Oriented Unplasticized Polyvinyl Chloride PVC-O Pipes for Water Supply - Specification Amendment No 2

6	CED 50 (19776)	Unplasticized non-pressure polyvinyl chloride PVC-U pipes for use in underground drainage and sewerage systems Specification
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Finalized Draft Indian Standard

Sl. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

Sl. No.	Doc No.	Title
1	CED 50 (15536)	Flexible Polyvinyl Chloride Lay Flat Hose for Agricultural use - Specification
2	CED 50 (15770)	Unplasticized Polyvinyl Chloride PVC-U Threaded Column Pipes for Borewells Tubewells - Specification
3	CED 50 (17357)	Unplasticized polyvinyl chloride PVC-U pipes Schedule 40 80 and 120 for distribution of pressurized liquids - Specification

Total Published Standards:58 Total Standards Under development:11

Aspect Wise Report

Product : 49
Code of Practices : 5
Methods of Test : 2
Terminology : 0
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 2
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 3076 : 1985	Low Density Polyethylene Pipes for Potable Water Supplies
2	IS 8008 (Part 1) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 1 general requirements for fittings First Revision
3	IS 8008 (Part 2) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 2 specific requirements for 90 deg bend First Revision
4	IS 8008 (Part 3) : 2003 Reviewed In : 2018	Injection Moulded Machined High Density Polyethylene HDPE Fittings for Potable Water Supplies - - Part 3 Specific Requirements for 90 TEES
5	IS 8008 (Part 4) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 4 specific requirements for reducers First Revision
6	IS 8008 (Part 5) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 5 specific requirements for ferrule reducers First Revision
7	IS 8008 (Part 6) : 2003 Reviewed In : 2018 ISO	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 6 specific requirements for pipe ends First Revision

	4427-1:2007 ISO 4427-4:2007	
8	IS 8008 (Part 7) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 7 specific requirements for sandwich flanges First Revision
9	IS 8008 (Part 8) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 8 specific requirements for reducing tees First Revision
10	IS 8008 (Part 9) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 9 specific requirements for ends caps First Revision
11	IS 8360 (Part 1) : 1977 Reviewed In : 2017	fabricated high density polyethylene HDPE fittings for potable water supplies Part 1 General requirements
12	IS 8360 (Part 2) : 1977 Reviewed In : 2017	fabricated high density polyethylene MDPE fittings for potable water supplies Part 2 Specific requirements for 90 degree tees
13	IS 8360 (Part 3) : 1977 Reviewed In : 2017	fabricated high density polyethylene HDPE fittings for potable water supplies Part 3 Specific requirements for 90 degree bends

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10124 (Part 1) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 1 General Requirements Second Revision
2	IS 10124 (Part 2) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 2 Specific Requirements for Sockets Second Revision
3	IS 10124 (Part 3) : 2009 Reviewed In : 2019	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 3 Specific Requirements for Straight Reducers Second Revision
4	IS 10124 (Part 4) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 4 Specific Requirements for Caps Second Revision
5	IS 10124 (Part 5) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 5 Specific Requirements for Equal Tees Second Revision
6	IS 10124 (Part 6) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 6 Specific Requirements for Flanged Tail Pieces with Metallic Flanges Second Revision
7	IS 10124 (Part 7) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 7 Specific Requirements for Threaded Adaptors Second Revision
8	IS 10124 (Part 8) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 8 Specific Requirements for 90 Degree Bends Second Revision
9	IS 10124 (Part 9) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 9 Specific Requirements for 60 Degree Bends Second Revision
10	IS 10124 (Part 10) : 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 10 Specific

	Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Requirements for 45 Degree Bends Second Revision
11	IS 10124 (Part 11) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 11 Specific Requirements for 30 Degree Bends Second Revision
12	IS 10124 (Part 12) : 2009 Reviewed In : 2019 ISO 1452-1:2009 ISO 1452-4:2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 12 Specific Requirements for 22 Degree Bends Second Revision
13	IS 10124 (Part 13) : 2009 Reviewed In : 2019	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 13 Specific Requirements for 11 oBends PART 12 SPECIFIC REQUIREMENTS FOR 22 o BENDS
14	IS 12231 : 1987 Reviewed In : 2018	Specification for Unplasticized PVC Pipes for Use in Suction and Delivery Lines of Agricultural Pump Sets
15	IS 12709 : 1994 Reviewed In : 2019 ISO 10649:2017	Glass-Fibre Reinforced Plastics GRP Pipes Joints and Fittings for Use for Potable Water Supply - Specification First Revision
16	IS 12818 : 2010 Reviewed In : 2021	Unplasticized Polyvinyl Chloride PVC-U Screen and Casing Pipes for Bore Tubewells - Specification Second Revision
17	IS 13592 : 2013 Reviewed In : 2018	Unplasticized Polyvinyl Chloride PVC-U Pipes for Soil and Waste Discharge System Inside and Outside Buildings Including Ventilation and Rain Water System - Specification First Revision
18	IS 13593 : 1992 Reviewed In : 2022	UPVC Pipe Fittings for Use with the UPVC Pipes in the Suction and Delivery Lines of Agricultural Pumps -Specification
19	IS 14333 : 2022	Polyethylene Pipes for Sewerage and Industrial Chemicals and Effluent - Specification First Revision
20	IS 14402 : 1996 Reviewed In : 2022 ISO 10467:2018	Glass Fibre Reinforced Plastics GRP Pipes Joints and Fittings for Use for Sewerage Industrial Waste and Water Other than Potable - Specification
21	IS 14735 : 1999 Reviewed In : 2019	Unplasticized Polyvinyl Chloride UPVC Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings Including Ventilation and Rain Water System - Specification
22	IS 14787 : 2000 Reviewed In : 2020	Unplasticized PVC Pipes Ducts and Fittings for Underground Telecommunications Cable Installation - Specification
23	IS 14885 : 2022 ISO 23162:2021	Polyethylene Pipes for the Supply of Gaseous Fuels - Specification First Revision
24	IS 15265 : 2003 Reviewed In : 2018	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agricultural Pumps - Specification
25	IS 15328 : 2003 Reviewed In : 2018	Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainage and Sewerage Systems - Specification
26	IS 15450 : 2022 ISO 5832-3: 2021	Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision
27	IS 15778 : 2007 Reviewed In : 2022 ISO 15877-1:2009 ISO 15877-2:2009	Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification
28	IS 15801 : 2008 Reviewed In : 2022 ISO 15874-1:2014 ISO 15874-2:2014	Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification
29	IS 15927 (Part 1) : 2012 Reviewed In : 2022 ISO 4447-1:2014 ISO 4447-4:2014	Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification Part 1 Fittings for Socket Fusion Using Heated Tools
30	IS 15927 (Part 2) : 2012 Reviewed In : 2022 ISO 4447-1:2014 ISO 4447-4:2014	Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification Part 2 Spigot Fittings for Butt Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings
31	IS 15927 (Part 3) : 2011	Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels -

	Reviewed In : 2021	Specification Part 3 Electro Fusion Fittings
32	IS 16098 (Part 1) : 2013 Reviewed In : 2022	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage - Specification Part 1 Pipes and Fittings with Smooth External Surface Type A
33	IS 16098 (Part 2) : 2013 Reviewed In : 2022	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage Specification Part 2 Pipes and Fittings with Non-Smooth External Surface Type B
34	IS 16647 : 2017 Reviewed In : 2022 ISO 16422:2014	Oriented Unplasticized Polyvinyl Chloride PVC-O Pipes for Water Supply - Specification
35	IS 17544 : 2022 ISO 14621-1:2019	Multilayer PE-AL-PE Plastic Piping Systems for Indoor Gas Installations with a Maximum Operating Pressure up to and Including 500 kPa 5 bar - Specification
36	IS 17546 : 2021 ISO 14403-2 : 2012	Chlorinated Polyvinyl Chloride C P V C Fittings For Potable Hot And Cold Water Distribution Supplies Specification
37	IS 4984 : 2016 Reviewed In : 2021 ISO 4427-1:2007 ISO 4427-2:2019	Polyethylene Pipes for Water Supply - Specification Fifth Revision
38	IS 4985 : 2021 IEC 62153-4-3: 2013	Unplasticized PVC Pipes for Potable Water Supplies - Specification Fourth Revision
39	IS 7834 (Part 1) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 1 General requirements First Revision
40	IS 7834 (Part 2) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 2 Specific Requirements for 45 Degrees Elbows First Revision
41	IS 7834 (Part 3) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 3 Specific Requirements for 90 Degree elbows First revision
42	IS 7834 (Part 4) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 4 Specific Requirements for 90 Degree Tees First Revision
43	IS 7834 (Part 5) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 5 Specific Requirements for 45 degree Tees First Revision
44	IS 7834 (Part 6) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 6 Specific Requirements for Sockets First Revision
45	IS 7834 (Part 7) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 7 Specific Requirements for Unions First Revision
46	IS 7834 (Part 8) : 1987 Reviewed In : 2018	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies Part 8 Specific Requirements for Caps First Revision
47	IS 8008 : 2022 ISO/PAS 50010 : 2023	Injection Moulded Machined Polyethylene Fittings for Water Supply - Specification Second Revision
48	IS 8360 : 2022 ISO/TS 50011 : 2023	Fabricated Polyethylene Fittings for Water Supply - Specification First Revision
49	IS 9271 : 2004 Reviewed In : 2019	Unplasticized Polyvinyl Chloride UPVC Single Wall Corrugated Pipes for Drainage - Specification First Revision