

DIN EN 17415-3:2021-11 (E)

District cooling pipes - Bonded single pipe systems for directly buried cold water networks - Part 3: Factory made steel valve assembly for steel or plastic service pipe, polyurethane thermal insulation and a casing of polyethylene

Contents		Page
	European foreword	3
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Requirements	6
4.1	Pressure ratings for valves	6
4.2	Service temperatures for valves	6
4.3	Steel parts	6
4.4	Casing	8
4.5	Polyurethane (PUR) foam thermal insulation	8
4.6	Valve assembly	8
4.7	Requirements for effective operation and maintenance	10
4.8	Resistance to axial forces and bending moments	10
5	Testing, test methods and test requirements	10
5.1	General	10
5.2	Test specimens	10
5.3	Steel parts	11
5.4	Casing	16
5.5	Polyurethane (PUR) foam thermal insulation	16
5.6	Valve assembly	16
5.7	Surveillance system	16
6	Marking	16
6.1	General	16
6.2	Steel valve	17
6.3	Casing	17
6.4	Valve assembly	17
7	Installation and maintenance	17
	Annex A (informative) Guidelines for inspection and testing	18
	Annex B (normative) Resistance to axial force and bending moment	20
	Annex C (normative) Resistance to bending forces	25
	Annex D (informative) Waste treatment and recycling	29