

DIN EN ISO 3949:2021-03 (E)

Plastics hoses and hose assemblies - Textile-reinforced types for hydraulic applications - Specification (ISO 3949:2020, Corrected version 2020-12)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Classification	6
5	Materials and construction	6
5.1	Hoses	6
5.2	Hose assemblies	6
6	Dimensions and tolerances	6
6.1	Diameters	6
6.2	Concentricity	7
7	Physical properties	7
7.1	Hydrostatic requirements	7
7.2	Change in length	8
7.3	Minimum bend radius	9
7.4	Resistance to impulse	9
7.5	Leakage of hose assemblies	9
7.6	Cold flexibility	10
7.7	Ozone resistance	10
7.8	Electrical conductivity	10
7.9	Fluid resistance	10
7.9.1	Test pieces	10
7.9.2	Oil resistance	10
7.9.3	Water-based fluid resistance	10
7.9.4	Water resistance	10
7.10	Visual examination	10
8	Frequency of testing	10
9	Designation	11
10	Marking	11
10.1	Hoses	11
10.2	Hose assemblies	11
11	Recommendations for packing and storage	11
12	Recommendations for length of supplied hoses and tolerances on lengths of hose assemblies	11
13	Test certificate	12

Annex A (normative) Type and routine testing of hoses	13
Annex B (informative) Production testing	14
Annex C (informative) Recommendations for lengths of supplied hoses and tolerances on lengths of hose assemblies	15
Annex D (normative) Test method for electrical conductivity	16
Bibliography	17