

DIN EN 857:2016-09 (E)

Rubber hoses and hose assemblies - Wire braid reinforced compact type for hydraulic applications - Specification

| Contents | | Page |
|-----------------------|--|-------------|
| Foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | Types of hoses | 5 |
| 4 | Materials and construction | 5 |
| 4.1 | Hoses | 5 |
| 4.2 | Hose assemblies | 5 |
| 5 | Dimensions | 5 |
| 5.1 | Diameters and concentricity | 5 |
| 5.2 | Length | 6 |
| 5.2.1 | Hoses | 6 |
| 5.2.2 | Hose assemblies | 6 |
| 6 | Requirements | 7 |
| 6.1 | Hydrostatic requirements | 7 |
| 6.2 | Minimum bend radius | 7 |
| 6.3 | Impulse test requirements | 8 |
| 6.4 | Leakage of hose assemblies | 8 |
| 6.5 | Cold flexibility | 8 |
| 6.6 | Adhesion between components | 8 |
| 6.7 | Vacuum resistance | 8 |
| 6.8 | Abrasion resistance | 9 |
| 6.9 | Fluid resistance | 9 |
| 6.9.1 | Test pieces | 9 |
| 6.9.2 | Oil resistance | 9 |
| 6.9.3 | Water based fluid resistance | 9 |
| 6.9.4 | Water resistance | 10 |
| 6.10 | Ozone resistance | 10 |
| 7 | Designation | 10 |
| 8 | Marking | 10 |
| 8.1 | Hoses | 10 |
| 8.2 | Hose assemblies | 10 |
| Annex A (normative) | Procedure for the measurement of abrasion | 11 |
| A.1 | Apparatus | 11 |
| A.2 | Method | 12 |
| A.3 | Test pieces | 12 |
| A.4 | Condition of test pieces | 12 |
| A.5 | Procedure | 13 |
| A.6 | Expression of results | 13 |
| A.7 | Test report | 13 |
| Annex B (normative) | Type and routine testing of production hoses | 15 |
| Annex C (informative) | Production acceptance testing | 16 |