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VALVOLE
COSTRUZIONE, MARCATURA E COLLAUDO
VALVES
MANUFACTURE, MARKING AND TESTING

STANDARD N° 2.8.008

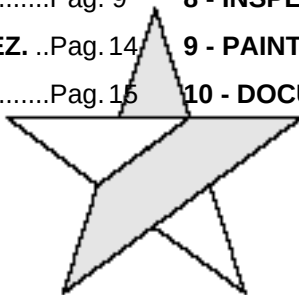
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1 - SCOPO

1.1 - La presente Norma tecnica definisce i requisiti generali ai quali il Fornitore di valvole per impianti fluidi dovrà attenersi nell'espletamento di forniture alla D&C.

2 - ABBREVIAZIONI

Nella presente Norma sono usate le seguenti abbreviazioni al fine di evitare lunghe denominazioni:

D&C: DANIELI & C. - Officine Meccaniche S.p.A.

3 - APPLICABILITA'

3.1 - La presente Norma tecnica sarà applicata dal Fornitore di valvole per impianti fluidi nelle attività di costruzione, controllo e collaudo delle valvole oggetto della fornitura, in tutti i casi in cui la stessa è specificamente richiamata nell'ordine di acquisto o suoi allegati.
Questa Norma sarà inoltre applicata dagli Ispettori della D&C nelle attività di controllo e collaudo presso il Fornitore o al ricevimento delle valvole presso la D&C.

3.2 - In caso di discordanza fra questa Norma, l'ordine di acquisto ed i data-sheets delle valvole, varrà quanto indicato in questi ultimi.

3.3 - Eventuali modifiche o deviazioni a quanto indicato in questa Norma tecnica dovranno essere autorizzate per iscritto dalla D&C.

4 - RIFERIMENTI

4.1 - Fanno parte integrante di questa Norma tecnica le norme nazionali ed internazionali di seguito elencate. Per l'applicabilità delle stesse si dovrà fare riferimento ai singoli data-sheets delle valvole, al testo della presente Norma e all'ordine di acquisto e suoi allegati.

A meno che non sia diversamente specificato nell'ordine di acquisto o suoi allegati, le norme sottoelencate saranno applicate nelle edizioni o revisioni in vigore alla data di emissione dell'ordine di acquisto.

- 4.2- API Spec. 6D
Specification for pipeline valves, end closure, connectors and swivels.
- API Spec. 6FA
Fire test for valves.
- API STD 594
Wafer type check valves.
- API STD 598
Valve inspection and test.
- API STD 599
Steel plug valves, flanged or butt welding ends.

1 - PURPOSE

1.1 - This technical Standard defines the main requirements to be met by the Supplier of valves for fluid systems when delivering these items to D&C.

2 - ABBREVIATIONS

In this document the following abbreviations are used to avoid full names:

D&C: DANIELI & C. - Officine Meccaniche S.p.A.

3 - FIELD OF APPLICATION

3.1 - This technical Standard shall be applied by the Supplier of valves for fluid systems in the manufacture, inspection and testing of the valves in the scope supply, whenever this Standard is specifically mentioned in the purchase order or in its enclosures.
This Standard shall be also applied by D&C's Inspectors in carrying-out inspection and testing of the valves at the Supplier's workshop or upon receipt of same at D&C's premises.

3.2 - In the case of any discrepancies between purchase order and data sheets of the valves, the contents of the latter shall prevail.

3.3 - Any changes to or deviations from the contents of this technical Standard must be approved in writing by D&C.

4 - REFERENCES

4.1 - The national and international standards specified herebelow are an integral part of this technical Standard. As to the applicability of these standards, reference is to be made to the individual data sheets of the valves, to this technical Standard and to the purchase order and its enclosures.

Unless otherwise specified in the purchase order or its enclosures, national and international standards mentioned herebelow shall be applied according to the editions or revisions in force at the time when the purchase order is issued.

- 4.2 - API Spec. 6D
Specification for pipeline valves, end closures, connectors and swivels.
- API Spec. 6FA
Fire test for valves.
- API STD 594
Wafer type check valves.
- API STD 598
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API STD 600
Steel gate valves, flanged or butt welding ends.

API STD 602
Compact carbon steel gate valves.

API STD 607
Fire test for soft seated ball valves.

API STD 609
Butterfly valves, lug type & wafer type.

API STD 600
Steel gate valves, flanged or butt welding ends.

API STD 602
Compact carbon steel gate valves.

API STD 607
Fire test for soft seated ball valves.

API STD 609
Butterfly valves, lug type & wafer type.

4.3 - ASME Boiler and Pressure Vessel Code
Section V:

- Article 2 - Radiographic examination
- Article 22 - Radiographic standards
- Article 7 - Magnetic particle examination
- Article 25 - Standard practice for magnetic particle examination
- Article 6 - Liquid penetrant examination
- Article 24 - Liquid penetrant Standards

Section IX:

- Qualification standard for welding & brazing procedures, welders, brazers and welding and brazing operators.

4.3 - ASME Boiler and Pressure Vessel Code
Section V:

- Article 2 - Radiographic examination
- Article 22 - Radiographic standards
- Article 7 - Magnetic particle examination
- Article 25 - Standard practice for magnetic particle examination
- Article 6 - Liquid penetrant examination
- Article 24 - Liquid penetrant Standards

Section IX:

- Qualification standard for welding & brazing procedures, welders, brazers and welding and brazing operators.

4.4 - ASME B 31.3
- Chemical plant and petroleum refinery piping -
Chapter VI - Inspection, examination and testing.

4.4 - ASME B 31.3
- Chemical plant and petroleum refinery piping -
Chapter VI - Inspection, examination and testing.

4.5 - AWWA C504-80
- Rubber seated butterfly valves.

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- Rubber seated butterfly valves.

4.6 - ASTM Standards for materials.

4.6 - ASTM standards for materials.

4.7 - B.S.1868
Steel check valves for the petroleum, petrochemical and allied industries.

4.7 - B.S.1868
Steel check valves for the petroleum, petrochemical and allied industries.

B.S.1873
Steel globe and globe stop and check valves for the petroleum, petrochemical and allied industries.

B.S.1873
Steel globe and globe stop and check valves for the petroleum, petrochemical and allied industries.

B.S. 5155
Cast iron and carbon steel butterfly valves for general purpose.

B.S. 5155
Cast iron and carbon steel butterfly valves for general purpose.

B.S. 5156
Screw down diaphragm valves for general purposes.

B.S. 5156
Screw down diaphragm valves for general purposes.

B.S. 5158
Cast iron and carbon steel plug valves for general purposes.

B.S. 5158
Cast iron and carbon steel plug valves for general purposes.

B.S. 5159
Cast iron and carbon steel ball valves for general purposes.

B.S. 5159
Cast iron and carbon steel ball valves for general purposes.

B.S. 5351
Steel ball valves for the petroleum, petrochemical and allied industries.

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Steel ball valves for the petroleum, petrochemical and allied industries.

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B.S. 5352
Steel wedge gate, globe and check valves NPS 2" and smaller for the petroleum, petrochemical and allied industries.

B.S. 6755
Testing of valves.

4.8 - MSS SP-6
Standard finishes for contact faces of pipe flanges and connecting end of valves and fittings.

MSS SP-25
Marking.

MSS SP-44
Steel pipe line flanges.

MSS SP-45
By-pass and drain connection standard.

MSS SP-53
Quality standard for steel casting and forging for valves and flanged fittings.

MSS SP-54
Quality standard for steel casting dry particle magnetic inspection method.

MSS SP-55
Quality standard for steel casting - visual inspection method.

MSS SP-61
Industrial valves - pressure test for carbon steel valves.

MSS SP-67
Butterfly valves.

MSS SP-70
Cast iron gate valves, flanged & THDD ends.

MSS SP-93
Quality Standard for Steel Castings and Forgings for Valves, Flanges, and Fittings and Other Piping Components - Liquid Penetrant Examination Method.

4.9 - NACE STD MR-01-75
Sulphide stress cracking resistant metallic materials for oil field equipment.

4.10 - DIN 2401 Part 12
Pressure containing piping components.

DIN 2501 Part 1
Flanges; connecting dimensions.

DIN 3230
Technical conditions of delivery for valves.

DIN 3202 Part 1
Face-to-face and centre-to-face dimensions; flanged valves.

DIN standards for materials.

B.S. 5352
Steel wedge gate, globe and check valves NPS 2" and smaller for the petroleum, petrochemical and allied industries.

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Standard finishes for contact faces of pipe flanges and connecting end of valves and fittings.

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4.9 - NACE STD MR-01-75
Sulphide stress checking resistant metallic materials for oil field equipment.

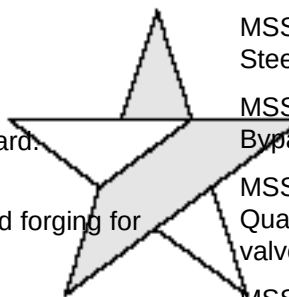
4.10 - DIN 2401 Part 12
Pressure containing piping components.

DIN 2501 Part 1
Flanges; connecting dimensions.

DIN 3230
Technical conditions of delivery for valves.

DIN 3202 Part 1
Face-to-face and centre-to-face dimensions; flanged valves.

DIN standards for materials.



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| <p>4.11 - EN 10204
Metallic products - Types of inspection documents.</p> <p>4.12 - ISO 5208
Industrial valves - pressure testing for valves.</p> <p>ISO 5752
Valves dimensions.</p> <p>ISO 5211/1
Part-turn valve actuator attachment - Part I: Flange dimensions.</p> <p>ISO 5209
Marking.</p> <p>4.13 - UNI 1284
Tubazioni - Pressioni d'esercizio massime ammissibili per tubazioni di materiali metallici ferrosi in funzione della PN e della temperatura.</p> <p>UNI 6884
Valvole di intercettazione e regolazione fluidi - Condizioni tecniche di fornitura e collaudo.</p> <p>UNI 7125
Saracinesche flangiate per condotte d'acqua. Condizioni tecniche di fornitura.</p> <p>UNI standards for materials.</p> <p>4.14 - ISO 8501-1
Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness.</p> <p>4.15 - Manufacturer standards.</p> <p>4.16 - Danieli standards or prescriptions.</p> | <p>4.11 - EN 10204
Metallic products - Types of inspection documents.</p> <p>4.12 - ISO 5208
Industrial valves - pressure testing for valves.</p> <p>ISO 5752
Valves dimensions.</p> <p>ISO 5211/1
Part-turn valve actuator attachment - Part I: Flange dimensions.</p> <p>ISO 5209
Marking.</p> <p>4.13 - UNI 1284
Piping - Pressure-temperature ratings for iron and steel pipes.</p> <p>UNI 6884
Shutting and regulation valves for fluids - Supply and test conditions.</p> <p>UNI 7125
Flanged gate valves for water pipelines. Technical condition for delivery.</p> <p>UNI standards for materials.</p> <p>4.14 - ISO 8501-1
Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness.</p> <p>4.15 - Manufacturer standards.</p> <p>4.16 - D&C standards or prescriptions.</p> |
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5 - MATERIALI

- 5.1 - I materiali dovranno essere in tutto conformi a quanto specificato nei singoli data-sheets delle valvole.
- 5.2 - Eventuali tabelle di equivalenza materiali che il Fornitore intendesse utilizzare, dovranno essere preventivamente approvate dalla D&C.
- 5.3 - E' consentita la sostituzione senza preventiva autorizzazione, di pezzi fusi con pezzi forgiati, ma non viceversa.
- 5.4 - Sarà fornita la certificazione dei materiali in conformità alla norma EN 10204, nella tipologia prevista nei singoli data-sheets delle valvole.
- La D&C si riserva il diritto di chiedere la ripetizione delle prove sui materiali impiegati nella costruzione delle valvole in conformità a quanto di seguito indicato.

5 - MATERIALS

- 5.1 - Materials must be in accordance with the indications shown in the individual data sheets of the valves.
- 5.2 - Any tables of material equivalence, which the Supplier intends to use must be previously approved by D&C.
- 5.3 - Cast pieces can be replaced by forgings without previous authorisation, but not conversely.
- 5.4 - The material certification must be supplied according to the EN 10204 standard, in the type stated in the data sheets of the individual valves.
- The D&C reserves the right to request the repetition of tests on the materials used for manufacturing the valves, according to what indicated below.

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