



## **R1 41 01 09      Technical Directive**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Author: G. Elffers

Issue: March 1998

Version 1.1

Intended for the Location IJmuiden

This is an unregistered document.

If this document is changed in the future, the amendments will not be sent to you.

The latest version can be retrieved via Intranet <http://teweb.hoogovens.com>

### Information on

Subject of document

Elffers

tel. +31 (0)251-4 97927

Standardisation

Standardisation office

tel. +31 (0)251-4 97693



R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**Contents:**

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

9.1. REPLACED CORUS-STANDARDS IN R1 41 01 01E ..... 12

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

9.2. CAD SYMBOLS LIBRARY .....65

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

9.3. REFERENCES ..... 77

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



9.4. STATEMENT .....92

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Blank page

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**9.1. Replaced Corus-standards in R1 41 01 01E**

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users

Part 9: Appendix

Number	Title document
	<p data-bbox="890 174 1452 286">Pneumatics directive for suppliers, erection companies, managers and users Part 9: Appendix</p>

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



**41.00.04.001**

Guidelines for suppliers of pneumatic equipment and/or installations

~~RI 41 01 09~~

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.80.001**

General directives for pneumatic installations

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

<b>41.00.80.002</b>	Requirements for drawings	<b>R1 41 01 09</b>
		<p>Pneumatics directive for suppliers, erection companies, managers and users Part 9: Appendix</p>

**41.00.80.200**

Energy distribution (piping)

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.201**

Pipe clamps

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.211

Jointless steel precision pipes

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.212

Zinc plated steel pipes

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.213

Copper pipes

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



41.00.01.214

Jointless steel precision pipes (stainless)

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.222**

Pipe fittings for precision pipes

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.224

Pipe fittings for copper pipes

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.225**

Screw in couplings with 60gr. taper and metric outside connection

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.226**

Hose nipples bend 90gr and with 60 gr taper and metric outside connection

~~R1 41 01 09~~

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.252**

Complete hoses for pneumatics

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.258

Quick action couplings

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.262**

Threaded flanges PN 16

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



**41.00.80.300**

Control general

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.304

Silencers

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.305**

Screw in filters

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.306**

Subplates and ganged subplates

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.307

Coverplates for ganged subplates

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.317

Directional control valves ISO 1, 5/2

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.324**

Directional control valves ISO 2, 5/2 and 5/3

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.329**

Directional control valves ISO 3, 5/2 and 5/3

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



**41.00.01.332**

Directional control valves ISO 4, 5/2 and 5/3

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.371**

Pressure reducing valves sandwich type (ISO)

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.372

Slow start valves

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.374**

Throttle non return valves, internally threaded

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.378

Throttle valves, sandwich type (ISO)

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Number	Title document
--------	----------------

Pneumatics directive for suppliers, erection companies, managers and users  
Part 9: Appendix



Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.381**

Non return valves, internally threaded

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.386**

Shuttle valves, internally threaded

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.388**

Quick exhaust valves

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.394**

Two way spherical plug valves (ball valves)

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.397**

Three way spherical plug valves (ball valves)

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.80.400**

Instructions for the design of cylinders for pneumatics

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.401**

Double acting cylinders for pneumatics

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



41.00.01.422

Air motors

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.535**

Pressure switches

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.621**

Equipment for conditioning of pressurised air

**R1 41 01 09**

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

41.00.01.777

Corrosion prevention

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**00.10.56.040**

Paint system 90 micron

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**00.10.56.070**

Paint system 200 micron

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.788**

Electrical wiring of units

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**41.00.01.799**

Standard valve cabinets

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**9.2. CAD Symbols library**

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

In our CAD-system the symbols and drawings according NEN 3348 are available.  
R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Corus manufactures drawings made by the Micro Cadam system (Helix),  
R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Symbols and drawings are available on request and are without any costs, only in case the  
R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

supplier have to make drawings for Corus Steel.

R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users

Part 9: Appendix



R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

For more information on compatibility with other CAD systems you can contact our CAD  
R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

application manager, tel. +31 0251-4 93850.

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

See also Technical Directive R1 05 80 02E, Corus CAD-Drawingrules.  
R1 41 01 09

Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

### 9.3. References

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

NEN 3348

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Technical Directive R1 05 80 02E

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Corus drawings

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

684.594

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

684.595

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

697.196

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

697.575

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



697.576

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

697.577

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

697.578.

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

**9.4. Statement**

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Version 1.0:

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

none.

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix



R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

Version 1.1:

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

logo has changed.

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix

R1 41 01 09  
Pneumatics directive for suppliers, erection  
companies, managers and users  
Part 9: Appendix