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21st March 2022

Declaration "Pressure Equipment Directive" (PED) 2014/68/EC"

On request we have been informed by the CETOP; European Oil Hydraulic and Pneumatic Committee via the NAM (Normenausschuss Maschinenbau im DIN e.V.), Fachbereich Fluidtechnik, Frankfurt that the Parker HPCE products for hydraulic and pneumatic applications are excluded from the PED.

(See enclosed notice CETOP Position Paper PP04 PED-2017-06-01)

The Parker HPCE products such as tube fittings, flanges, tubes, valves, ball valves, sensors, test points are covered by other harmonized European regulations and International standards (e.g. EG Machining Regulation 2006/42/EC, (DIN) EN 982 hydraulics, (DIN) EN 983 pneumatics, (DIN) EN/ISO 8434-1 tube fittings, (DIN) EN ISO 6162 flanges and fall under the rules of exception 1.c.ii article 4 of PED 2014/68/EU.

As a consequence tube fittings, valves, ball valves, test points, adapters and tubes do not require an EC declaration of conformity. A marking with the "CE" sign is not allowed on certain components.

The definition given in article 1 point 6 does not exclude the use of components that do not have PED conformity in equipment that fulfills PED requirements.

The use of such components in systems that are covered by the PED are common praxis on condition that

- the products are used within the application data (pressure, temperature.) specified in the HPCE catalogues
- the system was checked vs the relevant regulations (e.g. PED) before it is put into first operation.

Due to other EC Directives Senso Control sensors and measure equipment have the "CE" marking. The relevant EC declarations are e.g. 2014/30/EU).

The delivery of Parker assembly machines, Type EOMAT, Parflange and EO2-Form F3 includes CE marking and EC declaration of conformity.

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Special information for the application with combustible fluids and gases

The regulations for Parker HPCE products are assigned to the category "Fluid technology and general application".

The product requirements are the same or higher and are more detailed as the requirements in the PED (Pressure Equipment Directive). Therefore the use is also possible for pressure systems and systems with combustible fluids and gases without EC/PED-conformity declaration.

Following conditions have to be met:

- The products are to be used within the application data (pressure, temperature, fluid compatibility) specified in the HPCE catalogue.
- National or classification approval requirements approvals have to be met (e.g. a DVGW-approval or a DNVGL approval can be necessary). Specified medium regulations (e.g. TRF) have to be considered.
- Special material certificate could be necessary, depending on the way of getting approvals for assemblies or sub-assemblies.

Parker HPCE offers following options (please specify when ordering):

	Certification 2.2 accords. to DIN EN 10204	Inspection certificate 3.1.8 Accord. To DIN EN 10204	General material approvals	
			AD-leaflets 2000	Pressure equipment
Tubefittings				
Steel	X			
Stainless Steel	X	X	X	X
Valves				
Steel	X			
Tubes				
Steel	X	X	X	X
Stainless steel	X	X	X	X
Flanges				
Steel	X	X		
Stainless steel	X	X		

Parker Hannifin Manufacturing Germany GmbH & Co. KG (HPCE)

i.V. Andreas Udhöfer
 Division Engineering, Product Compliance
 Bielefeld, 2022.03.21

Encl: Cetop Position Paper PP04 PED



Gültig ab

Valid since: 1st June 2017

Valable depuis

Positionspapier

CETOP Position Paper

Position officielle

PP 04

EU DIRECTIVE "PRESSURE EQUIPMENT (2014/68/EU)

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CETOP POSITION PAPER CONCERNING EC DIRECTIVE “PRESSURE EQUIPMENT” (2014/68/EU)

General statement:

Liquids or gases used in fluid power do not meet the definition in Article 13, paragraph 1 (a) and are therefore not classified as “Group 1” fluids.

Liquids or gases used in fluid power refer to fluids of group 2 (see Annex A).

Fluid power components and systems are:**Excluded from the PED (see also Commission PED Guideline A-19¹)**

due to exclusion of Article 1 paragraph 2 (f) (e.g. Machinery Directive)

- piping and connecting devices for liquids of group 2 when $DN \leq 200$ whatever the pressure is, and when $DN > 200$ and $PS \leq 500$ bar
- piping and connecting devices for gas of group 2 when $DN \leq 100$ or $PS \times DN \leq 3500$ bar
- pressure accessories (e.g. filter housing) no higher than category I

due to exclusion of Article 1 paragraph 2 (j)

- fluid power actuators (motors, cylinders, ...)
- fluid power pumps
- fluid power control valves

Included in the PED

according to definitions (1), (2), (3) and (5) of Article 2

- accumulators
- piping and connecting devices for liquids of group 2 when $DN > 200$ and $PS > 500$ bar
- piping and connecting devices for gas of group 2 when $DN > 100$ and $PS \times DN > 3500$ bar
- pressure accessories (e.g. filter housing) higher than category I

¹Guidelines related to the Pressure Equipment Directive 2014/68/EU (PED):
<http://ec.europa.eu/DocsRoom/documents/17201>

**EC Directive
“Pressure Equipment” (2014/68/EU)**

Fluid power components and systems

Type of components	Excluded from the PED	Included in the PED
fluid power control valves	exclusion 2 (j) of article 1	-----
fluid power actuators (motors, cylinders, ...)	exclusion 2 (j) of article 1	-----
fluid power pumps	exclusion 2 (j) of article 1	-----
piping and connecting devices for liquids of group 2	when $DN \leq 200$ whatever the pressure is, and when $DN > 200$ and $PS \leq 500$ bar (exclusion 2 (f) of Article 1, e.g. machinery directive)	when $DN > 200$ and $PS > 500$ bar (definition (3) of Article 2 in combination with Annex II, Diagram 9)
piping and connecting devices for gas of group 2	when $DN \leq 100$ or $PS \times DN \leq 3500$ (exclusion 2 (f) of Article 1, e.g. machinery directive)	when $DN > 100$ and $PS \times DN > 3500$ (definition (3) of Article 2 in combination with Annex II, Diagram 7)
pressure accessories (e.g. filter housing)	no higher than category I (exclusion 2 (f) of Article 1, e.g. machinery directive)	higher than category I (definition (5) of Article 2)
accumulators	-----	definition (2) of Article 2

ANNEX 'A'**FINALISED CETOP POSITION PAPER
"PRESSURE EQUIPMENT DIRECTIVE – FLUIDS"**

Article 13 "Classification of pressure equipment" of the directive states:

"1. Pressure equipment referred to in Article 4(1) shall be classified by category in accordance with Annex II, according to an ascending level of hazard.

For the purposes of such classification fluids shall be divided into the following two groups:

(a) **group 1** consisting of substances and mixtures, as defined in points (7) and (8) of Article 2 of Regulation (EC) No 1272/2008, that are classified as hazardous in accordance with the following physical or health hazard classes laid down in Parts 2 and 3 of Annex I to that Regulation:

- (i) unstable explosives or explosives of Divisions 1.1, 1.2, 1.3, 1.4 and 1.5;
- (ii) flammable gases, category 1 and 2;
- (iii) oxidising gases, category 1;
- (iv) flammable liquids, category 1 and 2;
- (v) flammable liquids, category 3 where the maximum allowable temperature is above the flashpoint;
- (vi) flammable solids, category 1 and 2;
- (vii) self-reactive substances and mixtures, type A to F;
- (viii) pyrophoric liquids, category 1;
- (ix) pyrophoric solids, category 1;
- (x) substances and mixtures which in contact with water emit flammable gases, category 1, 2 and 3;
- (xi) oxidising liquids, category 1, 2 and 3;
- (xii) oxidising solids, category 1, 2 and 3;
- (xiii) organic peroxides types A to F;
- (xiv) acute oral toxicity, category 1 and 2;
- (xv) acute dermal toxicity, category 1 and 2;
- (xvi) acute inhalation toxicity, category 1, 2 and 3;
- (xvii) specific target organ toxicity – single exposure, category 1.

Group 1 comprises also substances and mixtures contained in pressure equipment with a maximum allowable temperature TS which exceeds the flashpoint of the fluid;

(b) **group 2** consisting of substances and mixtures not referred to in point (a)."

CETOP POSITION ON CLASSIFICATION OF FLUID WITH REGARD TO ARTICLE 13 OF THE PRESSURE EQUIPMENT DIRECTIVE:

Hydraulic fluids that are classified in **EN ISO 6743-4** "*Lubricants, industrial oils and related products (Class L) – Classification - Part 4: Family H (Hydraulic systems)*" do not meet the definitions given in Article 13, paragraph 1 (a) and are therefore not classified as 'Group 1' fluids.

When using any hydraulic fluid, the user should always refer to the material safety data sheet (MSDS), taking into account PED Commission Guideline B-41¹.

¹Guidelines related to the Pressure Equipment Directive 2014/68/EU (PED):
<http://ec.europa.eu/DocsRoom/documents/17201>