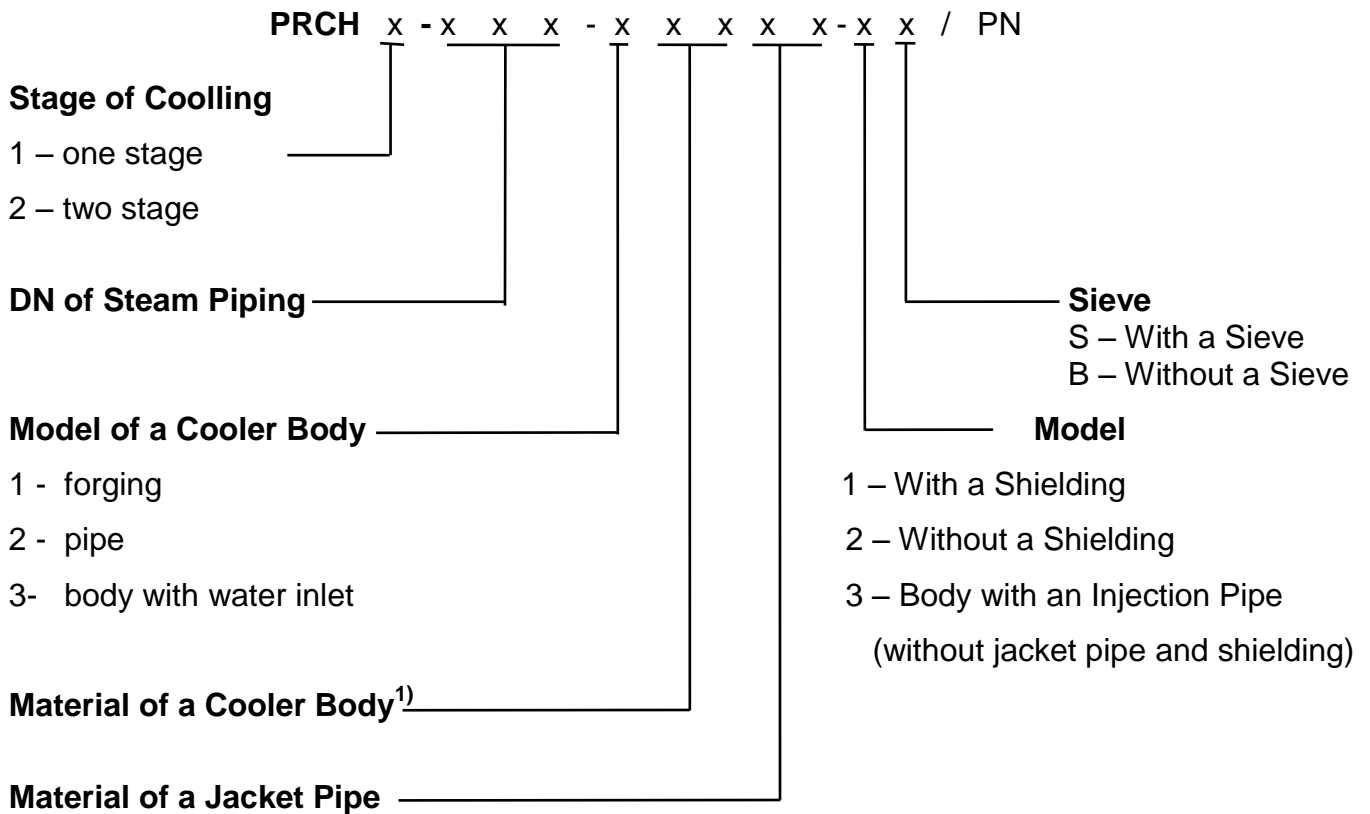
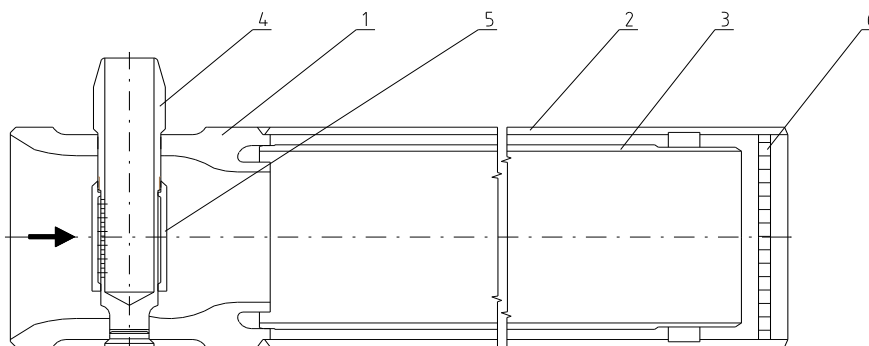


| Type | Abbreviation | Name | Labelling |
|-----------------------------|--------------|------------|------------------------|
| Cooler with a build-in edge | PRCH | Jet cooler | PRCH x-xxx-xxxxx-xx/PN |

Type Number Diagram

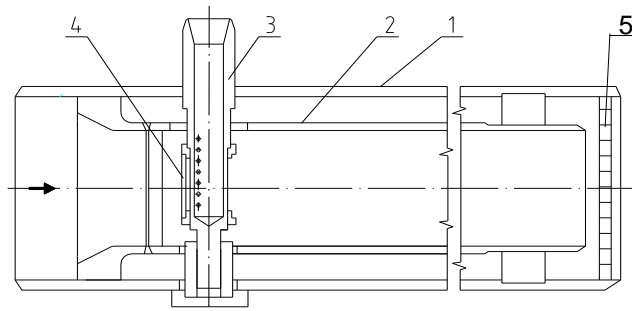


¹⁾ In case „Model of a Cooler Body“–code 2, material of pipe is stated in place of body material.



- 1 – Cooler Body
- 2 – Jacket Pipe
- 3 – Shielding
- 4 – Water Inlet
- 5 – Protective Pipe
- 6 - Sieve

Fig.3



- 1 – Cooler Body (Jacket Pipe)
- 2 – Shielding
- 3 – Water Inlet
- 4 – Protective Pipe
- 5 - Sieve

Fig.2

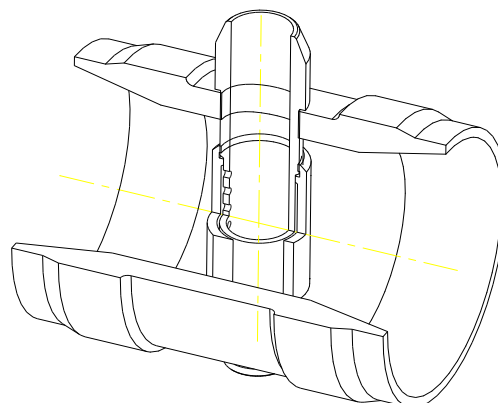
Description:

This cooler is designed for cooling of steam after a pressure reducing valve or in such applications where the loss in pressure is not important. The cooler consists of an inner structure (if we need to obtain higher rate of steam in a piping for perfect atomising of cooling water) which can form a protective shielding for some applications (Fig.2,3). In some cases, a cooler body (represented in a fig. by a jacket pipe) can also be of a forging with a water inlet and on the forging a jacket pipe is welded (Fig.2).

Furthermore, it is possible to create a so-called shortened version (model-3) – the body with water inlet is executed without a slip conduit and shielding, an eventual diffuser is executed in the cooler body (Fig. 1).

Supply and injection of water is carried out through an annulus formed by two pipes. Cooling water comes to the annulus through the certain number of openings in an inside pipe. The injected water is decomposed on a trailing edge of a respective water inlet where the water is primed to a steam flow. An outside pipe is a part of water injection so that the injected water is correctly atomised.

Fig.1





Labelling of used materials

| Material Quality (acc. to ČSN) | Equivalent acc. to DIN | Labelling | Material Quality (acc. to ČSN) | Equivalent acc. to DIN | Labelling | Material Quality (acc. to ČSN) | Equivalent acc. to DIN | Labelling |
|--------------------------------|------------------------|-----------|--------------------------------|----------------------------|-----------|--------------------------------|------------------------|-----------|
| 11 416.1 | P265GH | 16 | 15 020.1, .5 | 15 Mo 3 16 Mo 3 | 50 | 17 134.3 | X20CrMoV121 | 14 |
| 11 523.1 | St 52-3 | 13 | 15 121.5 | 13 CrMo 44 13 CrMo 45 | 51 | 17 248.4 | X6 CrNiTi 810 | 28 |
| 12 021.1 | St 35.8 | 21 | 15 128.5, .9 | 14 MoV 63 | 58 | 17 348.4 | X6 CrNiMoTi 17-12-2 | 38 |
| 12 022.1 | St 45.8 | 22 | 15 313.5 | 10 CrMo 910 11 CrMo 910 | 53 | | | |

| Material Quality (acc. to ČSN) | Equivalent acc. to ASTM | Labelling | Material Quality (acc. to ČSN) | Equivalent acc. to ASTM | Labelling | Material Quality (acc. to ČSN) | Equivalent acc. to ASTM | Labelling |
|--------------------------------|-------------------------|-----------|--------------------------------|-------------------------|-----------|--------------------------------|-------------------------|-----------|
| 11 416.1 | A 662 | 16 | 15 020.1, .5 | A 204-74 | 50 | 17 134.3 | - | 14 |
| 11 523.1 | A 572 | 13 | 15 121.5 | A 335 A 213 | 51 | 17 248.4 | A 240 | 28 |
| 12 021.1 | A 106 | 21 | 15 128.5, .9 | A 405-76 | 58 | 17 348.4 | A 276 | 38 |
| 12 022.1 | A 106-85 | 22 | 15 313.5 | A 335-75 A 336-75 | 53 | | | |

NOTE: A range of operating temperatures and pressures for materials are specified in the following standard:
ČSN 13 0010 - Nominal pressures and working overpressures.

This standard is valid only for materials acc. to ČSN.
The labelling is valid only for materials acc. to ČSN.