

2.5 steelPRES press fittings

steelPRES press fittings are made of unalloyed steel with material number E 195 (material n° 1.0034) up to 108 mm outer diameter. A galvanic zinc coating with a thickness of $6 \div 12 \mu\text{m}$ protects against external corrosion. Unlike the **inoxPRES** press fittings, **steelPRES** fittings are indelibly marked in red with the manufacturer name, diameter and internal code. The black EPDM sealing ring used for **inoxPRES** is also fitted into the formed ends of the press fittings.



Figure 8 – steelPRES press fitting

2.6 steelPRES piping

steelPRES pipes are longitudinally welded thin-walled precision steel tubes according to DIN EN 10305-3. The following materials are available:

- > E 220 CR2S4 (material no 1.0215) pipes galvanised on the outside, the zinc coating is $6 \div 12 \mu\text{m}$;
- > E 190 CR2S4 (material no 1.0031) pipes are sendzimir-galvanised on both sides; the zinc coating is $10 \div 20 \mu\text{m}$.

The weld seam is smoothed in order to ensure a proper sealing surface. **steelPRES** pipes with PP – coat 1 mm thick, available in diameters ranging from 12 mm to 108 mm outer diameter (material E 220 CR2S4 – n° 1.0215), are classified in accordance with DIN 4102-1 building material class B2 – non-burning droplets.

steelPRES tube with PP-coating: maximum operating temperature of 120° C.

steelPRES pipes are supplied in lengths of 6 meters.

TABLE 2: STEELPRES PIPES - DIMENSIONS AND CHARACTERISTICS

Pipe outside diameter x wall thickness in mm	Nominal width DN	Pipe inside diameter in mm	Mass in kg/m	Water volume in l/m	Pipe Outside diameter in mm
without PP-coating				with PP coating	
12 x 1,2	10	9,6	0,320	0,072	14
15 x 1,2	12	12,6	0,408	0,125	17
18 x 1,2	15	15,6	0,497	0,191	20
22 x 1,5	20	19	0,824	0,284	24
28 x 1,5	25	25	1,052	0,491	30
35 x 1,5	32	32	1,320	0,804	37
42 x 1,5	40	39	1,620	1,194	44
54 x 1,5	50	51	2,098	2,042	56
76,1 x 2	65	72,1	3,652	4,080	78,1
88,9 x 2	80	84,9	4,290	5,660	90,9
108 x 2	100	104	5,230	8,490	110