



TUBES, SUPPLY & RETURN LINES



HEATING &
COOLING MATS

PREFABRICATED
PRODUCTS

TUBES, SUPPLY &
RETURN LINES

CONNECTION
COMPONENTS

FITTINGS

MEASUREMENT &
CONTROL TECHNOLOGY

SYSTEM SEPERATION
PLASTIC MANIFOLD

FIXING
MATERIAL

TOOLS &
ASSEMBLY KIT

5 Tubes, Supply & Return Lines

5.1 TUBES

Clina tubes made of Polypropylene are suitable for many purposes e.g., they can be used for the connection of the Clina capillary tube mats to the floor manifolds.

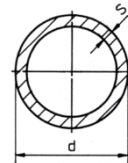
All Clina PP pipes comply with pressure rating PN 10 / SDR 11. The dimensions and quality requirements comply with DIN 8077, DIN 8078 and DIN EN ISO 15874.

The assembly of PP pipes is simple, fast, clean and safe (no open flames) due to the heating element socket welding process. A 100% homogeneous joint of the same material is created, so that both parts are really one piece molecularly homogeneous after the welding process. Basically, only the same types of plastic may be welded together.

For the professional assembly of PP pipes, a pipe cutter and a socket welding device with exchangeable heating elements in the different dimensions are required.

TECHNICAL DATA

DESCRIPTION	pipes PN 10
MATERIAL	PP-R
COULOUR	blue



ITEM NO.	DIMENSIONS				PU
	D	DN	S	L	
R 20	20	15	2,0	4 m	4 m
R 25	25	20	2,3	4 m	4 m
R 32	32	25	3,0	4 m	4 m
R 40	40	32	3,7	4 m	4 m
R 50	50	40	4,6	4 m	4 m
R 63	63	50	5,8	4 m	4 m

Order example

Outer diameter d = 20 mm, quantity 40 m (tube à 4,0 m)

Item No.: R 20 . 4000 quantity: 10 pcs.

5.2 Supply & Return Lines

Clina Supply & Return Lines are used in such heating and cooling systems where Clina Capillary Tube Mats with connecting hoses are used, as for installations in suspended ceilings and metal panel ceilings.

The Clina Supply & Return Lines serve the internal tubing of the Clina Capillary Tube Mats in the room.

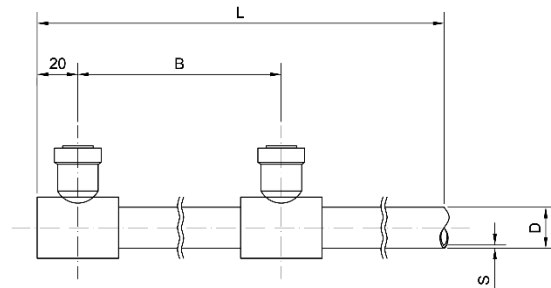
As a standard design, these Supply & Return Lines are made from a tube with the sizes 20 x 2,0 mm.

Subject to the machine fabrication of the Supply & Return Lines 20 x 2,0 mm, the smallest possible **gauge size (B)** between the push-lock connections is a **minimum of 200 mm!**

Smaller gauge sizes ($B < 200$ mm) are only available as customised products.

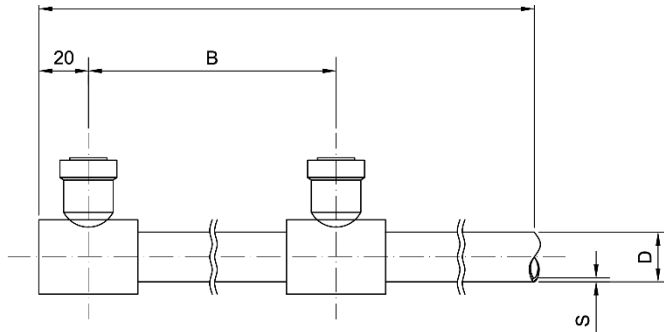
If you want to connect larger mat surfaces to any particular supply & return line, we are able to manufacture larger nominal widths such as 25 x 2,3 mm or 32 x 3,0 mm.

Feel free to contact us. We have the customised solution!



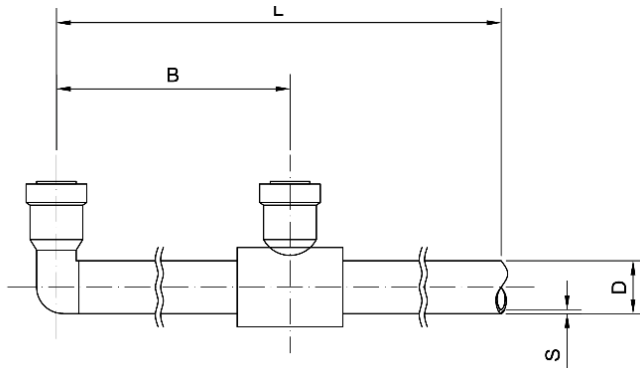
5.2.1 Supply & Return Lines with Single Connections

SUPPLY & RETURN LINES WITH SINGLE CONNECTIONS AND WELDING SOCKET – ZM



D = 20 mm S = 2,0 mm

SUPPLY & RETURN LINES WITH SINGLE CONNECTIONS AND SIDE CONNECTION – ZS



D = 20 mm S = 2,0 mm

TECHNICAL DATA SINGLE CONNECTIONS ZM AND ZS

The supply & return lines with single connections are available in different lengths with different numbers of connections:

Length: 1000 | 2000 | 3000 | 4000 | 5000 | 6000 mm

No. of connections: 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

Order example: Supply & Return Lines with 3 connections including welding socket 2000 mm length, distance of the connections 600 mm:

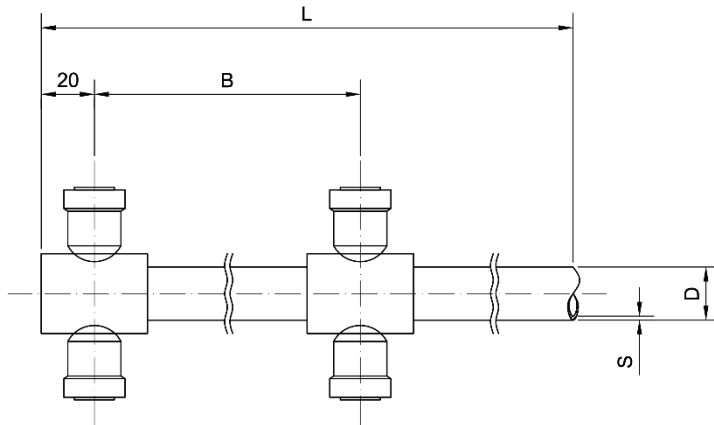
Item No.: ZM 03 . 2000 . 0600

Order example: Supply & Return Lines with 2 connections plus 1 side connection 2000 mm length, distance of the connections 600 mm:

Item No.: ZS 03 . 2000 . 0600

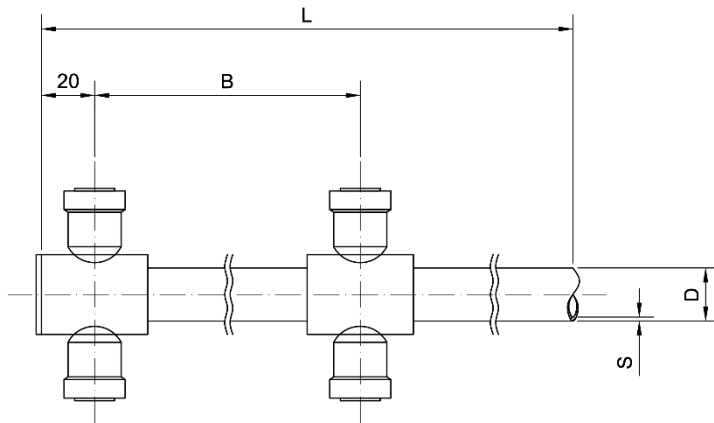
5.2.2 Supply & Return Lines with Double Connections

SUPPLY & RETURN LINES WITH DOUBLE CONNECTIONS AND WELDING SOCKET-ZDM



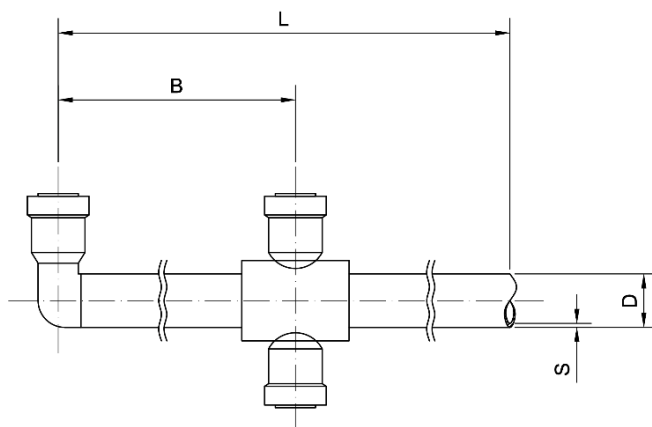
D = 20 mm S = 2,0 mm

SUPPLY & RETURN LINES WITH DOUBLE CONNECTIONS AND END CAP - ZDE



D = 20 mm S = 2,0 mm

SUPPLY & RETURN LINES WITH DOUBLE CONNECTIONS AND SIDE CONNECTION - ZDS



D = 20 mm S = 2,0 mm

TECHNICAL DATA DOUBLE CONNECTIONS ZDM, ZDE AND ZDS

The supply lines & return lines with double connections are available in different lengths with different numbers of connections:

Length: 1000 | 2000 | 3000 | 4000 | 5000 | 6000 mm

No. of connections: 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

Order example:

Supply & Return Lines with 3 double connections including welding socket; 2000 mm length, distance of the double connections 600 mm:

Item No.: ZDM 03 . 2000 . 0600

Order example:

Supply & Return Lines with 3 double connections and end cap 2000 mm length, distance of the double connections 600 mm:

Item No.: ZDE 03 . 2000 . 0600

Order example:

Supply & Return Lines with 3 double connections plus 1 side connection; 2000 mm length, distance of the double connections 600 mm:

Item No.: ZDS 03 . 2000 . 0600