iTherm® Sprue Bushing

PRODUCT DESCRIPTION

1 DESCRIPTION

iThermTM Sprue Bushing line sets the standard for Conformal Cooling of the sprue and has been proven to reduce cycle times up to 55%+ on molds limited by sprue cooling.

Other benefits include: rigidity for sprue picker automation, elimination of temperature related sprue sticking, improved wear resistance compared to copper-alloy alternatives, and insulation of the mold from heat conducted by the sprue nozzle.

The recommended use is on a separate cooling circuity, in order to regulate flow and cooling power to achieve cavity fill before freezing of the sprue.

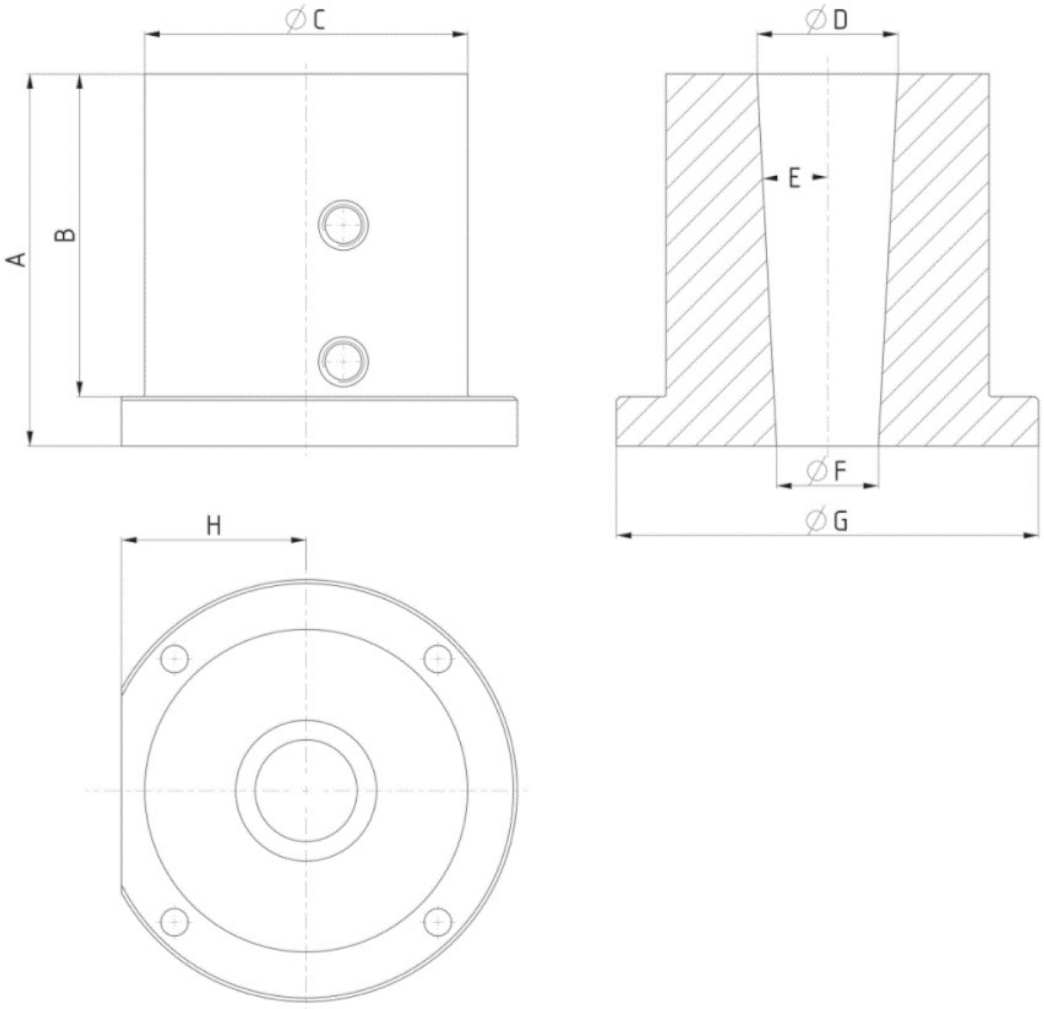
2 MAIN ADVANTAGES

- Our size options for off-the-shelf components allow for a full range of applications
- Custom sizes and cooling options available upon request for additional charge and lead time. For additional performance, we can manufacture sprue bushings from specific materials for additional thermal conductivity.

iTherm® Sprue Bushing

TECHNICAL SPECIFICATIONS

1 GENERAL DIMENSIONS



Parameter	Limits
A	110 - 190
B	90 - 170
ØC	90 - 170
ØD	35 - 95
E	1° - 3°
ØF	20 - 80
ØG	130 - 210
H	(ØG-5) - ØG

All dimensions are in mm

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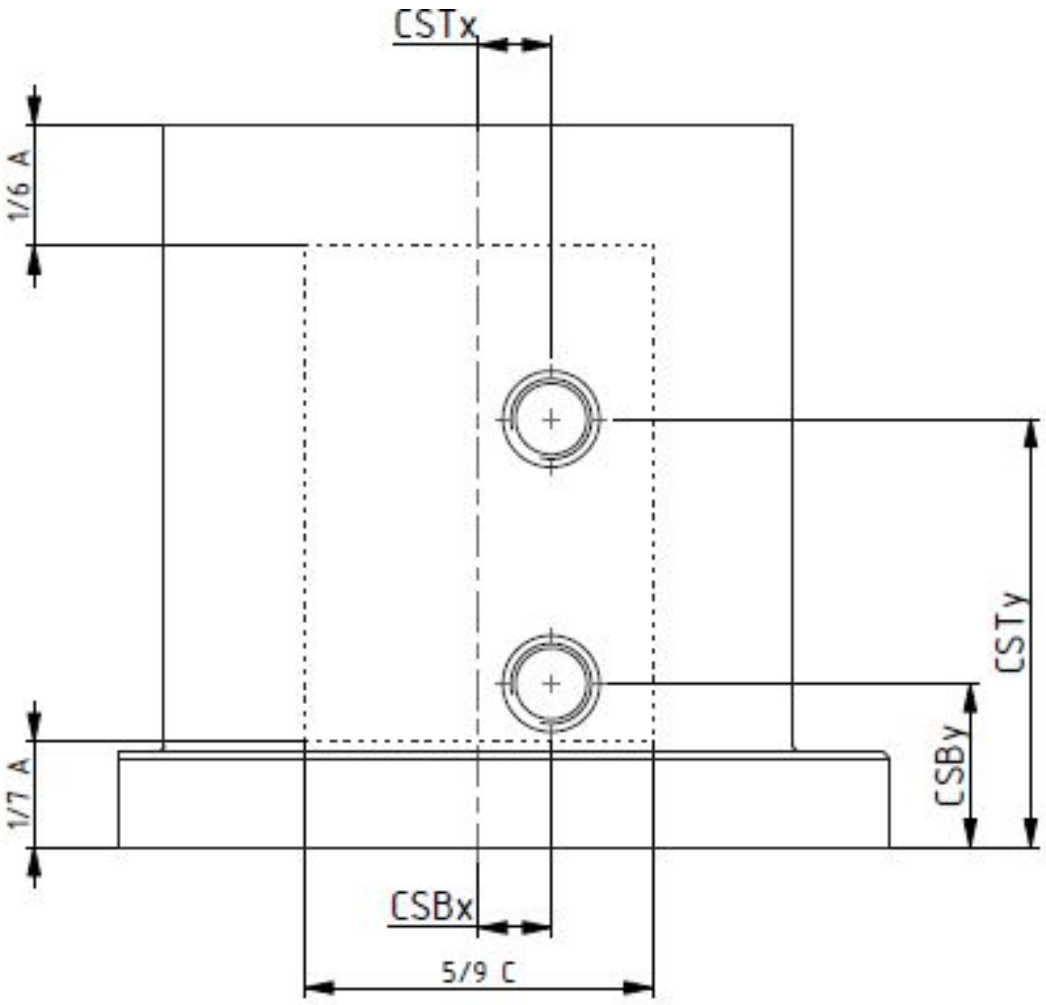
2 CONNECTION HOLES

Connection holes are available between 1/7 A and 5/6 A in direction Y and within 5/9 C in X direction. Connectors can be either on right side of centre insert dimension +) or on left side of centre (insert dimension with -). Connectors can be chosen between ¼ NPT, 3/8 NPT, ½ NPT, 5/8 NPT, G1/4, G3/8, G1/2, G5/8.



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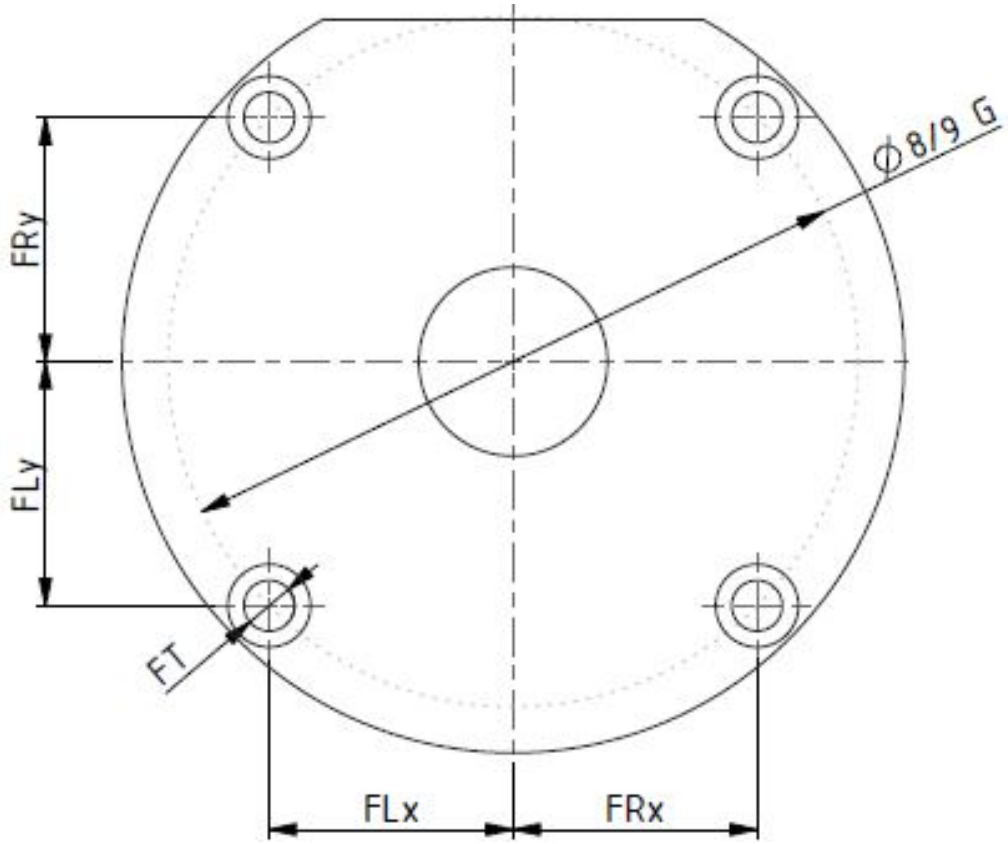
TECHNICAL SPECIFICATIONS

3 FASTENING HOLES

Selection of fastening holes is possible. Fastening holes can be positioned within 8/9 G dimension. Customer can select between M10, M12, M14, M16, ¼ - 20 UNC, 3/8 – 16 UNC, Ø10, Ø12, Ø14 fastening types, which can be in depth up to 40 mm.



4 MATERIAL

A selection of material and material hardness is possible. Customer can choose between different types of hot work tool steel.

And material hardness per customer request. Additionally selection of surface nitriding is an option.

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Do you need a slightly different design or component?

We got you covered.

Contact our die casting professionals and we will do our best to match your requirements. You can count on us to support you through each step of preformance improvement.

sales@hts-ic.com