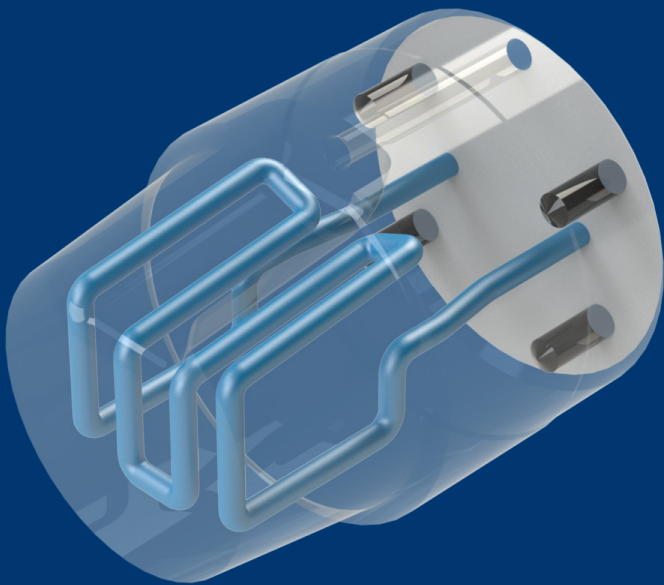
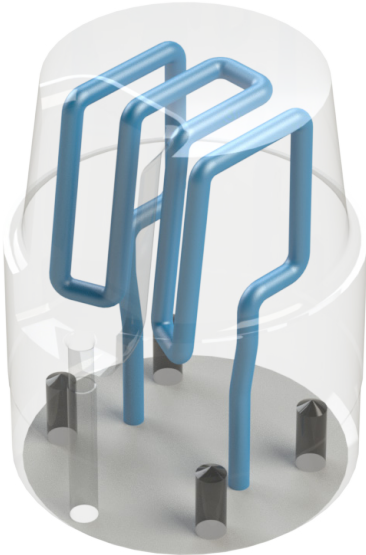


DATA SHEET

iTherm® Round Distributor



iTherm® Round Distributor



DESCRIPTION

iTherm® Distributor is an ultimate solution in thermal effectiveness. It is a highly innovative conformal cooling single-body solution and a proven-performer where optimum process solutions are required.

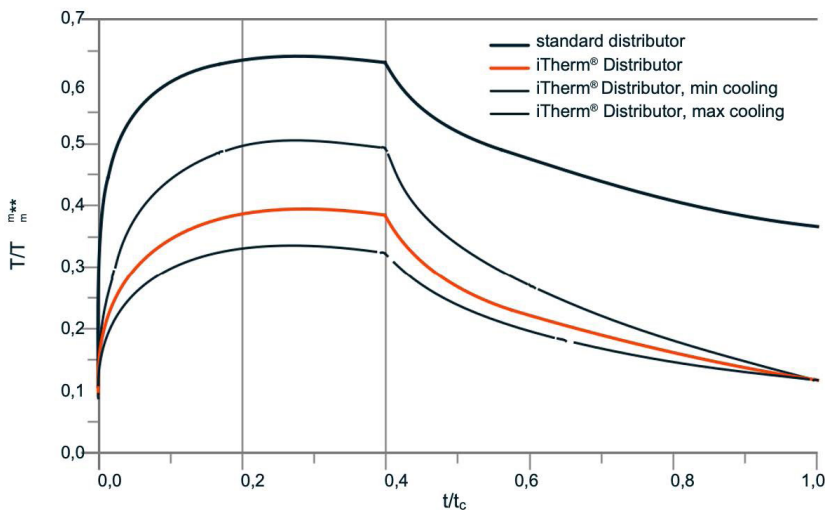
MAIN ADVANTAGES

- The distributor has integrated conformal-cooling system which assures the highest cooling effectiveness. It is a component which is specially designed for the reduction of cycle time.
- As single body only has two connectors for cooling water, there is no leakage possible.

iTherm® Round Distributor

GRAPH

iTherm® Distributor presents an optimum solution for stable process operation, and reduction of cycle time in HPDC.

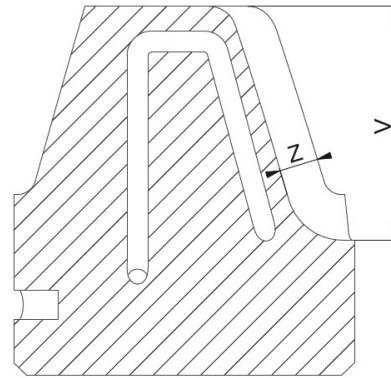
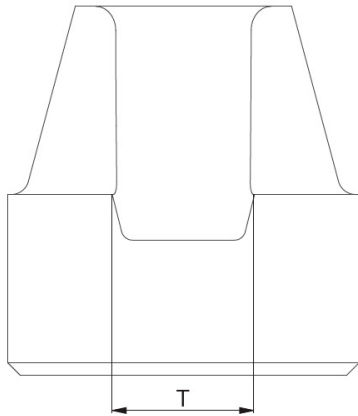
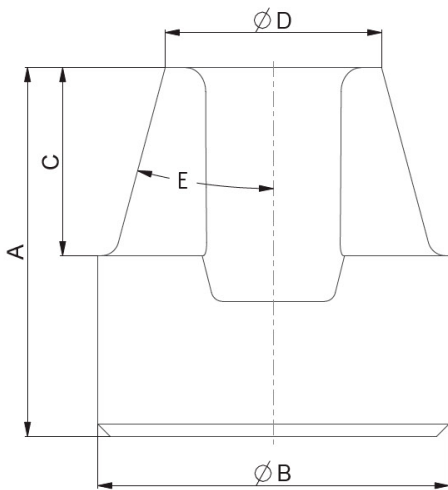


** T/T_{min} is iTherm® Distributor surface temperature normalized with temperature of molten aluminium

The thermal characteristics of iTherm® Distributor show a significant improvement in cooling effectiveness compared to conventional distributors. iTherm® Distributor, together with iTherm® Piston and Shot Sleeve, forms a critical part of iTherm® Casting Set, which is particularly designed for cycle time improvement in HPDC. A complete thermal optimization using FEA can be delivered for iTherm® Distributor when ordered as part of the iTherm® Casting Set.

iTherm® Round Distributor

GENERAL DIMENSIONS



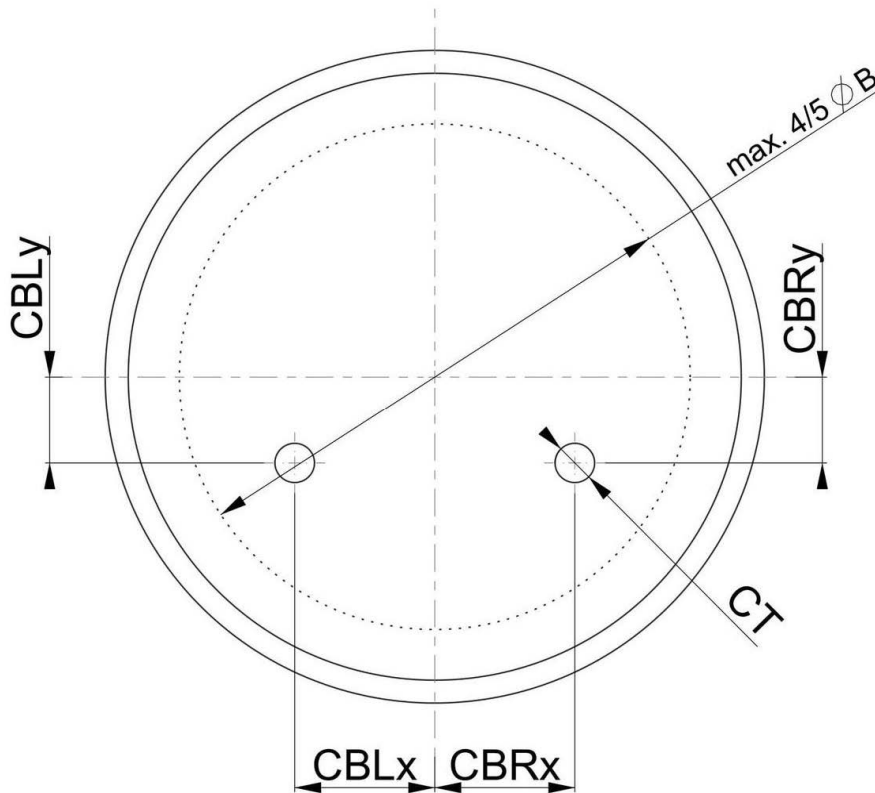
Dimension	Limits
A	80 - 250
ØB	80 - 250
C	50 - 200
ØD	50 - 200
E	1 - 15
T	0 - 100
V	0 - 40
Z	0 - (C+30)

All dimensions are in mm

iTherm® Round Distributor

CONNECTION HOLES (BOTTOM)

Connection holes can be positioned on bottom of distributor or on side of distributor. Both options are limited depending on dimensions of distributor. Limits are shown below.

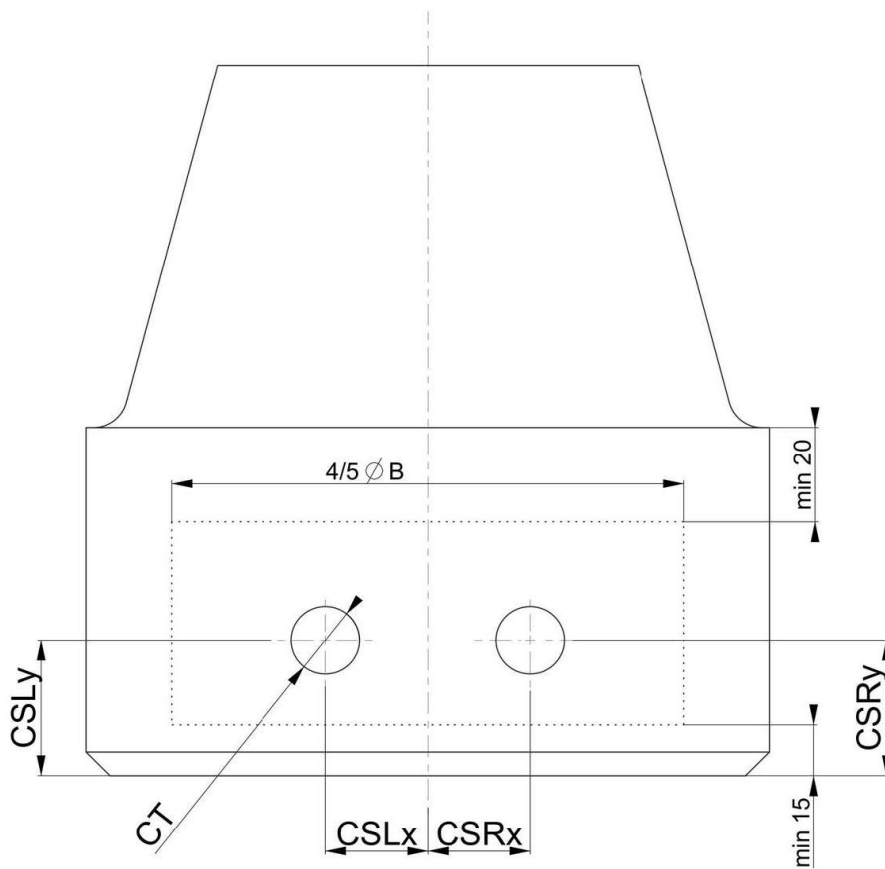


Dimension	Limits
CBLx	0 - ($\text{ØB}/4$)
CBRx	0 - ($\text{ØB}/4$)
CBLy	0 - ($\text{ØB}/4$)
CBRy	0 - ($\text{ØB}/4$)
CT	1/4 NPT, 3/8 NPT, 5/8 NPT, G1/2

All dimensions are in mm

iTherm® Round Distributor

CONNECTION HOLES (SIDE)

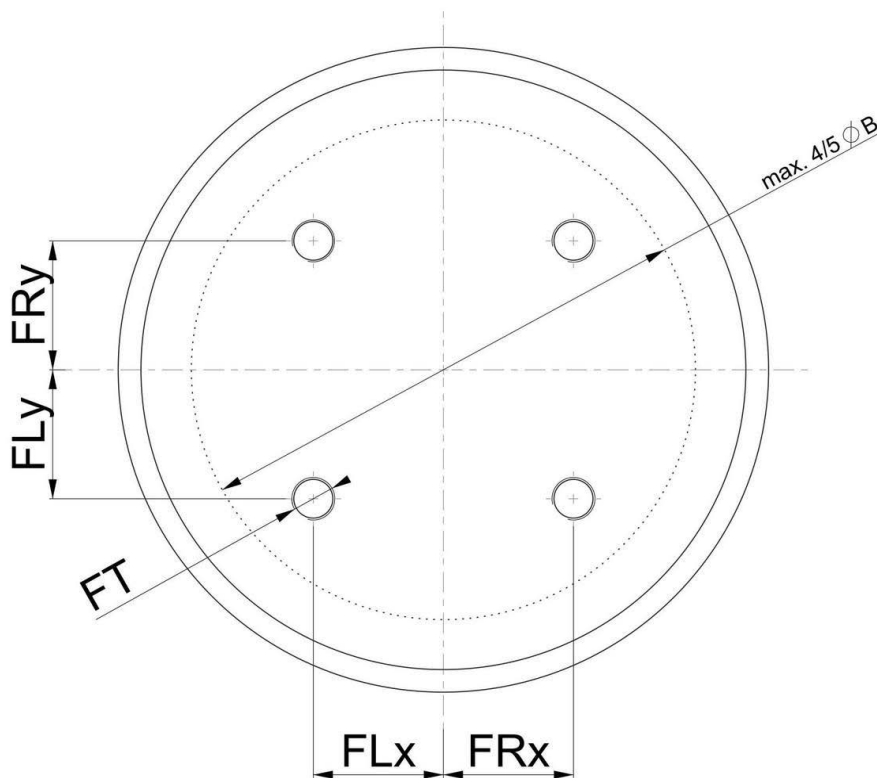


Dimension	Limits
CSLx	0 - ($4\varnothing B/10$)
CSRx	0 - ($4\varnothing B/10$)
CSLy	15 - ($A - C - 20$)
CSRy	15 - ($A - C - 20$)
CT	1/4 NPT, 3/8 NPT, 5/8 NPT, G1/2

All dimensions are in mm

iTherm® Round Distributor

FIXING HOLES



Dimension	Limits
FLx	0 - ($\varnothing B/4$)
FRx	0 - ($\varnothing B/4$)
FLy	(0 - ($\varnothing B/4$))
FRy	(0 - ($\varnothing B/4$))
FT	M10, M12, M14, M16, M18, M20, 1/4-20 UNC, 3/8-16 UNC, 5/8-11 UNC, 3/4-10 UNC
FRy	0 - 40

All dimensions are in mm

iTherm® Round Distributor**MATERIAL**

A selection of material and material hardness is possible. Customers can choose between different types of hot work tool steel and material hardness per customer request. Additionally, selection of surface nitriding is an option.

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 performance improvement.

sales@hts-ic.com