



Flat Gate Insert



DATA SHEET

Flat Gate Insert

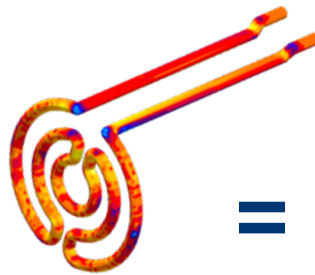
01 Cooling Power

DESIGN APPROACH



- Optimal cooling of overheated surfaces in the nozzle area.
- Homogeneous cooling of the working surface.
- Circular shape of cooling channels for maximum efficiency.

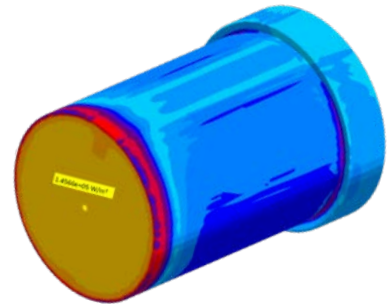
THERMAL ANALYSIS AND SIMULATION



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- Low standard deviation of the temperature field.
- Small pressure differences between the inlet and outlet of the cooling medium.
- High Reynolds number, high turbulence, optimal heat transfer.

iTherm® FLAT GATE INSERT



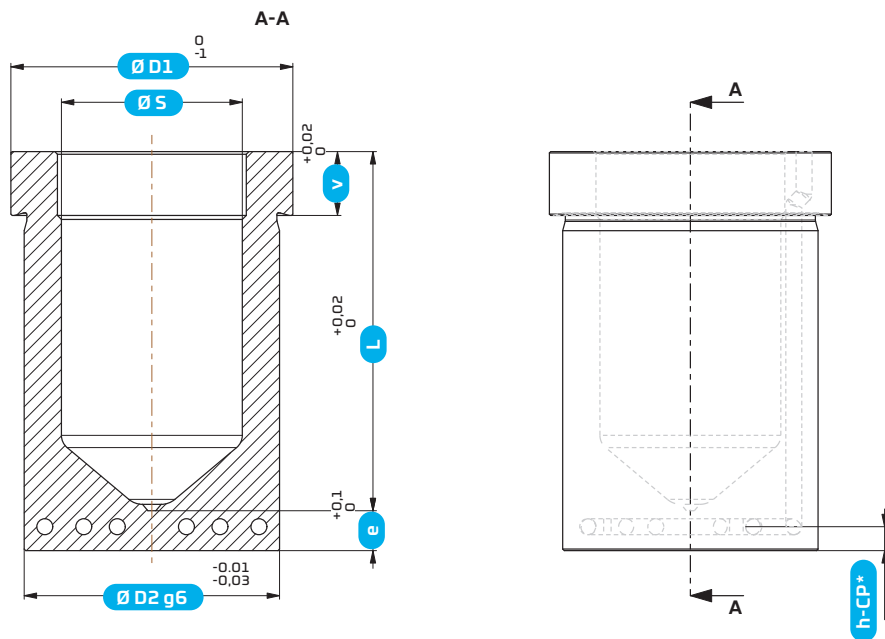
COOLING POWER OPTIONS

10 W/m²

15 W/m²

25 W/m²

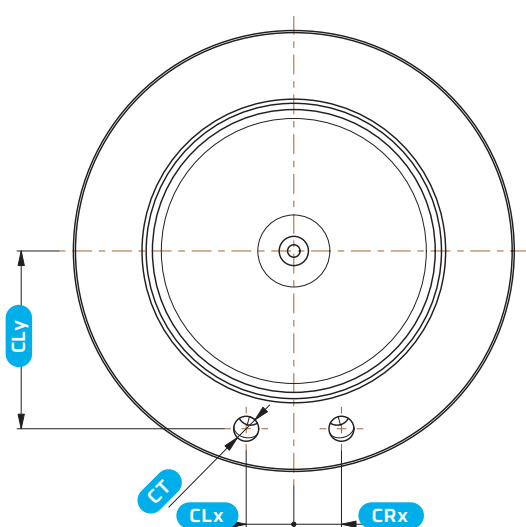
02



*The dimension changes based on the cooling power input

Name	D1	S	D2	v	L-range	e
20BF	35	20	30	5	50-100	5
						10
						15
22BF	38	22	32	5	50-120	5
						10
						15
26BF	45	26	36	5	50-120	5
						10
						15
32BF	50	32	42	9	60-120	5
						10
						15
38BF	59	38	48	12	60-120	5
						10
						15
44BF	64	44	54	12	60-120	5
						10
						15
50BF	72	50	60	12	60-120	5
						10
						15

03 Connection holes



Name	CLx	CRx	CLy	CT
20BF	0-24	0-24	0-24	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
22BF	0-26	0-26	0-26	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
26BF	0-29	0-29	0-29	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
32BF	0-32	0-32	0-32	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
38BF	0-36	0-36	0-36	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
44BF	0-39	0-39	0-39	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
50BF	0-43	0-43	0-43	1/16" NPT - 1/2"NPT or G1/16" - G1/2"