GROUP 1 - Immersion heaters, drum heaters and accessories

1.17 - In line heaters

GCP pass superheaters consist of a GCB heating group assembled on a steel or stainless steel tubular body, of suitable flange, bed and entry, exit and purge tubulatures, threaded or flanged.

The fluid to be heater circulates inside the same, guided by the deflectors at intervals in the heating group.

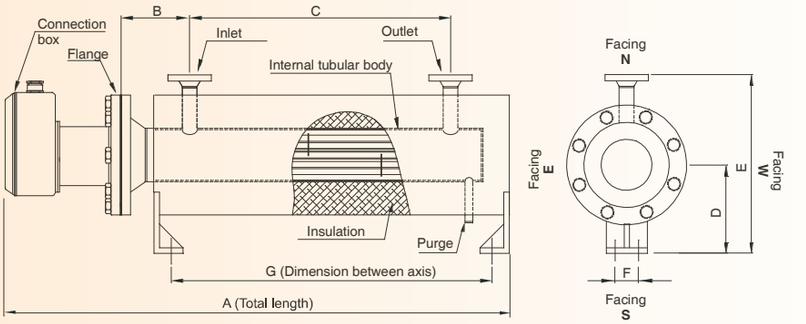
The GCP pass superheaters are manufactured to measure, adapting the design for each specific case. They can be manufactured as heat-resistant or non-heat-resistant depending on the working temperature of the same, in horizontal or vertical position, etc.

General characteristics

- Shape "U" tubular elements
- Tube material in stainless steel AISI 321, AISI 316L, Incoloy®-800, Incoloy®-825 or nickeled copper
- Standardized tube diameters: Ø8, Ø10, 12'5, Ø16 mm
- Power according to your specifications
- Three-phase voltage up to 750 V
- Maximum length flat plate: 3300 mm
- Standard flanges: DIN - ANSI in stainless steel or steel
- Connection box IP-44. Tubular body in stainless steel or galvanized steel
- Optionally, tubular body with heat-resistant insulation
- Temperature control with thermostat, limitter, thermocouple or PT100 sensor
- Density load up to 16 W/cm². Recommended density load according to applications

  1 to 3 W/cm² → Air, ovens
  1,2 W/cm² → Heavy fuel-oil
  2 to 4 W/cm² → Thermic oil, ligth fuel-oil
  6 to 8 W/cm² → Water

If you wish to receive an offer for the GCP heating groups appropriate to your needs, please complete the attached tables indicating the data requested and send it by fax. You will receive a quote from us as soon as possible.



Process requirements		
Medium to heat: (Indicate material)	Liquid ❑	
	Gas ❑	
Static material	Q	dm³/h
In line material characteristics	Density	Kg/dm³
	Viscosity	cP
	Specific heat	KJ/kg.K
Work temperature		°C
Inlet temperature		°C
Outlet temperature		°C
Design pressure	P	kg/cm²

Electrical characteristics		
Total Watts		kW
Power supply		V (Mono-phase)
		V (Three-phase)
Connection		Mono-phase
		Three-phase Δ
		Three-phase
N^er steps		
Density load		W/cm²

Temperature control				
Safety	Fluid temperature			°C
	Tube temperature			°C
Control	Fluid temperature			°C
Type	Thermostat (ON/OFF) ❑		Range	°C
	Thermocouple sensor. Type:			
	J ❑		PT100 ❑	
	K ❑			
Position (Flat plate)				mm

Tubular element characteristics				
Tube material	SS AISI 321 ❑		Incoloy®-825 ❑	
	SS AISI 316L ❑		Steel ❑	
	Incoloy®-800 ❑		Copper ❑	
Tube diameter	Ø8 mm ❑		Ø16 mm ❑	
	Ø10 mm ❑			

In line heater					
Material internal tubular body	Steel ❑		SS AISI 321 ❑		
			SS AISI 316 ❑		
Position	Horizontal ❑				
	Vertical ❑		Box position	Top ❑	
				Lower ❑	
Heat-resistant insulation	Yes ❑				
	No ❑				

Inlet / Outlet - Flanges

Flange	DIN		ANSI		Facing NSEW
	PN	DN	PN	DN	
Inlet					
Outlet					

Flange material	Steel ❑	SS AISI 321 ❑	
		SS AISI 316 ❑	
Purge	Yes ❑		
	No ❑		

Dimensions in mm	A	E
	B	F
	C	G
	D	