# **Product category information**

# **TUB/TUBE**





TUB/TUBE stainless steel thermostatic expansion valves are used for liquid injection into evaporators on both refrigeration and air conditioning systems using fluorinated refrigerants. TUB/TUBE valves are compact in design, light weight and have steel / copper bi-metal connections for fast soldering.TUB/TUBE have a fixed orifice and adjustable superheat.

#### TUB/TUBE, angleway, R134a

Temperature range  $-40 - 10^{\circ}$ C. Max. working pressure 34.0 bar. The rated capacity is based on: Evaporating temperature te =  $+5^{\circ}$ C Condensing temperature tc =  $+32^{\circ}$ C Refrigerant liquid temperature tl =  $+28^{\circ}$ C Opening superheat OS = 4 K

External equalization connection size, TUBE versions with mm-connections: 6 mm, versions with in.-connections: 1/4 in.

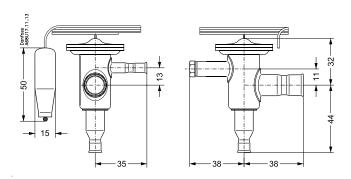
#### **Features**

- Made of stainless steel.
- Available in angleway and straightway versions.
- Especially suitable for refrigeration systems in the food industry.
- Adjustable superheat.
- Bi-metal connections: removes the need to 'wet rag' braze.
- Available with MOP (Max. Operating Pressure).
- Biflow function (orifice 1 8).
- Fast and easy to install.
- Good temperature transfer from pipe to bulb.
- Filter with high dirt retention capacity.

## **Technical data**

Characteristic	Value
Max. test pressure (excl. R410A) [bar]	37,5 bar
Max. test pressure (R410A) [bar]	47 bar
Max. valve body temperature [°C]	120 °C
Max. valve body temperature, short-lived peak [°C]	150 ℃
Max. working pressure (excl. R410A) [bar]	34 bar
Max. working pressure (R410A) [bar]	42.5bar

### **Dimensions**





## **Code number information**

## Code no.: 068U2030





**Data Sheet** 

Characteristic Value Туре TUB Direction Angleway 1/4 in Inlet size [in] Outlet size [in] 1/2 in Capillary tube length [mm] 800 mm 2,5 ft Capillary tube length [Ft] Refrigerants R134a -40 - 10 °C Temperature range [°C] Temperature range [°F] -40 - 50 °F Orifice size 4 Orifice capacities [KW] 2,10 kW 0,59 TR Orifice capacities [TR] Static Superheat (SS) [°C] 5,0 Static Superheat (SS) [°F] 9,00 °F Max. Working Pressure [bar] ef 34,0 bar Max. Working Pressure [psig] 500 psig Packing format Multi pack Quantity per packing format 24 pc

Capacity in kW for range N (-40 - +10°C) and opening superheat OS = 4 K

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Δp [bar]	2	4	6	8	10	12	14	16	
te [C]									
10	1,7	2,2	2,5	2,6	2,7	2,7			
0	1,4	1,8	1,9	2	2,1	2,1			
-10	1,1	1,3	1,5	1,5	1,6	1,6			
-20		0,96	1,05	1,1	1,12	1,1			
-30		0,67	0,73	0,76	0,77	0,76			
-40		0,45	0,49	0,5	0,51	0,51			

### Correction factors for subcooling Atsub

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	4	10	15	20	25	30	35	40	45	50
R134a	1	1,08	1,13	1,19	1,25	1,31	1,37	1,42	1,48	1,54

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