## **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.

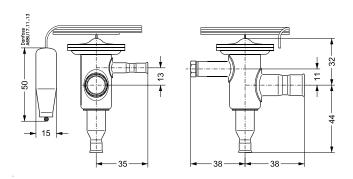
#### **Features**

- 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 °C
Max. working pressure (excl. R410A) [bar]	34 bar
Max. working pressure (R410A) [bar]	42.5bar

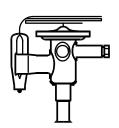
## **Dimensions**





# **Code number information**

# Code no.: 068U2024





**Data Sheet** 



Characteristic	Value
Туре	TUBE
Direction	Angleway
Inlet size [in]	3/8 in
Outlet size [in]	1/2 in
Equalization size [in]	1/4 in
Capillary tube length [mm]	800 mm
Capillary tube length [Ft]	2,5 ft
Refrigerants	R134a
Temperature range [°C]	-40 - 10 °C
Temperature range [°F]	-40 - 50 °F
Orifice size	7
Orifice capacities [KW]	5,50 kW
Orifice capacities [TR]	1,60 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

Δp [bar]	2	4	6	8	10	12	14	16
te [C]								
10	4,6	5,9	6,6	7	7,2	7,2		
0	3,7	4,7	5,2	5,5	5,6	5,7		
-10	2,8	3,5	3,9	4,1	4,2	4,2		
-20		2,6	2,8	3	3	3		
-30		1,8	2	2	2,1	2,1		
-40		1,2	1,3	1,4	1,4	1,4		

### 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

Additional information available on www.Danfoss.com