Thermostatic Expansion Valve
RFKH series
热力膨胀阀 - RFKH 系列

HAIDING
Cooling & Heating Technology

RFKH series thermostatic expansion valves adjust mass flow of refrigerant into the evaporator while controlling the refrigerant´s superheat at the evaporator outlet.

They can be used with various refrigerants under all working conditions. Typical applications include freezers, ice makers, and dehumidifiers as well as air conditioners and heat pumps at various evaporation temperature ranges.

FEATURES:

* Stainless steel capillary and sensing bulb
* Exchangeable valve orifice, easy to stock holding, convenient for capacity match and repair
* Thermal bulb utilizes cross charge technology, providing consistent superheat degree over the whole evaporation temperature range
* Valves with MOP function can be provided to assure reliable compressor operation
* Applicable in a wide evaporation temperature range
* Reliable and consistent performance of superheat control

GENERAL SPECIFICATIONS:

* Applicable for all common HCFC, HFC refrigerants; models for R450A/R513A are on request
* Ambient temperature min./max.: -35°C/+55°C
* Max. operating pressure PS: 4.6 MPa
* Certifications: UL/CSA and PED declaration
* Capillary tube length 1500mm as standard

RFGD10 Technical Data *

Valve Body Model	Ref.	Connection		
		Inlet	Outlet	Ext.
RFKH 01-6.0-22	R22	3/8” flare	1/2” flare	-
RFKH 01E-6.0-13			1/2” flare	1/4” flare
RFKH 01-6.0-26			12mm solder	-
RFKH 01E-6.0-06			12mm solder	6mm solder
RFKH 01-6.0-07			1/2” solder	-
RFKH 01E-6.0-08			1/2” solder	1/4” solder
RFKH 02-6.3-24	R407C	3/8” flare	1/2” flare	-
RFKH 02E-6.3-20			1/2” flare	1/4” flare
RFKH 02-6.3-27			12mm solder	-
RFKH 02E-6.3-28			12mm solder	6mm solder
RFKH 02-6.3-32			1/2” solder	-
RFKH 02E-6.3-18			1/2” solder	1/4” solder
RFKH 03-4.8-21	R404A / R507	3/8” flare	1/2” flare	-
RFKH 03E-4.8-15			1/2” flare	1/4” flare
RFKH 03-4.8-03			12mm solder	-
RFKH 03E-4.8-02			12mm solder	6mm solder
RFKH 03-4.8-09			1/2” solder	-
RFKH 03E-4.8-10			1/2” solder	1/4” solder
RFKH 04-2.9-23	R134a	3/8” flare	1/2” flare	-
RFKH 04E-2.9-19			1/2” flare	1/4” flare
RFKH 04-2.9-29			12mm solder	-
RFKH 04E-2.9-17			12mm solder	6mm solder
RFKH 04-2.9-30			1/2” solder	-
RFKH 04E-2.9-31			1/2” solder	1/4” solder
RFKH 05-7.6-66	R410A	3/8” flare	1/2” flare	-
RFKH 05E-7.6-33			1/2” flare	1/4” flare
RFKH 05-7.6-37			12mm solder	-
RFKH 05E-7.6-36			12mm solder	6mm solder
RFKH 05-7.6-35			1/2” solder	-
RFKH 05E-7.6-34			1/2” solder	1/4” solder

* Note: above models with evaporating temperature range from -40°C to +10°C (without MOP)

Orifice Specification *

Orifice Number	Valve Orifice Model	Nominal Capacity, kW				
		R22	R407C	R404A R507	R134a	R410A
0X	RFKH-023-0X	1.0	1.0	0.7	0.69	1.1
00	RFKH-023-00	1.9	2.1	1.4	1.2	2.2
01	RFKH-023-01	3.8	4.0	2.8	2.1	4.3
02	RFKH-023-02	5.1	5.4	4.0	2.7	5.2
03	RFKH-023-03	8.6	9.2	6.8	4.4	9.5
04	RFKH-023-04	13.2	13.9	10.8	6.5	14.3
05	RFKH-023-05	18.1	18.5	14.1	8.6	17.9
06	RFKH-023-06	21.3	22.1	16.8	10.3	22.5

* Note:
1). Nominal working conditions: Condensing temperature 38°C
Evaporating temperature +4.4°C
Liquid temperature 37°C
2). R407C data based on dew point conditions
3). Nominal capacity based on Static Superheat (SS) 5K (non-MOP) and 4K (MOP); Opening Superheat (OS) 6K