

Hot gas bypass regulators series CPHE

Features

- High-quality materials and processes for high reliability and long lifetime
- Superior partial load performance due to double seat orifice design (CPHE3 to CPHE6)
- Modular design for economical logistics and easy assembly and servicing
- External equalization

Specific connection sizes and flanges available on request.

For selection see last page of “Thermo-Expansion Valves” chapter.

CPHE



Technical data

Adjustment Range	-0.4 ... 5 bar
Factory Setting	1.4 bar
Max. Allowable Pressure PS	35 bar
Medium Temperature Range TS	-40 ... 120°C
Ambient Temperature Range	-40 ... 50°C
Transport Temperature Range	-40 ... 70°C

Capacity data CPHE

Type	Nominal Bypass Capacity (kW)									Orifice	Standard Flange Solder/ODF		Power Assembly
	R134a	R22	R407C	R404A/ R507	R450A	R513A	R448A	R449A	R1234ze		mm	Inch	
CPHE - 1X	3.5	5.0	5.8	4.5	3.4	2.6	5.9	5.8	3.1	X 22440-B5B	C 501 - 7 mm 12 x 16	C 501 - 7 1/2 x 5/8	X7818 - 1
CPHE - 2X	6.4	9.0	10.4	8.1	6.2	4.8	10.6	10.5	5.6	X 22440-B8B	A 576 mm 16 x 22 (22 x 28 ODM)	A 576 5/8 x 7/8 (7/8 x 1-1/8 ODM)	
CPHE - 3X	12.0	17.0	20.0	15.0	12.0	9.0	20.0	20.0	10.0	X 11873-B5B	10331 22 x 22	10331 7/8 x 7/8 (1-1/8 x 1-1/8 ODM)	
CPHE - 3.5X	13.0	19.0	22.0	17.0	13.0	10.0	22.0	22.0	12.0	X 9117-B7B	9153 mm 22 x 22	9153 7/8 x 7/8	
CPHE - 4X	16.0	23.0	27.0	21.0	16.0	12.0	27.0	26.0	14.0	X 9117-B9B			
CPHE - 5X	21.0	29.0	34.0	26.0	20.0	15.0	35.0	34.0	18.0	X 9166-B10B	9149 22 x 22	9149 7/8 x 7/8	
CPHE - 6X	35.0	50.0	58.0	45.0	34.0	26.0	59.0	58.0	31.0	X 9144-B13B			

Note1: Nominal capacities at +38°C Condensing temperature, +4°C Evaporating temperature (saturated temperatures / dew point) and 1 K Liquid Subcooling at the inlet of the expansion valve. For other operating conditions, please use Copeland Select software.

Note2: Specific connection sizes and flanges available on request. For Selection, see last page of “Thermo-Expansion Valves” chapter.