Liquid Injection Valves Series 935

Exchangeable Power Assemblies and Orifices

Applications

- Series 935 valves are applied as temperature controls.
- Applications include:
  - Desuperheating of discharge gas on compressors. In this case bulbs are mounted on the high pressure outlet of the compressor
  - Control of compressor oil temperatures
- Series 935 valves shall not be used to control superheat

Features

- Modular design for economical logistics and easy assembly and servicing
- Very good stability because of the large forces generated by the large diaphragm diameter
- High-quality materials and processes for high reliability and long lifetime
- Combinations of different charges with various orifice springs cover a very large application range
- PS: 46 bar
- TS: -45 ... +65°C
- No CE marking according art. 3.3 PED 97/23 EC
- Non-standard connection sizes see last page of this chapter

935

Type Code **935 - 7 - B WL 10x16**

- Valve Series
- Temperature Code
- Capacity Code
- Flange Style
  - WL=Angle Style
  - DL=Straight through
- Connection Size

Type Code **XB1019 YL - 2A**

- Power Assembly
- Charge Code
- Capillary Tube Length (3m)

Series		Nominal Capacity Q_n kW									Orifice	Standard Flange. Angle Solder/ODF		Power Assembly
		R134a	R410A	R404A/ R507	R407C	R407F	R448A/ R449A	R450A	R513A	R1234ze		mm	inch	
935- * -	A	4.0	6.1	3.8	5.6	5.8	5.2	3.5	3.6	3.1	X10-*01	C 501 - 5 mm 10 x 16	C 501 - 5 ⅜ x ⅝	XB1019 - * - 2A
	B	7.8	11.8	7.4	10.9	11.3	10.1	6.9	7.1	6.1	X10-*02			
	C	11.1	16.6	10.3	15.4	15.9	14.2	9.7	9.9	8.6	X10-*03			
	D	16.3	24.6	15.6	22.8	23.6	21.0	14.4	14.7	12.8	X10-*04	C 501 - 7 mm 12 x 16	C 501 - 7 ½ x ⅝	
	E	22.5	33.7	21.0	31.2	32.3	28.8	19.7	20.2	17.5	X10-*05			
	G	32.0	48.1	29.9	44.5	46.1	41.1	28.1	28.8	24.9	X10-*06	A 576 mm 16 x 22 (22 x 28 ODM)	A 576 ⅝ x ⅞ (⅞ x 1-⅛ ODM)	
	X	46.6	70.0	43.5	64.9	67.1	59.8	40.9	41.9	36.3	X10-*07			

* = Temperature Code	Temperature Range °C	* = Spring Code	* = Charge Code
3	-1 / +17	B	UL
6	+14 / +38	C	KL
105	+44 / +70	C	YL
106	+66 / +94	C	JL
100	+94 / +121	C	LL

Nominal capacity (Q_n) is based on the following conditions:

Refrigerant	Evaporating temperature	Condensing temperature	Subcooling
R407C	+4°C dew point	+38°C bubble point/+43°C dew point	1K
R134a, R404A, R507	+4°C	+38°C	
R448A, R449A	+4°C dew point	+38°C bubble / +43°C dew point	
R450A		+38°C bubble / +38.6°C dew point	
R513A, R1234ze		+38°C bubble / +38°C dew point	

Spare Parts

Description	**Type**	**Part No.**
Gasket Set for 935 Series Valves	X 13455 -1	**027 579**
Service Tool for 935 Series Valves	X 99999	**800 005**
Steel screws for following flange types: C501, 9761, 6346, A576 9148, 9149, 9152, 9153, 10331, 10332	 Screw ST 32 Screw ST 48	 **803 573** **803 574**

Note: See “Controls Navigator” for more information on selection and adjustment guidelines.