

Liquid Injection Valves Series 935

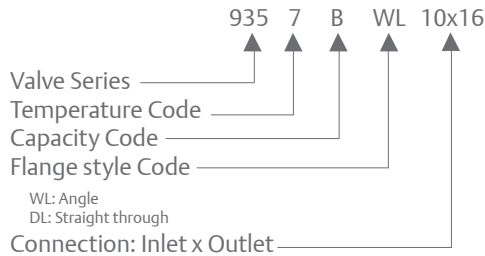
Exchangeable Power Assemblies and Orifices

Features

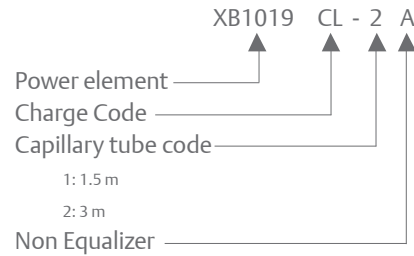
- Modular design for economical logistics and easy assembly and servicing
- Very good stability is attained because of the large forces generated by the large diaphragm diameter
- High-quality materials and processes for high reliability and long lifetime
- Combinations of different charges with various orifice springs cover a very large application range
- Max. working pressure PS:
 - 46 bar with XB power assembly
 - 31 bar with XC power assembly.
- Medium Temperature Range TS: -45...+65°C



Type Code Valve



Type Code Power Assembly



Nominal Capacities for Cages

| Valve Series | Capacity code* | Nominal Capacity Q _n kW | | | | | | | Orifice Type | Power Element Type |
|--------------|----------------|------------------------------------|-----------------|-------|-------------|-------|-------|---------|--------------|--------------------|
| | | R134a (kW) | R404A/R507 (kW) | R407C | R448A/R449A | R450A | R513A | R1234ze | | |
| 935- *- | A | 4.0 | 3.8 | 5.6 | 5.2 | 3.5 | 3.6 | 3.1 | X10-**-01 | XB1019 - *** - 2A |
| | B | 7.8 | 7.4 | 10.9 | 10.1 | 6.9 | 7.1 | 6.1 | X10-**-02 | |
| | C | 11.1 | 10.3 | 15.4 | 14.2 | 9.7 | 9.9 | 8.6 | X10-**-03 | |
| | D | 16.3 | 15.6 | 22.8 | 21.0 | 14.4 | 14.7 | 12.8 | X10-**-04 | |
| | E | 22.5 | 21.0 | 31.2 | 28.8 | 19.7 | 20.2 | 17.5 | X10-**-05 | |
| | G | 32.0 | 29.9 | 44.5 | 41.1 | 28.1 | 28.8 | 24.9 | X10-**-06 | |
| | X | 46.6 | 43.5 | 64.9 | 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 |

The nominal capacity is based on the following conditions:

| Refrigerant | Evaporating temperature [°C] | Condensing temperature [°C] | Subcooling |
|-------------------------------------|------------------------------|----------------------------------|------------|
| R134a, R513A, R404A, R507, R1234ze, | +4°C dew point | +38°C bubble/ +38°C dew point | 1K |
| R448A, R449A | | +38°C bubble/ +42.6°C dew point | |
| R450A | | +38°C bubble / +38.6°C dew point | |
| R407C | | +38°C bubble/ +42.9°C dew point | |

For selection of other operating conditions, please use „Controls Navigator“ selection program.

Selection Table Power Assembly and Recommended Flanges

| Valve Series | Orifice Type | Connection Standard Flange, Angle Style | | Connection (inlet x outlet) | | Power Element Type |
|--------------|---------------------|---|--------|------------------------------|----------------------------------|--------------------|
| | | Type | Type | Metric | Imperial | |
| 935 | X 10- *01/ *02/ *03 | C501-5 mm | | 10 X 16 mm ODF | | XB1019-***-2A |
| | | | C501-5 | | 3/8" X 5/8 ODF | |
| | X 10- *04/ *05 | C501-7 mm | | 12x16 mm ODF | | |
| | | | C501-7 | | 1/2"x5/8" ODF - | |
| | X 10- *06/ *07 | A 576 mm | | 16x22 mm ODF 22x28 mm ODM | | |
| | | | A 576 | | 5/8"x7/8" ODF 7/8"x1-1/8" ODM | |

Accessories and Spare Parts

| Description | Type | Part No. |
|--|-------------|----------|
| Service Tool for T, ZZ, L and 935 Series valves | X 99999 | 800005 |
| Gasket sets for T, ZZ, L and 935 Series valves | X 13455-1 | 027579 |
| Steel Screws for flange types: C500, C501, 9761, X6346, X6669, A576 | Screw ST 32 | 803573 |
| Bulb clamp for XB1019 | XA 1728-4 | 803260 |

Note: See "Controls Navigator" for More Information on Selection and Adjustment Guidelines.