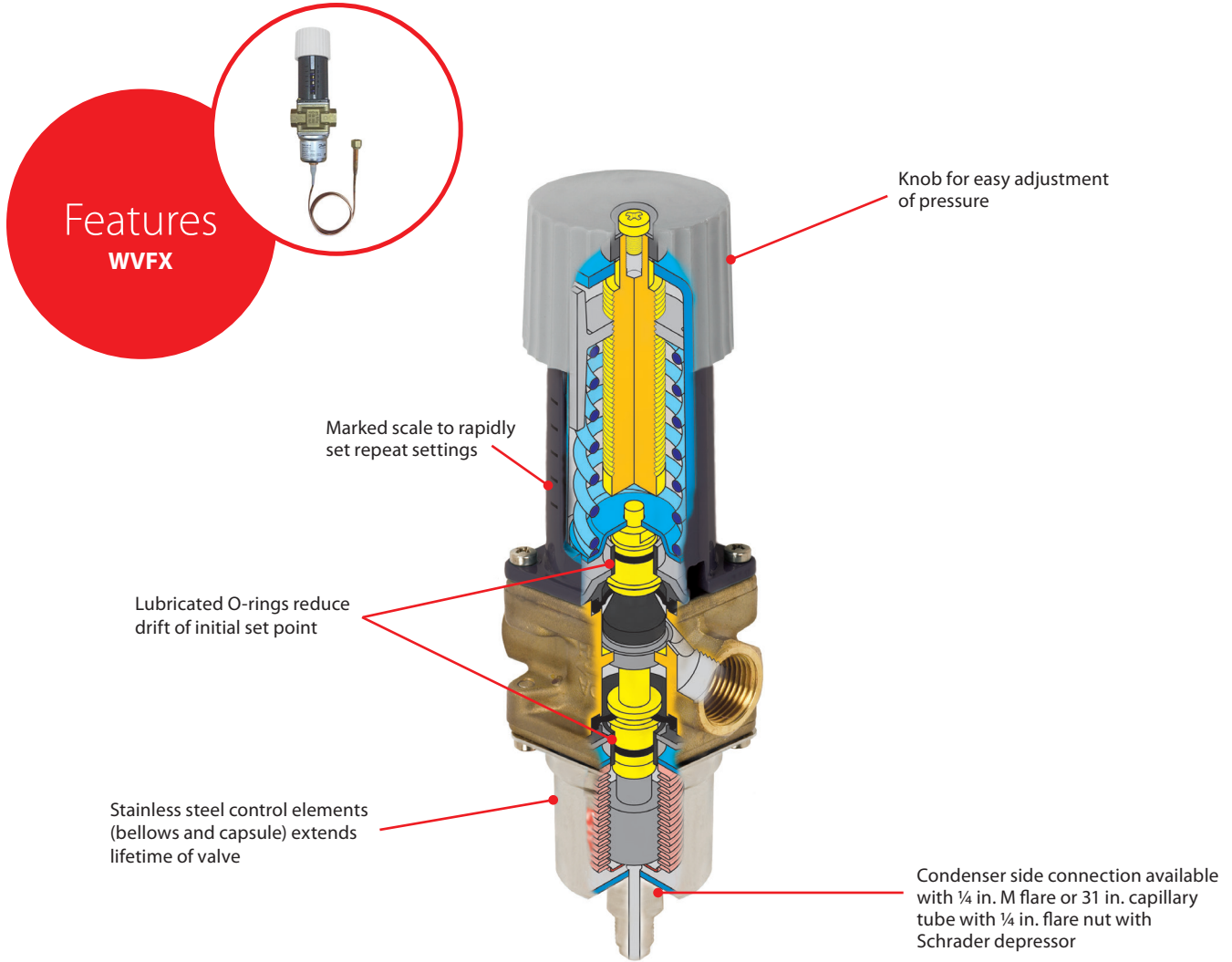


WVFX - Pressure Controlled Water Valves

Pressure controlled water valves type WVFX are used for regulating the flow of water in refrigeration systems with water cooled condensers. Water valves regulate water flow and thereby maintain constant condensing pressure. At shut-down, cooling water flow is shut off automatically. WVFX valves are designed as wide-range, general purpose water valves, and are particularly popular among contractor customers.



Facts

Applications:

- Refrigeration systems with water-cooled condensers
- Refrigerants: HCFC and HFC
- Connections
 - Water side: ¾ inch to 1 inch (NPT)
 - Condenser side: ¼ inch M flare or 31 inch capillary tube with ¼ inch flare nut with Schrader depressor
- Max working/test pressure
 - Water side: 380/420 psig or 655/870 psig
 - Condenser side: 230/350 psig
- No need for power—self acting
- Opens on rising condensing pressure
- Insensitive to dirt



Technical data and ordering

WVFX - Pressure Controlled Water Valves

Danfoss Type	Competitor Part No.	Connection		Range (psig)	Condenser side		Water side		Flow coefficient, Cv valve (gal/min)	Danfoss Code No.
		Water side (NPT)	Condenser side		Maximum working pressure (psig)	Maximum test pressure (psig)	Maximum working pressure (psig)	Maximum test pressure (psig)		
WVFX 10	V46AA-1C ¹	3/8	1/4 in. M flare	60 to 333	380	420	230	350	1.6	003N5006
WVFX 10	V46AA-1C	3/8	31 in. capillary tube with 1/4 in. flare nut ²						1.6	003N5025
WVFX 15	V46AB-1C ¹	1/2	1/4 in. M flare						2.2	003N6006
WVFX 15	V46AB-1C	1/2	31 in. capillary tube with 1/4 in. flare nut ²						2.2	003N6025
WVFX 20	V46AC-1C ¹	3/4	1/4 in. M flare						3.9	003N7006
WVFX 20	V46AC-1C	3/4	31 in. capillary tube with 1/4 in. flare nut ²						3.9	003N7025
WVFX 25	V46AD-1C ¹	1	1/4 in. M flare						6.4	003N8006
WVFX 25	V46AD-1C	1	31 in. capillary tube with 1/4 in. flare nut ²						6.4	003N8025

¹ Competitor valve equipped with capillary tube as in code no. directly below. Else, see below for capillary tube spare part (code no. 060-017166) to attach to this code no.

² Schrader depressor installed at end of capillary tube.

Length of valve from top of knob to bottom of control element is 8.07 in. for WVFX 10, 15, 20, and 8.46 in. for WVFX 25.

Temperature range: -13 to +265 °F

Maximum differential pressure: 145 psig

WVFX – Pressure Controlled Water Valves for High Pressure Refrigerants

Danfoss Type	Competitor Part No.	Connection		Range (psig)	Condenser side		Water side		Flow coefficient, Cv valve (gal/min)	Danfoss Code No.
		Water side (NPT)	Condenser side		Maximum working pressure (psig)	Maximum test pressure (psig)	Maximum working pressure (psig)	Maximum test pressure (psig)		
WVFX 10	V246GA1-001C	3/8	1/4 in. M flare	218 to 420	655	870	232	348	1.6	003N1810
WVFX 15	V246GB1-001C	1/2							2.2	003N2810
WVFX 20	V246GC1-001C	3/4							3.9	003N3810
WVFX 25	V246GD1-001C	1							6.4	003N4810

Temperature range: -13 to 265 °F

Maximum differential pressure: 145 psig

Spare Parts and Accessories

Description	Type(s) applied to	Danfoss Code No.
Rebuild kit; valve disc, (2) O-rings, (8) screws, (2) diaphragms, grease, and key	WVFX 10,15	003N4006
Rebuild kit; valve disc, (2) O-rings, (8) screws, (2) diaphragms, grease, and key	WVFX 20	003N4007
Rebuild kit; valve disc, (2) O-rings, (8) screws, (2) diaphragms, grease, and key	WVFX 25	003N4008
Capillary tube; 39 in. (1m) with 1/4 in. (6mm) flare coupling nuts on each end	WVFX with 1/4 M flare	060-017166
Bracket for WVFX 10–25	all	003N0388