

Refrigeration Note
Product Info

Water Valves for condensing pressure up to 45,2 bar (655 psig), type WVFX

Introduction

Danfoss has extended the Water Valves family with a special WVFX valve for condensing pressure up to 45.2 bar (655 psig).

The new valve is applicable for high pressure refrigerants like R 410A and CO₂.

Due to longer spring applied the valve is higher than the standard one. The other dimensions are unchanged.



Technical data

Type	Condenser side				Liquid side			k _v (c _v) value ¹⁾ m ³ /h (gal/min.)
	Refrigerant	Control pressure	Max. working pressure PB	Max test pressure p'	Media	Max. working pressure PB	Max. test pressure p'	
WVFX 10	CFC, HCFC, HFC	15 to 29 barg (220 to 420 psig)	45.2 barg (655 psig)	60 barg (852 psig)	fresh water, neutral bine	16 barg (323 psig)	24 barg (348 psig)	1.4 (1.6)
WVFX 15								1.9 (2.2)
WVFX 20								3.4 (3.9)
WVFX 25								5.5 (6.4)

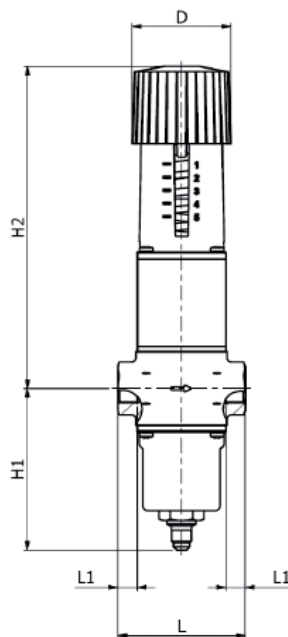
¹⁾ The k_v value is the flow of water in m³/h at a pressure drop across valve of 1 bar, ρ = 1000 kg/m³. The c_v value is the flow of water in gal/min at a pressure drop across valve of 1 psi, ρ = 10 lbs/gal.

Media temperature: -25 to 130 °C (-13 to 266 °F)
Opening differential pressure: max. 10 bar / 145 psi

Code numbers

Type	Connection		Code no.
	Water side	Condenser side	
WVFX 10	G 3/8 in	1/4 in / 6 mm flare	003N1410
WVFX 15	G 1/2 in.	1/4 in. / 6 mm flare	003N2410
WVFX 20	G 3/4 in.	1/4 in. / 6 mm flare	003N3410
WVFX 20	NPT 3/4 in.	2m cap. tube w. 1/4 in. flare	003N3411¹⁾
WVFX 25	G 1 in.	1/4 in. / 6 mm flare	003N4410
WVFX 25	NPT 1 in.	2m cap. tube w. 1/4 in. flare	003N4411¹⁾

¹⁾ Control condenser pressure: 4-26 bar (60-375 psig)

Dimensions


Type	H1 mm	H2 mm	L mm	L1 mm	D mm	Weight kg
WVFX 10	91	189	72	11	55	1
WVFX 15	91	189	72	14	55	1
WVFX 20	91	189	90	16	55	2
WVFX 25	96	194	95	19	55	2

Availability

The WVFX valve for 45.2 bar condensing pressure is available for ordering.

Packing

The valves are supplied in the same standard packing as the other WVFX valves.

Literature

The technical leaflet will be updated by December 2007.

Who to contact

Should you have any questions related, please contact

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