

Danfoss Valve Comparison Data for Regulating Valves and Solenoid Valve

DIRECT OPERATED SOLENOID VALVES

Danfoss					Refrigeration Specialties					Hansen Technologies				
Valve Type	C _v	Nom. Port Size	Min. ΔP to Open	Available Connections (inches)	Valve Type	C _v	Nom. Port Size	Min. ΔP to Open	Available Connections (inches)	Valve Type	C _v	Nom. Port Size	Min. ΔP to Open	Available Connections (inches)
EVRA3	0.3	1/8"	0	3/8, 1/2, 3/4	S6N	0.6	3/16"	0	1/4, 3/8, 3/4	HS6	0.4	5/32"	0	1/4, 3/8, 3/4
EVRAT10	1.8	3/8"	0	3/8, 1/2, 3/4	X	X	X	X	X	X	X	X	X	X
EVRAT15	3.2	1/2"	0	3/8, 1/2, 3/4	X	X	X	X	X	X	X	X	X	X
EVRAT20	5.3	3/4"	0	3/4, 1, 1 1/4	X	X	X	X	X	X	X	X	X	X
EVSA25	8.7	1"	0	1, 1 1/4	X	X	X	X	X	X	X	X	X	X
EVSA35	21.4	1 1/2"	0	1 1/2, 2	X	X	X	X	X	X	X	X	X	X
EVSA50	33.6	2"	0	2	X	X	X	X	X	X	X	X	X	X

PILOT OPERATED SOLENOID VALVES

Danfoss					Refrigeration Specialties					Hansen Technologies				
Valve Type	C _v	Nom. Port Size	Min. ΔP to Open	Available Connections (inches)	Valve Type	C _v	Nom. Port Size	Min. ΔP to Open	Available Connections (inches)	Valve Type	C _v	Nom. Port Size	Min. ΔP to Open	Available Connections (inches)
EVRA10	1.7	3/8"	1	3/8, 1/2, 3/4	X	X	X	X	X	X	X	X	X	X
EVRA15	3.1	1/2"	1	3/8, 1/2, 3/4	S8F	2.7	1/2"	1	3/8, 1/2, 3/4	HS8	2.9	1/2"	X	3/8, 1/2, 3/4
EVRA20	5.2	3/4"	1	3/4, 1, 1 1/4	S7A	8	3/4"	0	3/4, 1, 1 1/4	HS7	8	3/4"	X	3/4, 1, 1 1/4
EVRA25	11.6	1"	1	3/4, 1, 1 1/4	S7A	10	1"	0	3/4, 1, 1 1/4	HS7	10	1"	X	3/4, 1, 1 1/4
PMS20	8.2	3/4"	2.5	3/4, 1, 1 1/4	S4A	7.2	3/4"	4	3/4, 1, 1 1/4	HS4A	6.4	3/4"	2	3/4, 1, 1 1/4
PMS25	13.5	1"	2.5	1, 1 1/4	S4A	10	1"	4	3/4, 1, 1 1/4	HS4A	11.7	1"	2	1, 1 1/4
PMS32	20	1 1/4"	2.5	1 1/4, 1 1/2	S4A	17.5	1 1/4"	4	1 1/4, 1 1/2	HS4A	16.4	1 1/4"	2	1 1/4, 1 1/2
PMS40	35	1 1/2"	2.5	1 1/2, 2	S4A	33.4	1 5/8"	2	1 1/2, 2	HS4A	35	1 1/2"	2	1 1/2, 2
PMS50	50	2"	2.5	2, 2 1/2	SA	42.4	2"	2	1 1/2, 2	HS4A	47	2"	2	2
PMS65	92	3"	2.5	3	S4A	100	3"	2	3	HS4A	104	3"	2	3
PMS80	165	4"	2.5	4	S4A	162	4"	2	4	HS4A	166	4"	2	4
PMS100	240	5"	2.5	5	S4W	200	5"	2	5	HS4W	242	5"	2	5
PMS125	385	6"	2.5	6	S4W	360	6"	2	6	HS4W	413	6"	2	6

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REGULATOR VALVE COMPARISON

Danfoss				Refrigeration Specialties				Hansen Technologies			
Valve Type	C _v	Nom. Port Size	Available Connections (inches)	Valve Type	C _v	Nom. Port Size	Available Connections (inches)	Valve Type	C _v	Nom. Port Size	Available Connections (inches)
PMR5	1.8	3/16"	3/4, 1, 1 1/4	A4A	1.2	(17%) 3/4"	3/4, 1, 1 1/4	HA4A	1.6	(25%) 3/4"	3/4, 1, 1 1/4
PMR10	3.5	3/8"	3/4, 1, 1 1/4	A4A	3.6	(50%) 3/4"	3/4, 1, 1 1/4	HA4A	3.5	(50%) 3/4"	3/4, 1, 1 1/4
PMR15	4.6	9/16"	3/4, 1, 1 1/4	X	X	X	X	X	X	X	X
PMR20	8.2	3/4"	3/4, 1, 1 1/4	A4A	7.2	3/4"	3/4, 1, 1 1/4	HA4A	6.4	3/4"	3/4, 1, 1 1/4
PMR25	13.5	1"	3/4, 1, 1 1/4	A4A	10	1"	3/4, 1, 1 1/4	HA4A	11.7	1"	3/4, 1, 1 1/4
PMR32	20	1 1/4"	1 1/4, 1 1/2	A4A	17.5	1 1/4"	1 1/4, 1 1/2	HA4A	16.4	1 1/4"	1 1/4, 1 1/2
PMR40	35	1 1/2"	1 1/2, 2	A4A	33.4	1 5/8"	1 1/2, 2	HA4A	35	1 5/8"	1 1/2, 2
PMR50	50	2"	2, 2 1/2	A4A	49.5	2"	1 1/2, 2	HA4A	47	2"	1 1/2, 2
PMR65	92	3"	2 1/2, 3	A4A	100	3"	3	HA4A	104	3"	3
PMR80	165	4"	4	A4A	135	4"	4	HA4A	166	4"	4
PMR100	240	5"	5	A4AW	200	5"	5	HA4AW	242	5"	5
PMR125	385	6"	6	A4AW	360	6"	6	HA4AW	413	6"	6

VARIATIONS

Valve Suffix	Function	Danfoss	Refrigerating	Hansen Technologies
STD.	Control Inlet Pressure	X	X	X
"O"	Control Outlet Pressure	X	X	X
"L"	Control Differential Pressure Across Valve	X	X	X
"D"	Control Dual (Hi-Low) Pressure	X	X	X
"J"	Electronic Pressure Control	X		X
"S"	Electric Shut Off	X	X	X
"B"	Electric Wide Opening	X	X	X
"K"	Reseating Relief Regulator	X	X	X
"M"	Motor Changes Pressure Set-Point to Varying Load	X	X	X
"T"	Temperature Operated	X	X	X
"BL"	Electric Wide Opening and Differential	X	X	X
"JD"	Electronic Control w/Dual Pressure Control	X		X