GENERAL CHARACTERISTICS OF NC VALVES WITH ODS

CONNECTIONS

Operating Principles	Catalogue Number	Connections ODS		Seat size nominal Ø [mm]	Kv Factor [m³/h]	Opening Pressure Differential [bar]					PS [bar]	TS [°C]		TA [°C]		Risk Category according to PED Recast
							MOPD									
							coil series									
		Ø [in.]	Ø [mm]			min OPD	9100 9110 9300 (AC)	9160 (AC)	9120 9320 (AC)	9120 9320 (DC)		min.	max.	min. (3)	max.	
Direct Acting	1028/2#	1/4"	–	2,2	0,15	0	21	28	35	21	45	– 35	+110 (2)	– 35	+50	Art. 4.3
	1028/2#.E	1/4"	–	3	0,23											
	1028/3#	3/8"	–													
	1028/M10#	–	10													

= S , A6 , A7
(1) Temperature peaks of 120 °C are allowed during defrosting
(2) Temperature peaks of 130 °C are allowed during defrosting
(3) Check TAmin of the chosen coil

REFRIGERANT FLOW CAPACITY OF NC VALVES [KW]

Operating Principles	Catalogue Number	Liquid line												
		R134a	R22	R32	R404A	R407C	R410A	R507	R1234yf	R1234ze	R448A	R449A	R450A	R452A
Direct Acting	1020/2#	2,98	3,20	4,40	2,08	3,02	3,00	2,01	2,20	2,63	2,74	2,75	2,78	2,12
	1020/3#	3,91	4,21	5,78	2,74	3,96	3,95	2,65	2,89	3,46	3,60	3,62	3,66	2,79
	1028/2#	2,55	2,75	3,77	1,79	2,58	2,58	1,73	1,89	2,26	2,35	2,36	2,39	1,82
	1028/2#.E	3,91	4,21	5,78	2,74	3,96	3,95	2,65	2,89	3,46	3,60	3,62	3,66	2,79
	1028/3#													
	1028/M10#													

Standard rating conditions according to AHRI Standard 760-2007
Temperature leaving evaporator 50 °F (9,9 °C)
Condensing temperature 110 °F (43,3 °C); Evaporator superheating 10 °R (5,5 °K)
Liquid temperature 100 °F (37,8 °C); Suction line temperature 65 °F (18,3 °C)
Subcooling 10 °R (5,5 °K); Suction superheating 15 °R (8,4 °K)
Evaporating temperature 40 °F (4,4 °C); Discharge temperature 160 °F (71,1 °C)

DIMENSIONS AND WEIGHTS OF NC VALVES WITH 9300 COILS

Operating Principles	Catalogue Number	Dimensions [mm]						Weight [g]
		H_1	H_2	H_3	L_1	L_2	Q	
Direct Acting	1020/2#	75	62,5	34	58	52	–	340
	1020/3#				65			355
	1028/2#				125			350
	1028/2#.E				125			350
	1028/3#				125			365
	1028/M10#				125			365