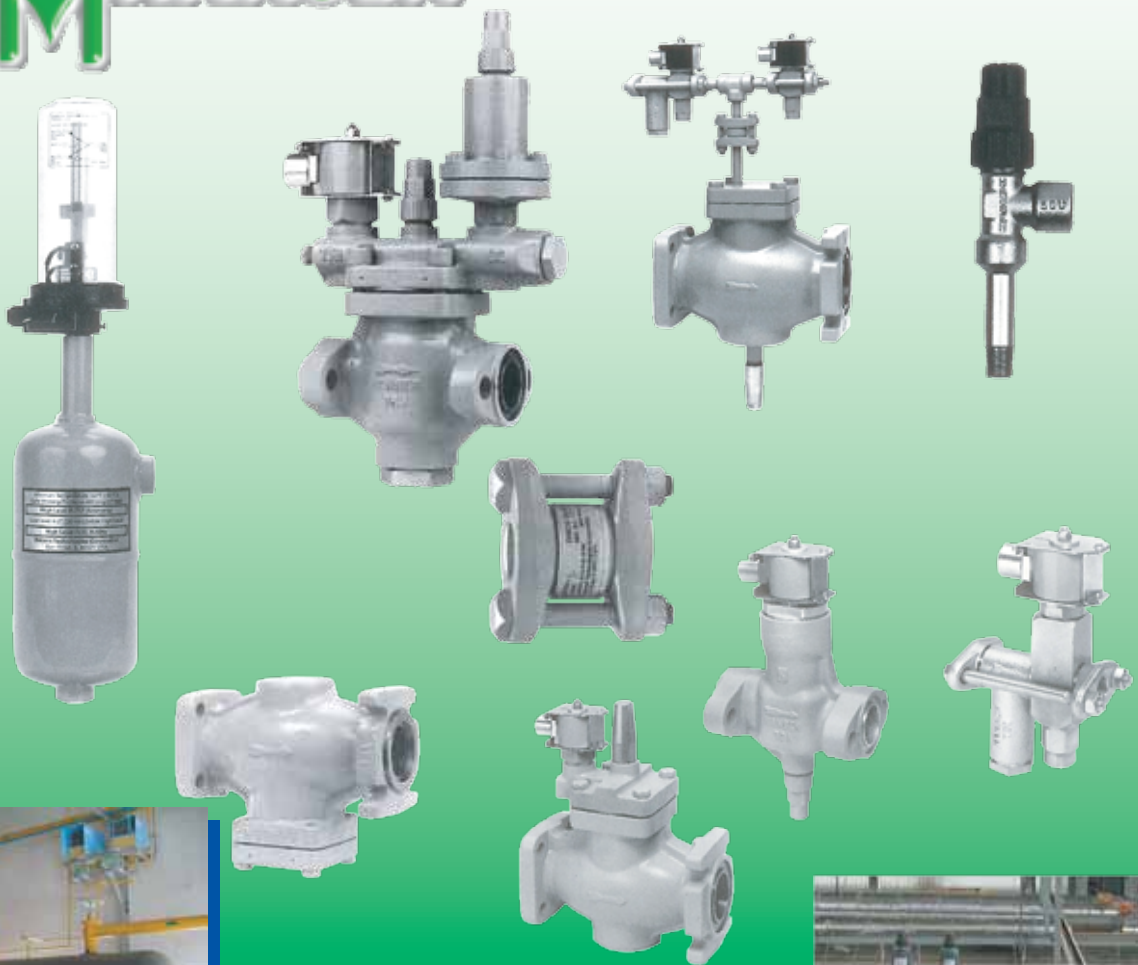


# Refrigerant Control Valve

## HANSEN



**I.T.C. (1993) CO., LTD.**

10, 12 ซอยรามคำแหง 118 แยก 61 แขวงสะพานสูง เขตสะพานสูง กทม. 10240  
10, 12 Soi Ramkhamhaeng 118 Yak 61, Saphansong, Saphansong, Bangkok 10240 Thailand.

Tel : +66-2184-0055 Fax : +66-2184-0065

[www.itc-group.co.th](http://www.itc-group.co.th) [info@itc-group.co.th](mailto:info@itc-group.co.th)



# Refrigerant Control Valve



## VALVE SELECTION

Application			Port size											
			5/32"	1/2"	3/4"	1"	1-1/4"	1-1/4"	2"	2-1/2"	3"	4"	5"	6"
Liquid Line High Pressure or Recirculation			HS6 HS2	HS8	HS7 HS4A	HS7 HS4A	HS7 HS4A	HS4A	HS4A	HS4A	HS4A	HS4A	HS4W	HS4W
Suction Line	Down to -40 F		-	--	HS7 HS4A	HS7 HS4A	HS7 HS4A	HS4A	HS4A	HS4A	HS4A	HS4A	HS4W	HS4W
	Down to -60F	Gas-Powered Suction Stop	-	--	-	--	HCK2	HCK2	HCK2	HCK2	HCK2	HCK2	HCK2W	HCK2W
		Gas-Powered Solenoid	-	--	-	--	HS9B	HS9B	HS9B	HS9B	HS9B	HS9B	HS9BW	HS9BW
Hot Gas or Discharge Line			-	HS8	HS7 HS4A	HS7 HS4A	HS7 HS4A	HS4A	HS4A	HS4A	HS4A	HS4A	HS4W	HS4W
Gravity Drain or Vent Application			-	--	-	--	HS9B	HS9B	HS9B	HS9B	HS9B	HS9BW	HS9BW	

**GAUGE VALVE**

These Long Neck gauge valves feature a plated, forged steel body that provides gauge installation space and will easily fit a wrench. The retained stainless steel safety stems are designed to be non-removable to avoid dangerous stem "blow out". Dual packing design provides a smooth acting, leak free stem seal. Includes seal cap. Connection is 1/4" MPT inlet x 1/4" FPT outlet.

Description	Type	Function	Range	Typical Applications
Standard Regulator	HA4A	Regulates inlet pressure	A: 0 to 150 psig B: 30 to 300 psig V: 20" to 130 psig	1. Evaporator pressure control 2. Controlled receiver pressure 3. Compressor discharge pressure
Regulator with Electric Shut-off	HA4AS*	Regulates inlet pressure, electric closing	A: 0 to 150 psig B: 30 to 300 psig V: 20" to 130 psig	1. Temperature control 2. Defrost control
Regulator with Electric Wide-Opening	HA4AB*	Regulates inlet pressure, electric wide open	A: 0 to 150 psig B: 30 to 300 psig V: 20" to 130 psig	1. Defrost control 2. Temperature control with wide opening for maximum cooling
Dual Pressure Regulator	HA4AD*	Regulates at to different pressure settings	A: 0 to 150 psig B: 30 to 300 psig V: 20" to 130 psig	1. Defrost control 2. Temperature control 3. Pressure relief
Outlet Pressure Regulator	HA4AO	Regulates outlet pressure	V: 20" to 130 psig B: 30 to 300 psig	1. Hot gas defrost supply 2. Receiver pressure control 3. Artificial compressor loading 4. Compressor suction limitation
Differential Pressure Regulator	HA4AL	Maintains set-fpr pressure differential	A: 0 to 150 psig (difference)	1. Liquid pump relief 2. Condenser-receiver pressure 3. Non-atmospheric relief
Reseating Relief Regulator	HA4AK	Provides fixed pressure relief to lower pressure section of system	A: 0 to 150 psig B: 30 to 300 psig	1. Defrost relief 2. High to low side relief

Nominal Port Size	Flange Connection Styles & Sizes				Wt. Lbs.
	FPT, SW, or WN		ODS		
	Std.	Also	Std.		
1-1/4"	1-1/4"	1-1/2" WN	1-3/8"		29
1-1/2" 2"	1-1/2" 2"	2" 1-1/2"	1-5/8" 2-1/8"		53
	2-1/2" 3" 4"	2-1/2" 3" 4"	3" -- 4-1/8"	2-5/8" 3-1/8" 4-1/8"	84 96 148
5" 6"	5" 6"	5" BW 6" BW	-- --	-- --	259 279

Weight includes flanges and 2 pilot solinoids. 5" and 6" are integral butt weld end only ; Type HS9BW.

Size	Cat. No.	Wt. Lbs.
1/2"	ST050	3
3/4" 1" 1-1/4"	ST100	14
	ST100	14
	ST100	14
1-1/2" 2"	ST200	41
	ST200	41
2-1/2" 3" 4"	ST250	68
	ST300	79
	ST400	128
	ST400	128
5" 6"	STW500	240
	STW600	260

1/2" threaded drain plug standard 1-1/2" and larger ; for ST100 on request, optional 1/4" threaded drain plug available.

Type	Port Size	Cv	Flange Connection Styles & Sizes		Wt. Lbs.
			FPT, SW, or WN	ODS	
HCK4-2*	5/8"	5.8	1/2" , 3/4"	5/8"	2
HCK4-3*	3/4"	8.2	3/4"	7/8"	5
HCK4-4*	1"	11.7	1"	1-1/8"	5
HCK4-5	1-1/4"	14.0	1-1/4"; 1-1/2" WN	1-3/8"	5
HCK4-7	1-1/2"	39	1-1/2"	1-5/8"	15
HCK4-8*	2"	50	2"	2-1/8"	14
HCK4-9	2-1/2"	74	2-1/2"	2-5/8"	27
HCK4-0	3"	93	3"	3-1/8"	24
HCK4-1*	4"	210	4"	4-1/8"	35

\* Replaces R/S CK4A-2, -3, -4, -8, -1, same flanges and length.  
Note : Close-coupling to outlet of valves requires Male Adapter Ring

Cat. No.	Description	Wt. Lbs.
HLL	Standard Hermetic Float Switch with side and bottom connection	12
HLLS	Universal Hermetic Float Switch with 2 side and 1 bottom connection	13
HLLC	HLL with protective metal cover	13
HLLSC	HLLS with protective metal cover	14
HLLSW	Switch Assembly Replacement Only (fits all HLL & R/S LL Float Switches)	2
E	European DIN Quick Disconnect on any of above. (Add E suffix)	1
COV	Metal Cover only (fits all HLL)	1
HTR1*	10 Watt 115V heater (fits all HLL)	1
HTR2*	10 Watt 230V heater (fits all HLL)	1

NOTE : Add "E" suffix for switch with 4 wire, grounded DIN Plug connector ; Example : HLLC  
\*To order float switch with heater, add "H" suffix, example : HLLH and specify heater voltage.

