

# TH THW 型热力膨胀阀 Thermostatic Expansion Valve



TH型  
Model TH

阀芯  
Orifice

THW型  
Model THW

## 产品概述 Product Description

- T型膨胀阀是一种可换芯的新型热力膨胀阀
- T型膨胀阀用于调节蒸发器中液体制冷剂的供给量
- T型膨胀阀特别适合于干式蒸发器中制冷剂液体的供给
- T型膨胀阀是通过制冷剂的过热度调节来进行自动控制的

- T-type expansion valve is a novel thermostatic expansion valve with replaceable valve element
- T-type expansion valve is used for adjusting the supply quantity of liquid refrigerant in evaporator
- T-type expansion valve is particularly suitable for supplying liquid refrigerant in dry-type evaporator
- T-type expansion valve has autocontrol through regulating the-superheating degree of refrigerant.

## 特点 Features

- 蒸发温度范围大
- 可提供MOP功能, 可使压缩机电机不会因过高的蒸发压力而损伤。
- 具有内外平衡两种形式, 能有效的消除蒸发器压力损失带来的影响。
- 具有发明专利的膜片结构, 大大改善了低温下的工作性能。
- 阀帽采用二次密封结构, 有效降低外泄漏概率。
- 带过滤功能的可换阀芯组件, 便于库存、匹配和维修。
- 温包采用混合充注技术, 使整个蒸发温度范围内都具有等过热度特性。

- Large scope of evaporating temperature.
- be capable of providing MOP function so as not to damage the compressor motor due to overhigh evaporating pressure.
- Have two forms of internal and external equaliser, be capable of removing influence brought by loss of evaporator pressure effectively.
- Have the membrane structure with invention patent, greatly improve the working performance at low temperature.
- The bonnet adopts a secondary sealing structure to reduce the percentage of external leakage .
- With filtering orifice,convenient storage, matching and maintenance
- The temperature wrap has mixed charging technology so as to have the feature of superheating degree within the whole evaporating temperature range

## 技术参数 Technical Parameters

适用制冷剂 Applicable Refrigerants	R22/R407C、R134a、R404A冷媒等介质	<ul style="list-style-type: none"> <li>• T型热力膨胀阀毛细管长度: 标准1.5m, 特殊情况可按用户要求。</li> <li>• Capillary length of T-type thermostatic expansion valve:1.5m in atandard; under special situation,it can be customized based on clients' requirements.</li> </ul>
适用介质温度 Applicable Medium	R22/R407C: -40°C~+10°C; R134a:-30°C~+10°C;R404A:-40°C~+10°C	
名义容量 Norminal Capacity	2.5KW~15.5KW、1.8KW~10.5KW、1.6KW~9.1KW	
过热度调节范围 Adjustable Range of Superheat	2°C~8°C	
出厂静热度调定值 Ex-Works Static Heat Adjustment	3.5°C	
最大工作压力 Maximum Working Pressure	2.8MPa	
最大测试压力 Maximum Testing Pressure	3.2MPa	

选型表 Model Selection

制冷剂 Refrigerant	型号 Model	阀芯 Spool	冷凝温度 (°C) Condensing Temp	制冷量(KW)/(TR)										
				蒸发温度(°C) Evaporation temperature										
				-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
R22/R407C	TH22/ TH22W	1#	25	1.3/0.37	1.48/0.42	1.69/0.48	1.91/0.55	2.14/0.61	2.36/0.67	2.58/0.74	2.75/0.79	2.86/0.82	2.86/0.82	2.72/0.78
		2#		1.46/0.42	1.69/0.48	1.94/0.55	2.22/0.63	2.52/0.72	2.85/0.81	3.18/0.91	3.49/1	3.75/1.07	3.88/1.11	3.81/1.09
		3#		2.44/0.7	2.83/0.81	3.26/0.93	3.73/1.07	4.24/1.21	4.78/1.37	5.33/1.52	5.85/1.67	6.29/1.8	6.53/1.87	6.46/1.85
		4#		3.52/1.01	4.07/1.16	4.7/1.34	5.42/1.55	6.24/1.78	7.11/2.03	8.02/2.29	8.87/2.53	9.55/2.73	9.88/2.82	9.71/2.77
		5#		4.6/1.31	5.31/1.52	6.14/1.75	7.08/2.02	8.15/2.33	9.34/2.67	10.62/3.03	11.86/3.39	12.91/3.69	13.48/3.85	13.29/3.8
		6#		5.43/1.55	6.26/1.79	7.22/2.06	8.32/2.38	9.56/2.73	10.95/3.13	12.43/3.55	13.91/3.97	15.18/4.34	15.91/4.55	15.71/4.49
	TH22/ TH22W	1#	35	1.34/0.38	1.54/0.44	1.76/0.5	2/0.57	2.26/0.65	2.53/0.72	2.8/0.8	3.06/0.87	3.27/0.93	3.4/0.97	3.43/0.98
		2#		1.52/0.43	1.76/0.5	2.03/0.58	2.34/0.67	2.68/0.77	3.06/0.87	3.46/0.99	3.88/1.11	4.29/1.23	4.63/1.32	4.83/1.38
		3#		2.56/0.73	2.97/0.85	3.44/0.98	3.95/1.13	4.52/1.29	5.16/1.47	5.84/1.67	6.55/1.87	7.24/2.07	7.83/2.24	8.2/2.34
		4#		3.77/1.08	4.34/1.24	5.02/1.43	5.8/1.66	6.69/1.91	7.7/2.2	8.8/2.51	9.94/2.84	11.03/3.15	11.92/3.41	12.45/3.56
		5#		4.92/1.41	5.67/1.62	6.54/1.87	7.57/2.16	8.76/2.5	10.13/2.89	11.68/3.34	13.35/3.81	15/4.29	16.4/4.69	17.19/4.91
		6#		5.77/1.65	6.65/1.9	7.66/2.19	8.85/2.53	10.23/2.92	11.82/3.38	13.62/3.89	15.59/4.45	17.57/5.02	19.3/5.51	20.32/5.81
	TH22/ TH22W	1#	45	1.37/0.39	1.58/0.45	1.81/0.52	2.06/0.59	2.33/0.67	2.63/0.75	2.93/0.84	3.24/0.93	3.51/1	3.74/1.07	3.87/1.11
		2#		1.56/0.45	1.81/0.52	2.09/0.6	2.41/0.69	2.77/0.79	3.18/0.91	3.64/1.04	4.13/1.18	4.63/1.32	5.11/1.46	5.48/1.57
		3#		2.64/0.75	3.07/0.88	3.55/1.01	4.09/1.17	4.71/1.35	5.41/1.55	6.18/1.77	7.03/2.01	7.91/2.26	8.75/2.5	9.42/2.69
		4#		3.96/1.13	4.55/1.3	5.24/1.5	6.05/1.73	6.98/1.99	8.05/2.3	9.26/2.65	10.56/3.02	11.9/3.4	13.15/3.76	14.17/4.05
		5#		5.17/1.48	5.94/1.7	6.84/1.95	7.91/2.26	9.16/2.62	10.64/3.04	12.53/3.58	14.28/4.08	16.35/4.67	18.32/5.23	19.87/5.68
		6#		6.04/1.73	6.94/1.98	7.99/2.28	9.22/2.63	10.68/3.05	12.39/3.54	14.38/4.11	16.65/4.76	19.13/5.47	21.57/6.16	23.55/6.73
	TH22/ TH22W	1#	55	1.38/0.39	1.59/0.45	1.82/0.52	2.07/0.59	2.35/0.67	2.66/0.76	2.98/0.85	3.3/0.94	3.61/1.03	3.88/1.11	4.08/1.17
		2#		1.58/0.45	1.83/0.52	2.12/0.61	2.44/0.7	2.81/0.8	3.24/0.93	3.71/1.06	4.24/1.21	4.79/1.37	5.34/1.53	5.81/1.66
		3#		2.68/0.77	3.11/0.89	3.6/1.03	4.16/1.19	4.8/1.37	5.52/1.58	6.34/1.81	7.26/2.07	8.25/2.36	9.24/2.64	10.09/2.88
		4#		4.11/1.17	4.66/1.33	5.38/1.54	6.19/1.77	7.13/2.04	8.21/2.35	9.43/2.69	10.79/3.08	12.23/3.49	13.65/3.9	14.93/4.27
		5#		5.36/1.53	6.14/1.75	7.05/2.01	8.12/2.32	9.38/2.68	10.89/3.11	12.65/3.61	14.67/4.19	16.9/4.83	19.17/5.48	21.13/6.04
		6#		6.24/1.78	7.14/2.04	8.2/2.34	9.44/2.7	10.92/3.12	12.66/3.62	14.73/4.21	17.13/4.89	19.83/5.67	22.64/6.47	25.16/7.19
R134a	TH134/ TH134w	1#	25	0.71/0.20	0.81/0.23	0.93/0.27	1.09/0.31	1.21/0.35	1.29/0.37	1.52/0.43	1.59/0.45	1.68/0.48	1.83/0.52	1.82/0.52
		2#		0.79/0.23	0.89/0.25	1.02/0.29	1.19/0.34	1.43/0.41	1.52/0.43	1.72/0.49	1.92/0.55	2.12/0.61	2.21/0.63	2.19/0.63
		3#		1.31/0.37	1.53/0.44	1.69/0.48	2.02/0.58	2.31/0.66	2.63/0.75	2.91/0.83	3.18/0.91	3.49/1.00	3.7/1.06	3.84/1.10
		4#		1.88/0.54	2.21/0.63	2.52/0.72	2.91/0.83	3.31/0.95	3.69/1.05	4.19/1.20	4.69/1.34	5.58/1.59	5.56/1.59	5.73/1.64
		5#		2.52/0.72	2.93/0.84	3.29/0.94	3.79/1.08	4.35/1.24	4.91/1.40	5.63/1.61	6.15/1.76	6.83/1.95	7.33/2.09	7.51/2.15
		6#		2.99/0.85	3.38/0.97	3.91/1.12	4.51/1.29	5.23/1.49	5.88/1.68	6.72/1.92	7.56/2.16	8.25/2.36	8.76/2.50	8.99/2.57
	TH134/ TH134w	1#	35	0.71/0.20	0.82/0.23	0.98/0.28	1.12/0.32	1.16/0.33	1.39/0.40	1.30/0.37	1.80/0.51	2.02/0.58	2.02/0.58	2.13/0.61
		2#		0.82/0.23	0.93/0.27	1.12/0.32	1.19/0.34	1.42/0.41	1.58/0.45	1.89/0.54	2.12/0.61	2.39/0.68	2.53/0.72	2.81/0.80
		3#		1.39/0.40	1.62/0.46	1.82/0.52	2.13/0.61	2.37/0.68	2.83/0.81	3.09/0.88	3.45/0.99	4.01/1.15	4.51/1.29	4.75/1.36
		4#		2.02/0.58	2.33/0.67	2.63/0.75	3.01/0.86	3.53/1.01	3.99/1.14	4.59/1.31	5.18/1.48	5.95/1.70	6.58/1.88	7.22/2.06
		5#		2.73/0.78	3.01/0.86	3.52/1.01	4.02/1.15	4.62/1.32	5.33/1.52	6.08/1.74	6.91/1.97	7.76/2.22	8.69/2.48	9.41/2.69
		6#		3.18/0.91	3.62/1.03	4.11/1.17	4.85/1.39	5.53/1.58	6.28/1.79	7.22/2.06	8.24/2.35	9.26/2.65	10.31/2.95	11.25/3.21
	TH134/ TH134w	1#	45	0.77/0.22	0.83/0.24	0.96/0.27	1.08/0.31	1.34/0.38	1.46/0.42	1.73/0.49	1.92/0.55	2.11/0.60	2.25/0.64	2.53/0.72
		2#		0.81/0.23	0.92/0.26	1.12/0.32	1.33/0.38	1.52/0.43	1.69/0.48	1.92/0.55	2.23/0.64	2.53/0.72	2.85/0.81	3.16/0.90
		3#		1.42/0.41	1.66/0.47	1.83/0.52	2.16/0.62	2.49/0.71	2.75/0.79	3.34/0.95	3.71/1.06	4.23/1.21	4.69/1.34	5.32/1.52
		4#		2.11/0.60	2.42/0.69	2.68/0.77	3.21/0.92	3.58/1.02	4.26/1.22	4.76/1.36	5.61/1.60	6.31/1.80	7.12/2.03	7.85/2.24
		5#		2.83/0.81	3.15/0.90	3.66/1.05	4.15/1.19	4.86/1.39	5.55/1.59	6.25/1.79	7.28/2.08	8.15/2.33	9.25/2.64	10.29/2.94
		6#		3.36/0.96	3.72/1.06	4.31/1.23	4.94/1.41	5.62/1.61	6.52/1.86	7.46/2.13	8.63/2.47	9.91/2.83	11.2/3.20	12.44/3.55

选型表 Model Selection

制冷剂 Refrigerant	型号 Model	阀芯 Spool	冷凝温度 (°C) Condensing Temp	制冷量(KW)/(TR)										
				蒸发温度(°C) Evaporation temperature										
				-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
R134a	TH134/ TH134w	1#	55	0.75/0.21	0.82/0.23	0.96/0.27	1.13/0.32	1.32/0.38	1.56/0.45	1.75/0.50	1.93/0.55	2.14/0.61	2.33/0.67	2.54/0.73
		2#		0.83/0.24	0.95/0.27	1.12/0.32	1.28/0.37	1.49/0.43	1.78/0.51	1.89/0.54	2.15/0.61	2.53/0.72	2.75/0.79	3.18/0.91
		3#		1.44/0.41	1.62/0.46	1.82/0.52	2.06/0.59	2.38/0.68	2.69/0.77	3.41/0.97	3.74/1.07	4.26/1.22	4.63/1.32	5.26/1.50
		4#		2.11/0.60	2.42/0.69	2.83/0.81	3.25/0.93	3.65/1.04	4.26/1.22	4.76/1.36	5.53/1.58	6.21/1.77	7.08/2.02	7.93/2.27
		5#		2.86/0.82	3.21/0.92	3.56/1.02	4.23/1.21	4.91/1.40	5.52/1.58	6.33/1.81	7.23/2.07	8.21/2.35	9.4/2.69	10.3/2.94
		6#		3.29/0.94	3.74/1.07	4.29/1.23	4.92/1.41	5.82/1.66	6.43/1.84	7.52/2.15	8.66/2.47	9.85/2.81	11.2/3.20	12.35/3.53
R404A/R507	TH404/ TH404W	1#	25	0.99/0.28	1.18/0.34	1.39/0.4	1.65/0.47	1.83/0.52	1.93/0.55	2.13/0.61	2.23/0.64	2.41/0.69	2.43/0.69	2.36/0.67
		2#		1.12/0.32	1.34/0.38	1.56/0.45	1.93/0.55	2.21/0.63	2.52/0.72	2.85/0.81	3.02/0.86	3.32/0.95	3.19/0.91	3.15/0.9
		3#		1.13/0.32	2.22/0.63	2.67/0.76	3.12/0.89	3.71/1.06	4.15/1.19	4.65/1.33	5.31/1.52	5.53/1.58	5.5/1.57	5.36/1.53
		4#		2.73/0.78	3.21/0.92	3.83/1.09	4.62/1.32	5.44/1.55	6.13/1.75	7.21/2.06	7.82/2.23	8.52/2.43	8.72/2.49	8.59/2.45
		5#		3.52/1.01	4.23/1.21	5.03/1.44	6.03/1.72	7.21/2.06	8.26/2.36	9.35/2.67	10.34/2.95	11.23/3.21	11.43/3.27	11.17/3.19
		6#		4.23/1.21	5.02/1.43	6.11/1.75	7.12/2.03	8.36/2.39	9.85/2.81	11.13/3.18	12.56/3.59	13.41/3.83	13.8/3.94	13.25/3.79
	TH404/ TH404W	1#	35	0.93/0.27	1.16/0.33	1.25/0.36	1.63/0.47	1.82/0.52	1.98/0.57	2.35/0.67	2.39/0.68	2.65/0.76	2.77/0.79	2.68/0.77
		2#		1.21/0.35	1.25/0.36	1.53/0.44	1.82/0.52	2.13/0.61	2.61/0.75	2.91/0.83	3.41/0.97	3.49/1	3.65/1.04	3.95/1.13
		3#		1.69/0.48	2.11/0.6	2.67/0.76	3.15/0.9	3.65/1.04	4.29/1.23	4.92/1.41	5.63/1.61	6.03/1.72	6.62/1.89	6.63/1.89
		4#		2.54/0.73	3.06/0.87	3.85/1.1	4.61/1.32	5.51/1.57	6.51/1.86	7.46/2.13	8.62/2.46	9.38/2.68	10.31/2.95	10.62/3.03
		5#		3.46/0.99	3.99/1.14	4.91/1.4	5.81/1.66	7.12/2.03	8.2/2.34	9.75/2.79	11.21/3.2	12.53/3.58	13.52/3.86	13.59/3.88
		6#		4.12/1.18	4.76/1.36	5.86/1.67	7.1/2.03	8.33/2.38	10.1/2.89	11.8/3.37	13.52/3.86	14.92/4.26	16.03/4.58	16.25/4.64
	TH404/ TH404W	1#	45	0.88/0.25	0.98/0.28	1.16/0.33	1.46/0.42	1.72/0.49	1.79/0.51	2.25/0.64	2.51/0.72	2.61/0.75	2.72/0.78	2.93/0.84
		2#		0.96/0.27	1.22/0.35	1.42/0.41	1.75/0.5	2.03/0.58	2.45/0.7	2.71/0.77	3.22/0.92	3.53/1.01	3.95/1.13	4.22/1.21
		3#		1.55/0.44	2.05/0.59	2.51/0.72	2.93/0.84	3.51/1	4.23/1.21	4.92/1.41	5.61/1.6	6.13/1.75	6.68/1.91	7.15/2.04
		4#		2.36/0.67	2.92/0.83	3.66/1.05	4.21/1.2	5.23/1.49	6.21/1.77	7.35/2.1	8.38/2.39	9.65/2.76	10.92/3.12	11.29/3.23
		5#		3.25/0.93	3.82/1.09	4.53/1.29	5.49/1.57	6.6/1.89	8.1/2.31	9.49/2.71	11.1/3.17	13.1/3.74	14.25/4.07	15.02/4.29
		6#		3.78/1.08	4.56/1.3	5.51/1.57	6.63/1.89	7.85/2.24	9.7/2.77	11.52/3.29	13.6/3.89	15.33/4.38	16.8/4.8	17.85/5.1
	TH404/ TH404W	1#	55	0.73/0.21	0.86/0.25	1.15/0.33	1.32/0.38	1.51/0.43	1.75/0.5	2.06/0.59	2.16/0.62	2.5/0.71	2.53/0.72	2.76/0.79
		2#		0.86/0.25	0.98/0.28	1.23/0.35	1.49/0.43	1.82/0.52	2.1/0.6	2.43/0.69	2.99/0.85	3.23/0.92	3.75/1.07	4.03/1.15
		3#		1.35/0.39	1.69/0.48	2.21/0.63	2.53/0.72	3.01/0.86	3.63/1.04	4.36/1.25	5.03/1.44	5.76/1.65	6.31/1.8	6.85/1.96
		4#		2.23/0.64	2.65/0.76	3.12/0.89	3.69/1.05	4.52/1.29	5.51/1.57	6.55/1.87	7.61/2.17	9.1/2.6	10.01/2.86	10.92/3.12
		5#		2.91/0.83	3.43/0.98	4.06/1.16	4.85/1.39	5.93/1.69	7.25/2.07	8.69/2.48	10.41/2.97	11.75/3.36	13.6/3.89	14.3/4.09
		6#		3.29/0.94	4.01/1.15	4.75/1.36	5.82/1.66	7.11/2.03	8.39/2.4	10.38/2.97	12.26/3.5	14.4/4.11	16.2/4.63	17.35/4.96
R410A	TH410/ TH410W	1#	25	1.03/0.29	1.33/0.38	1.68/0.48	1.96/0.56	2.35/0.67	2.69/0.77	3.1/0.89	3.29/0.94	3.81/1.09	3.65/1.04	3.29/0.94
		2#		1.32/0.38	1.68/0.48	2.05/0.59	2.45/0.7	2.86/0.82	3.25/0.93	3.65/1.04	4.24/1.21	4.62/1.32	4.29/1.23	4.28/1.22
		3#		2.35/0.67	3.03/0.87	3.62/1.03	4.39/1.25	5.19/1.48	5.93/1.69	6.62/2.75	7.53/2.15	8.35/2.39	7.86/2.25	7.63/2.18
		4#		3.49/1	4.5/1.29	5.51/1.57	6.51/1.86	7.95/2.27	8.79/2.51	9.99/2.85	11.35/3.24	12.54/3.58	12.03/3.44	11.53/3.29
		5#		4.36/1.25	5.56/1.59	6.79/1.94	8.31/2.37	9.68/2.77	11.25/3.21	12.58/3.59	14.23/4.07	16.73/4.78	14.98/4.28	14.4/4.11
		6#		5.39/1.54	6.93/1.98	8.55/2.44	10.32/2.95	12.1/3.46	19.88/5.68	15.92/4.55	17.68/5.05	19.58/5.59	18.78/5.37	17.9/5.11
	TH410/ TH410W	1#	35	1.1/0.31	1.43/0.41	1.68/0.48	2.01/0.57	2.39/0.68	2.91/0.83	3.21/0.92	3.72/1.06	4.21/1.2	4.15/1.19	4.08/1.17
		2#		1.32/0.38	1.69/0.48	2.12/0.61	2.5/0.71	2.96/0.85	3.52/1.01	3.96/1.13	4.56/1.3	5.15/1.47	5.1/1.46	5.06/1.45
		3#		2.25/0.64	3.12/0.89	3.68/1.05	4.51/1.29	5.36/1.53	6.31/1.8	7.2/2.06	8.15/2.33	9.22/2.63	9.08/2.59	9.08/2.59
		4#		3.39/0.97	4.39/1.25	5.62/1.61	6.67/1.91	8.01/2.29	9.42/2.69	10.81/3.09	13.38/3.82	14.01/4	13.91/3.97	13.88/3.97
		5#		4.39/1.25	5.68/1.62	7.03/2.01	8.46/2.42	10.1/2.89	11.68/3.34	13.4/3.83	15.51/4.43	17.2/4.91	17.25/4.93	17.42/4.98
		6#		5.61/1.6	7.05/2.01	8.82/2.52	10.59/3.03	15.61/4.46	14.69/4.2	16.65/4.76	19.43/5.55	21.75/6.21	21.77/6.22	21.69/6.2

选型表 Model Selection

制冷剂 Refrigerant	型号 Model	阀芯 Spool	冷凝温度 (°C) Condensing Temp	制冷量(KW)/(TR)										
				蒸发温度(°C) Evaporation temperature										
				-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
R410A	TH410/ TH410W	1#	45	1.06/0.3	1.38/0.39	1.59/0.45	2.01/0.57	2.39/0.68	2.86/0.82	3.19/0.91	3.82/1.09	4.28/1.22	4.3/1.23	4.41/1.26
		2#		1.33/0.38	1.66/0.47	2.06/0.59	2.39/0.68	3.01/0.86	3.51/1	4.06/1.16	4.71/1.35	5.29/1.51	5.29/1.51	5.46/1.56
		3#		2.29/0.65	2.96/0.85	3.68/1.05	4.48/1.28	5.4/1.54	6.28/1.79	7.31/2.09	8.44/2.41	9.63/2.75	9.68/2.77	9.85/2.81
		4#		3.35/0.96	4.38/1.25	5.39/1.54	6.65/1.9	7.89/2.25	9.42/2.69	10.9/3.11	12.58/3.59	14.55/4.16	14.69/4.2	15.02/4.29
		5#		4.36/1.25	5.58/1.59	6.93/1.98	8.61/2.46	10.1/2.89	11.85/3.39	13.68/3.91	15.99/4.57	18.25/5.21	15.65/4.47	18.91/5.4
		6#		5.44/1.55	6.92/1.98	8.65/2.47	10.49/3	12.56/3.59	14.9/4.26	17.22/4.92	20.01/5.72	22.69/6.48	23.3/6.66	23.75/6.79
	TH410/ TH410W	1#	55	0.96/0.27	1.31/0.37	1.62/0.46	1.95/0.56	2.26/0.65	2.75/0.79	3.15/0.9	3.69/1.05	4.31/1.23	4.28/1.22	4.42/1.26
		2#		1.23/0.35	1.62/0.46	1.88/0.54	2.38/0.68	2.85/0.81	3.29/0.94	3.86/1.1	4.56/1.3	5.2/1.49	5.41/1.55	5.61/1.6
		3#		2.15/0.61	2.79/0.8	3.43/0.98	4.31/1.23	5.06/1.45	6.02/1.72	7.08/2.02	8.15/2.33	9.5/2.71	9.63/2.75	10.1/2.89
		4#		3.15/0.9	4.21/1.2	5.12/1.46	6.29/1.8	7.53/2.15	9.01/2.57	10.4/2.97	12.36/3.53	14.11/4.03	14.68/4.19	15.2/4.34
		5#		4.03/1.15	5.32/1.52	6.39/1.83	7.96/2.27	9.56/2.73	11.36/3.25	13.25/3.79	15.43/4.41	17.69/5.05	18.33/5.24	18.96/5.42
		6#		5.02/1.43	6.49/1.85	8.01/2.29	9.98/2.85	11.95/3.41	14.31/4.09	16.61/4.75	19.38/5.54	22.19/6.34	23.1/6.6	23.68/6.77

• 膨胀阀按照蒸发器冷量选型

• 如蒸发器有分液头，建议选择外平衡热力膨胀阀

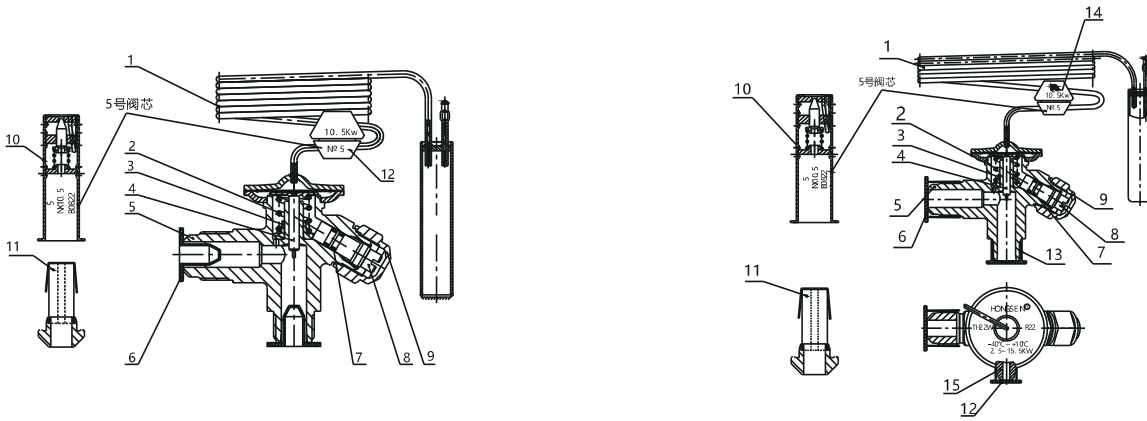
• 注意制冷剂型号，选择对应的热力膨胀阀

• Model of expansion valve should be selected by refrigerating capacity of evaporators.

• External equalisation thermostatic expansion valve should be chosen for evaporators with distributors.

• Pay attention to the refrigerant when choosing expansion valve.

结构 Structure



1.气箱头部件; 2.调节弹簧; 3.弹簧座; 4.传动杆组件; 5.阀体; 6.防尘帽; 7.O型圈;  
8.调节杆; 9.阀帽; 10.阀芯; 11.过滤器组件; 12.阀芯盖

1、 power element; 2、 regulating spring; 3、 spring seat; 4、 transfer bar component;  
5、 valve body; 6、 dust cap; 7、 O-type ring; 8、 regulating stem; 9、 value bonnet;  
10、 orifice(No:1#~6#); 11、 filting component; 12、 orifice packing cover

1.气箱头部件; 2.调节弹簧; 3.弹簧座; 4.传动杆组件; 5.阀体; 6.防尘帽 (4分);  
7.O型圈; 8.调节杆; 9.阀帽; 10.阀芯 (1# - 6#); 11.过滤器组件; 12.防尘帽 (2分);  
13.防尘帽 (3分); 14.阀芯盖; 15.外平衡接口

1、 power element; 2、 regulating spring; 3、 spring seat; 4、 transfer bar component;  
5、 valve body; 6、 dust cap; 7、 O-type ring; 8、 regulating stem;  
9、 value bonnet; 10、 orifice(No:1#~6#); 11、 filting component; 12、 dust cap;  
13、 dust cap;14、 orifice packing cover; 15、 external equaliser

可换芯选择 Replaceable element model

阀体编号 Valve element No.	名义制冷量 (TR)Nominal refrigerating capacity(TR)				名义制冷量 (KW)Nominal refrigerating capacity(KW)			
	R22/R407C	R134a	R404A	R410A	R22	R134a	R404A	R410A
No.1	0.7	0.5	0.45	0.92	2.5	1.8	1.6	3.25
No.2	1.0	0.8	0.6	1.55	3.5	2.6	2.1	5.45
No.3	1.5	1.3	1.2	2.5	5.2	4.6	4.2	8.7
No.4	2.3	1.9	1.7	4	8.0	6.7	6.0	14.15
No.5	3.0	2.5	2.2	4.9	10.5	8.6	7.7	17.28
No.6	4.5	3.0	2.6	5.7	15.5	10.5	9.1	19.95

主阀体选型 Model of main value body

制冷剂 Refrigerant	型号 Model	压力平衡 Pressure Equalisation	接口螺纹 Thread		
			进口端Inlet	出口端Outlet	外平衡口 External Equaliser
R22/R407C	TH22	内平衡 Internal Equalisation	3/8 SAE	1/2 SAE	
R22/R407C	TH22W	外平衡 External Equalisation	3/8 SAE	1/2 SAE	1/4 SAE
R134a	TH134	内平衡 Internal Equalisation	3/8 SAE	1/2 SAE	
R134a	TH134W	外平衡 External Equalisation	3/8 SAE	1/2 SAE	1/4 SAE
R404A	TH404	内平衡 Internal Equalisation	3/8 SAE	1/2 SAE	
R404A	TH404W	外平衡 External Equalisation	3/8 SAE	1/2 SAE	1/4 SAE
R410A	TH410	内平衡 Internal Equalisation	3/8 SAE	1/2 SAE	
R410A	TH410W	外平衡 External Equalisation	3/8 SAE	1/2 SAE	1/4 SAE

• 名义制冷屋的工况条件为: 蒸发温度5°C; 冷凝温度35°C;  
过热度3.5°C; 过冷度4°C。

• Working Condition of Nominal Refrigerating Capacity: Evaporation  
Temperature: + 5°C; Condensation Temperature:+35°C; Superheat:3.5°C;Subcooling:4°C.