

HL4X Series Modulating Valves

DN65-DN150



Application

Modulate the medium flux to control the temperature, humidity and pressure of air conditioning, refrigeration, heating and building automatic control systems

It can accurately modulate the flux of the medium and reach the targets to control the temperature, humidity and pressure of the systems.



Features

- Cast bracket and plastic shell for actuator
- Magnetic synchomotor with self protection function
- Radiator available when high medium temperature occurs
- Screw and Flange connections that conform to International IEC standard
- Can be easily controlled by HL 8102 series controller



Actuator Technical Data

Power Supply	24Vac, 50/60Hz
Actuator Force	1800N, 3000N
Control Signal	Floating Point, 0~10V, 4~20mA
Feedback Signal	0 ~ 10Vdc(available for some models)
Power Consumption	10VA, 12VA
Speed	0.33mm/s
Stroke	42mm
Protection Class	IP54

No.	Models	DN	Connections Type	2 or 3 -Way	Body Material	Core Material	Medium Temp	Differential Pressure Allowed	K v M ³ /h	Force	Dimension					Screw demand
											L	H	D	K	H1	
1	HL42065FB1-400	65	Flange	2-way	Cast Steel	Brass	2-130°C	0.60(Water)	63	1800N	290	475	185	145	-	4-M16
2	HL42080FB1-400	80	Flange	2-way	Cast Steel	Brass	2-130°C	0.50(Water)	100	1800N	310	405	200	160	-	8-M16
3	HL42100FB1-500	100	Flange	2-way	Cast Steel	Brass	2-130°C	0.45(Water)	160	3000N	350	505	220	180	-	8-M16
4	HL42125FB1-500	125	Flange	2-way	Cast Steel	Brass	2-130°C	1.00(Water)	250	3000N	400	565	250	210	-	8-M16
5	HL42150FB1-500	150	Flange	2-way	Cast Steel	Brass	2-130°C	0.80(Water)	400	3000N	480	575	285	240	-	8-M16
6	HL42065FA1-400	65	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.60(Water)	63	1800N	290	430	185	145	-	4-M16
7	HL42080FA1-400	80	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.50(Water)	100	1800N	310	435	200	160	-	8-M16
8	HL42100FA1-500	100	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.25(Water)	160	3000N	350	467	220	180	-	8-M16
9	HL42125FA1-500	125	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	1.00(Water)	250	3000N	400	565	250	210	-	8-M16
10	HL42150FA1-500	150	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.87(Water)	400	3000N	480	575	285	240	-	8-M16
11	HL42065FB1-400	65	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.50(Vapor)	63	1800N	290	475	185	145	-	4-M16
12	HL42080FB1-500	80	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.65(Vapor)	100	3000N	310	505	200	160	-	8-M16
13	HL42100FB1-500	100	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.60(Vapor)	160	3000N	350	505	220	180	-	8-M16
14	HL42125FB1-500	125	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.35(Vapor)	250	3000N	400	565	250	210	-	8-M16
15	HL42150FB1-500	150	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.40(Vapor)	400	3000N	480	575	285	240	-	8-M16
16	HL42065FB1-410	65	Flange	2-way	Cast Steel	Brass	2-130°C	0.60(Water)	63	1800N	290	475	185	145	-	4-M16
17	HL42080FB1-410	80	Flange	2-way	Cast Steel	Brass	2-130°C	0.50(Water)	100	1800N	310	405	200	160	-	8-M16
18	HL42100FB1-510	100	Flange	2-way	Cast Steel	Brass	2-130°C	0.45(Water)	160	3000N	350	505	220	180	-	8-M16
19	HL42125FB1-510	125	Flange	2-way	Cast Steel	Brass	2-130°C	1.00(Water)	250	3000N	400	656	250	210	-	8-M16
20	HL42150FB1-510	150	Flange	2-way	Cast Steel	Brass	2-130°C	0.80(Water)	400	3000N	480	575	285	240	-	8-M16
21	HL42065FA1-410	65	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.60(Water)	63	1800N	290	430	185	145	-	4-M16
22	HL42080FA1-410	80	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.50(Water)	100	1800N	310	435	200	160	-	8-M16
23	HL42100FA1-510	100	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.25(Water)	160	3000N	350	467	220	180	-	8-M16
24	HL42100FA1-510	125	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	1.00(Water)	250	3000N	400	565	250	210	-	8-M16
25	HL42150FA1-510	150	Flange	2-way	Cast Iron	Stainless-Steel	2-160°C	0.87(Water)	400	3000N	480	575	285	240	-	8-M16
26	HL42065FB1-410	65	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.50(Vapor)	63	1800N	290	475	285	145	-	4-M16
27	HL42080FB1-510	80	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.65(Vapor)	100	3000N	310	505	200	160	-	8-M16
28	HL42100FB1-510	100	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.60(Vapor)	160	3000N	350	505	220	180	-	8-M16
29	HL42125FB1-510	125	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.35(Vapor)	250	3000N	400	565	250	210	-	8-M16
30	HL42150FB1-510	150	Flange	2-way	Cast Steel	Stainless-Steel	2-180°C	0.40(Vapor)	400	3000N	480	575	285	240	-	8-M16
31	HL48065FB1-400	65	Flange	3-way	Cast Steel	Brass	2-130°C	0.60(Water)	63	1800N	290	475	185	145	165	4-M16
32	HL48080FB1-400	80	Flange	3-way	Cast Steel	Brass	2-130°C	0.50(Water)	100	1800N	310	405	200	160	180	8-M16



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DN65-DN150



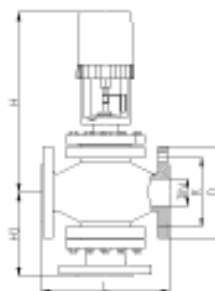
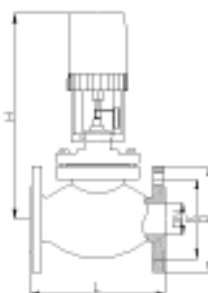
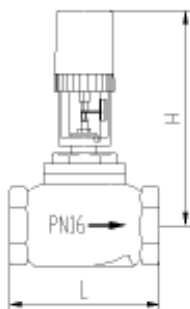
Valve Body Parameters

Pressure	1.6 M Pa						
Medium	Cold/Hot Water, Vapor and Glycol etc.						
Valve Core	Stainless Steel						
Feedback Signal	0 ~ 10Vdc(available for some models)						
Adjustment Ratio	More than 50						
Leakage	Less than 0.05% of Kv						
KV	DN	65	80	100	100	125	150
Value	M ³ /h	63	100	160	160	250	400

Model No.



- Structure _____
- 2 = 2 way; 8 = 3 way mixing; 9 = 3 way diverting
- Size (DN) _____
- Connection _____
- F=flange;L=screw
- Valve body material _____
- A = cast iron; B = cast steel; C = stainless steel; D = cast brass
- Radiator _____
- 1 = No Radiator; 2 = With Radiator
- Actuator force _____
- 4 = 1800N; 5 = 3000N
- Control signal _____
- 0 = increment; 1 = 0-10V; 2 = 4-20mA
- Feedback _____
- 0 = no feedback; 1 = 0-10V; 2 = 4-20mA





No.	Models	DN	Connections Type	2 or 3 -Way	Body Material	Core Material	Medium Temp	Differential Pressure Allowed	Kv M ³ /h	Force	Dimension					Screw demand
											L	H	D	K	H1	
33	HL48100FB1-500	100	Flange	3-way	Cast Steel	Brass	2-130°C	0.69(Water)	160	3000N	350	505	220	180	195	8-M16
34	HL48125FB1-500	125	Flange	3-way	Cast Steel	Brass	2-130°C	0.55(Water)	250	3000N	400	565	250	210	230	8-M16
35	HL48150FB1-500	150	Flange	3-way	Cast Steel	Brass	2-130°C	0.45(Water)	400	3000N	480	575	285	240	250	8-M16
36	HL48065FA1-400	65	Flange	3-way	Cast Iron	Stainless-Steel	2-160°C	0.60(Water)	63	1800N	290	430	185	145	180	4-M16
37	HL48080FA1-400	80	Flange	3-way	Cast Iron	Stainless-Steel	2-160°C	0.50(Water)	100	1800N	310	435	200	160	185	8-M16
38	HL48100FA1-500	100	Flange	3-way	Cast Iron	Stainless-Steel	2-160°C	0.69(Water)	160	3000N	350	467	220	180	210	8-M16
39	HL49065FB1-400	65	Flange	3-way	Cast Steel	Brass	2-130°C	0.60(Water)	63	1800N	290	475	185	145	165	4-M16
40	HL49080FB1-400	80	Flange	3-way	Cast Steel	Brass	2-130°C	0.50(Water)	100	1800N	310	405	200	160	180	8-M16
41	HL49100FB1-500	100	Flange	3-way	Cast Steel	Brass	2-130°C	0.69(Water)	160	3000N	350	505	220	180	195	8-M16
42	HL49125FB1-500	125	Flange	3-way	Cast Steel	Brass	2-130°C	0.55(Water)	250	3000N	400	565	250	210	230	8-M16
43	HL49150FB1-500	150	Flange	3-way	Cast Steel	Brass	2-130°C	0.45(Water)	400	3000N	480	575	285	240	250	8-M16
44	HL48065FA1-410	65	Flange	3-way	Cast Steel	Brass	2-130°C	0.60(Water)	63	1800N	290	475	185	145	165	4-M16
45	HL48080FB1-410	80	Flange	3-way	Cast Steel	Brass	2-130°C	0.50(Water)	100	1800N	310	405	200	160	180	8-M16
46	HL48100FB1-510	100	Flange	3-way	Cast Steel	Brass	2-130°C	0.69(Water)	160	3000N	350	505	220	180	195	8-M16
47	HL48125FB1-510	125	Flange	3-way	Cast Steel	Brass	2-130°C	0.55(Water)	250	3000N	400	656	250	210	230	8-M16
48	HL48150FB1-510	150	Flange	3-way	Cast Steel	Brass	2-130°C	0.45(Water)	400	3000N	480	575	285	240	250	8-M16
49	HL48065FA1-410	65	Flange	3-way	Cast Iron	Stainless	2-160°C	0.60(Water)	63	1800N	290	430	185	145	180	4-M16
50	HL48080FA1-410	80	Flange	3-way	Cast Iron	Stainless	2-160°C	0.50(Water)	100	1800N	310	435	200	160	185	8-M16
51	HL49065FB1-410	65	Flange	3-way	Cast Steel	Brass	2-130°C	0.60(Water)	63	1800N	290	475	185	145	165	4-M16
52	HL49080FB1-410	80	Flange	3-way	Cast Steel	Brass	2-130°C	0.50(Water)	100	1800N	310	405	200	160	180	8-M16
53	HL48100FA1-510	100	Flange	3-way	Cast Iron	Stainless	2-160°C	0.69(Water)	160	3000N	350	467	220	180	210	8-M16
54	HL49100FB1-510	100	Flange	3-way	Cast Steel	Brass	2-130°C	0.69(Water)	160	3000N	350	505	220	180	195	8-M16
55	HL49125FB1-510	125	Flange	3-way	Cast Steel	Brass	2-130°C	0.55(Water)	250	3000N	400	565	250	210	230	8-M16
56	HL49150FA1-510	150	Flange	3-way	Cast Steel	Brass	2-1 30°C	0.45(Water)	400	3000N	480	575	285	240	250	8-M16