



- 200 psi (2" to 12") and 150 psi (14"-30") bubble tight shut-off
- Long stem design allows for 2" insulation
- Valve face-to-face dimensions comply with API 609 & MSS-SP-67
- Completely assembled and tested, ready for installation

Application

These valves are designed to meet the needs of HVAC and commercial applications requiring bubble tight shut-off for liquids. Typical applications include chiller isolation, cooling tower isolation, change-over systems, large air handler coil control, bypass and process control applications. The large C_v values provide for an economical control valve solution for larger flow applications. Designed for use in Victaulic piping systems when mated to Victaulic 41 series flange nipples.

Jobsite Note

Valves should be stored in a weather protected area prior to construction. Complete installation recommendations can be found in Belimo's Installation and Maintenance Instructions for F6/F7...HS/HSU Butterfly Valves.

Technical Data	
Service	chilled, hot water, 60% glycol
Flow Characteristic	modified equal percentage
Action	90° rotation
Sizes	2" to 30"
Type of End Fitting	125/150 lb. flanged, ASME/ANSI B16.1/B16.5
Materials	
Body	cast iron ASTM A126
Disc	304 stainless steel
Seat	EPDM standard
Body Pressure	200 psi at -30°F to 275°F
Shaft	416 stainless steel
O-ring	EPDM
Upper bushing	RPTFE
Middle bushings	RPTFE
Lower bushing	RPTFE
Flange	for use with ANSI 125/150 Flanges
Media Temperature Range	-22°F to 250°F [-30°C to 120°C]
Operation Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]
Maximum Differential Pressure	200 psi (2"-12"), 150 psi (14"-30")
Rangeability	10:1 (for 30° to 70° range)
Maximum Velocity	12 FPS

C _v 90°	C _v 60°	Valve Nominal Size		Type	Suitable Actuators	
		IN	DN [mm]		Spring	Non-Spring
115	44	2"	50	F650HS	AF Series	AM
196	75	2½"	65	F665HS		
302	116	3"	80	F680HS	GM	
600	230	4"	100	F6100HS		
1022	392	5"	125	F6125HS	SY Series	
1579	605	6"	150	F6150HS		
3136	1202	8"	200	F6200HS		
5340	2047	10"	250	F6250HS		
8250	3062	12"	300	F6300HS		
11917	4568	14"	350	F6350HS		
16388	6282	16"	400	F6400HS		
21705	8320	18"	450	F6450HS		
27908	10698	20"	500	F6500HS		
43116	16528	24"	600	F6600HS		
73426	28146	30"	750	F6750HS		

Valve	Size	C _v	MOD									ON/OFF
			10°	20°	30°	40°	50°	60°	70°	80°	90°	
F650HS	2"	115	.06	3	7	15	27	44	70	105	115	
F665HS	2-1/2"	196	.10	6	12	25	45	75	119	178	196	
F680HS	3"	302	.20	9	18	39	70	116	183	275	302	
F6100HS	4"	600	.30	17	36	78	139	230	364	546	600	
F6125HS	5"	1022	.50	29	61	133	237	392	620	930	1022	
F6150HS	6"	1579	.80	45	95	205	366	605	958	1437	1579	
F6200HS	8"	3136	2	89	188	408	727	1202	1903	2854	3136	
F6250HS	10"	5340	3	151	320	694	1237	2047	3240	4859	5340	
F6300HS	12"	8250	4	234	495	1072	1911	3062	5005	7507	8250	
F6350HS	14"	11917	6	338	715	1549	2761	4568	7230	10844	11917	
F6400HS	16"	16388	8	464	983	2130	3797	6282	9942	14913	16388	
F6450HS	18"	21705	11	615	1302	2822	5028	8320	13168	19752	21705	
F6500HS	20"	27908	14	791	1674	3628	6465	10698	16931	25396	27908	
F6600HS	24"	43116	22	1222	2587	5605	9989	16528	26157	39236	43116	
F6750HS	30"	73426	37	2081	4405	9545	17011	28146	44545	66818	73426	

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