

SMV-L20CIF16W... and SMV-L30CIF16W
Flanged Valves

Features

- Flanged 2-way and 3-way control valves
- DN32-DN300mm
- Kvs 3.5 – 170 m³ / h range
- 13mm, 19mm, 25mm, 42mm stork
- Cast iron body (HT250)



The most energy saving and efficient cooling or heating systems can only be designed by considering optimal hydronic balance and certain definite temperature control .In order to achieve efficiency targets, we offer you high quality solutions of Smallart Control valves.

Use

Used as a control valve in HVAC and Building automation systems applications.

Product Models

2 Way Models	3 Way Models	DN	Kvs (m ³ /h)	Rp(inch)
SMV-L20CIF16W-025-016K	SMV-L30CIF16W-025-016K	DN25	8	1
SMV-L20CIF16W-032-016K	SMV-L30CIF16W-032-016K	DN32	16	1 1/4
SMV-L20CIF16W-040-025K	SMV-L30CIF16W-040-025K	DN40	25	1 1/2
SMV-L20CIF16W-050-040K	SMV-L30CIF16W-050-040K	DN50	40	2
SMV-L20CIF16W-065-063K	SMV-L30CIF16W-065-063K (mix.) SMV-L31CIF16W-065-063K(div.)	DN65	63	2 1/2
SMV-L20CIF16W-080-100K	SMV-L30CIF16W-080-100K (mix.) SMV-L31CIF16W-080-100K(div.)	DN80	100	3
SMV-L20CIF16W-100-160K	SMV-L30CIF16W-100-160K (mix.) SMV-L31CIF16W-100-160K(div.)	DN100	160	4
SMV-L21CIF16W-125-250K	SMV-L30CIF16W-125-250K (mix.) SMV-L31CIF16W-125-250K(div.)	DN125	250	5
SMV-L21CIF16W-150-410K	SMV-L30CIF16W-150-410K (mix.) SMV-L31CIF16W-150-410K(div.)	DN150	410	6

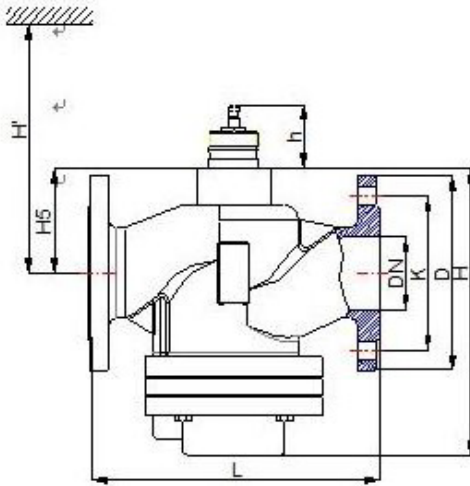
SMV-L21CIF16W-200-630K	SMV-L30CIF16W-200-630K (mix.) SMV-L31CIF16W-200-630K(div.)	DN200	630	8
SMV-L21CIF16W-250-1000K	SMV-L30CIF16W-250-1000 (mix.) SMV-L31CIF16W-250-1000(div.)	DN250	1000	10
SMV-L21CIF16W-300-1200K	SMV-L21CIF16W-300-1200K (mix.) SMV-L31CIF16W-300-1000(div.)	DN300	1200	12

Technical Specifications

Technical Specifications	Leakage Level	Less than 0.05% of Kvs
	Operating Pressure	PN16
	Flange Connection Type	ISO 7005-2 PN16 (According to GB/T12221-2005 GB/T9113-2000)
	Valve Characteristic Curve	Equal percentage
	Media	Water or glycol
	Medium Temperature	-10...110°C
	Stroke	DN32... 13mm
		DN40-DN50... 19mm
		DN65-DN80... 20mm
		DN100-DN200....42mm
Materiel	Materiel	
	Body	Cast Iron
	Diaphragm and O-ring	EPDM (EPEM)
	Spring	Stainless steel
	Seat	Stainless steel
	Adjustment Spool	Stainless steel
	Dynamic Spool	Stainless steel
	Stem	Stainless steel

Dimensions

2 Way Valves



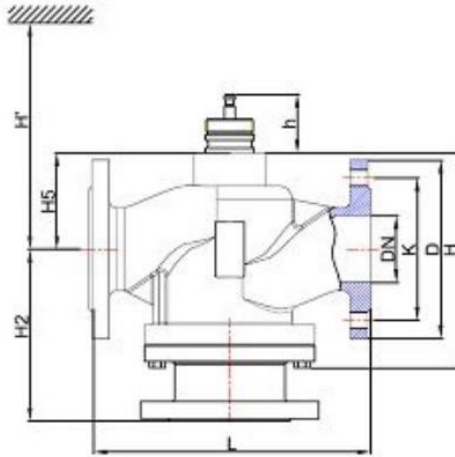
DN	L	D	K	Number of holes and bolt size	H	H5	h	H'		Weight (Kg)
								Actuator Series	Actuator Series	
32	180	140	100	4-M16	230	101	35	560	-	10.8
40	200	150	110	4-M16	233	86	35	563	-	12.5
50	230	165	125	4-M16	247	89	35	577	-	17
65	290	185	145	4-M16	248	90	66	578	708	25
80	310	200	160	8-M16	252	101	66	582	712	32
100	350	220	180	8-M16	296	111	66	-	756	43
125	400	250	210	8-M16	339	127	66	-	799	65
150	480	285	240	8-M20	370	141	66	-	830	83
200										
250										

DN = Nominal diameter valves,

H5 = from the pipe center to actuator installation part (upper edge) height

H' = total height with actuator, including for installation, wiring, operation, maintenance and other work aside from the wall or ceiling minimum distance

3 Way Valves



DN	L	D	K	Number of holes and bolt size	H2	H	H5	H'			Weight (Kg)
								Actuator Series	Actuator Series	Actuator Series	
25	180	115	85	4-M12	160	35	100	450	570		9,8
32	180	140	100	4-M16	160	35	101	451	571	791	11,2
40	200	150	110	4-M16	156	35	86	436	560	776	12,8
50	230	165	125	4-M16	170	35	89	439	570	779	17,8
65	290	185	145	4-M16	183	66	90	440	560	780	24,2
80	310	200	160	8-M16	190	66	101	451	571	791	29,6
100	350	220	180	8-M16	212	66	111	-	581	801	39,3
125	400	250	210	8-M16	236	66	127	-	597	817	58,3
150	480	285	240	8-M20	254	66	141	-	611	831	81
200	495	340	295	12-M20	327	66	164		634	854	126
250	622	405	355	12-M22	395	98	248			938	249
300	698	460	410	12-M22	440	98	280			1010	337

Electric Actuator

Actuator and Valve Matrix

Model(Kvs)	Actuator(Force)	Actuator Model
DN15	500N	SMA-EL22-005M-024
DN20		SMA-EL22-005F-024
DN25		SMA-EL22-005F-230
DN32	1000N	SMA-EL22-010M-024
DN40		SMA-EL22-010F-024
DN50		SMA-EL22-010F-230
DN65	1500N	SMA-EL22-015M-024
DN80		SMA-EL22-015F-024 SMA-EL22-015F-230
DN100	3000N	SMA-EL50-030M-024
DN125		SMA-EL50-030F-024
DN150		SMA-EL50-030F-230
DN200(410)		
DN200(630)	6500N	SMA-EL60-065M-230
DN250(630)		SMA-EL60-065F-230
DN250(1000)	10000n	SMA-EL100-100M-230
DN300(1000)		SMA-EL100-100F-230
DN300(1200)		



SMALLART CODE	Explanation
SMA-EL22-010M-024	Actuator, 1000N, Proportional, 24V, 25mm stroke, Manual Control
SMA-EL22-010F-024	Actuator, 1000N, Floating, 24V, 25mm stroke, Manual Control
SMA-EL22-010F-230	Actuator, 1000N, Floating, 220V, 25mm stroke, Manual Control
SMA-EL22-015M-024	Actuator, 1500N, Proportional, 24V, 20mm stroke, Manual Control
SMA-EL22-015F-024	Actuator, 1500N, Floating, 24V, 20mm stroke, Manual Control
SMA-EL22-015F-230	Actuator, 1500N, Floating, 220V, 20mm stroke, Manual Control
SMA-EL50-030M-024	Actuator, 3000N, Proportional, 24V, 60mm stroke, Manual Control
SMA-EL50-030F-024	Actuator, 3000N, Floating, 24V, 60mm stroke, Manual Control
SMA-EL50-030F-230	Actuator, 3000N, Floating, 230V, 60mm stroke, Manual Control
SMA-EL60-065M-230	Actuator, 6500N, Proportional, 230V, 65mm stroke, Manual Control
SMA-EL60-065F-230	Actuator, 6500N, Floating, 230V, 65mm stroke, Manual Control
SMA-EL100-160M-230	Actuator, 16000N, Proportional, 230V, 100mm stroke, Manual Control
SMA-EL100-160F-230	Actuator, 16000N, Floating, 230V, 10mm stroke, Manual Control