

# CV VACUUM VENTURI



- Anodized aluminum body
- All metal construction
- Maximum vacuum of 27"Hg
- Vacuum flow rates up to 8CFM
- Single stage technology
- HSK Models include part presence switch



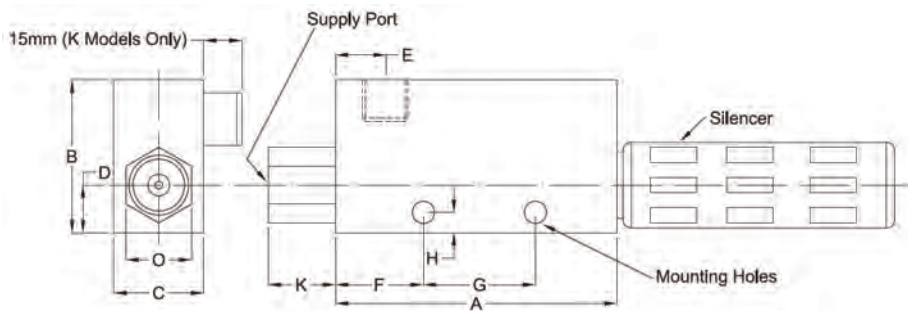
N		CV		15		H		SK	
Ports		Series		Venturi Nozzle Ø		Vacuum Level		Switch Option	
	BSPP			05	0.5mm	H	-87kPa / 26.5"Hg		No Switch
N	NPT			10	1.0mm			SK	Adjustable Vacuum Switch adjustment range between -20kPa to -53kPa / 6-16"Hg
				15	1.5mm				
				20	2.0mm				
				25	2.5mm				
				30	3.0mm				

*CV25 and CV30 models are not available with a vacuum switch option*

## SPECIFICATIONS

Model	Venturi Ø	Vacuum Flow l/min / CFM	Max Vacuum -Kpa / "Hg	Air Consumption l/min / CFM	Weight (g) HS / HSK Model
CV05H / SK	0.5mm	7 / 0.25	-87kPa / 26.5Hg	13 / 0.5	80 / 120
CV10H / SK	1.0mm	27 / 1.0		44 / 1.6	
CV15H / SK	1.5mm	63 / 2.2		100 / 3.5	140 / 190
CV20H / SK	2.0mm	110 / 3.9		180 / 6.3	350 / 460
CV25H	2.5mm	160 / 5.7		265 / 9.4	730 / -
CV30H	3.0mm	225 / 8.0		385 / 13.5	870 / -

## DIMENSIONS (mm)



Model	A	B	C	D	E	F	G	H	ØI	Supply	Vacuum	Exhaust
CV05H / SK	45	33	16	10	8	14	20	4.5	4.5	1/8	1/8	1/8
CV10H / SK												
CV15H / SK	63	35	20	11	10	20	25	5	6	1/4	1/4	1/4
CV20H												
CV20HSK												
CV25H	100	60	40	20	16	20	50	5.5	6	3/8	1/2	3/4
CV30H												



## FLOW PERFORMANCE

Model	Supply	Air Use l/min	Vacuum Flow (l/min) at Different Vacuum Levels (-kPa)									Max Vacuum
			0	10	20	30	40	50	60	70	80	
CV05H/SK	5bar	13	7	5.5	4.2	3	1.5	0.8	0.5	0.2	0.05	-90kPa
CV10H/SK		44	27	19	16	14.5	13	10.5	8	6.5	2.5	
CV15H/SK		100	63	55	44	37	32.5	25	18	14	9	
CV20H/SK		180	110	100	85	75	55	41	30	20	12	
CV25H		265	160	155	140	120	95	72	47	28	15	
CV30H		385	225	200	160	135	105	78	55	33	19	

Model	Supply	Air Use CFM	Vacuum Flow (SCFM) at Different Vacuum Levels ("Hg)									Max Vacuum
			0	10	20	30	40	50	60	70	80	
CV05H/SK	75psi	0.46	0.25	0.19	0.15	0.11	0.05	0.03	0.02	0.01	0.00	27"Hg
CV10H/SK		1.6	1.0	0.7	0.6	0.5	0.5	0.4	0.3	0.2	0.1	
CV15H/SK		3.5	2.2	1.9	1.6	1.3	1.1	0.9	0.6	0.5	0.3	
CV20H/SK		6.4	3.9	3.5	3.0	2.7	1.9	1.4	1.1	0.7	0.4	
CV25H		9.4	5.7	5.5	4.9	4.2	3.4	2.5	1.7	1.0	0.5	
CV30H		13.6	8.0	7.1	5.7	4.8	3.7	2.8	1.9	1.2	0.7	

## TIME PERFORMANCE

Evacuation time (sec/l) to different vacuum levels (-SKPa)									
Model	Supply	10	20	30	40	50	60	70	80
CV05H/SK	75psi	0.6	1.4	2.7	4.3	6.0	8.2	9.4	11.8
CV10H/SK		0.2	0.5	0.8	1.2	1.7	2.3	2.9	4.0
CV15H/SK		0.08	0.19	0.3	0.48	0.69	0.9	1.4	1.9
CV20H/SK		0.04	0.1	0.16	0.23	0.34	0.5	0.7	0.9
CV25H		0.03	0.07	0.1	0.17	0.24	0.34	0.5	0.75
CV30H		0.03	0.06	0.09	0.14	0.2	0.27	0.4	0.63

Evacuation time (sec/ft <sup>3</sup> ) to different vacuum levels ("Hg)									
Model	Supply	10	20	30	40	50	60	70	80
CV05H/SK	75psi	16.8	39.2	75.6	120.4	168	229.6	263.2	330.4
CV10H/SK		5.6	14	22.4	33.6	47.6	64.4	81.2	112
CV15H/SK		2.24	5.32	8.4	13.44	19.32	25.2	39.2	53.2
CV20H/SK		1.12	2.8	4.48	6.44	9.52	14	19.6	25.2
CV25H		0.84	1.96	2.8	4.76	6.72	9.52	14	21
CV30H		0.84	1.68	2.52	3.92	5.6	7.56	11.2	17.64