CVH Check Valves

Guided poppet design for 10,000 PSI service, ¼" to 2" NPT/SAE/BSPP/BSPT/6149



Flow restricting check valves permit flow in one direction once the line pressure exceeds the cracking pressure of the poppet spring. Reverse flow is blocked, however an optional poppet orifice can permit some backflow.

- 10,000 psi pressure rating.
- Carbon steel and stainless steel versions.
- Port sizes from ¼" to 2".
- Choice of threaded connection types.
- Choice of "cracking" pressures.
- One-piece body eliminates leak points.
- Guided poppet ensures positive sealing and longevity.
- Optional poppet orifice supports intentional backflow.
- Metal to metal seat is suitable for hydraulic applications.
- Optional soft seat versions available for gaseous and low viscosity liquid applications (Model CVHG).

Ordering Codes

CVH	65	-	2000	S	1	1	031

Standard	
05	5 PSI (0.35 Bar)
65	65 PSI (4.5 Bar)
Optional	
15	15 PSI (1.03 Bar)
30	30 PSI (2.1 Bar)
75	75 PSI (5.2 Bar)
135	135 PSI (9.3 Bar)

Size Codes	
Code	Port Size
0250	¼"
0375	⅜"
0500	½"
0625	⅝"
0750	¾"
1000	1"
1250	1¼"
1500	1½"
2000	2"

Port Thread	
N	NPT
S	SAE ORB
B	BSPP

Body	
1	Carbon Steel
2	Stainless Steel

Internal	
1	Carbon Steel
2	Stainless Steel

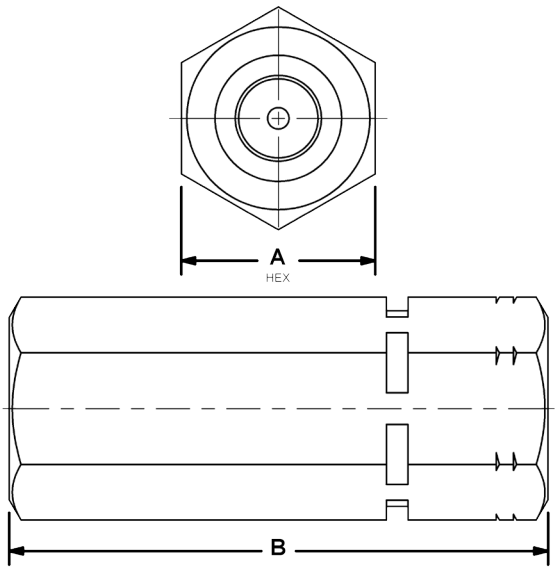
Orifice (optional)	
031	1/32"
062	1/16"
093	3/32"
125	1/8"
156	5/32"
188	3/16"

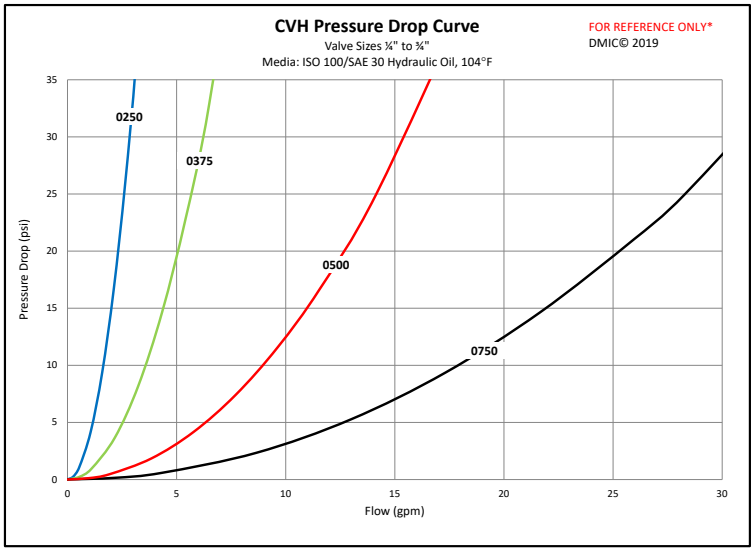
CVH	Physical Parameters
BODY	Carbon Steel (Opt. all Stainless Steel)
POPPET	Hardened Carbon Steel (Opt. all S/S)
SPRING	Helical, Spring Steel
POPPET LANDING ZONE	Carbon Steel, Oversize (Opt. All S/S)
RETAINER	Steel
SEALING	Metallic Hard Seat
TEMP RANGE	-20˚F/400˚F (-29˚C/204˚C)

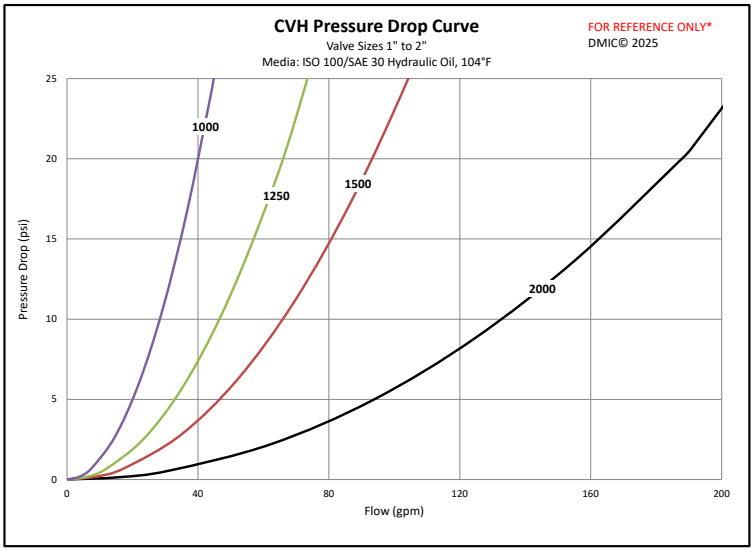
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CVH Check Valves

CVH	Nominal Size	Performance Data			Dimensions (inches)		
		Flow GPM	Cv	Working Pressure	A Hex	B Length	Lbs.
CVH**-0250N	¼"	5 GPM	0.55	10,000 PSI	0.75	2.14	0.24
CVH**-0250S							
CVH**-0250B							
CVH**-0375N	⅜"	8 GPM	1.2	10,000 PSI	0.88	2.50	0.48
CVH**-0375S							
CVH**-0375B							
CVH**-0500N	½"	15 GPM	3.0	10,000 PSI	1.13	3.13	0.64
CVH**-0500S							
CVH**-0500B							
CVH**-0750N	¾"	25 GPM	6.0	10,000 PSI	1.50	3.81	1.03
CVH**-0750S							
CVH**-0750B							
CVH**-1000N	1"	40 GPM	9.5	10,000 PSI	1.75	4.31	2.18
CVH**-1000S							
CVH**-1000B							
CVH**-1000IU							
CVH**-1250N	1¼"	70 GPM	15.6	10,000 PSI	2.25	5.04	4.19
CVH**-1250S							
CVH**-1250B							
CVH**-1250IU							
CVH**-1500N	1½"	100 GPM	22.1	10,000 PSI	2.50	5.50	5.16
CVH**-1500S							
CVH**-1500B							
CVH**-1500IU							
CVH**-2000N	2"	150 GPM	44.5	10,000 PSI	3.25 (3.50)** Round Body	6.75	11.00
CVH**-2000S							
CVH**-2000B							
CVH**-2000IU							







NOTE: All flow curve values are for check valves that are cracked open, and flow velocity maintains them in the open position. Cracking pressure is not included and must be added to the pressure drop for any given flow curve valve.

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This valve series is factory sealed and disassembly will destroy the valve and void the warranty. Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.