Smap-lite Check Valves



CPIFF Inline Check Valves



- ♦ Poppet style soft seat
- ♦ Flow rates to 30 gpm (115 l/min)
- Steel Construction; other materials available
- Five sizes 1/4", 3/8", 1/2", 3/4", 1"
- SAE, NPSF & BS 2779 female end fittings
- ◆ Up to 5000 psi (345 bar) working pressure

Features

The soft seat (virtual zero leak) guided poppet design and 4:1 safety factor of Snap-tite's Inline Check Valves make them an excellent choice for a wide variety of applications where free flow in one direction and blocked flow in the reverse direction is required. The streamlined soft seated poppet offers minimum restriction to flow and positive shut off. These valves can be provided with various spring pressures and seal options compatible with most types of fluids.

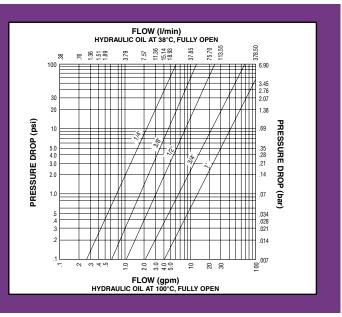


†Notes:

- Decimal dimensions are +/-.015 in. (.38 mm).
- Ratings, specifications, and dimensions are subject to change without notice.
- Part configurations are typical and do not necessarily represent actual appearance.
- Consult factory for certified drawing of 6C/3C end fitting configurations.

†Flow Direction

Din	nens	sions	and S	Specif	icatio	ons
Siz	е	1/4"	3/8"	1/2"	3/4"	1"
Hex	ln.	.75	1.00	1.25	1.38	1.75
l liex	mm	19.05	25.40	31.75	35.05	44.45
Length	ln.	1.97	2.60	3.25	4.33	4.78
Lengui	mm	50.04	66.04	82.55	109.98	121.41
Cv		.60	1.20	2.40	4.10	7.15
Weight	lbs.	.20	.25	.90	1.25	2.25
Holgin	kg.	.09	.11	.41	.57	1.02
Flow	gpm	3.00	8.00	12.00	20.00	30.00
	l/min.	11.40	30.30	45.40	75.70	113.55



6C/3C Inline Check Valves



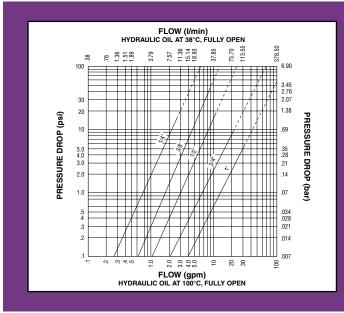
- ◆ Poppet style soft seat
- Steel or stainless steel construction; other materials available
- ♦ Flow rates to 175 gpm (662 l/min)
- ◆ SAE, NPSF, NPT, BS 2779 & ORS end fittings available
- Up to 6000 psi (414 bar) working pressure -1/4", 3/8", 1/2", 3/4" & 1"
- Up to 3000 psi (207 bar) working pressure -1-1/4", 1-1/2" & 2"

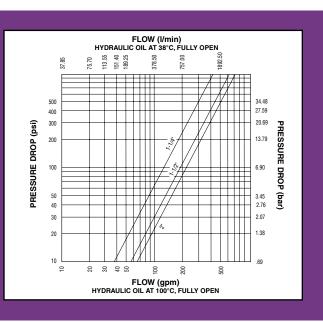
Features

These soft seat (virtual zero leak), with guided poppet valves offer a wide variety of end fitting configurations and elastomers and the option of 316 stainless steel construction. These options enable a valve to be configured to meet the needs of any system. Snap-tite's versatile 6C/3C Inline Check Valves are designed with a 4:1 safety factor at a maximum working pressure of 6000 psi (414 bar) making them ideal for any application.



	*Din	nens	ions	and	Spe	cific	ation	ıs	
S	ize	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Llav	ln.	.75	1.12	1.25	1.62	1.88	2.00	2.50	3.25
Hex	mm	19.05	28.45	31.75	41.15	47.75	50.80	63.50	82.55
Lanath	ln.	2.82	3.38	3.73	4.91	6.07	5.76	6.51	7.28
Length	mm	71.60	85.85	94.75	124.70	154.20	146.30	165.35	184.90
Cv		.45	1.80	3.40	7.40	9.50	12.30	16.15	21.80
Weight	lbs.	.29	.81	1.20	2.05	3.40	3.75	7.80	13.00
Weight	kg.	.13	.37	.54	.93	1.54	1.70	3.54	5.90
Flow	gpm	3.00	8.00	12.00	20.00	30.00	90.00	125.00	175.00
TIOW	l/min.	11.40	30.30	45.45	75.70	113.55	340.65	473.15	662.40





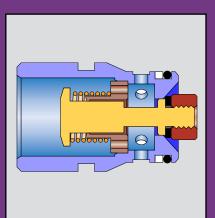
CPC Check Valve Cartridge



- ◆ 3500 psi (241 bar) working pressure
- ♦ Flow rates to 50 gpm (189 l/min)
- **♦ Steel Construction**
- ◆ Three standard spring pressures
- Three sizes based on flow

Features

Designed for hydraulic circuit applications where virtually zero leakage in the check direction is required. The drop-in cartridge design with soft poppet seal of molded nylon is available in three sizes with flow ratings of 10 gpm (38 l/min), 25 gpm (95 l/min), and 50 gpm (189 l/min) respectively.

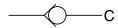


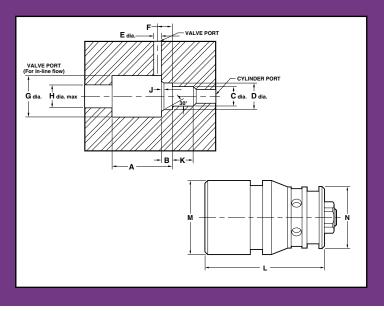
			*Di	me	ens	ions a	ınc	ıs	pecific	atio	ons	3			
N	/lodel	A B C		D	Ε	F	F G		J	K	L	М	N		
	PC 10	ln.	1.204	.248	.500	.629/.625	.250	.390	.745/.750	.437	.030	.300	1.20	.74	.62
Ľ	,	mm	30.6	6.3	12.7	16.0/15.9	6.4	9.9	18.9/19.0	11.0	.76	7.6	30.5	18.8	15.7
	PC 25	ln.	1.776	.230	.680	.879/.875	.531	.520	1.004/1.000	.500	.025	.400	1.78	.99	.87
ľ	7F G 25	mm	45.1	5.8	17.3	22.3/22.2	13.5	13.2	25.5/25.4	12.7	.64	10.2	45.2	25.1	22.1
	PC 50	ln.	2.291	.284	1.060	1.316/1.312	.592	.600	1.504/1.500	1.000	.025	.476	2.29	1.49	1.30
ľ	, O 30	mm	58.2	7.2	26.9	33.4/33.3	15.1	15.2	38.2/38.1	25.4	.64	12.1	58.2	37.8	33.0

△Notes:

- Decimal dimensions are +/-.015 in. (.38 mm).
- Ratings, specifications, and dimensions are subject to change without notice.
- Part configurations are typical and do not necessarily represent actual appearance.
- Consult factory for certified cavity drawing.

CPC Flow Direction:





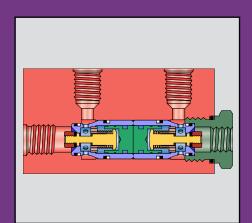
CAD Dual Pilot Check Valve



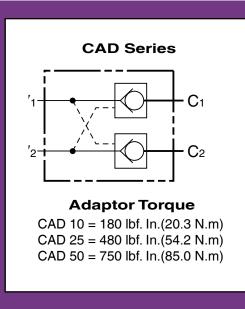
- ◆ 3500 psi (241 bar) 5000 psi (345 bar) intermittently
- ♦ Flow rates to 50 gpm (189 l/min)
- Anodized aluminum blocks, plated steel cartridges
- ♦ Three standard spring pressures
- Three sizes based on flow
- Pilot ratio 4:1

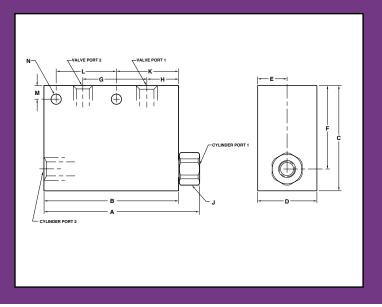
Features

The CAD dual pilot check valve features two CAC check cartridges in a single red anodized aluminum housing with standard ports to 1" in NPSF or SAE o-ring sealed. Flow into one of the valve ports is blocked until pressure overcomes the poppet spring. When the poppet is unseated, flow is permitted to the actuator; simultaneously the pilot piston on the actuated side unseats the opposite poppet to permit return flow through the valve.



	*Dimensions and Specifications														
Model		Α	В	С	D	Ε	F	G	Н	J	K	L	М	N	
CAD 10	ln.	3.96	3.59	2.00	1.25	.63	1.38	1.65	.68	1.00	1.50	1.62	.50	.34	
1/4" & 3/8"	mm	100.6	91.2	50.8	31.8	16.0	35.1	41.9	17.3	25.4	38.1	41.1	12.7	8.6	
CAD 10	ln.	4.60	3.59	2.00	1.25	.63	1.38	1.65	.68	1.00	1.50	1.62	.50	.34	
1/2"	mm	116.8	91.2	50.8	31.8	16.0	35.1	41.9	17.3	25.4	38.1	41.1	12.7	8.6	
CAD 25	ln.	5.78	5.21	2.00	1.50	.75	1.25	2.60	.86	1.19	2.15	2.56	.30	.41	
3/8", 1/2", 3/4"	mm	146.8	132.3	50.8	38.1	19.0	31.8	66.0	21.8	30.2	54.6	65.0	7.6	10.4	
CAD 25	ln.	6.33	5.21	2.50	1.50	.75	1.75	2.59	.85	1.38	2.15	2.56	.30	.41	
3/4 SAE	mm	160.8	132.3	63.5	38.1	19.0	44.5	65.8	21.6	35.1	54.6	65.0	7.6	10.4	
	ln.	7.13	6.24	3.00	2.00	1.00	2.00	3.46	.98	1.75	2.75	3.00	.50	.41	
CAD 50	mm	181.1	158.5	76.2	50.8	25.4	50.8	87.9	24.9	44.5	69.9	76.2	12.7	10.4	





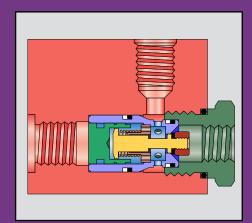
CAV Single Pilot Check Valve



- 3500 psi (241 bar), 5000 psi (345 bar) intermittently
- ♦ Flow rates to 50 gpm (189 l/min)
- Anodized aluminum blocks, plated steel cartridges
- **♦** Three standard spring pressures
- ♦ Three sizes based on flow
- ◆ Pilot ratio 4:1

Features

The CAV single pilot check valve contains a standard CAC cartridge in a red anodized aluminum block with NPSF or SAE porting to 1". Units are available with three standard cracking pressures of 15 psi (1 bar), 25 psi (1.7 bar), or 60 psi (4 bar).



	*Dimensions and Specifications														
Model		Α	В	С	D	Е	F	G	Н	J	К	L	М		
CAV 10	IN.	2.77	2.40	2.00	1.25	.63	1.38	.69	1.00	1.50	.65	.50	.34		
1/4" & 3/8"	MM	70.4	61.0	50.8	31.8	16.0	35.1	17.5	25.4	38.1	16.5	12.7	8.6		
CAV 10	IN.	3.41	2.40	2.00	1.25	.63	1.38	.69	1.00	1.50	.65	.50	.34		
1/2"	MM	86.6	61.0	50.8	31.8	16.0	35.1	17.5	25.4	38.1	16.5	12.7	8.6		
CAV 25	IN.	3.73	3.15	2.00	1.50	.75	1.25	.86	1.19	1.80	1.00	.30	.41		
3/8", 1/2", 3/4"	MM	94.7	80.0	50.8	38.1	19.0	31.8	21.8	30.2	45.7	25.4	7.6	10.4		
CAV 25	IN.	4.55	3.43	2.50	1.50	.75	1.75	.85	1.38	1.88	1.25	.75	.41		
3/4 SAE	MM	115.6	87.1	63.5	38.1	19.0	44.5	21.6	35.1	47.8	31.8	19.0	10.4		
	IN.	4.55	3.65	3.00	2.00	1.00	2.00	.96	1.75	2.25	1.00	.50	.41		
CAV 50	MM	115.6	92.7	76.2	50.8	25.4	50.8	24.4	44.5	57.2	25.4	12.7	10.4		

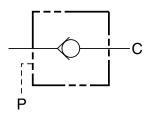
Adaptor Torque

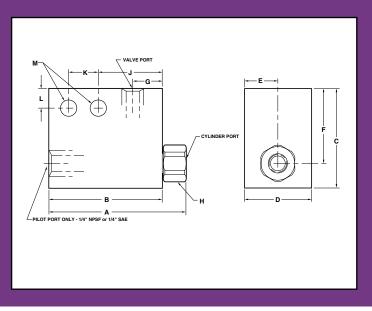
CAV 10 = 180 lbf. In.(20.3 N.m)

CAV 25 = 480 lbf. In.(54.2 N.m)

CAV 50 = 750 lbf. In.(85.0 N.m)

Flow Direction:





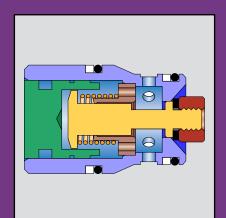
CAC Pilot Check Valve Cartridge



- ◆ 3500 psi (241 bar) working pressure, 5000 psi (345 bar) intermittently
- ♦ Flow rates to 50 gpm (189 l/min)
- Steel Construction
- ◆ Three standard spring pressures
- Pilot ratio 4:1
- Air Pilot option available

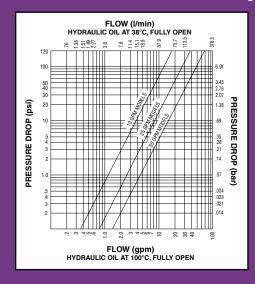
Features

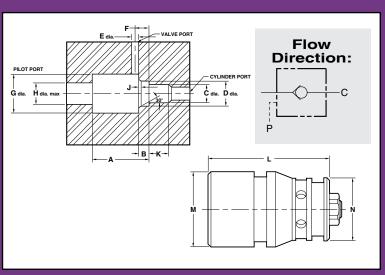
Designed for use in hydraulic circuits requiring less than 1 DPM leakage. These drop-in cartridge valves lock an actuator or part of a circuit until pilot pressure is applied. Features include durable molded nylon poppet seal, damping port in poppet guide, hardened steel body and poppet.



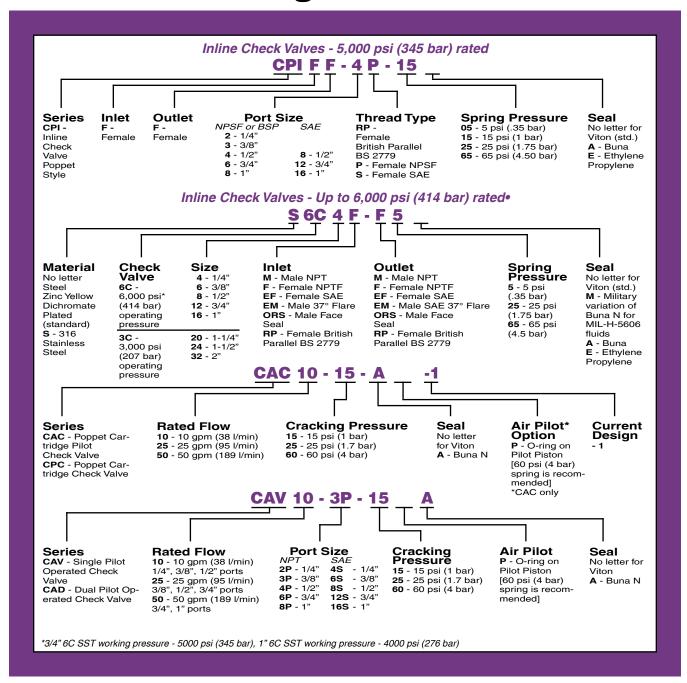
	*Dimensions and Specifications														
Model		A	В	С	D	Ε	F	G	Н	J	K	L	М	N	
CAC 10	IN.	1.204	.248	.500	.629/.625	.250	.390	.745/.750	.437	.030	.300	1.20	.74	.62	
	ММ	30.6	6.3	12.7	16.0/15.9	6.4	9.9	18.9/19.0	11.0	.76	7.6	30.5	18.8	15.7	
CAC 25	IN.	1.776	.230	.680	.879/.875	.531	.520	1.004/1.000	.500	.025	.400	1.78	.99	.87	
0110 =0	ММ	45.1	5.8	17.3	22.3/22.2	13.5	13.2	25.5/25.4	12.7	.64	10.2	45.2	25.1	22.1	
CAC 50	IN.	2.291	.284	1.060	1.316/1.312	.592	.600	1.504/1.500	1.000	.025	.476	2.29	1.49	1.30	
	ММ	58.2	7.2	26.9	33.4/33.3	15.1	15.2	38.2/38.1	25.4	.64	12.1	58.2	37.8	33.0	

CPC/CAC Pressure Drop





Ordering Information



! WARNING!

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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