



AIR FLOW CONTROL HEAVY-DUTY CHECK VALVES

PRODUCT CATALOG



Check Valves Heavy-Duty 19 Series

Product Overview



Check Function

ROSS check valves function is to open with fluid movement and pressure, and close to prevent backflow of the pressure to upstream equipment.

Valve Schematic



ROSS check valves are self-actuating and designed to provide free air flow in one direction, and to be closed to flow in the opposite direction.

Low-Profile	Mid-Range	High-Capacity

VALVE FEATURES

Poppet Design	Dirt-tolerant, self-cleaning poppet design. Available in alternate materials for extreme temperature applications.
Soft-Seal Design	Provides quiet operation
Low Cracking Pressure	Air tight seal ensures no leakage from the valve
Positive Locking	Available in Low-Profile High-Capacity valves, prevents change of adjustment knob due to vibration or tampering
Easy Maintenance	Can be serviced inline
Rugged Construction	Made with corrosion-resistant materials

STANDARD SPECIFICATIONS

GENERAL	Function		Flow Control	
	Construction Design		Poppet	
	Actuation		Pneumatic	
	Mounting	Type	Inline	
		Orientation	Any	
	Connection		Threaded; G, NPT	
Minimum Operation Frequency		Once per month, to ensure proper function		
OPERATING CONDITIONS	Temperature	Ambient/Media	-40° to 175°F (-40° to 80°C)	
			<i>-For temperatures below 40°F (4°C) air must be free of water vapor to prevent formation of ice.</i>	
			<i>For temperatures below -40°F (-40°C), consult ROSS.</i>	
	Flow Media		Filtered air	
Operating Pressure	150 psi (10.3 bar)		Signal Pressure	Must be equal to or greater than inlet
CONSTRUCTION MATERIAL	Valve Body		Cast Aluminum	
	Poppet		Acetal and Stainless Steel	
	Seals		Buna-N	

IMPORTANT NOTE: Please read carefully and thoroughly all of the **CAUTIONS, WARNINGS** on the inside back cover.

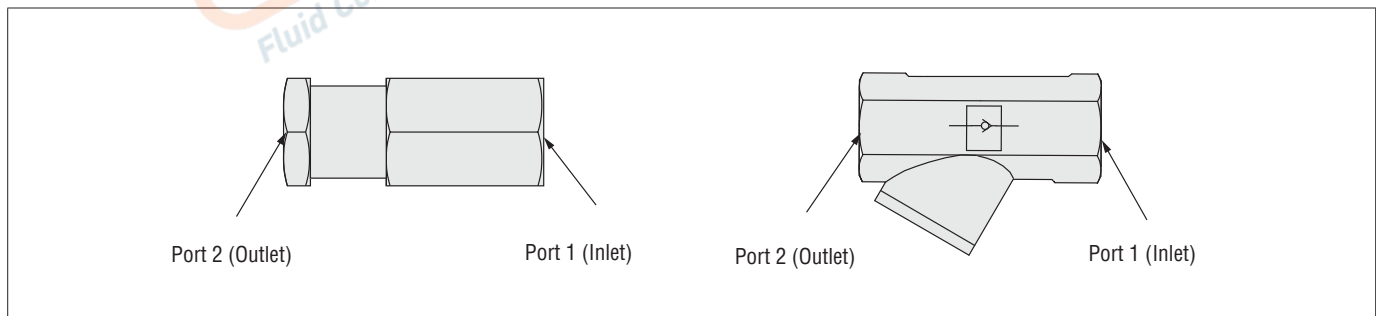
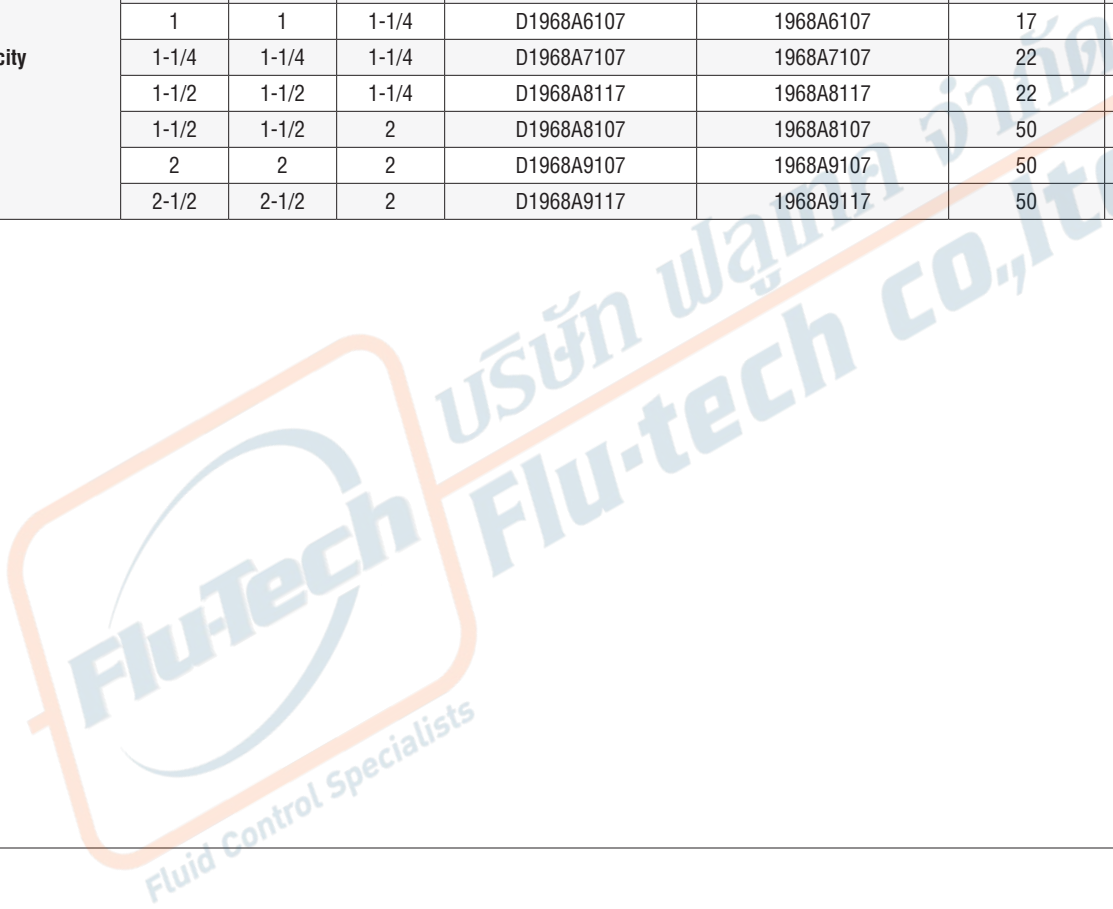
PRODUCT CREDENTIALS

EAC Conformity Declaration	Canadian Registration Number (CRN)
EAC	Available for appropriately tested valves



Ordering Information

CHECK VALVES						One-Way Valves	
Valve Style	Size			Valve Model Number		Flow C _v 1-2	Weight lb (kg)
	Port 1	Port 2	Body	G Thread	NPT Thread		
Low-Profile	1/8	1/8	1/4	D1968D1005	1968D1005	0.5	0.5 (0.2)
	1/4	1/4	1/4	D1968D2005	1968D2005	0.5	0.5 (0.2)
Mid-Range	1/4	1/4	1/4	D1968D2001	1968D2001	2.9	0.5 (0.2)
	3/8	3/8	3/8	D1968D3001	1968D3001	3.7	0.5 (0.2)
	1/2	1/2	3/8	D1968D4001	1968D4001	3.9	0.5 (0.2)
High-Capacity	1/2	1/2	3/4	D1968A4107	1968A4107	5.2	0.9 (0.4)
	3/4	3/4	3/4	D1968A5107	1968A5107	8.6	0.9 (0.4)
	1	1	3/4	D1968A6117	1968A6117	8.3	0.9 (0.4)
	1	1	1-1/4	D1968A6107	1968A6107	17	2.0 (0.9)
	1-1/4	1-1/4	1-1/4	D1968A7107	1968A7107	22	2.0 (0.9)
	1-1/2	1-1/2	1-1/4	D1968A8117	1968A8117	22	2.0 (0.9)
	1-1/2	1-1/2	2	D1968A8107	1968A8107	50	4.7 (2.1)
	2	2	2	D1968A9107	1968A9107	50	4.7 (2.1)
	2-1/2	2-1/2	2	D1968A9117	1968A9117	50	4.7 (2.1)



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DIMENSIONS		Inches (mm)
Low-Profile	Body Size 1/4	
Mid-Range	Body Size 1/4	Body Size 3/8
High-Capacity	Body Size 3/4	
	Body Size 1-1/4	
Body Size 2		

For additional information, and to assist you with piping and connectivity designs, our products are available in downloadable 2D drawings and 3D CAD models in a wide range of options including native formats, visit www.rosscontrols.com.

