NU-CHECK® PNEUMATIC CHECK VALVE

The Aladco® Nu-Check® valve is a normally closed check valve that can be either overridden manually or by air piloting to allow two-way flow. The tightly sealed Nu-Check® valves are used on pneumatic devices to stop motion upon loss of air pressure and prevent the device from drifting.

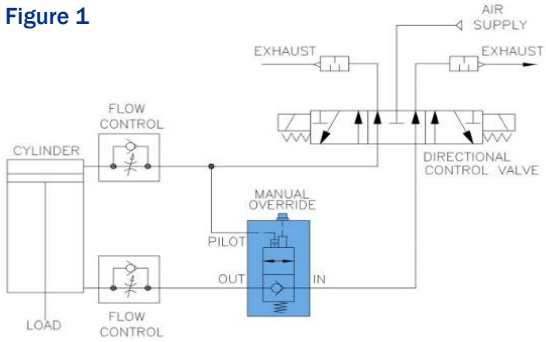
The Nu-Check® valve, designed specifically for pneumatics, is a patented Aladco® product. It was the first check on the market with both manual and pilot release capabilities. The unique bubble-tight seal keeps devices from drifting towards the "checked" position in the event of pressure loss or fluctuation. To release the seal, press the manual override button or operate the pilot.

Aladco® highly recommends the use of spring centered 3 position 5-way centered vented valves for directional control with the use of Nu-Check® valves.

Features:

- Superior, self-cleaning ball and seat seal provides long product life
- Exceeds ANSI Class VI Leak Standard (bubble tight)
- Body is made of high strength, lightweight, anodized 6061 aluminum alloy
- Variety of porting options
- Designed for use with lubricated or non-lubricated air systems
- Tamper resistant with no required maintenance
- Prevents load drift and provides rapid stopping of load
- Patented and Made in Waukesha, Wisconsin USA
- Standard 3-year warranty

Figure 1

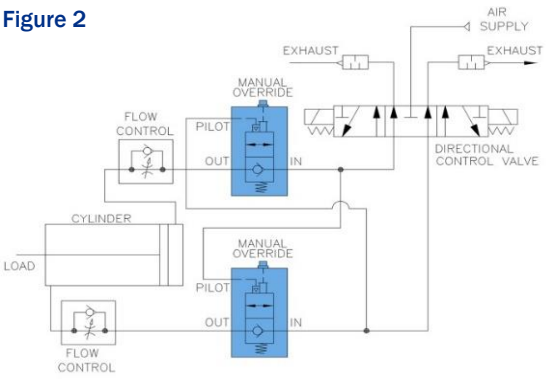


An example of a system using a single Nu-Check® valve that will prevent the cylinder or load from falling upon pressure loss or upon loss of power to directional control valve.

Additional Notes:

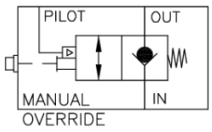
- MTTF is over 100 million cycles for Buna-N seals and over 40 million cycles for Viton® seals
- NPTF Ports conform to ASME B1.20.1-2013 Pipe Threads, General Purpose (Inch)
- BSPP (G) conform to ISO 16030:2003: Pneumatic fluid power – Connections – Ports and stud ends
- Operating pressure 15 to 150 psi
- Operating temperature 30° to 150°F
- 10-32 and 1/8″ port sizes are no longer available as Nu-Check® options – please see our line of Clean-Check® pneumatic valves for compatible configurations
- Stainless steel 303 is no longer an available option for Nu-Check® configurations – please see our line of Clean-Check® pneumatic valves for stainless steel valve options

Figure 2

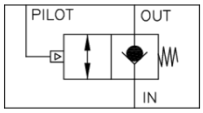


An example of a system using two Nu-Check® valves that will stop the cylinder in from moving in either direction upon pressure loss or upon loss of power to directional control valve.

Nu-Check® Pneumatic Check Valve Specifications:



Model Type 30 & 31

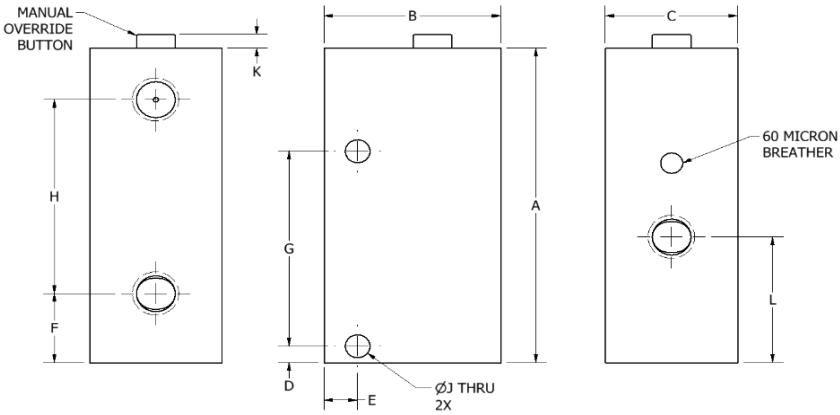


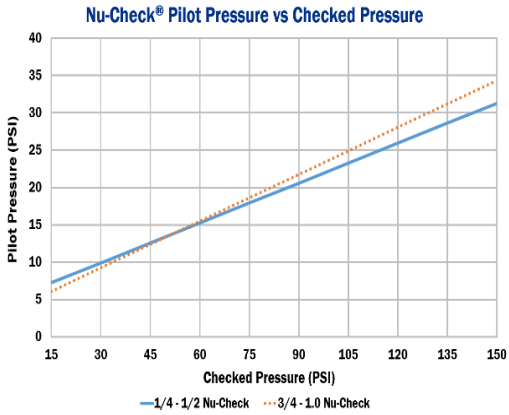
Model Type 32

NU-CHECK® DIMENSIONS & SPECIFICATIONS																
Inlet-Outlet Port Size	A	B	C	D	E	F	G	H	J	K	L	Pilot Port Size	Cracking Pressure	CV	Pilot Ratio	Weight (AL)
1/4	3.83	2.00	1.50	0.20	0.38	0.84	2.38	2.36	0.28	0.17	1.53	1/4	2 - 4 PSI	1.7	3.8:1	1.00
3/8	3.83	2.50	1.50	0.20	0.38	0.84	2.38	2.36	0.28	0.17	1.53	1/4	2 - 4 PSI	1.7	3.8:1	1.30
1/2	3.83	2.50	1.50	0.20	0.38	0.84	2.38	2.36	0.28	0.17	1.53	1/4	2 - 4 PSI	1.7	3.8:1	1.30
3/4	4.59	3.00	2.00	0.25	0.38	1.13	2.00	2.82	0.28	0.23	2.14	1/4	2 - 4 PSI	4.0	3.8:1	2.80
01	4.59	3.00	2.00	0.25	0.38	1.13	2.00	2.82	0.28	0.23	2.14	1/4	2 - 4 PSI	4.0	3.8:1	2.80

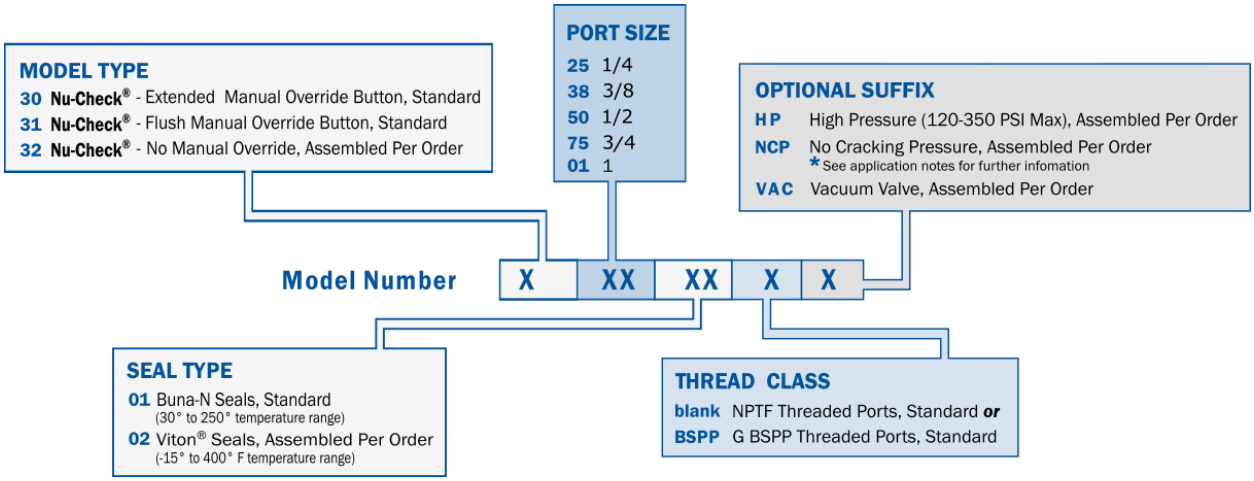
*All A-L dimensions in inches; weight in pounds. Pilot Ratio is measured at 60 PSI

Disclaimer: Technical details subject to change without notice





Model Ordering Information:



Model Examples:

Model 303802 is a Nu-Check® valve with 3/8" NPTF threaded port, Viton® seal, and an extended override button.
Model 310101BSPP is a Nu-Check® valve with 1G BSPP threaded port, Buna-N seal, and a flush override button.

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