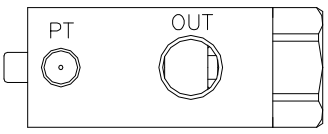
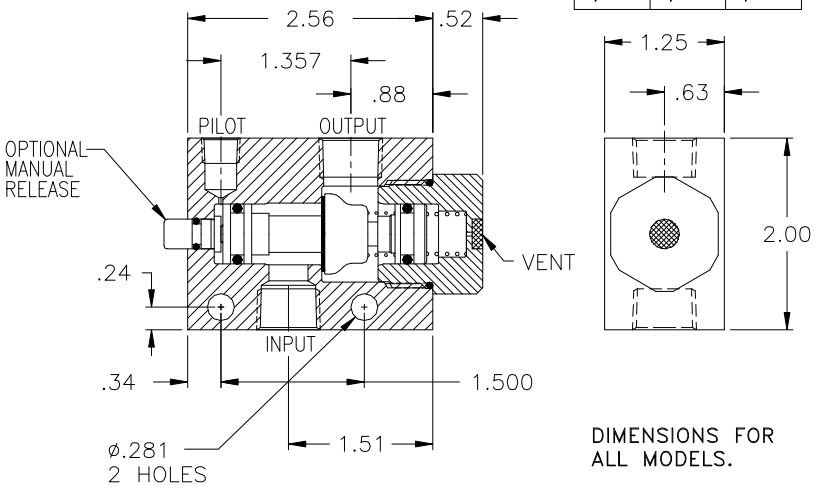
1/8, 1/4, 3/8 NPTF & G1/4, G3/8 BSPP Balanced Pilot Operated Check Valves

- **Immediate Checking**
- **Optional Manual Release**
- **.000052 cc/min Leak Rate**
- **316 Stainless Available**
- **Low & High Temp**
- **G1/4 & G3/8 BSPP In Stock**
- **Non-Ferrous In Stock**

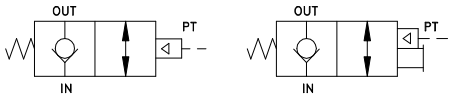


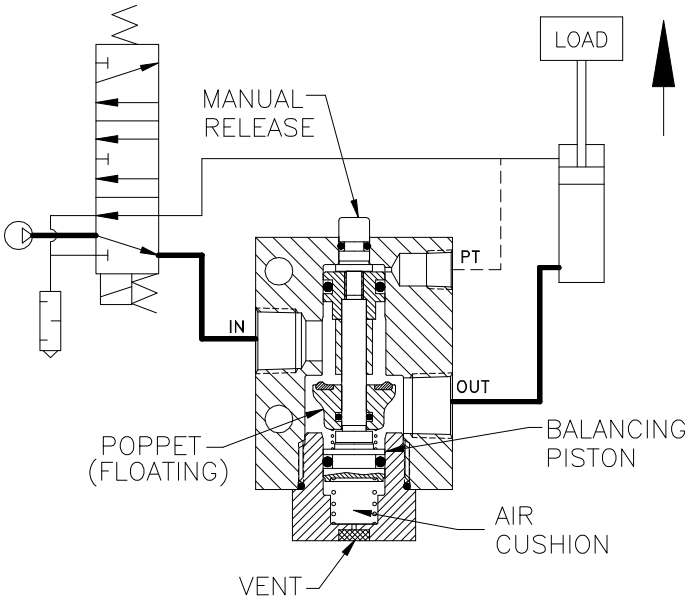
PORT SIZES		
PILOT	INPUT	OUTPUT
1/8 NPTF	1/8 NPTF	1/8 NPTF
1/8 NPTF	1/4 NPTF	1/4 NPTF
1/8 NPTF	3/8 NPTF	3/8 NPTF
G1/4 BSPP	G1/4 BSPP	G1/4 BSPP
G1/8 BSPP	G3/8 BSPP	G3/8 BSPP



Basic Operation:

Lock your pneumatic device in position when a pressure drop or total loss of pressure occurs. Manual release for exhausting trapped air before maintaining the system (OSHA Requirement).





Operating Data:

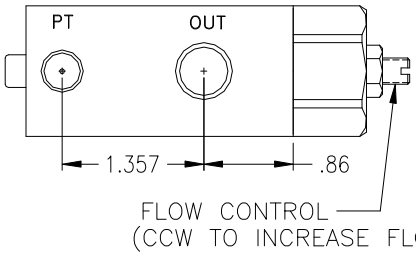
Max. Pressure:	150 psi
Min. Pilot Pressure:	40 psi
	25 psi (see table `–K18')
Leak Rate:	.0000522 cc/min
Temp. Range:	30-150 F
	30-350 F (see table '-V')
	-40 -150 F (see table '-T40')
Cycle Rate:	1 cyc./sec. max.
Flow Capacity (Cv):	1.7 (1/8 model)
	2.6 (1/4 and 3/8 models)
Cracking Pressure:	1-2 psi
Service:	Properly filtered dry air or lubricated air.

Model No.	1/8 NPTF	1/4 NPTF	3/8 NPTF	1/4 BSPP	3/8 BSPP
No Manual Release	**B2M00**	**B4M00**	**B6M00**	**BG4M00-1**	**BG6M00**
Manual Release	**B2M0M**	**B4M0M**	**B6M0M**	**BG4M0M-1**	**BG6M0M**
Flush Manual Release	**B2MFM**	**B4MFM**	**B6MFM**	**BG4MFM-1**	**BG6MFM**

For high temp seals add (-V) to the model # (ex. B2M0M-V).
For low temp seals add (-T40) to the model # (ex. B2M0M-T40).
For a lower pilot pressure add (-K18) to the model # (ex. B2M0M-K18).
For the non-ferrous model add (–NF) to the model # (ex. B2M0M-NF).

1/4, 3/8 NPTF & G1/4, G3/8 BSPP Pilot Operated Check Valves with Flow Controls Fast Advance and Slow Retract - Avoid Crash Landings

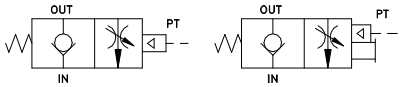
- **Avoid Crash Landings**
- **Optional Manual Release**
- **.000052 cc/min Leak Rate**
- **Non-Ferrous Available**

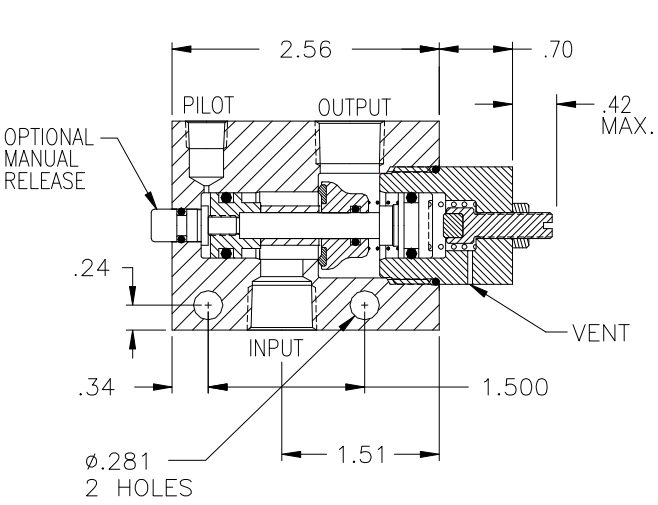


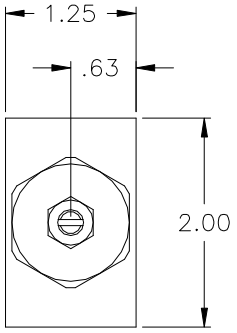
PORT SIZES		
PILOT	INPUT	OUTPUT
1/8 NPTF	1/4 NPTF	1/4 NPTF
1/8 NPTF	3/8 NPTF	3/8 NPTF
G1/4 BSPP	G1/4 BSPP	G1/4 BSPP
G1/8 BSPP	G3/8 BSPP	G3/8 BSPP

Basic Operation:

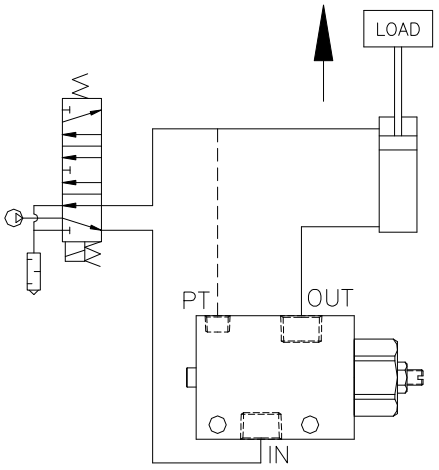
Hold position when a pressure drop or total loss of pressure occurs. Flow control meters air from the output to the input port. Manual release to exhaust trapped air before maintaining the system (OSHA Requirement).







No. of Turns	Equivalent Diameter (in.)
.25	.15
.50	.21
.75	.26
1.0	.30
1.25	.34
1.50	.37
1.75	.40



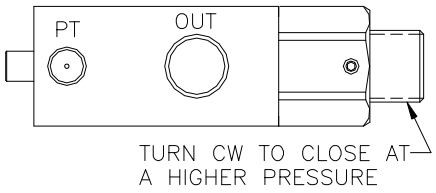
Operating Data:

Max. Pressure: 150 psi
Min. Pilot Press.: 40 psi
25 psi (see table)
Temp. Range: 30 - 150 F
Cycle Rate: 1 cycles/sec max.
Flow Capacity (Cv): 2.6 max
Cracking Pressure: 1-2 psi
Service: Properly filtered dry or lubricated air.

Model:	1/4 NPTF	3/8 NPTF	1/4 BSPP	3/8 BSPP
No Manual Release	**B4M00FL**	**B6M00FL**	**BG4M00FL-1**	**BG6M00FL**
Manual Release	**B4M0MFL**	**B6M0MFL**	**BG4M0MFL-1**	**BG6M0MFL**
Flush Manual Release	**B4MFMFL**	**B6MFMFL**	**BG4MFMFL-1**	**BG6MFMFL**
For a lower pilot pressure add (-K18) to the model # (ex. B4M0MFL-K18).				

1/8, 1/4, 3/8 NPTF & G1/4, G3/8 BSPP Adjustable Pilot-Operated Check Valve for Faster Stops or to Close at a Set Pressure.

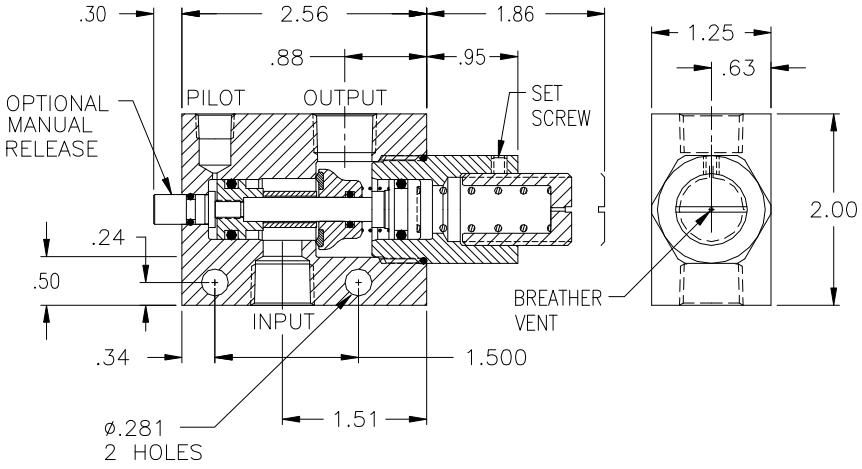
- **Adjustable Pilot Pressure**
- **Faster Stops**
- **.000052 cc/min Leak Rate**
- **Manual Release Option**

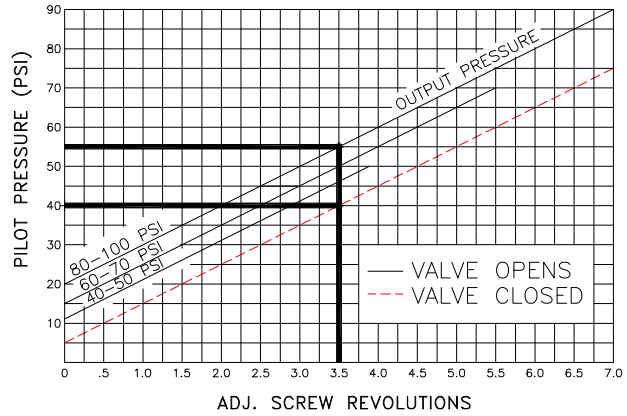


PORT SIZES		
PILOT	INPUT	OUTPUT
1/8 NPTF	1/4 NPTF	1/4 NPTF
1/8 NPTF	3/8 NPTF	3/8 NPTF
G1/4 BSPP	G1/4 BSPP	G1/4 BSPP
G1/8 BSPP	G3/8 BSPP	G3/8 BSPP

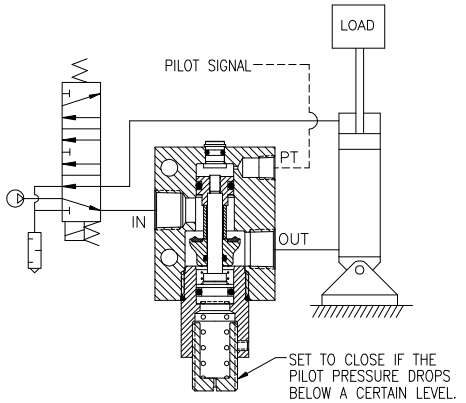
Basic Operation:

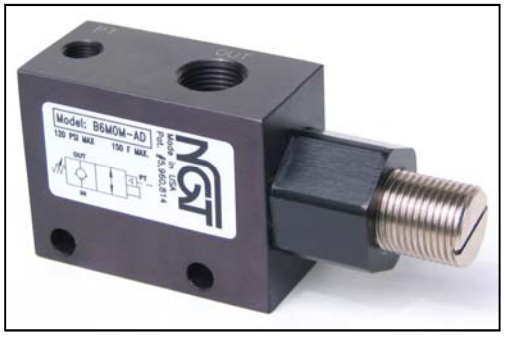
Locks any pneumatic device in position when a pressure drop or total loss of pressure occurs. Set the valve to close at a certain pressure. The pilot line reads the pressure and closes the valve when the pressure drops below the set pressure.





EXAMPLE: With the output pressure or trapped pressure at 80 psi the pilot pressure to open the valve must be a minimun of 55 psi. The valve will close when the back pressure drops to 40 psi.





Operating Data:

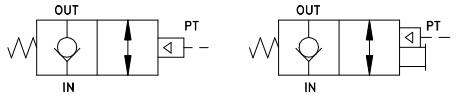
Max. Pressure: 120 psi
Min. Pilot Pressure: Adjustable
Leak Rate: .0000522 cc/min.
Temp. Range: 30-150 F
Cycle Rate: 1 cyc./sec.
Flow Capacity (Cv): 1.7 max. (1/8)
2.6 max. (1/4 & 3/8)
Cracking Pressure: 1-2 psi
Service: Properly filtered and lubricated air.

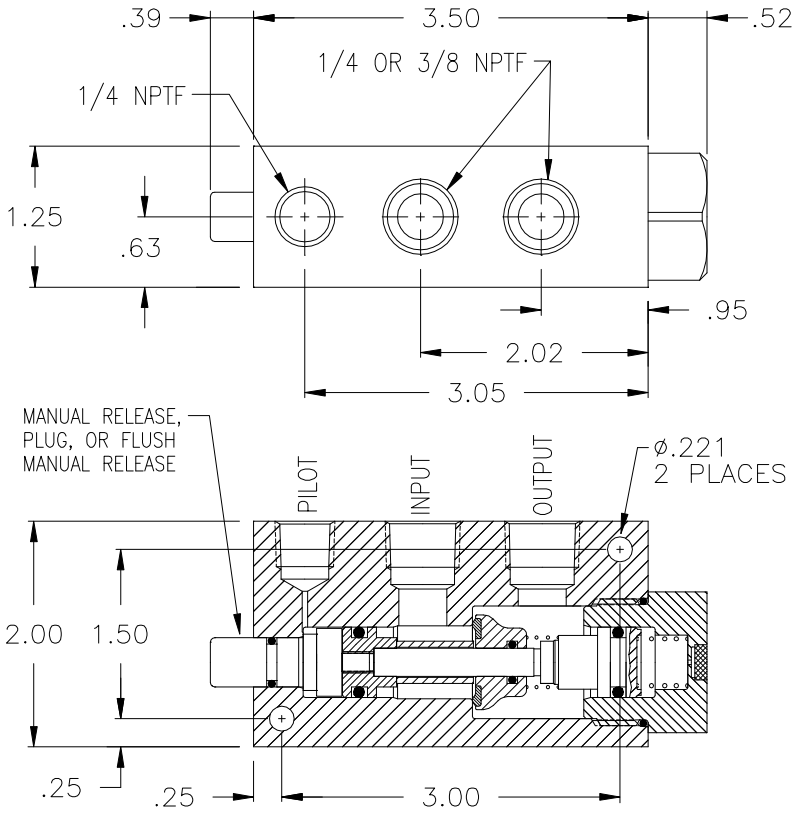
Model No.	1/8 NPTF	1/4 NPTF	3/8 NPTF	1/4 BSPP	3/8 BSPP
No Manual Release	**B2M00AD**	**B4M00AD**	**B6M00AD**	**BG4M00AD-1**	**BG6M00AD**
Manual Release	**B2M0MAD**	**B4M0MAD**	**B6M0MAD**	**BG4M0MAD-1**	**BG6M0MAD**
Flush Manual Release	**B2MFMAD**	**B4MFMAD**	**B6MFMAD**	**BG4MFMAD-1**	**BG6MFMAD**

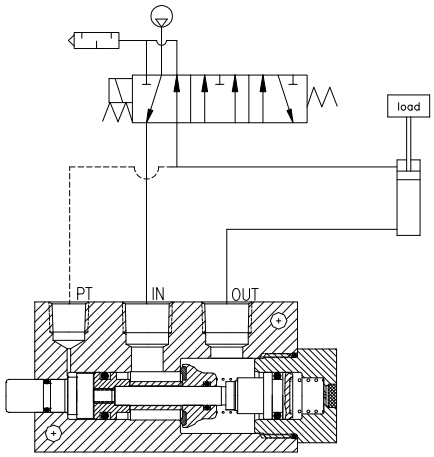
- **Immediate Checking**
- **Optional Manual Release**
- **.0000522 cc/min Leak Rate**
- **Low & High Temp**

Basic Operation:

Lock your pneumatic device in position when a pressure drop or total loss of pressure occurs. Manual release for exhausting trapped air before maintaining the system (OSHA Requirement).







Typical Locking Circuit

Operating Data:

Max. Pressure:	150 psi
Min. Pilot Pressure:	40 psi
	25 psi (see table `-K18')
Leak Rate:	.0000522 cubic cm/min
Temp. Range:	30 -150 F
	30 - 350 F (see table `-V')
	-40 -150 F (see table `-T40)
Cycle Rate:	1 cyc./sec. max.
Flow Capacity (Cv):	2.6
Cracking Pressure:	1-2 psi
Service:	Properly filtered dry air or lubricated air.

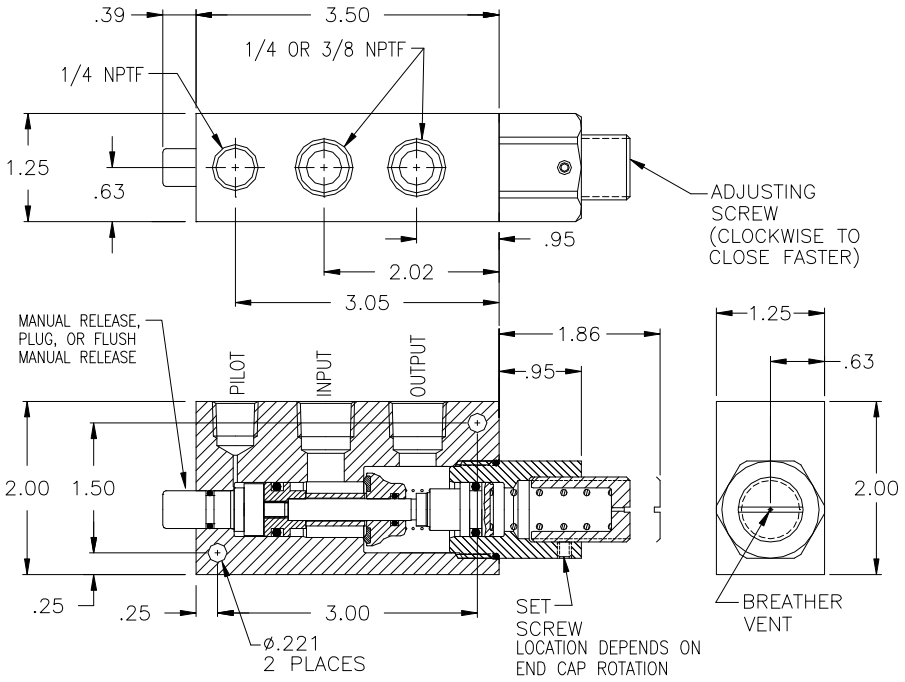
Model No.	1/4 NPTF	3/8 NPTF
No Manual Release	**B4100**	**B6100**
Manual Release	**B410M**	**B610M**
Flush Manual Release	**B41FM**	**B61FM**

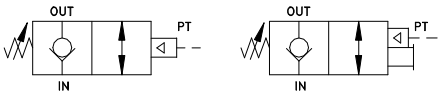
For a lower pilot pressure add (-K18) to the model # (ex. B610M-K18)
For high temp seals add (-V) to the model # (ex. B4100-V)
For low temp seals add (-T40) to the model # (ex. B4100-T40)

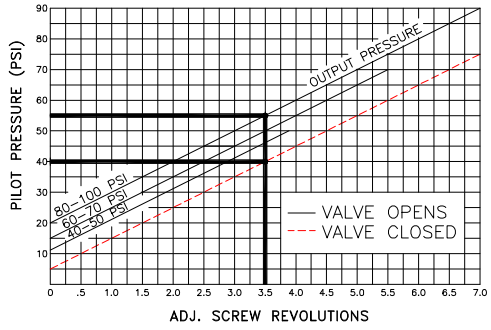
- **Adjustable Pilot Pressure**
- **Faster Stops**
- **.0000522 cc/min Leak Rate**
- **Manual Release Option**

Basic Operation:

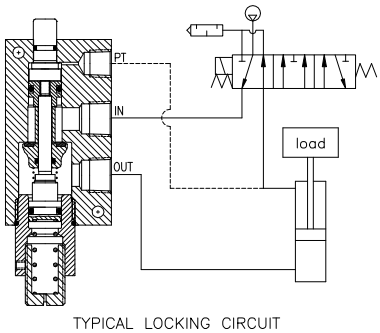
Locks any pneumatic device in position when a pressure drop or total loss of pressure occurs. Standard pilot-operated check valves will not close fast enough when back pressure is present in the pilot line. Increasing the spring pressure causes the valve to close before all the air exhausts, resulting in faster stops.







EXAMPLE: With the output pressure or trapped pressure at 80 psi the pilot pressure to open the valve must be a minimun of 55 psi. The valve will close when the back pressure drops to 40 psi.



TYPICAL LOCKING CIRCUIT

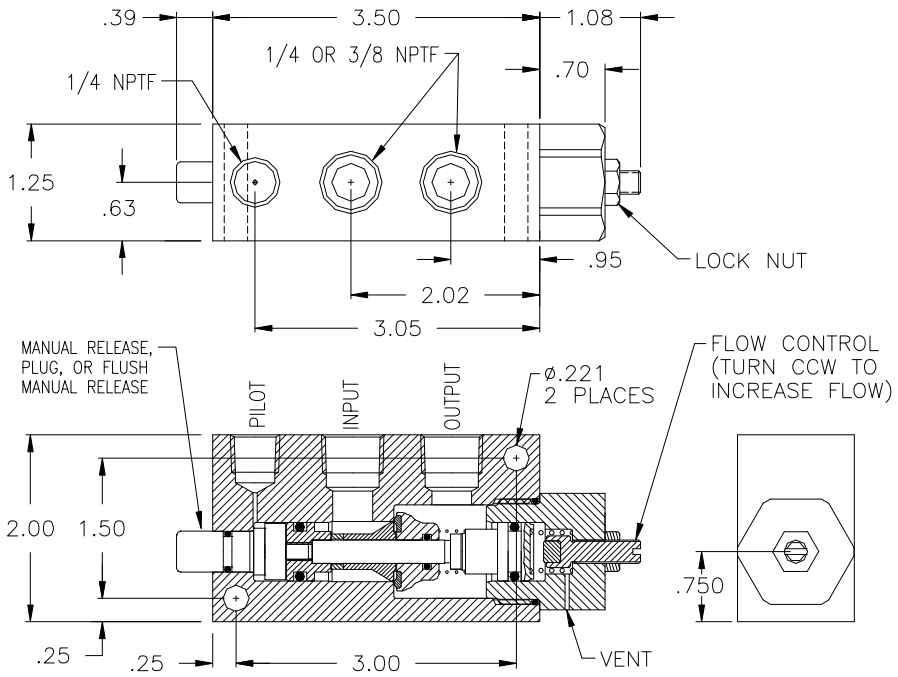
Operating Data:

Max. Pressure:	120 psi
Pilot Pressure:	Adjustable
Temp. Range:	30-150 F
Cycle Rate:	1 cyc./sec.
Flow Capacity (Cv):	2.6
Cracking Pressure:	1-2 psi
Service:	Properly filtered and lubricated air.

Models:	1/4 NPTF	3/8 NPTF
No Manual Release	**B4100AD**	**B6100AD**
Manual Release	**B410MAD**	**B610MAD**
Flush Manual Release	**B41FMAD**	**B61FMAD**

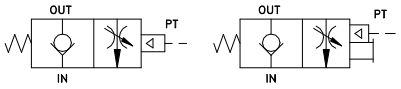
1/4 & 3/8 NPTF Pilot Operated Check Valves with Flow Controls
Fast Advance and Slow Retract - Avoid Crash Landings

- Lower Loads Slowely
- Optional Manual Release
- .0000522 cc/min Leak Rate

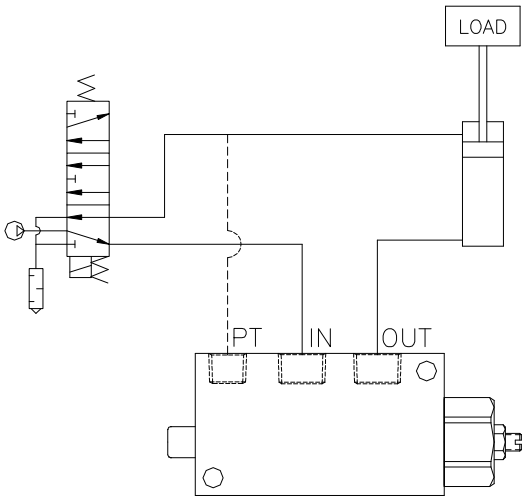


Basic Operation:

Hold position when a pressure drop or total loss of pressure occurs. Flow control meters air from the output to the input port. Manual release to exhaust trapped air before maintaining the system (OSHA Requirement).



No. of Turns	Equivalent Diameter (in.)
.25	.15
.50	.21
.75	.26
1.0	.30
1.25	.34
1.50	.37
1.75	.40



Operating Data:

Max. Pressure: 150 psi
Min. Pilot Press.: 40 psi
25 psi (see table)
Temp. Range: 30 - 150 F
Cycle Rate: 1 cycles/sec max.
Flow Capacity (Cv): 2.6 max.
Cracking Pressure: 1-2 psi
Service: Properly filtered dry or lubricated air.

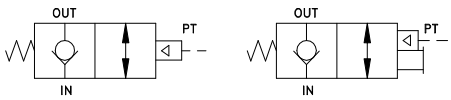
Model:	1/4 NPTF	3/8 NPTF
No Manual Release	B4100FL	B6100FL
Manual Release	B410MFL	B610MFL
Flush Man. Release	B41FMFL	B61FMFL
For a lower pilot pressure add (-K18) to the model # (ex. B610MFL-K18).		

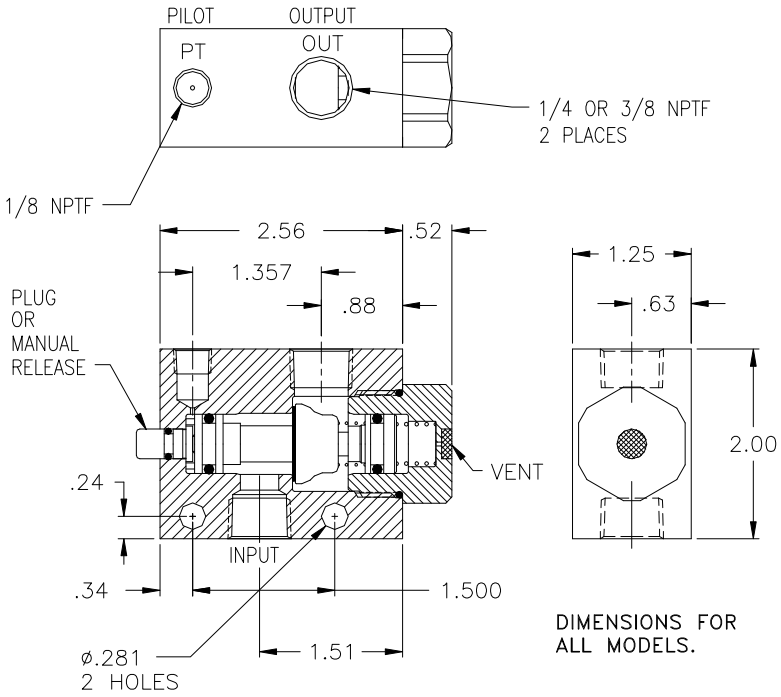
1/4 & 3/8 NPTF 316 Stainless Balanced Pilot Operated Check Valves

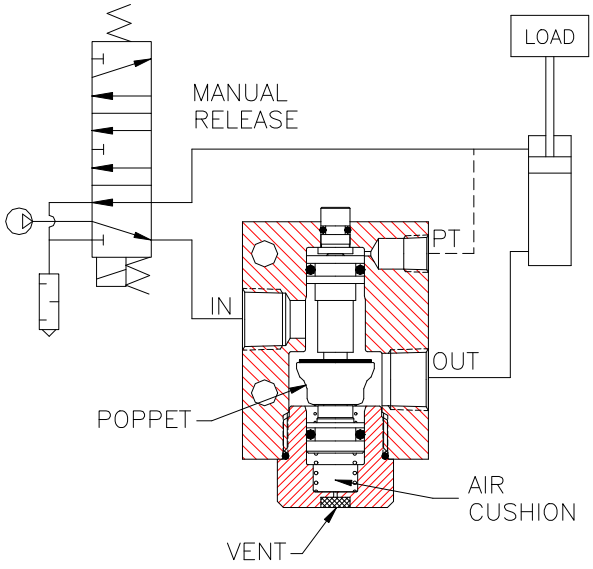
- **Immediate Checking**
- **Optional Manual Release**
- **.0000522 cc/min Leak Rate**
- **Low & High Temp**

Basic Operation:

Lock your pneumatic device in position when a pressure drop or total loss of pressure occurs. Manual release for exhausting trapped air before maintaining the system (OSHA Requirement).







Operating Data:

Max. Pressure:	150 psi
Min. Pilot Pressure:	40 psi
Leak Rate:	.0000522 cubic cm/min
Temp. Range:	30-150 F 30-350 F (see table '-V') -40-150 F (see table '-T40')
Cycle Rate:	1 cyc./sec. max.
Flow Capacity (Cv):	2.6
Cracking Pressure:	1-2 psi
Service:	Properly filtered dry air or lubricated air.

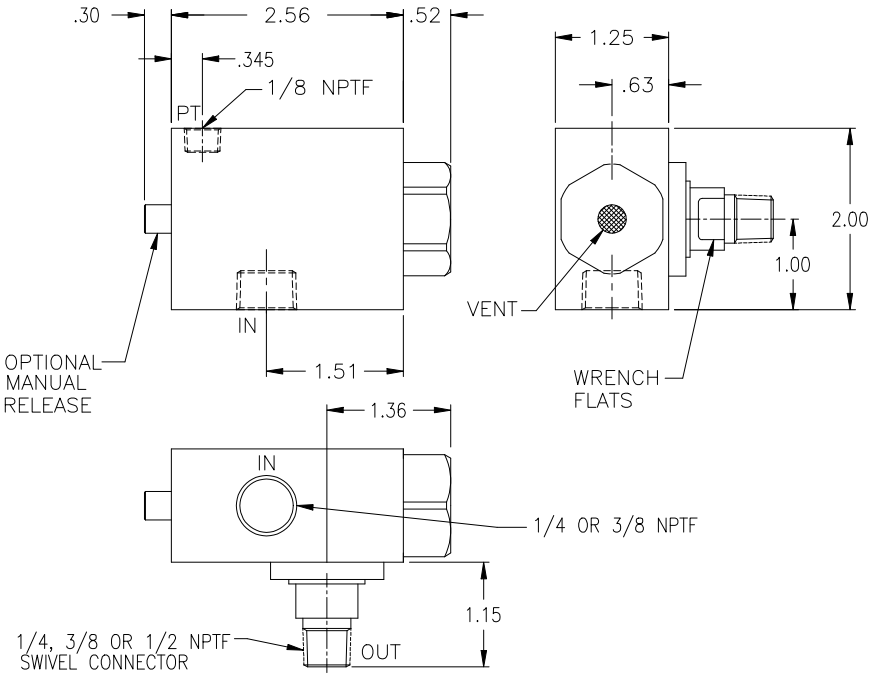
Model No.	1/4 NPTF	3/8 NPTF
No Manual Release	**B4M00SS**	**B6M00SS**
Manual Release	**B4M0MSS**	**B6M0MSS**
Flush Manual Release	**B4MFMSS**	**B6MFMSS**

For high temp seals add (-V) to the model # (ex. B4M0MSS-V).
For low temp seals add (-T40) to the model # (ex. B4M0MSS-T40).

- **Optional Manual Release**
- **.0000522 cc/min Leak Rate**
- **Direct Mounting Swivel**

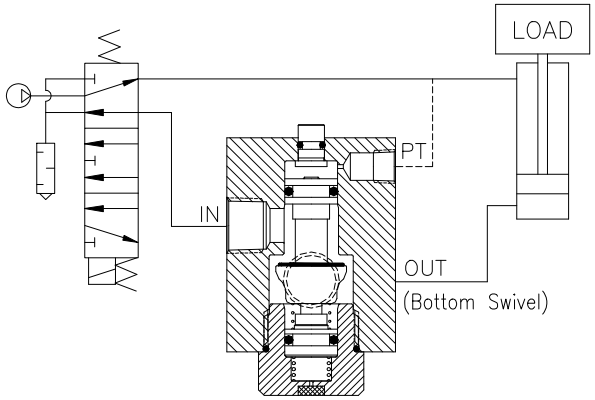
Basic Operation:

Locks any pneumatic device in position when a pressure drop or total loss of pressure occurs. Manual release removes trapped air before maintaining the system (OSHA requirement).



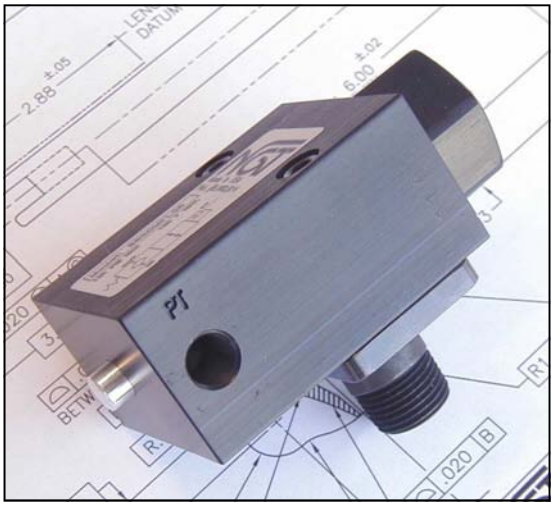
Operating Data:

Max. Pressure:	150 psi
Min. Pilot Pressure:	40 psi 25 psi (see table)
Temp. Range:	30-150 F -40-150 F (low temp)
Cycle Rate:	1 cyc./sec. max.
Flow Capacity (Cv):	2.6
Cracking Pressure:	1-2 psi
Service:	Properly filtered dry air or lubricated air.



Models	1/4 Swivel	3/8 Swivel	1/2 Swivel
1/4 NPTF Input Port			
No Manual Release	**B4S00-25**	**B4S00-38**	**B4S00-50**
Manual Release	**B4S0M-25**	**B4S0M-38**	**B4S0M-50**
Flush Man. Release	**B4SFM-25**	**B4SFM-38**	**B4SFM-50**
3/8 NPTF Input Port			
No Manual Release	**B6S00-25**	**B6S00-38**	**B6S00-50**
Manual Release	**B6S0M-25**	**B6S0M-38**	**B6S0M-50**
Flush Man. Release	**B6SFM-25**	**B6SFM-38**	**B6SFM-50**

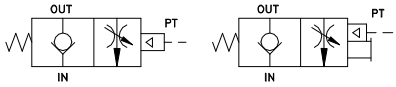
For low temp version add a (-T40) to the end of the model # (Ex: B4S00-25-T40).
For low pilot pressure add a (- K18) to the end of the model # (Ex: B4S00-K18).

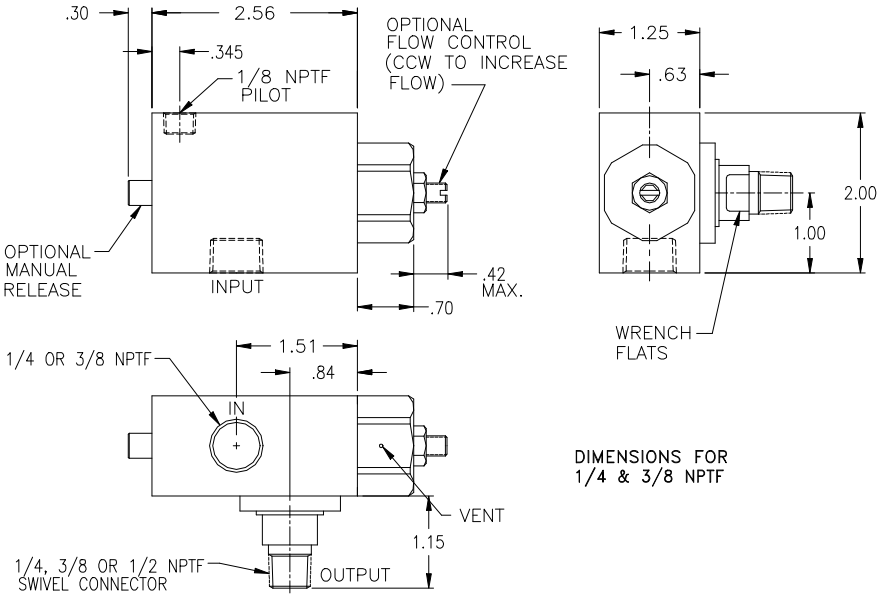


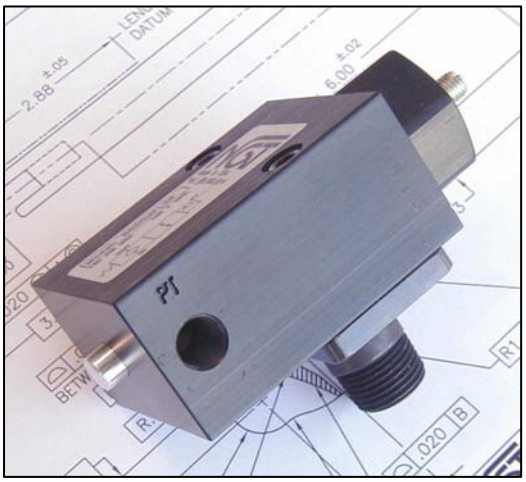
- **Optional Manual Release**
- **.0000522 cc/min Leak Rate**
- **Swivel Mount**
- **Lower Loads Slowly**

Basic Operation:

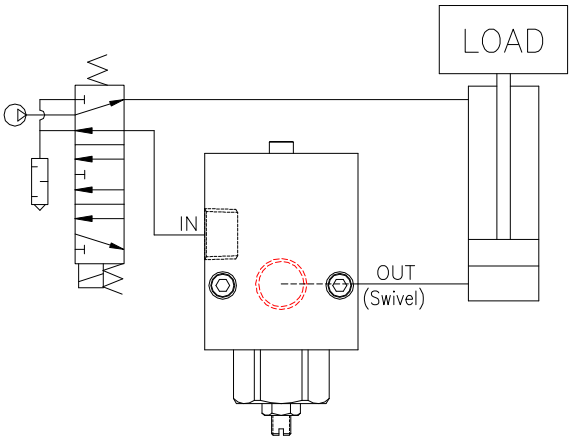
Hold position when a pressure drop or total loss of pressure occurs. Fast advance and slow retract to avoid crash landings. Manual release to exhaust trapped air before maintaining the system (OSHA Requirement).







No. of Turns	Equivalent Diameter (in.)
.25	.15
.50	.21
.75	.26
1.0	.30
1.25	.34
1.50	.37
1.75	.40



Operating Data:

Max. Pressure: 150 psi
Min. Pilot Pressure: 40 psi
25 psi (see table)
Cycle Rate: 1 cyc./sec.
Temp. Range: 30-150 F
Flow Capacity (Cv): 2.6 max.
Cracking Pressure: 1-2 psi
Service: Properly filtered and lubricated air or dry air.

Models:

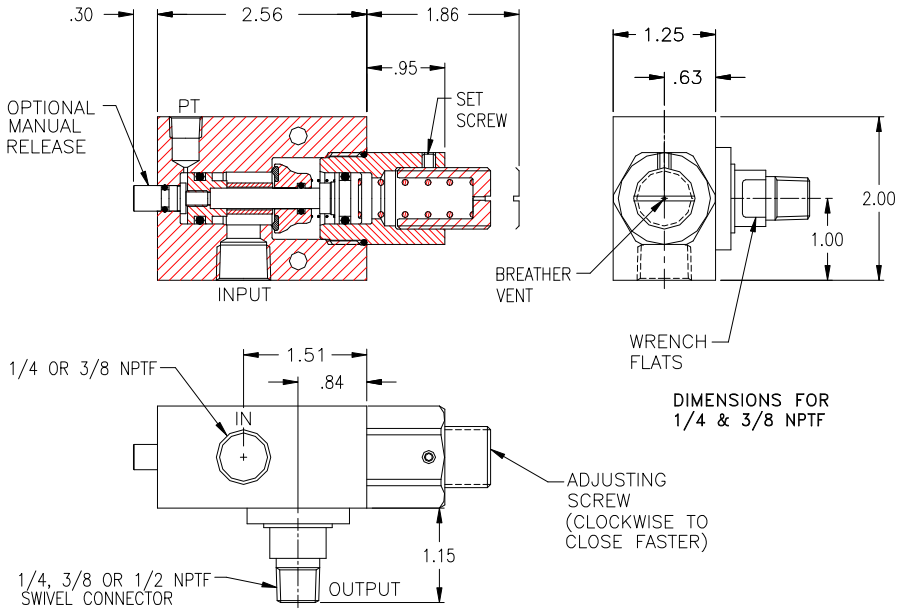
1/4 NPTF Input Port	1/4 Swivel	3/8 Swivel	1/2 Swivel
No Manual Release	**B4S00FL-25**	**B4S00FL-38**	**B4S00FL-50**
Manual Release	**B4S0MFL-25**	**B4S0MFL-38**	**B4S0MFL-50**
Flush Manual Release	**B4SFMFL-25**	**B4SFMFL-38**	**B4SFMFL-50**
3/8 NPTF Input Port	1/4 Swivel	3/8 Swivel	1/2 Swivel
No Manual Release	**B6S00FL-25**	**B6S00FL-38**	**B6S00FL-50**
Manual Release	**B6S0MFL-25**	**B6S0MFL-38**	**B6S0MFL-50**
Flush Manual Release	**B6SFMFL-25**	**B6SFMFL-38**	**B6SFMFL-50**
For a lower pilot pressure add (-K18) to the model # (Ex: B6S0MFL-25-K18)			

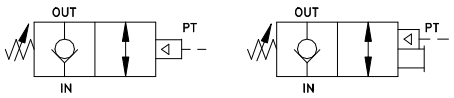
1/4, 3/8 and 1/2 NPTF Swivel Mount Pilot-Operated Check Valves with 'Quick Close' Adjustment

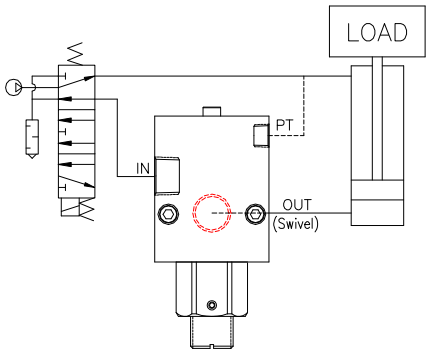
- **Optional Manual Release**
- **.0000522 cc/min Leak Rate**
- **'Quick Close' Operation**
- **Direct Mounting Swivel**

Basic Operation:

Locks any pneumatic device in position when a pressure drop or total loss of pressure occurs. Standard pilot-operated check valves will not close fast enough when back pressure is present in the pilot line. Increasing the spring pressure causes the valve to close at a higher pilot pressure or before all the air exhausts, resulting in faster stops. Optional manual and flush manual release.





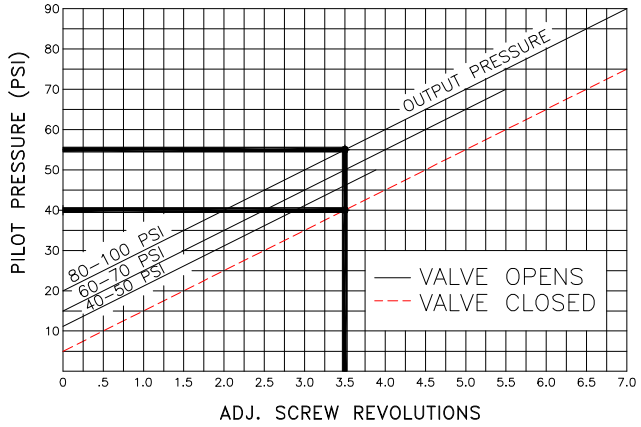


Operating Data:

Max. Pressure:	120 psi
Min. Pilot Pressure:	Adjustable
Temp. Range:	30-150 F
Cycle Rate:	1 cyc./sec.
Flow Capacity (Cv):	2.6
Cracking Pressure:	1-2 psi
Service:	Properly filtered and lubricated air.

MODELS			
1/4 NPTF Input Port			
	1/4 Swivel	3/8 Swivel	1/2 Swivel
No Manual Release	**B4S00AD-25**	**B4S00AD-38**	**B4S00AD-50**
Manual Release	**B4S0MAD-25**	**B4S0MAD-38**	**B4S0MAD-50**
Flush Release	**B4SFMAD-25**	**B4SFMAD-38**	**B4SFMAD-50**

3/8 NPTF Input Port			
	1/4 Swivel	3/8 Swivel	1/2 Swivel
No Manual Release	**B6S00AD-25**	**B6S00AD-38**	**B6S00AD-50**
Manual Release	**B6S0MAD-25**	**B6S0MAD-38**	**B6S0MAD-50**
Flush Release	**B6SFMAD-25**	**B6SFMAD-38**	**B6SFMAD-50**

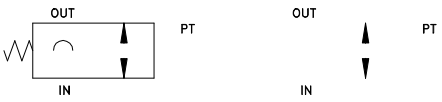


EXAMPLE: With the output pressure or trapped pressure at 80 psi the pilot pressure to open the valve must be a minimun of 55 psi. The valve will close when the back pressure drops to 40 psi.

1/2 & 3/4 NPTF Balanced Pilot Operated Check Valves

Basic Operation:

Lock your pneumatic device in position when a pressure drop or total loss of pressure occurs. Manual release for exhausting trapped air before maintaining the system (OSHA Requirement).



Model No.	1/2 NPTF	3/4 NPTF
No Manual Release	**B8100**	**B12100**
Manual Release	**B810M**	**B1210M**
Flush Manual Release	**B81FM**	**B121FM**

For a lower pilot pressure add (-K18) to the model # (ex. B810M-K18).
For high temp seals add (-V) to the model # (ex. B810M-V).
For low temp seal add (-T40) to the model # (ex. B810M-T40).

NGT LLC P.O Box 5223, Elm Grove, WI 53122-5223 (Tel) 262-782-6125 (Fax) 262-782-0197 www.ngtvalves.com

- Lower Loads Slowly
- Optional Manual Release
- .0000522 cc/min Leak Rate

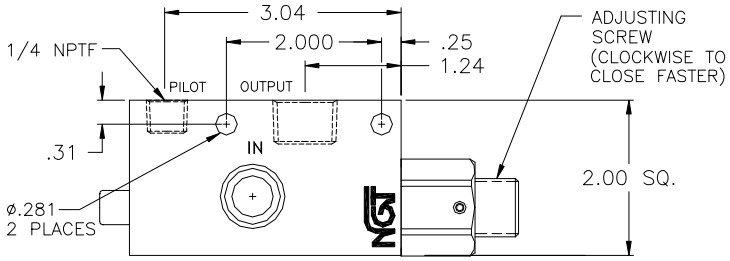
Basic Operation:

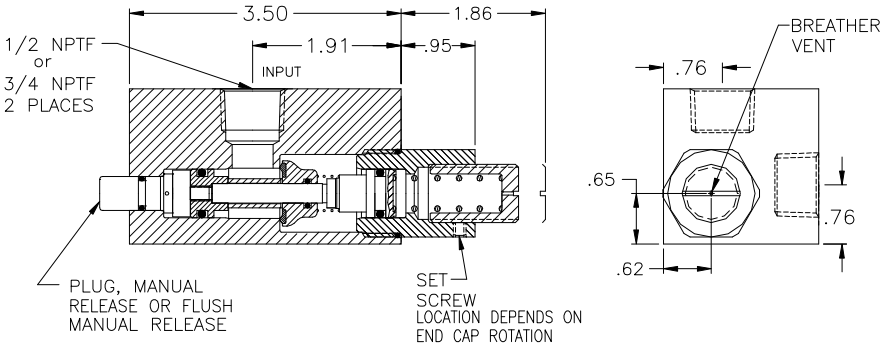
Hold position when a pressure drop or total loss of pressure occurs. Flow control meters air from the output to the input port. Manual release to exhaust trapped air before maintaining the system (OSHA Requirement).

Model:	1/2 NPTF	3/4 NPTF
No Manual Release	**B8100FL**	**B12100FL**
Manual Release	**B810MFL**	**B1210MFL**
Flush Man. Release	**B81FMFL**	**B121FMFL**

NGT LLC P.O Box 5223, Elm Grove, WI 53122-5223 (Tel) 262-782-6125 (Fax) 262-782-0197 www.ngtvalves.com

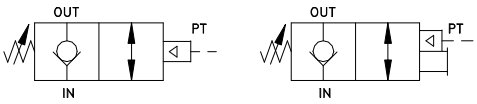
- **Adjustable Pilot Pressure**
- **Faster Stops**
- **.0000522 cc/min Leak Rate**
- **Manual Release Option**

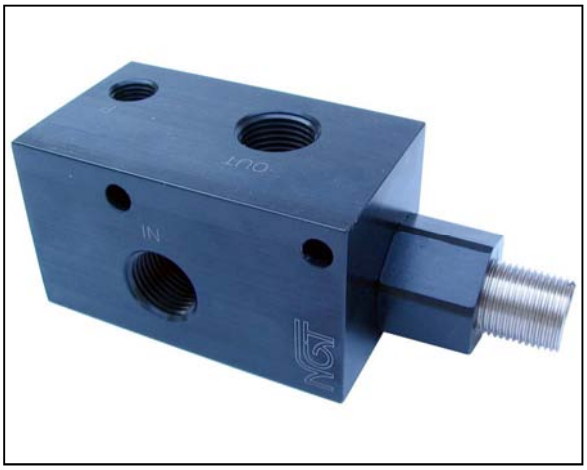


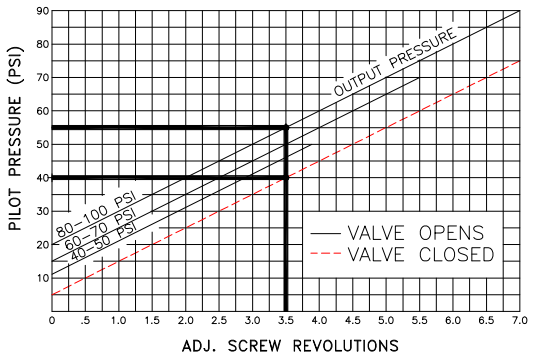


Basic Operation:

Locks any pneumatic device in position when a pressure drop or total loss of pressure occurs. Standard pilot-operated check valves will not close fast enough when back pressure is present in the pilot line. Increasing the spring pressure causes the valve to close before all the air exhausts, resulting in faster stops.







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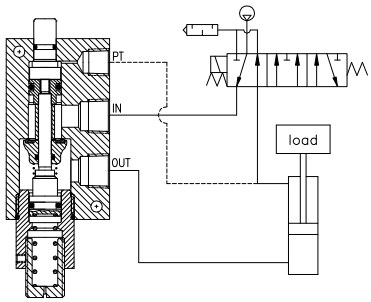

TYPICAL LOCKING CIRCUIT

Operating Data:

Max. Pressure: 120 psi
Pilot Pressure: Adjustable
Temp. Range: 30-150 F
Cycle Rate: 1 cyc./sec.
Flow Capacity (Cv): 3.8 max.
Cracking Pressure: 1-2 psi
Service: Properly filtered and lubricated air.

Models:	1/2 NPTF	3/4 NPTF
No Manual Release	**B8100AD**	**B12100AD**
Manual Release	**B810MAD**	**B1210MAD**
Flush Manual Release	**B81FMAD**	**B121FMAD**