

numatics®

50 Series

High Flow FRL Series



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50 Series

Features and Benefits	3
Filter	4
Regulator	5
Pilot Operated Regulator	6-7
Lubricator	8
Combinations-N50 Series	9
Replacement Parts and Kits	10



50 Series

High Flow FRL Series

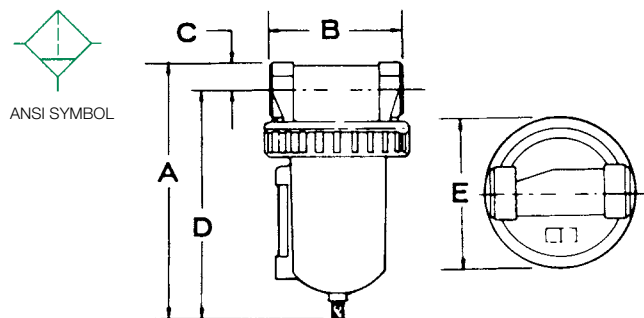
- High Flow
- High Pressure
- 1/4 to 1 1/2 NPTF & G Port Sizes - Regulators
- 1/4 to 2 1/2 NPTF & G Port Sizes - Pilot Regulators
- 3/4 to 1 1/2 NPTF & G Port Sizes - Filters and Lubricators
- T-Handle Adjustment Regulator
- Rugged Design
- Metal Bowls with Sight Glass
- FRL Assemblies Available

F50B Series

- Metal bowl with sight glass standard
- Manual or automatic drain

Specifications

Temperature Range °F (°C)	40-150 (4-65)
Max. Pressure PSIG (BAR)	250 (17.2)
3/4 & 1 Weight, lbs. (kg.)	6.3 (2.9)
1 & 1 1/2 Weight, lbs. (kg.)	7.0 (3.2)

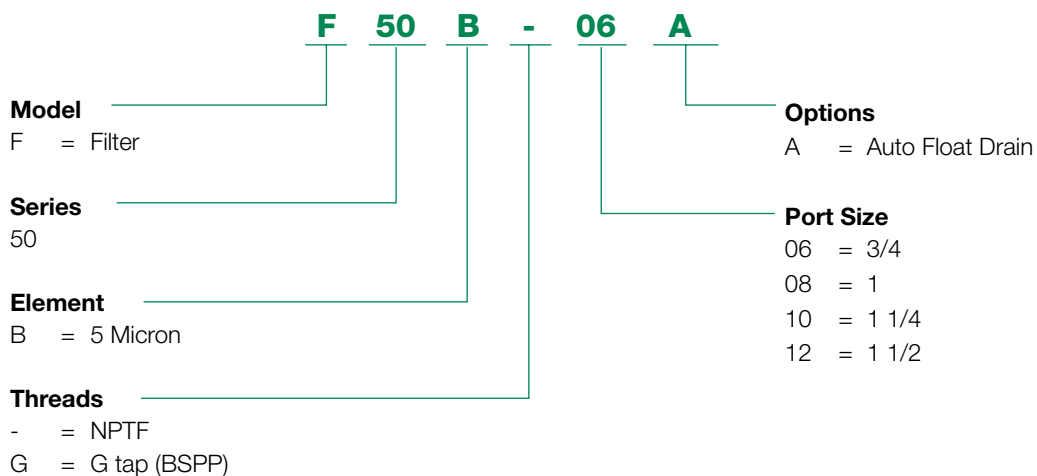
**Dimensions: Inches (mm)**

Size	A	B	C	D	E
3/4 & 1	8.81 (224.0)	4.56 (116.0)	1.94 (24.0)	7.88 (200.0)	4.97 (126.0)
1 1/4	9.53 (242.0)	5.19 (132.0)	1.28 (33.0)	8.25 (210.0)	4.97 (126.0)
1 1/2	9.53 (242.0)	5.19 (132.0)	1.28 (33.0)	8.25 (210.0)	4.97 (126.0)

Flow Ratings

Model	Micron Rating	Pipe Size	Bowl Size	SCFM
F50B-06	5	3/4	16 oz.	186
F50B-08	5	1	16 oz.	260
F50B-10	5	1 1/4	16 oz.	275
F50B-12	5	1 1/2	16 oz.	275

* Flow rates based on 100 PSIG inlet and a 5 PSID.

How To Order

NEED MORE PARTS AND INFORMATION?

- See page 10 for information on ordering replacement parts.

R50 Series

- Diaphragm-operated regulator
- T-handle standard
- Standard output pressure 0-125 PSIG

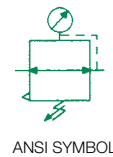
Specifications

Temperature Range °F (°C)	40-120 (4-46.9)
Max. Pressure PSIG (BAR)	300 (20.7)
1/4 & 3/8 Weight, lbs. (kg.)	1.8 (0.81)
1/2 Weight, lbs. (kg.)	2.8 (1.27)
3/4 & 1 Weight, lbs. (kg.)	6.2 (2.8)
1 & 1 1/2 Weight, lbs. (kg.)	7.2 (3.3)

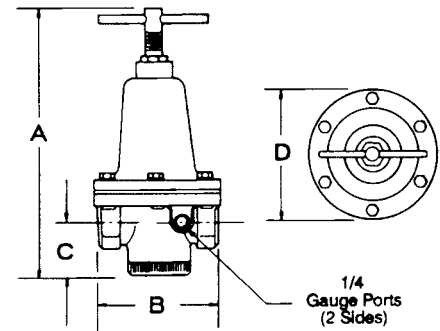
Flow Ratings

Model	Pipe Size	SCFM* @ Reduced Pressure of		
		25 PSIG	60 PSIG	80 PSIG
R50R-02	1/4	60	80	90
R50R-03	3/8	70	90	100
R50R-04	1/2	160	180	200
R50R-06	3/4	370	385	395
R50R-08	1	370	385	395
R50R-10	1 1/4	370	385	395
R50R-12	1 1/2	370	385	395

* Flow rates based on 100 PSIG inlet and 25% PSID.



ANSI SYMBOL



Dimensions: Inches (mm)

Size	A	B	C	D
1/4 & 3/8	6.19 (157.0)	2.75 (70.0)	1.38 (35.0)	3.0 (76.0)
1/2	6.75 (171.0)	3.75 (83.0)	1.47 (37.0)	3.56 (90.0)
3/4 & 1	8.81 (224.0)	4.56 (116.0)	1.94 (49.0)	7.88 (200.0)
1 1/4	9.53 (242.0)	5.19 (132.0)	1.28 (33.0)	8.25 (210.0)
1 1/2	9.53 (242.0)	5.19 (132.0)	1.28 (33.0)	8.25 (210.0)

How To Order

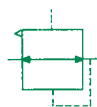
Model	R	50	R	-	04	G	Options
R = Regulator							G = Gauge
Series							H = 0-250 Regulator Output
50							
Style							Port Size
R = Relieving (standard)							02 = 1/4
N = Non-Relieving							03 = 3/8
Threads							04 = 1/2
- = NPTF							06 = 3/4
G = G tap (BSPP)							08 = 1
							10 = 1 1/4
							12 = 1 1/2

NEED MORE PARTS AND INFORMATION?

- See page 10 for information on ordering replacement parts.

R50W Series

- High flow
- Reduced pressure within 5-7 PSIG of pilot pressure
- Relieving or non-relieving models



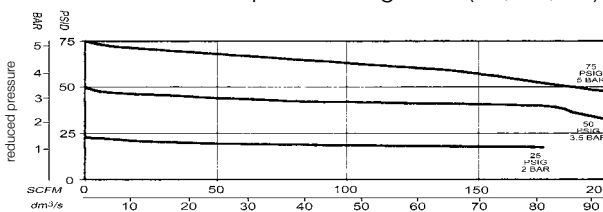
ANSI SYMBOL

Specifications

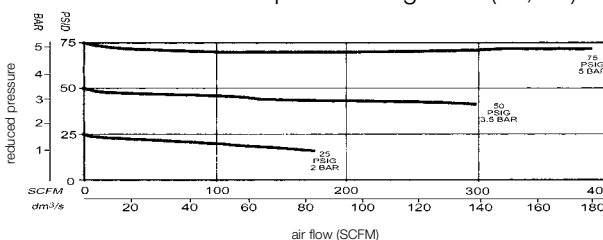
Temperature Range °F (°C)	40-120 (4-50)
Min. Pilot Pressure PSIG (BAR)	7 (0.5)
Max. Pilot Pressure PSIG (BAR)	300 (20)
Max. Supply Pressure PSIG (BAR)	300 (20)
1/4 & 3/8 Weight, lbs. (kg.)	1.6 (0.72)
1/2 Weight, lbs. (kg.)	2.6 (1.1)
3/4 & 1 Weight, lbs. (kg.)	5.2 (2.4)
1 & 1 1/2 Weight, lbs. (kg.)	5.6 (2.5)
2 & 2 1/2 Weight, lbs. (kg.)	15 (6.8)

Flow Rates (all flows based on 100 PSI inlet)

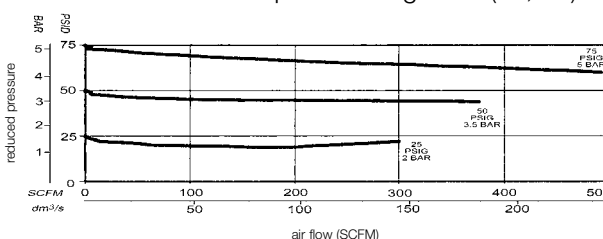
50 Series Pilot Operated Regulator (02, 03, 04)



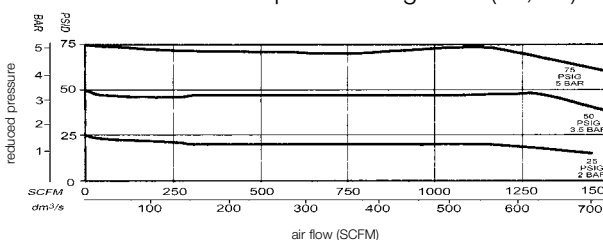
50 Series Pilot Operated Regulator (06, 08)



50 Series Pilot Operated Regulator (10, 12)



50 Series Pilot Operated Regulator (16, 20)



How To Order

Model
R = Regulator

Series
50

Style
W = All Pilot Operated Regulators

Threads
- = NPTF
G = G tap (BSPP)

Options
G = Gauge (0-160 PSIG)
N = Non-Relieving
(not available in 2 or 2 1/2 models)

Port Size
02 = 1/4
03 = 3/8
04 = 1/2
06 = 3/4
08 = 1
10 = 1 1/4
12 = 1 1/2
16 = 2
20 = 2 1/2

NEED MORE PARTS AND INFORMATION?

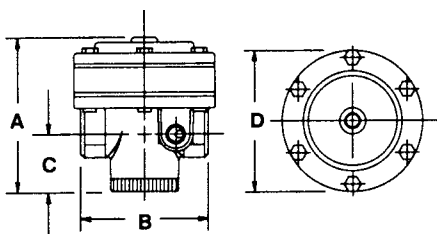
- See page 10 for information on ordering replacement parts.

numatics® High Flow Pilot Operated Regulator

**50
SERIES**

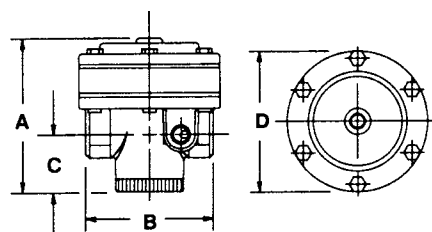
Dimensions: Inches (mm)

50 Series Pilot Operated Regulator (02, 03, 04)



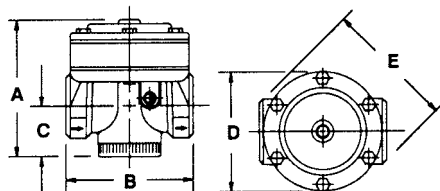
Size	A	B	C	D
1/4 & 3/8	3.38 (86.0)	2.75 (70.0)	1.38 (35.0)	3.0 (76.0)
1/2	3.88 (98.0)	3.25 (83.0)	1.47 (37.0)	3.56 (90.0)

50 Series Pilot Operated Regulator (06, 08)



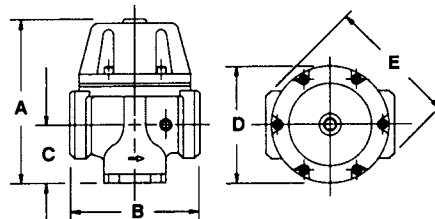
Size	A	B	C	D
3/4 & 1	4.84 (123.0)	4.44 (113.0)	1.93 (49.0)	4.68 (119.0)

50 Series Pilot Operated Regulator (10, 12)



Size	A	B	C	D	E
1 1/4 & 1 1/2	5.20 (132.0)	4.93 (125.0)	1.88 (48.0)	4.68 (119.0)	5.55 (141.0)

50 Series Pilot Operated Regulator (16, 20)



Size	A	B	C	D	E
2 & 2 1/2	8.88 (225.0)	7.31 (186.0)	3.09 (78.0)	6.63 (168.0)	8.0 (203.0)

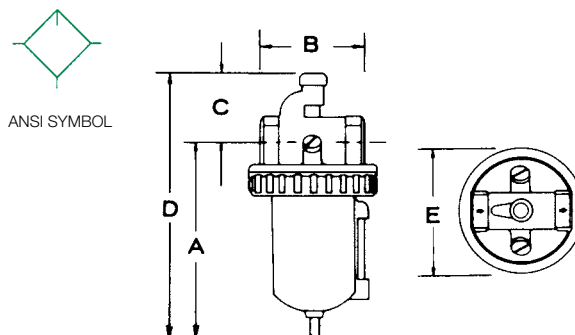
*Pilot ports for all models are 1/4.

L50 Series

- High flow
- Numerical adjustment

Specifications

	Std. (Lub.)	with "J" Option
Temperature Range °F (°C)	40-150 (4-65)	40-120 (4-50)
Max. Pressure PSIG (BAR)	250 (17.2)	150 (10.3)
3/4 & 1 Weight, lbs. (kg.)	4.2 (1.9)	7.2 (3.3)
1 & 1 1/2 Weight, lbs. (kg.)	7.5 (3.4)	10 (4.5)

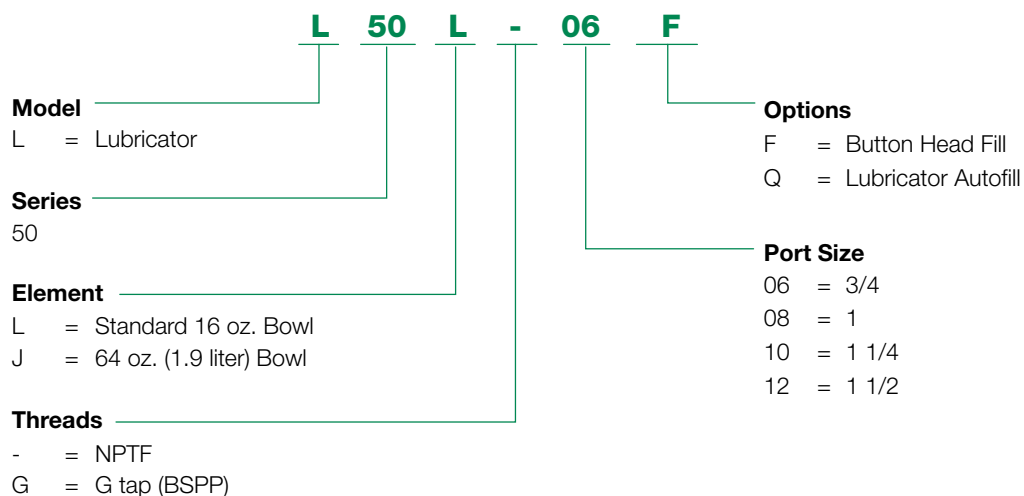
**Dimensions: Inches (mm)**

Size	A	B	C	D	E
3/4 & 1	9.88 (251)	4.06 (103)	2.63 (67)	7.25 (184)	4.97 (126)
1 1/4	10.47 (266)	4.81 (122)	2.84 (72)	7.63 (194)	4.97 (126)
1 1/2	10.47 (266)	4.81 (122)	2.84 (72)	7.63 (194)	4.97 (126)

Flow Ratings

Model	Pipe Size	Bowl Size	SCFM
L50L-06	3/4	16 oz.	300
L50L-08	1	16 oz.	325
L50L-10	1 1/4	16 oz.	500
L50L-12	1 1/2	16 oz.	570

* Flow rates based on 100 PSIG inlet and a 5 PSID.

How To Order

NEED MORE PARTS AND INFORMATION?

- See page 10 for information on ordering replacement parts.

50 Series Combinations – N50 Series

Filter/Regulator/Lubricator



Model Number	Pipe Size NPTF	SCFM	Filter	Regulator	Lubricator
N50-06FRL	3/4	186	F50B-06	R50R-06	L50L-06
N50-08FRL	1	260	F50B-08	R50R-08	L50L-08
N50-10FRL	1 1/4	275	F50B-10	R50R-10	L50L-10
N50-12FRL	1 1/2	275	F50B-12	R50R-12	L50L-12

Filter/Lubricator



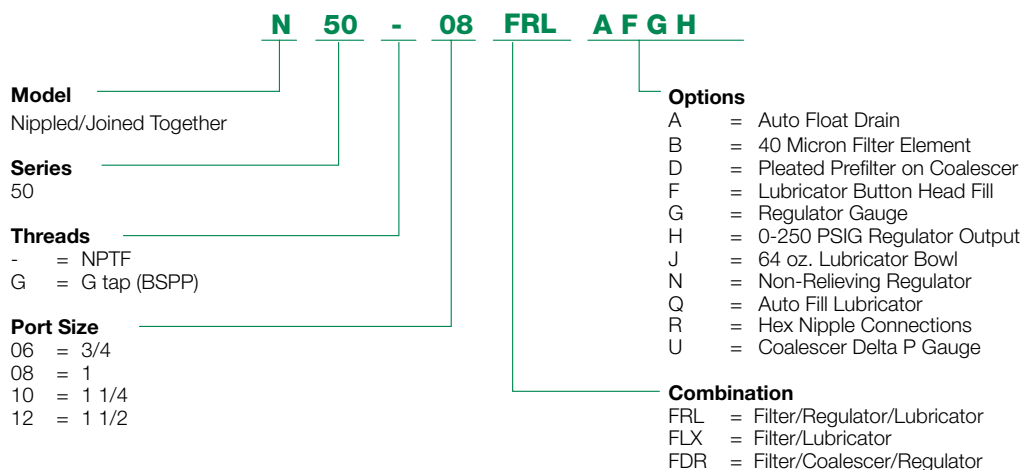
Model Number	Pipe Size NPTF	SCFM	Filter	Lubricator
N50-06FLX	3/4	185	F50B-06	L50L-06
N50-08FLX	1	260	F50B-08	L50L-08
N50-10FLX	1 1/4	275	F50B-10	L50L-10
N50-12FLX	1 1/2	275	F50B-12	L50L-12

Filter/Coalescer/Regulator



Model Number	Pipe Size NPTF	SCFM	Filter	Coalescer	Regulator
N50-06FDR	3/4	80	F50B-06	F901D-06	R50R-06
N50-08FDR	1	100	F50B-08	F901D-08	R50R-08
N50-10FDR	1 1/4	220	F50B-10	F901D-10	R50R-10
N50-12FDR	1 1/2	250	F50B-12	F901D-12	R50R-12

How To Order



NEED MORE PARTS AND INFORMATION?

- See page 10 for information on ordering replacement parts.

50 Series High Flow Filter

Element Replacement Kits	
includes filter element only	
Kit #	Description
12 Series	
EKF50A-02	50 Series, 40 micron element, 1/4"-3/8"
EKF50B-03	50 Series, 5 micron element, 1/4"-3/8"
EKF48A	50 Series, 40 micron element, 1/2"
EKF48B	50 Series, 5 micron element, 1/2"
EKF50A	50 Series, 40 micron element, 3/4"-1-1/2"
EKF50B	50 Series, 5 micron element, 3/4"-1-1/2"

Filter Repair Kits	
includes Turbo-Flo, element retainer, quiet zone baffle, deflector retainer	
Kit #	Description
RKF50	50 Series, filter repair kit

Bowl Replacement Kits	
includes bowl, o-ring, locking ring	
Kit #	Description
BKF50A	50 Series, 02,03,04 Series bowl
BKF50B	50 Series, 06,08,10,12 Series bowl

Sight Glass Repair Kit	
includes tube and 2 o-rings	
Kit #	Description
SKFL50	50 Series, sight glass repair kit

50 Series High Flow Regulator

Regulator Repair Kits	
Includes diaphragm and inner valve	
Kit #	Description
RKR48RA	for R50R-02, (relieving) or for R50R-03, (relieving)
RKR48RB	for R50R-04, (relieving)
RKR50RA	for R50R-06, (relieving) or for R50R-08, (relieving)
RKR50RB	for R50R-10, (relieving) or for R50R-12, (relieving)
RKR48NA	for R50N-02, (non-relieving) or for R50N-03, (non-relieving)
RKR48NB	for R50N-04, (non-relieving)
RKR50NA	for R50N-06, (non-relieving) or for R50N-08, (non-relieving)
RKR50NB	for R50N-10, (non-relieving) or for R50N-12, (non-relieving)

50 Series High Flow Pilot Operated Regulator

Diaphragm Repair Kits	
includes upper diaphragm, lower diaphragm, inner valve	
Kit #	Description
RKW50RA	for R50W-02, (relieving) or for R50W-03, (relieving)
RKW50RB	for R50W-04, (relieving)
RKW50RC	for R50W-06, (relieving) or for R50W-08, (relieving)
RKW50RD	for R50W-10, (relieving) or for R50W-12, (relieving)
RKW50RE	for R50W-16, (relieving) or for R50W-20, (relieving)
RKW50NA	for R50W-02N, (non-relieving) or for R50W-03N, (non-relieving)
RKW50NB	for R50W-04N, (non-relieving)
RKW50NC	for R50W-06N, (non-relieving) or for R50W-08N, (non-relieving)
RKW50ND	for R50W-10N, (non-relieving) or for R50W-12N, (non-relieving)
RKW50NE	for R50W-16N, (non-relieving) or for R50W-20N, (non-relieving)

50 Series High Flow Lubricator

Lubricator Repair Kits	
includes needle adjustment ass'y, o'ring, adjustment cap	
Kit #	Description
RKL50	50 Series, lubricator repair kit

Bowl Replacement Kits	
includes bowl, o'ring, locking ring	
Kit #	Description
BKL50A	50 Series, 02,03,04 Series bowl
BKL50B	50 Series, 06,08,10,12 Series bowl

Sight Glass Repair Kit	
includes tube and 2 o-rings	
Kit #	Description
SKFL50	50 Series, sight glass repair kit

Replacement Adjustment Knob Kits	
includes adjustment knob only	
Kit #	Description
LP50	50 Series, adjustment knob



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