

FILTER REGULATOR MODEL 11-4SN BROCHURE



Filter Regulator Model 11-4SN



11-4SN Aluminium



11-4SN SS316(cast)



11-4 11-4SN
(Direct wall mounting)

FEATURES

- Filter / Regulator combination unit offers extremely precise control.
- Unique valve design and large ratio of diaphragm to valve area affords highly sensitive performance.
- Specially designed to meet instrumentation requirements.
- CE, ATEX, EAC Ex (CUTR 12), EAC(CUTR 10) approved.
- SIL3 capable as per IEC 61508.
- All External parts are NACE MR 0175* approved.(Only applicable for Stainless Steel 114SN.)

(*National Association of Corrosion Engineers MR-0175 defines requirements for sulphide stress cracking resistant materials used in oilwells and corrosive environment.)

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PARAMETERS	SPECIFICATIONS
Fluid	Compressed Air
Pipe size	1/4"
Pipe Thread	BSPT - Standard NPT, BSP - Optional
Max. Inlet Pressure	17.5 bar (250 psi) - Aluminium 30 bar (435 psi) - Stainless Steel
Max. Operating Temp.(Ambient)	+80° C
Filter Element Size	25 micron - Standard 5, 40 micron - Optional
Filter Element Material	Sintered Bronze -Standard Stainless Steel-Optional
Material of Construction Body, Bonnet, Bowl Internal parts	Aluminium Alloy die-cast Aluminium,SS304, SS316L, Acetal resin, Nylon, Brass SS 316L
External parts	
Material of Construction(SS316 cast) Body, Bonnet, Bowl Internal parts External parts	Stainless Steel as per AISI 316L SS316L with NACE compliance (MR0175) SS316L / SS304 SS 316L with NACE compliance (MR0175)
Diaphragm Assembly	Synthetic Rubber without PTFE - Standard
Elastomers	Low Temp.Nitrile (LNBR)-SS ver. -60°C to +80°C Low Temp.Nitrile (LNBR)-AL ver. -40°C to +80°C EPDM -35°C to+120°C Fluorocarbon (Viton-FKM) -20°C to +180°C
Bowl Capacity	50 ml.
Regulated secondary pressure 1.0 ranges	0.07 to 0.70 bar (1-10 psi) - Optional 0.21 to 2.10 bar (3-30 psi) - Optional 0.35 to 3.50 bar (5-50 psi) - Optional 0.50 to 5.0 bar (7-70 psi) - Optional 0.70 to 7.0 bar (10-100 psi) - Standard
Standard Nominal Flow Rate at 10 bar (150psi)inlet pressure 6 bar (87 psi) set pr. and a drop of 1 bar(14.5 psi) from set	1/4" - 55 scfm (26 dm3/sec)
CV Value	1/4" - (1.04)
Drain	Manual - Standard
Regulator Type	Relieving - Standard Non-Relieving - Optional
Pressure Adjustment	Hex Head Adjusting screw - Standard
Gauge Port (2 nos.)	1/4" BSPT (Fe) - Standard 1/4" NPT (Fe) - Optional
Gauge size (dial size)	50 mm (Nominal) - Std.
Mounting	Mounting bracket - Standard (for Aluminium) P.M. Nut - Standard (for S.S.units)
Weight	0.70 Kgs.- (Aluminium) 1.75 kgs (S.S)

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11-4SN (G 1/4)

Size	Flow (scfm)	Element (um)	Drain	Bowl	Operation	Model
G 1/4	55 scfm	5	Manual	Metal	10-100	11-4SN-200M-M4KA-ENAH

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Option Selector

Sample Model Number → **1 1 - 4 S N - 2 0 0 M - M 4 K A - E N - X X X - X X X**

Position → **1 2 - 3 4 5 - 6 7 8 9 - 10 11 12 13 - 14 15 - 16 17 18 - 19 20 21**

1 2 3 4 5

Instrument Filter / Regulator

6 Pipe Size

2 = 1/4"

7 8 Options

	Relieving Hex Headed Slotted Screw	Non-Relieving Hex Headed Slotted Screw
	No Gauge	No Gauge
	50	60
With Gauge (SS)	52	62

(Pressure gauge will be ATEX approved)

9 Body, Bowl, Bonnet

M = Aluminium Metallic (Body, Bowl, Bonnet)
S = SS316 (Body, Bowl, Bonnet)

10 Drain

M = Manual Drain

11 Filter Element

Plastic	Sintered Bronze	S.S.
1 = 5 Micron	6 = 5 Micron	5 = 5 Micron
2 = 25 Micron	7 = 25 Micron	9 = 25 Micron
3 = 40 Micron	8 = 40 Micron	4 = 40 Micron

12 Secondary Pressure Range

A = 0.07 - 0.7 bar (1-10 psi)
C = 0.21 - 2.1 bar (3-30 psi)
E = 0.35 - 3.5 bar (5-50 psi)
F = 0.50 - 5.0 bar (7-70 psi)
K = 0.70 - 7.0 bar (10-100 psi)

13 Port Thread

	Main Ports	Gauge Ports
A	NPT	BSPT
B	BSPT	BSPT
G	BSP	BSPT
N	NPT	NPT

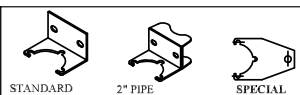
14 Elastomer Material

[E] = EPDM
[V] = Viton
L = Low Temp. Nitrile(LNBR)

15 Mounting

N = No Mounting Bracket
B = Standard Mounting Bracket
P = 2" Pipe Mounting Bracket
E = Direct mounting version without bracket

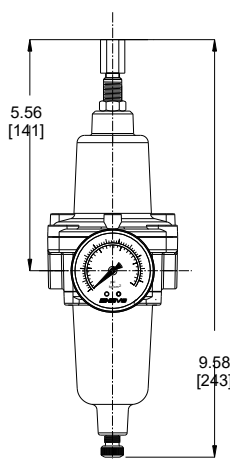
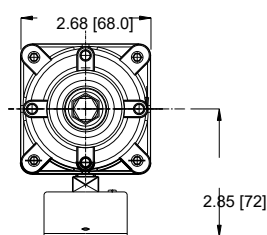
Bracket for ATEX units will be SS316



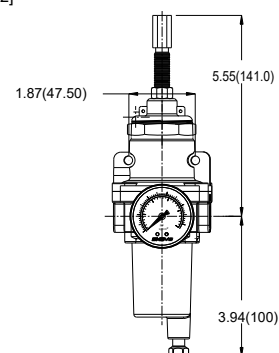
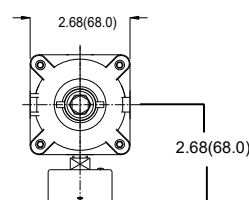
(brackets used for Aluminium unit)



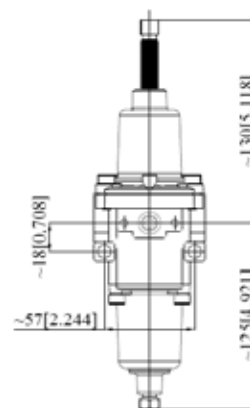
(brackets for SS unit)



(Aluminium)



SS316L(casted)



Filter Regulator Model 11-4SN

16 17 18 Test / Approval

A	0	0	ATEX
A	0	1	UKEX
A	0	2	UKCA
A	0	3	ATEX, UKEX, EAC Ex, UKCA
A	0	4	ATEX, UKEX, EAC Ex
A	0	5	ATEX, UKEX, UKCA
A	0	6	ATEX, UKEX, EAC Ex
B	0	0	ATEX, CE
B	0	1	ATEX, CE, UKEX, EAC Ex, UKCA
B	0	2	ATEX, CE, UKEX, EAC Ex
B	0	3	ATEX, CE, UKEX, UKCA
B	0	4	ATEX, CE, UKCA, EAC Ex
B	0	5	ATEX, CE, EAC Ex
C	0	0	CE
C	0	1	CE, UKEX, EAC Ex, UKCA
C	0	2	CE, UKEX, EAC Ex
C	0	3	CE, UKEX, UKCA
C	0	4	CE, EAC Ex, UKCA
C	0	5	CE, EAC Ex
D	0	0	ATEX, EAC
D	0	1	ATEX, EAC, UKEX, EAC Ex, UKCA
D	0	2	ATEX, EAC, UKEX, EAC Ex
D	0	3	ATEX, EAC, UKEX, UKCA
D	0	4	ATEX, EAC, EAC Ex, UKCA
E	0	0	EAC
E	0	1	EAC, UKEX, EAC Ex, UKCA
E	0	2	EAC, UKEX, EAC Ex
E	0	3	EAC, UKEX, UKCA
E	0	4	EAC, EAC Ex, UKCA
F	0	0	ATEX, SIL3
F	0	1	ATEX, SIL3, UKEX, EAC Ex, UKCA
F	0	2	ATEX, SIL3, UKEX, EAC Ex
F	0	3	ATEX, SIL3, UKEX, UKCA
F	0	4	ATEX, SIL3, EAC Ex, UKCA
F	0	5	ATEX, SIL3, EAC Ex
G	0	0	CE, EAC
G	0	1	CE, EAC, UKEX, EAC Ex, UKCA
G	0	2	CE, EAC, UKEX, EAC Ex
G	0	3	CE, EAC, UKEX, UKCA
G	0	4	CE, EAC, EAC Ex, UKCA
H	0	0	CE, SIL3
H	0	1	CE, SIL3, UKEX, EAC Ex, UKCA
H	0	2	CE, SIL3, UKEX, EAC Ex
H	0	3	CE, SIL3, UKEX, UKCA
H	0	4	CE, SIL3, EAC Ex, UKCA
H	0	5	CE, SIL3, EAC Ex
J	0	0	EAC, SIL3
J	0	1	EAC, SIL3, UKEX, EAC Ex, UKCA
J	0	2	EAC, SIL3, UKEX, EAC Ex
J	0	3	EAC, SIL3, UKEX, UKCA
J	0	4	EAC, SIL3, EAC Ex, UKCA
K	0	0	CE, EAC, SIL3

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K	0	1	CE, EAC, SIL3, UKEX, EAC Ex, UKCA
K	0	2	CE, EAC, SIL3, UKEX, UKCA
K	0	3	CE, EAC, SIL3, UKEX, EAC Ex
K	0	4	CE, EAC, SIL3, EAC Ex, UKCA
L	0	0	ATEX, EAC, SIL3
L	0	1	ATEX, EAC, SIL3, UKEX, EAC Ex, UKCA
L	0	2	ATEX, EAC, SIL3, UKEX, EAC Ex
L	0	3	ATEX, EAC, SIL3, UKEX, UKCA
L	0	4	ATEX, EAC, SIL3, EAC Ex, UKCA
M	0	0	ATEX, CE, SIL3
M	0	1	ATEX, CE, SIL3, UKEX, EAC Ex, UKCA
M	0	2	ATEX, CE, SIL3, UKEX, EAC Ex
M	0	3	ATEX, CE, SIL3, UKEX, UKCA
M	0	4	ATEX, CE, SIL3, EAC Ex, UKCA
N	0	0	ATEX, CE, EAC
N	0	1	ATEX, CE, EAC, UKEX, EAC Ex, UKCA
N	0	2	ATEX, CE, EAC, UKEX, EAC Ex
N	0	3	ATEX, CE, EAC, UKEX, UKCA
N	0	4	ATEX, CE, EAC, EAC Ex, UKCA
[O]	[0]	[0]	Other customer special requirement if Any
P	0	0	ATEX, CE, EAC, SIL3
P	0	1	ATEX, CE, EAC, SIL3, UKEX, EAC Ex, UKCA
P	0	2	ATEX, CE, EAC, SIL3, UKEX, EAC Ex
P	0	3	ATEX, CE, EAC, SIL3, UKEX, UKCA
P	0	4	ATEX, CE, EAC, SIL3, EAC Ex, UKCA
Q	0	0	ATEX, EAC Ex
R	0	0	EAC Ex
R	0	1	EAC Ex, UKEX, UKCA
R	0	2	EAC Ex, UKCA
S	0	0	SIL3
S	0	1	SIL3, UKEX, EAC Ex, UKCA
S	0	2	SIL3, UKEX, EAC Ex
S	0	3	SIL3, UKEX, UKCA
S	0	4	SIL3, EAC Ex, UKCA
V	0	0	ATEX, CE, SIL3, EAC Ex
V	0	1	ATEX, CE, SIL3, EAC Ex, UKEX, UKCA
V	0	2	ATEX, CE, SIL3, EAC Ex, UKEX
V	0	3	ATEX, CE, SIL3, EAC Ex, UKCA
X	X	X	STANDARD UNITS WITHOUT ANY CERTIFICATE / APPROVAL
Y	0	0	ATEX, SIL3, EACEx
y	0	1	ATEX, SIL3, EACEx, UKEX, UKCA
Y	0	2	ATEX, SIL3, EAC Ex, UKEX
Y	0	3	ATEX, SIL3, EACEx, UKCA
Z	0	1	CE, SIL3, EAC Ex, UKEX, UKCA
Z	0	2	CE, SIL3, EAC Ex, UKEX
Z	0	3	CE, SIL3, EAC Ex, UKCA

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19 20 21 Compliance

X	X	X	Standard Unit Without any Complinance
A	0	1	RoHS 3 Compliance
A	0	2	REACH Compliance
A	0	3	Copper Free (Only Applicable Aluminium Version)
A	0	4	RoHS3, REACH Compliance
A	0	5	RoHS3, REACH, Copper Free (Only Applicable for Aluminium Version)
A	0	6	RoHS3, Copper Free (Only Applicable for Aluminium Version)
A	0	7	REACH, Copper Free (Only Applicable for Aluminium Version)

Note : Option shown in the [] bracket are special, Please contact Sales HQ/Manufacturing.



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