

Filters, Regulators, and Combination Units are designed to regulate pressure and/or clean instrument air of particulate and moisture prior to the air reaching pneumatic equipment.

- Regulators maintain optimum system operating parameters
- Filters clean the air for extended pneumatic system component life and reduced operational downtime
- Size range of 1/8" to 1"



Filters

Series	Pipe Size (ins.)	Bowl Capacity (oz.)		Max. Flow @ 90 psi and 1 psi Drop (SCFM)	Max. Inlet Pressure (psi) @125°F	Filter Capacity (microns)	Min. Ambient Temp. °F	Max. Ambient Temp. °F	Bowl Material	Semi Automatic Drain With Bowl Protection	Approx. Shipping Weight (lbs.)
		Total	Useful							Catalog Number and Order Code	
Filter - 25 Micron with Bowl Protection											
105	1/8	0.90	0.32	31.4	150 ①	25	32	125	PC	342 25 215	1.0
107	1/8	1.61	0.39	36.4	150 ②	25	32	125	PC	342 04 013	
105	1/4	0.90	0.32	37.1	150 ①	25	32	125	PC	342 25 216	
107	1/4	1.61	0.39	51.2	150 ②	25	32	125	PC	342 04 014	
112	1/4	3.65	1.28	63.5	150 ②	25	32	125	PC	342 03 004	2.0
112	3/8	3.65	1.28	84.7	150 ②	25	32	125	PC	342 03 005	
112	1/2	3.65	1.28	84.7	150 ②	25	32	125	PC	342 03 006	
150	3/4	17.6	5.90	441.3	175 ②	30	32	125	Metal	342 06 103	4.0
150	1	17.6	5.90	476.6	175 ②	30	32	125	Metal	342 06 104	

① 175 psi @ 75°F Max. Ambient & Fluid Temperature. ② 230 psi @ 75°F Max. Ambient & Fluid Temperature.

Regulators

Series	Pipe Size (ins.)	Max. Flow @ 90 psi (CFM)	Max. Inlet Pressure (psi)	Pressure Control Range (psi)	Min. Ambient Temp. °F	Max. Ambient Temp. °F	Catalog Number and Order Code	Approx. Shipping Weight (lbs.)
Regulator - Self-Relieving Air Service								
105	1/8	19.4	175	7 - 120	32	125	342 25 019	1.0
107	1/8	24.7	230	7 - 145	15	140	342 04 035	
105	1/4	22.9	175	7 - 120	32	125	342 25 020	
107	1/4	45.9	230	7 - 145	15	140	342 04 036	
112	1/4	63.5	230	7 - 145	15	140	342 03 055	2.0
112	3/8	105.9	230	7 - 145	15	140	342 03 056	
112	1/2	105.9	230	7 - 145	15	140	342 03 057	
150	3/4	388.3	230	7 - 175	32	140	342 06 111	5.0
150	1	458.9	230	7 - 175	32	140	342 06 112	

Filter/Regulators

Series	Pipe Size (ins.)	Bowl Capacity (oz.)		Max. Flow @ 90 psi (CFM)	Max. Inlet Pressure (psi) @ 125°F	Pressure Control Range (psi)	Filter Capacity	Bowl Material	Min. Ambient Temp. °F	Max. Ambient Temp. °F	Semi Automatic Drain	Automatic Drain	Approx. Shipping Weight (lbs.)
		Total	Useful								Catalog Number and Order Code	Catalog Number and Order Code	
Filter/Regulator Combined - 25 Micron Filtration with Bowl Protector													
105	1/8	0.90	0.32	19.4	150 ②	7 - 120	25	PC	32	125	342 25 211 ③	-	1.0
107	1/8	1.61	0.39	24.7	150 ①	7 - 145	25	PC	32	125	342 04 178 ③	-	
105	1/4	0.90	0.32	22.9	150 ②	7 - 120	25	PC	32	125	342 25 212 ③	-	
107	1/4	1.61	0.39	45.9	150 ①	7 - 145	25	PC	32	125	342 04 179 ③	-	
112	1/4	3.65	1.28	63.5	150 ①	7 - 145	25	PC	32	125	-	342 03 138 ③	3.0
112	3/8	3.65	1.28	105.9	150 ①	7 - 145	25	PC	32	125	-	342 03 139 ③	
112	1/2	3.65	1.28	105.9	150 ①	7 - 145	25	PC	32	125	-	342 03 140 ③	
150	3/4	17.6	5.90	388.3	175 ①	7 - 175	30	Metal	32	125	-	342 06 097 ③	6.0
150	1	17.6	5.90	458.9	175 ①	7 - 175	30	Metal	32	125	-	342 06 098 ③	

① 230 psi @ 75°F Max. Ambient & Fluid Temperature. ② 175 psi @ 75°F Max. Ambient & Fluid Temperature. ③ Supplied with pressure gauge.



Accessories are flow control device accessories designed to optimize your flow control process.

- Flow Control devices – Limit volume of media flow
- Pipe Line Strainers – Prevent contaminant from flowing downstream
- Quick Exhaust/Shuttle Valves – High flow interim valve for faster air flow
- Check Valves – Prevent reverse direction media flow
- DIN Connectors – Used with ASCO DIN solenoids to reduce installation and maintenance time
- Electronic Timer – Electric signal control based on adjustable timing inputs
- Muffler – Exhaust noise suppression device and debris prevention

Adjustable Flow Control

Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor		Opening Pressure (psi)	Maximum Operating Pressure Differential (psi) Air-Inert Gas, Water, and Light Oil	Max. Fluid Temp. °F	Catalog Number	Order Code
		Meter Flow	Free Flow					
Forged Brass Body								
1/4	3/8	.22	1.2	1	300	180	V022A001	00038
3/8	3/8	.90	1.4	1	300	180	V022 002	00035
1/2	7/16	1.2	2.6	1	300	180	V022 003	00036



Pipe Line Strainer

Pipe Size (ins.)	Cv Flow Factor	Screen Mesh Size	Total Free Hole Area (in. ²)	Particle Retention Size		Blow-Off Pipe Size (ins.)	Maximum Fluid Temp. °F	Safe Working Pressure (psi)	Catalog Number	Order Code
				Microns	Inches					
CA Body with Stainless Steel Strainer Element and NBR Seals										
①	.50	80x80	.116	178	.007	-	130	175	PKG8604 002	02160
Forged Brass Body with Stainless Steel Strainer Element and PTFE or FKM Seals ②										
1/4	1.7	60x60	.325	155	.0061	-	400	750	8600A002	02141
3/8	1.9	100x100	.35	140	.0055	-	400	750	8600A013	02142
1/2	2.6	100x100	.50	140	.0055	-	400	750	8600A014	02143
3/4	4.7	100x100	.75	140	.0055	-	400	750	8600A015	02144

① 1/4" OD compression fittings not supplied.



Quick Exhaust/Shuttle Valves

Pipe Size (ins.)	Cv Flow Factor		Opening Pressure (psi)	Maximum Operating Pressure Differential (psi)	Max. Air Temp. °F	Catalog Number	Body Material	Order Code
	Pressure to Cylinder	Cylinder to Exhaust						
1/4	0.8	1.0	5	125	125	V043 006	ZN	00044
1/4	2.0	2.0	5	125	125	V043 001	ZN	00039
3/8	3.5	4.5	5	125	125	V043 002	ZN	00040



Check Valves

Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor	Opening Pressure (psi)	Maximum Operating Pressure Differential (psi) Air-Inert Gas, Water, and Light Oil	Max. Fluid Temp. °F	Catalog Number	Order Code
1/4	9/32	.70	1	150	200	V012 001	00028
3/8	3/8	1.2	1	150	200	V012 002	00029
3/4	1/2	3.6	1	150	200	V012 004	00031



Din Connectors

Description	Orientation	Rotatable	Order Code
Size 11 mm, Form B			
1/2" conduit	Ground Down	180°	88122403
PG 9 cable gland ②	Ground Down	180°	88122404
PG 9 cable gland with LED/VDR 120/AC-DC	Ground Down	180°	88122407
Size 18 mm, Form A			
PG 11 cable gland	Ground Down	90°	88122602
PG 11 cable gland with LED/VDR 120/AC-DC	Ground Down	90°	88122605
6' leads with North American outlet plug	Ground Up	-	272852
PG 11 cable gland for ASCO Timer Drain Valve	Ground Up	90°	272873

② Available in 10 pack as order code 226061-001-*



Electronic Timer

Supply Voltage	Max. Current Consumption	Max. Ambient Temp. °F	Switch Capacity	Inrush Current Capacity	Repeat Accuracy	Scale Accuracy	Adjustable On Time	Adjustable Off Time	Catalog Number and Order Code
24-240V AC/DC 50/60 Hz	4 mA	122	1 Amp	10 Amps for 10 mSec	+/- 0.1%	+/- 10%	2 - 40 Sec	30 Sec to 45 Min	272839-001



Muffler

Pipe Size (ins.)	Body material	Catalog Number and Order Code
1/8	BR	264645-001
1/4	BR	264645-002
3/4	BR	264645-006



Prefix/Suffix Definitions

Prefix	
D	Shielded Core Design
EF	Explosionproof Enclosure
EV	Explosionproof Enclosure in Stainless Steel
HB	High Temperature Leaded Coil, Class H
HC	Battery Charging Circuits (125 or 250 DC), Class H
HT	High Temperature Leaded Coil, Class H
IS	Intrinsically Safe
J	Wiring Box
JB	Wiring Box with Leads
KF	Screw Terminals, Class F
OF	Open Frame Enclosure
P	Panel Mount
SC	DIN Enclosure (ISO 4400/DIN 43650), Class F (Class H High Temperature for 2, 11, 11.9, 17, and 22.9 watts)
SD	DIN Enclosure (ISO 4400/DIN 43650), Class F
SF	Spade Coil, Class F
SM	Spade Coil, Class B
SP	Spade Enclosure, Class F
SU	DIN Enclosure (ISO 4400/DIN 43650), High Temperature, Class H
U	Open Frame Enclosure
WB	Thermoplastic Encapsulated Watertight Junction Box
WT	Watertight Enclosure
X	Special Construction, varies with TPL number

Suffix	
B	LP Gas Service
C	Position Indication Switch
E	Ethylene Propylene (EPDM)
F	Valve Operation Type (Normally Closed)
HW	Hot Water Construction
L	Metal Seat
LT	Low Temperature Construction
M	Metered Flow Control
MO	Manual Operator, Momentary
MS	Manual Operator, Screw Type
N	Oxygen Service
P	Dry Gas, Non-Lubricated Air
Q	Long Life, Quiet Design
R	Resilient Seating
T	Polytetrafluorethylene (PTFE)
U	Valve Operation Type (Universal)
V	Fluorocarbon (FKM)
VH	Vacuum (High) Construction
VI	Visual Indicator
VM	Vacuum Service (Medium)

Coil Specificati

Maximum Ambient Temperature Range for NBR Valve					
Wattage ③	UL Approved Class F Temp. °F	Design Limit Class F Temp. °F	UL Approved Class H Temp. °F	Design Limit Class H Temp. °F	UL Approved and Design Limit Type 7 & 9 Temp. °F ②
0.5	-	-	-	158	-
0.65	-	-	-	77	-
1.6	122	122	-	-	-
2.0	-	-	-	158	-
2.5	140	140	-	-	-
3.0	125	125	-	-	-
5.9	125	125	-	-	-
6.0	-	-	125	125	-
6.1	125	245	140	284	140
6.3	135	135	-	-	104
6.5	104	104	-	-	-
6.9	77	77	-	-	104
9.1	125	173	-	-	-
10.0	140	140	-	-	-
10.1	125	245	140	284	140
11.2	140	140	-	-	-
10.6	125	125	-	-	104
11.6	104	104	-	-	104
12.0	131	131	-	-	104
12.1	-	125	-	-	-
13.8	-	125	-	140	-
14.9	77	77	104	104	-
15.4	77	171	104	213	104
16.1	-	-	140	284	140
16.7	104	104	104	104	104
17.1	-	245	-	212	140
20.0	77	125	-	-	104
20.1	-	173	-	212	140
22.6	104	104	-	-	-
24.6	-	-	104	104	104
28.0	-	-	-	-	104
28.2	125	125	-	-	-
30.6	-	-	77	-	104

① Temperature ratings based on fluids at standard temperature.
 ② 104°F for Zone G.
 ③ For information on 0.44 and 1.4 watt valves please see Catalog 33A.

Abbreviation	Description
AL	Aluminum
BR	Brass
BZ	Bronze
CA	Acetal, Celcon, Delrin
EPDM	Ethylene Propylene
FKM	Fluorocarbon Elastomer
GP	General Purpose (Enclosure Type)
LED	Light Emitting Diode
NBR	Nitrile Butylene
NC	Normally Closed (Operation Type)
NO	Normally Open (Operation Type)
NPBR	Nickel Plated Brass
OF	Open Frame (Enclosure Type)
PA	Poly Amide
PA+FV	Glass Filled Poly Amide
PBT	Polybutylene Terephthalate
PC	Polycarbonate
PE	Polyethylene
PEEK	Polyetheretherketone
PL	Plastic
PTFE	Polytetrafluoroethylene
POM	Poly Oxymethylene
SPDT	Single Pole Double Throw (Mechanical Switch Type)
SS	Stainless Steel
U	Universal (Operation Type)
UNF	Unified National Fine (Thread type)
UR	Urethane
VDR	Varistor for Surge Suppression
WT	Watertight (Enclosure Type)
ZN	Zinc
○	UL Safety Shutoff
●	UL General Service
□	UL Recognized Solenoid

General Information on Elastomer Materials Frequently Used

NBR (Buna "N", Nitrile)

NBR is commonly referred to as a nitrile rubber and is the standard synthetic elastomer for accomplishing resilient-type seating or sealing in ASCO valves. It has excellent compatibility for most air, water, and light oil applications. It has a useful temperature range of 0°F to 180°F (-18°C to 82°C).

EPDM (Ethylene Propylene)

EPDM is selected for applications above the NBR temperature range, such as handling hot water and steam. Ethylene propylene has an extremely wide range of fluid compatibility, but has the distinct disadvantage that it cannot be used with petroleum-based fluids or contaminated fluids (such as lubricated air). It has a useful temperature range of -10°F to 300°F (-23°C to 149°C).

FKM (Viton*/Fluorel**, etc.)

FKM is a fluorocarbon elastomer primarily developed for handling such hydrocarbons as jet fuels, gasolines, solvents, etc., which normally cause detrimental swelling to NBR. FKM has a high temperature range similar to EPDM, but with the advantage of being somewhat more resistant to "dry heat." FKM has a wide range of chemical compatibility. It has a useful temperature range of 0°F to 350°F (-18°C to 177°C).

PTFE (Teflon*, Rulon)

PTFE, and PTFE with fillers are considered more a plastic than a resilient-type material. They are virtually unattacked by any fluid. Their temperature usage has ranged from discs for cryogenic valves to discs for steam valves. They are not easily fabricated and are known to have "cold flow" characteristics which may contribute to objectionable leakage, particularly on gases.

* DuPont Co. trademark

** 3M trademark