600

APCO ARV CLEAN WATER AIR RELEASE VALVES

BODY STYLES 50A AND 200A/200/205/206/207



Body Style 50A 0.5-1" (15-25mm)



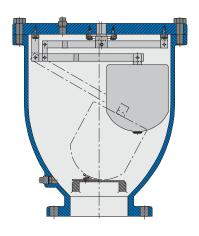
Body Style 200A 1-2" (25-50mm)



Body Style 200 2-3" (50-80mm)



Body Styles 205 & 206 High Pressure 2" (50mm)



Body Style 207 6" (150mm)

Why Use Air Release Valves?

An Air Release Valve has a small venting orifice and is used whenever air is entrained in water under pressure. These pockets of air increase the resistance of water flow. In critical installations, air can reduce the capacity of a line down to zero. More common is an increased resistance of 10-15%. The increased resistance must be overcome by the pump using more power than necessary to move the required amount of water. Such a loss can continue unnoticed for years creating excessive power consumption costs. This is a major reason why all points where air can collect should be equipped with an APCO Air Release Valve.

The Air Release Valves have much smaller orifices than Air/Vacuum Valves. Their function is to release small pockets of air which gather at the high points of a system after it is filled and under pressure. The Air Release Valve has the ability to open against internal pressure because it has a small orifice and a leverage mechanism which multiplies the force of the float. This force must be greater than the internal pressure across the orifice in order to open it when a pocket of air needs to be vented. This explains why, as the internal pressure increases, the orifice decreases in size to facilitate the valve opening.

Design & Construction

The Air Release Valve consists of a body, cover, needle, seat and stainless steel float.

The following body styles are available:

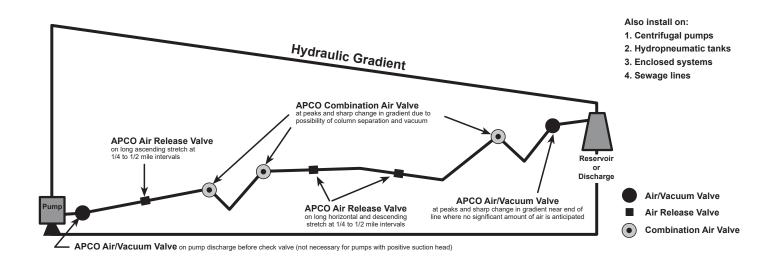
- ARV Air Release Valve Body Style 50A
 The APCO Air Release Valves in Body Style 50A, in sizes .5-1" (15-25mm), are available in ductile iron bodies with a threaded NPT inlet and outlet as standard and FM Approved.
- ARV Air Release Valve Body Styles 200A/200/205/206/207

The APCO Air Release Valves in Body Styles 200A/200/205/206/207 in sizes 1-6" (25-150mm), with ASME 125/150 or 250/300 flanged inlets and a NPT outlet or threaded inlet and outlet as standard. Threaded or flanged outlets are available for valves used inside a pump house.

Refer to APCO Air Valve Selection & Sizing Guide, Bulletin 610, for Air/Vacuum Valve sizing data and formulas.

Where to Install

Typical pipeline and position of necessary APCO air valves



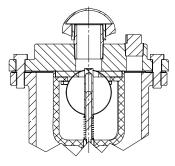
Options & Accessories

Mushroom Cap (MRC)

Mushroom Caps are available as an option on .5-3" (15-75mm) valves. They are installed in the threaded outlet for discharge protection.

Air Out - No Air In External Check (AEC)

External check valves are available as an option on .5-6" (15-150mm) valves. They are installed in the threaded outlet for inflow protection.

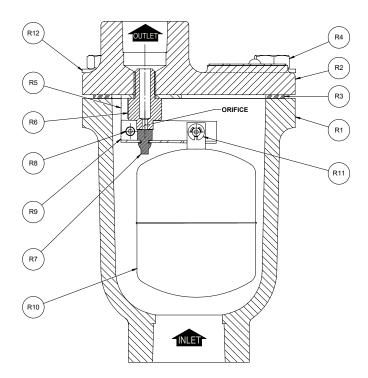


Mushroom Cap (MRC)

Materials of Construction

Body Style 50A

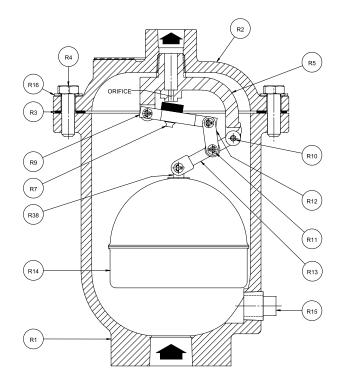
Item	Description	Material
R01	Darder	Ductile Iron, ASTM A536, Grade 65-45-12
KUI	Body	Stainless Steel, CF-8M, ASTM A351
R02	Cover	Ductile Iron, ASTM A536, Grade 65-45-12
KU2	Cover	Stainless Steel, CF-8M, ASTM A351
R03	Cover Gasket	Interface CS-301
R04	Cover Bolts	Carbon Steel, ASTM A449, Grade 5, SAE J429
K04	Cover boils	316 Stainless Steel
R05	Lever Frame	316 Stainless Steel, ASTM A276
R06	Seat	316 Stainless Steel, ASTM A276
		Acrylonitrile-Butadiene
R07	Needle	Ethylene, Propylene, & Diene Terpolymer
		Fluoro Rubber
R08	Lever Pin	316 Stainless Steel, ASTM A276
R09	Float Lever	316 Stainless Steel, ASTM A276
R10	Float	316 Stainless Steel, ASTM A276
R11	Pin Retainer	632 Stainless Steel, ASTM A564/A693
KII	KII PIII Retainei	316 Stainless Steel
R12	Washer	Carbon Steel, Zinc Plated
K IZ	vvasilei	316 Stainless Steel



Materials of Construction

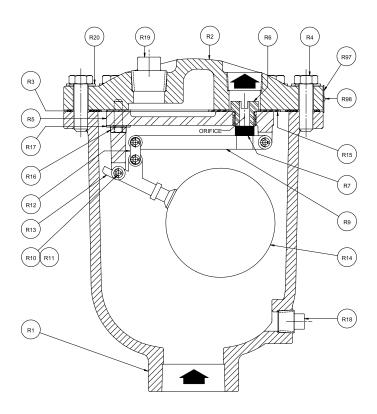
Body Style 200A

	1			
Item	Description	Material		
		Ductile Iron, ASTM A536, Grade 65-45-12		
R01	Body	Bronze, ASTM B505/B427		
		Stainless Steel, CF-8M, ASTM A351		
		Ductile Iron, ASTM A536, Grade 65-45-12		
R02	Cover	Bronze, ASTM B505/B427		
		Stainless Steel, CF-8M, ASTM A351		
R03	Cover Gasket	Interface CS-301		
		Carbon Steel, Zinc Plated		
R04	Cover Bolts	Brass		
		316 Stainless Steel		
R05	Leverage Frame	Stainless Steel, CF-8M, ASTM A743		
R06	Seat	316 Stainless Steel, ASTM A276		
		Acrylonitrile-Butadiene		
R07	Needle	Ethylene, Propylene, & Diene Terpolymer		
		Fluoro Rubber		
R09	Needle Lever	Stainless Steel, CF-8M, ASTM A743		
R10	Lever Pin	316 Stainless Steel, ASTM A240/A276		
R11	Pin Retainer	632 Stainless Steel, ASTM A564/A693		
KII	Pin Retainer	316 Stainless Steel, ASTM A276		
R12	Connecting Link	316 Stainless Steel, ASTM A276		
R13	Float Lever	Stainless Steel, CF-8M, ASTM A743		
R14	Float	316 Stainless Steel, ASTM A240/A276		
		Steel, SAE J502		
R15	Pipe Plug	Bronze, ASTM B61		
		316 Stainless Steel		
R16	Washer	Carbon Steel, Zinc Plated		
KIO	vvasilei	316 Stainless Steel		
R38	Float Spud	316 Stainless Steel, ASTM A276		



Body Style 200

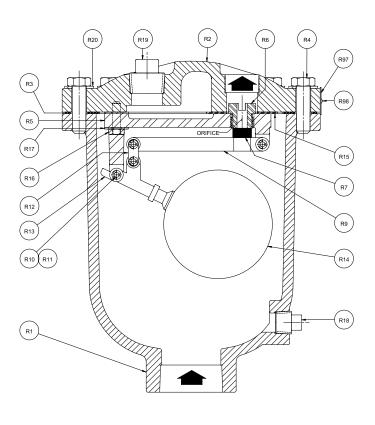
R01 Body	Item	Description	Material		
Stainless Steel, CF-8M, ASTM A351			Ductile Iron, ASTM A536, Grade 65-45-12		
R02	R01	Body	Bronze, ASTM B505/B427		
R02			Stainless Steel, CF-8M, ASTM A351		
Stainless Steel, CF-8M, ASTM A351			Ductile Iron, ASTM A536, Grade 65-45-12		
R03	R02	Cover	Bronze, ASTM B505/B427		
R04			Stainless Steel, CF-8M, ASTM A351		
R04	R03	Cover Gasket	Ductile Iron, ASTM A536, Grade 65-45-Bronze, ASTM B505/B427 Stainless Steel, CF-8M, ASTM A351 Ductile Iron, ASTM A536, Grade 65-45-Bronze, ASTM B505/B427 Stainless Steel, CF-8M, ASTM A351 Interface CS-301 Carbon Steel, ASTM A449, Grade 5 Brass 316 Stainless Steel Stainless Steel, ASTM A476 Acrylonitrile-Butadiene Ethylene, Propylene, & Diene Terpolyme, Fluoro Rubber Stainless Steel, CF-8M, ASTM A351 316 Stainless Steel, ASTM A276 632 Stainless Steel, ASTM A276 632 Stainless Steel, ASTM A276 316 Stainless Steel, ASTM A276 Stainless Steel, ASTM A240/A276 Stainless Steel Steel Alloy, SAE J502 Bronze, ASTM B61 316 Stainless Steel Iron, ASTM B61 316 Stainless Steel Carbon Steel, Zinc Plated 316 Stainless Steel Carbon Steel, Zinc Plated 316 Stainless Steel		
R05			Carbon Steel, ASTM A449, Grade 5		
R05	R04	Cover Bolts	Brass		
R06			316 Stainless Steel		
R07 Needle	R05	Leverage Frame	Stainless Steel, CF-8M, ASTM A351		
R07 Needle Ethylene, Propylene, & Diene Terpolymer Fluoro Rubber R09 Needle Lever Stainless Steel, CF-8M, ASTM A351 R10 Lever Pin 316 Stainless Steel, ASTM A276 R11 Retaining Ring 632 Stainless Steel, ASTM A276 R12 Connecting Link 316 Stainless Steel, ASTM A276 R13 Float Lever Stainless Steel, ASTM A276 R14 Float 316 Stainless Steel, ASTM A276 R15 Leverage Frame Gasket Cellulose Cork Fiber R16 Leverage Frame Gasket Cellulose Cork Fiber R17 Leverage Frame Washer 316 Stainless Steel R18 Drain Pipe Plug Steel Alloy, SAE J502 Bronze, ASTM B61 316 Stainless Steel R19 Pipe Plug Bronze, ASTM B61 R19 Pipe Plug Bronze, ASTM B61 R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	R06	Seat	316 Stainless Steel, ASTM A276		
R09		DOZ Nasada	Acrylonitrile-Butadiene		
R09 Needle Lever Stainless Steel, CF-8M, ASTM A351 R10 Lever Pin 316 Stainless Steel, ASTM A276 R11 Retaining Ring 632 Stainless Steel, ASTM A564/A693 316 Stainless Steel, ASTM A276 316 Stainless Steel, ASTM A276 R12 Connecting Link 316 Stainless Steel, ASTM A276 R13 Float Lever Stainless Steel, CF-8M, ASTM A351 R14 Float 316 Stainless Steel, ASTM A240/A276 R15 Leverage Frame Gasket Cellulose Cork Fiber R16 Leverage Frame Screw 316 Stainless Steel R17 Leverage Frame Washer 316 Stainless Steel R18 Drain Pipe Plug Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 R19 Pipe Plug Bronze, ASTM B61 316 Stainless Steel Carbon Steel, Zinc Plated R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	R07	Needle	Ethylene, Propylene, & Diene Terpolymer		
R10 Lever Pin 316 Stainless Steel, ASTM A276 R11 Retaining Ring 632 Stainless Steel, ASTM A564/A693 316 Stainless Steel, ASTM A276 316 Stainless Steel, ASTM A276 R12 Connecting Link 316 Stainless Steel, ASTM A276 R13 Float Lever Stainless Steel, CF-8M, ASTM A351 R14 Float 316 Stainless Steel, ASTM A240/A276 R15 Leverage Frame Gasket Cellulose Cork Fiber R16 Leverage Frame Screw 316 Stainless Steel R17 Leverage Frame Washer Steel Alloy, SAE J502 R18 Drain Pipe Plug Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 R19 Pipe Plug Bronze, ASTM B61 316 Stainless Steel Carbon Steel, Zinc Plated R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel			Fluoro Rubber		
R11 Retaining Ring 632 Stainless Steel, ASTM A564/A693 R12 Connecting Link 316 Stainless Steel, ASTM A276 R13 Float Lever Stainless Steel, ASTM A276 R14 Float Stainless Steel, ASTM A351 R15 Leverage Frame Gasket Cellulose Cork Fiber R16 Leverage Frame Screw 316 Stainless Steel R17 Leverage Frame Washer 316 Stainless Steel R18 Drain Pipe Plug Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 R19 Pipe Plug Bronze, ASTM B61 316 Stainless Steel Carbon Steel, Zinc Plated R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	R09	Needle Lever	Stainless Steel, CF-8M, ASTM A351		
Retaining Ring 316 Stainless Steel, ASTM A276	R10	Lever Pin	316 Stainless Steel, ASTM A276		
R12	D44	Dataining Ding	632 Stainless Steel, ASTM A564/A693		
R13 Float Lever Stainless Steel, CF-8M, ASTM A351 R14 Float 316 Stainless Steel, ASTM A240/A276 R15 Leverage Frame Gasket Cellulose Cork Fiber R16 Leverage Frame Screw 316 Stainless Steel R17 Leverage Frame Washer Steel Alloy, SAE J502 R18 Drain Pipe Plug Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 R19 Pipe Plug Bronze, ASTM B61 316 Stainless Steel 316 Stainless Steel R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	KII	Retaining Ring	316 Stainless Steel, ASTM A276		
R14 Float 316 Stainless Steel, ASTM A240/A276 R15 Leverage Frame Gasket Cellulose Cork Fiber R16 Leverage Frame Screw 316 Stainless Steel R17 Leverage Frame Washer 316 Stainless Steel Steel Alloy, SAE J502 Steel Alloy, SAE J502 Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 Bronze, ASTM B61 316 Stainless Steel 316 Stainless Steel R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	R12	Connecting Link	316 Stainless Steel, ASTM A276		
R15 Leverage Frame Gasket Cellulose Cork Fiber R16 Leverage Frame Screw 316 Stainless Steel R17 Leverage Frame Washer 316 Stainless Steel Steel Alloy, SAE J502 Steel Alloy, SAE J502 Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 Iron, ASTM B61 316 Stainless Steel 316 Stainless Steel R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	R13	Float Lever	Stainless Steel, CF-8M, ASTM A351		
R16 Leverage Frame Screw 316 Stainless Steel R17 Leverage Frame Washer 316 Stainless Steel R18 Steel Alloy, SAE J502 Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 Iron, ASTM B61 Bronze, ASTM B61 316 Stainless Steel R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	R14	Float	316 Stainless Steel, ASTM A240/A276		
R17 Leverage Frame Washer 316 Stainless Steel Steel Alloy, SAE J502 Steel Alloy, SAE J502 Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 Bronze, ASTM B61 Bronze, ASTM B61 316 Stainless Steel R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel	R15	Leverage Frame Gasket	Cellulose Cork Fiber		
Steel Alloy, SAE J502	R16	Leverage Frame Screw	316 Stainless Steel		
R18 Drain Pipe Plug Bronze, ASTM B61 316 Stainless Steel Iron, ASTM A197 R19 Pipe Plug Bronze, ASTM B61 316 Stainless Steel 316 Stainless Steel R20 Flat Washer Carbon Steel, Zinc Plated R97 Data Plate 316 Stainless Steel R97 Data Plate 316 Stainless Steel	R17	Leverage Frame Washer	316 Stainless Steel		
316 Stainless Steel			Steel Alloy, SAE J502		
Iron, ASTM A197	R18	Drain Pipe Plug	Bronze, ASTM B61		
R19 Pipe Plug Bronze, ASTM B61 316 Stainless Steel R20 Flat Washer Carbon Steel, Zinc Plated 316 Stainless Steel R97 Data Plate 316 Stainless Steel			316 Stainless Steel		
316 Stainless Steel R20			Iron, ASTM A197		
R20 Flat Washer Carbon Steel, Zinc Plated 316 Stainless Steel R97 Data Plate 316 Stainless Steel	R19	Pipe Plug	Bronze, ASTM B61		
R20 Flat Washer 316 Stainless Steel R97 Data Plate 316 Stainless Steel			316 Stainless Steel		
R97 Data Plate 316 Stainless Steel	Ban	Flot Weeher	Carbon Steel, Zinc Plated		
7.47	K20	riai washer	316 Stainless Steel		
R98 Drive Screws 18-8 Stainless Steel	R97	Data Plate	316 Stainless Steel		
	R98	Drive Screws	18-8 Stainless Steel		



Materials of Construction

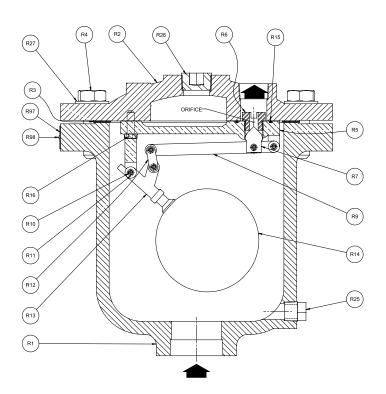
Body Style 200

Item	Description	Material				
		Ductile Iron, ASTM A536, Grade 65-45-12				
R01	Body	Bronze, ASTM B505/B427				
		Stainless Steel, CF-8M, ASTM A351				
		Ductile Iron, ASTM A536, Grade 65-45-12				
R02	Cover	Bronze, ASTM B505/B427				
		Stainless Steel, CF-8M, ASTM A351				
R03	Cover Gasket	Interface CS-301				
		Carbon Steel, ASTM A449, Grade 5				
R04	Cover Bolts	Brass				
		316 Stainless Steel				
R05	Leverage Frame	Stainless Steel, CF-8M, ASTM A351				
R06	Seat	316 Stainless Steel, ASTM A276				
		Acrylonitrile-Butadiene				
R07	Needle	Ethylene, Propylene, & Diene Terpolymer				
		Fluoro Rubber				
R09	Needle Lever	Stainless Steel, CF-8M, ASTM A351				
R10	Lever Pin	316 Stainless Steel, ASTM A276				
R11	Deteining Ding	632 Stainless Steel, ASTM A564/A693				
KII	Retaining Ring	316 Stainless Steel, ASTM A276				
R12	Connecting Link	316 Stainless Steel, ASTM A276				
R13	Float Lever	Stainless Steel, CF-8M, ASTM A351				
R14	Float	316 Stainless Steel, ASTM A240/A276				
R15	Leverage Frame Gasket	t Cellulose Cork Fiber				
R16	Leverage Frame Screw	316 Stainless Steel				
R17	Leverage Frame Washer	316 Stainless Steel				
		Steel Alloy, SAE J502				
R18	Drain Pipe Plug	Bronze, ASTM B61				
		316 Stainless Steel				
		Iron, ASTM A197				
R19	Pipe Plug	Bronze, ASTM B61				
		316 Stainless Steel				
DOO	Flat Mashan	Carbon Steel, Zinc Plated				
R20	Flat Washer	316 Stainless Steel				
R97	Data Plate	316 Stainless Steel				
R98	Drive Screws	18-8 Stainless Steel				
	·					



Body Style 205

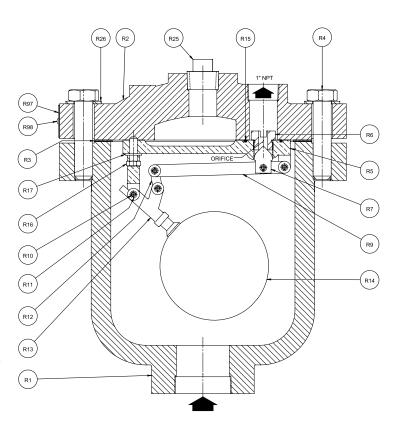
Item	Description	Material	
100111	Description	Ductile Iron, ASTM A536, Grade 65-45-12	
R01	Body	Carbon Steel, ASTM A216	
1.01	Body	Stainless Steel, CF-8M, ASTM A351	
		Ductile Iron, ASTM A536, Grade 65-45-12	
R02	Cover	Carbon Steel, ASTM A216	
1102	00101	Stainless Steel, CF-8M, ASTM A351	
R03	Cover Gasket	Fiber with elastomer binder	
		Carbon Steel, Zinc Plated	
R04	Cover Bolts	316 Stainless Steel	
R05	Leverage Frame	Stainless Steel, CF-8M, ASTM A351	
R06	Seat	316 Stainless Steel, ASTM A276	
R07	Needle	316 Stainless Steel, ASTM A276	
R09	Needle Lever	Stainless Steel, CF-8M, ASTM A351	
R10	Lever Pin	316 Stainless Steel, ASTM A276	
R11	Retaining Ring	316 Stainless Steel, ASTM A276	
R12	Connecting Link	316 Stainless Steel, ASTM A276	
R13	Float Lever	Stainless Steel, CF-8M, ASTM A351	
R14	Float	316 Stainless Steel, ASTM A240/A276	
R15	Frame Seal	Acrylonitrile-Butadiene	
R16	Bolt	316 Stainless Steel	
R17	Washer	316 Stainless Steel	
R25	Drain Dlug	Steel Alloy, SAE J502	
R25	Drain Plug	316 Stainless Steel	
R26	Dina Dlug	Steel Alloy, SAE J502	
R20	Pipe Plug	316 Stainless Steel	
D27	Washer	Carbon Steel, Zinc Plated	
R2/	R27 Washer	316 Stainless Steel	
R97	Data Plate	316 Stainless Steel	
R98	Drive Screws	18-8 Stainless Steel	



Materials of Construction

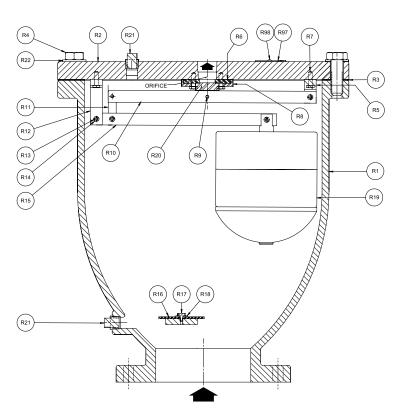
Body Style 206

Item	Description	Material		
	•	Ductile Iron, ASTM A536, Grade 65-45-12		
R01	Body	Carbon Steel, ASTM A216		
		Stainless Steel, CF-8M, ASTM A351		
		Ductile Iron, ASTM A536, Grade 65-45-12		
R02	Cover	Carbon Steel, ASTM A216		
		Stainless Steel, ASTM A743		
R03	Cover Gasket	Fiber with elastomer binder		
R04	Cover Bolts	Steel, ASTM A449, Grade 5		
K04	Cover Boils	316 Stainless Steel		
R05	Leverage Frame	Stainless Steel, CF-8M, ASTM A351		
R06	Seat	316 Stainless Steel, ASTM A276		
R07	Needle	316 Stainless Steel, ASTM A276		
R09	Needle Lever	Stainless Steel, CF-8M, ASTM A351		
R10	Lever Pin	316 Stainless Steel, ASTM A276		
R11	Retaining Ring	632 Stainless Steel, ASTM A564/A693		
KII	Retailing King	316 Stainless Steel, ASTM A276		
R12	Connecting Link	316 Stainless Steel, ASTM A276		
R13	Float Lever	Stainless Steel, CF-8M, ASTM A351		
R14	Float	316 Stainless Steel, ASTM A240/A276		
R15	Frame Seal	Acrylonitrile-Butadiene		
R16	Bolt	316 Stainless Steel		
R17	Washer	316 Stainless Steel		
R25	Pipe Plug	Steel Alloy, SAE J502		
K25	Pipe Plug	316 Stainless Steel		
R26	Washer	Carbon Steel, Zinc Plated		
N20	vvasilei	316 Stainless Steel		
R97	Data Plate	316 Stainless Steel		
R98	Drive Screws	18-8 Stainless Steel		



Body Style 207

Item	Description	Material	
R01	Body	Ductile Iron, ASTM A536, Grade 65-45-12	
R02	Cover	Ductile Iron, ASTM A536, Grade 65-45-12	
R03	Cover Gasket	Cellulose Cork Fiber	
R04	Cover Bolts	Carbon Steel, Zinc Plated	
K04	Cover Boils	316 Stainless Steel	
R05	Bracket (Short)	316 Stainless Steel, ASTM A276	
R06	Seat	Acrylonitrile-Butadiene	
R07	Screw	316 Stainless Steel	
R08	Seat Retainer	316 Stainless Steel, ASTM A276	
R09	Needle Pin	316 Stainless Steel, ASTM A276	
R10	Needle Lever	316 Stainless Steel, ASTM A276	
R11	Link	316 Stainless Steel, ASTM A276	
R12	Bracket (Long)	316 Stainless Steel, ASTM A276	
R13	Lever Pin	316 Stainless Steel, ASTM A276	
R14	Pin Retainer	632 Stainless Steel, ASTM A564/A693	
R15	Float Lever	316 Stainless Steel, ASTM A276	
R16	Bumper	Acrylonitrile-Butadiene	
R17	Bumper Screw	316 Stainless Steel	
R18	Bumper Washer	316 Stainless Steel	
R19	Float	316 Stainless Steel, ASTM A276	
R20	Needle	316 Stainless Steel, ASTM A276	
R21	Pipe Plug	Steel Alloy, SAE J502	
R22	Washer	Carbon Steel, Zinc Plated	
RZZ	vvdSHel	316 Stainless Steel	
R97	Data Plate	316 Stainless Steel	
R98	Drive Screws	18-8 Stainless Steel	



Valve Selection

Applicable Standards

APCO AVV Air/Vacuum Valves are designed and/or tested to meet the following standards:			
AWWA C-512	Air-Release, Air/Vacuum, and Combination Air Valves for Waterworks Service		
ASME B16.5	F1/ASME Class 150 & F2/ASME Class 300 style flanged valves made from carbon steel or stainless steel.		
ASME B16.42	F1/ASME Class 150 & F2/ASME Class 300 style flanged valves made from ductile iron.		

Valve Sizing

Refer to the APCO Valve Selection & Sizing Guide, Bulletin 610, for Air/Vacuum and Air Relieve Valve orifice sizing and formulas.

Refer to Bulletin 613 for details on APCO Surge Check Valves for Slow Closing.

Ordering

Orders should specify quantity and order code identification, in proper sequence, as shown.

Valve Style

Give valve style code as follows:

Air Release Valves(1)(2)

Valve Size

Give valve size code as follows:

.5	=	.5"	(15mm)	2	=	2"	(50mm)
.75	=	.75"	(20mm)	3	=	3"	(80mm)
1	=	1"	(25mm)	6	=	6"	(150mm)

Body Style

200A =

Give body style code as follows:

Series 50A (FM Approved or UL Listed with DI Body Material Only) 1" NPT Inlet, (Adaptable to 0.5 & 0.75" inlet with included bushings) 0.5" NPT Outlet
Series 200A 1 or 2" NPT Inlet 0.5" NPT Outlet

Series 200 2 or 3" NPT Inlet, 1" NPT Outlet 200 205

Series 205 2" NPT Inlet, 1" NPT Outlet Series 206 2" NPT Inlet, 1" NPT Outlet (Pressure to 1500 PSI) 206

Series 207 6" Inlet. 3/4" or 1" NPT Outlet 207

(Determined by orifice size)

End Connection

Give inlet connection code as follows:

Threaded Inlet NPT (0.5-3" all Body Styles except 207) Flanged Inlet, ASME 125/150, Nipple & Flange (1,2&3" Styles 200A, 200 & 205) F1N

Flanged Inlet, ASME 125/150 (6" Style 207) Cast Flanged Inlet, ASME 250/300, Nipple & Flange (2&3" Body Styles 200 & 205) Flanged Inlet, ASME 250/300 (6" Body Style 207) Cast F2N

Flanged Inlet, ASME 400, Nipple & Flange F4N

(2" Body Styles 205 & 206)

Flanged Inlet, ASME 600, Nipple & Flange F6N

(2" Body Styles 205 & 206)

Body Material

Give body material code as follows:

Bronze (Body Styles 200A & 200) BRZ = Ductile Iron (except Body Style 206) CS Carbon Steel (Body Styles 205 & 206) S2 316 Stainless Steel (except Body Style 207)

Notes:

8

- Maximum operating temperature is a function of the materials used in the valve. All valves are rated to a maximum temperature of at least 180° F (82° C). Contact Application Engineering if the valve is required to operate above this temperature
- 2. For Seawater and Corrosive service, contact Application Engineering.
- 3. See table for limited order code selections for style 50A.
- 4. Body Style 50A with R116 orifice size is FM Approved, with R332 UL Listed and FM Approved.
- S2 Body Material has SB16 bolting as standard. Available with 200A, 5. 200, 205, 206 & 207. Not available with 50A.

Trim Combination Orifice Size

Give orifice size code as follows:

Body Style 50A(4)

R332 3/32" 8-175 psi (Standard)

1/16" 11-300 ps R116

Body Style 200A

5/16" 3-15 psi L516 R516 5/16" 11-50 psi

R14 1/4" 11-75 psi

R316 3/16" 11-150 psi (Standard)

R532 5/32" 11-300 psi M332 3/32" 11-600 psi (DI, CS or S2 Body materials)

Body Style 200

L12 1/2" 3-15 psi R12

1/2" 11-75 psi 3/8" 51-150 psi (Standard) R38

M732 7/32" 51-300 psi

Body Style 205

1/2" 50-100 psi H12

H38 3/8" 50-150 psi H732 7/32" 50-500 psi (Standard)

H18 1/8" 50-800 psi

Body Style 206

3/32" 50-1500 psi H332

Body Style 207

1" 3-15 psi 1" 11-150 psi (Standard) R1

3/4" 11-300 psi R75

Note: Limiting factor for working pressure is lowest pressure rating of end connection or orifice size

Needle Material

Give needle material code as follows:

Body Styles 50A

NRR Acrylonitrile-Butadiene

EPDM Terpolymer of Ethylene Propylene & A Diene.

Body Material S2 only

FKM Fluoro Rubber. For use only with S2 Body Material. (On Application)

Body Styles 200A & 200

NBR Acrylonitrile-Butadiene

EPDM Terpolymer of Ethylene Propylene & A Diene

FKM Fluoro Rubber (On Application)

Body Styles 205, 206, 207 S2 = 316 Stainless Steel

Seat Material

Give seat material code as follows:

Acrylonitrile-Butadiene (Body Style 207) 316 Stainless Steel (Except Body Style 207)

Float Material

Give float material code as follows:

316 Stainless Steel

Float Lever/Leverage Frame Give material code as follows:

316 Stainless Steel S2

MRC

Give option code as follows if required:

DTR DeZURIK Standard Certified Production Hydrostatic Shell &

Seat Test Report

SB16 316 Stainless Steel Bolting(5) Special Coatings, Contact DeZURIK

Accessories

Give accessory code as follows if required:

Mushroom Cap (All Body Styles except 207)

Air Out - No In External Check

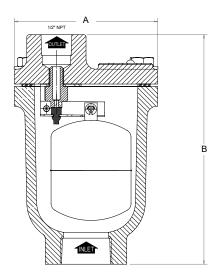
Ordering Example:

ARV,1,200A,T1,DI,R316-NBR-S2-S2-S2*MRC

Dimensions

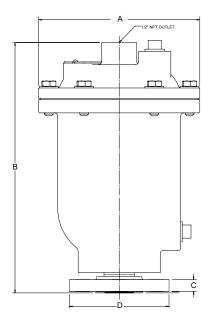
Body Style 50A

Valve Size	A	В
0.5"	<u>3.63</u> 92	<u>5.81</u>
15mm	92	148
<u>0.75"</u>	3.63 92	<u>5.81</u>
20mm	92	148
<u>1"</u>	3.63 92	<u>5.81</u> 148
25mm	92	148



Body Style 200A

Valve Size	A	В	С	D
<u>1"</u>	<u>6.88</u>	<u>10.88</u>	<u>0.5</u>	<u>4.25</u>
25mm	175	276	15	108
<u>2"</u>	6.88	<u>11.63</u>	<u>0.69</u>	6.00
50mm	175	295	18	150

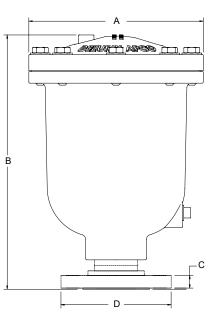


Body Style 200 F1N End Connection

Valve Size	A	В	С	D
<u>2"</u>	<u>9.50</u>	14.38	<u>0.69</u>	6.00
50mm	241	365	18	152
<u>3"</u>	<u>9.50</u>	<u>15.75</u>	<u>0.88</u>	<u>7.50</u>
80mm	241	400	22	191

F2N End Connection

Valve Size	A	В	С	D
<u>2"</u>	<u>9.50</u>	<u>14.51</u>	<u>0.81</u>	6.50
50mm	241	396	21	165
<u>3"</u>	<u>9.50</u>	<u>15.94</u>	<u>1.06</u>	<u>8.25</u>
80mm	241	405	27	210



Dimensions

Body Style 205 F1N End Connection

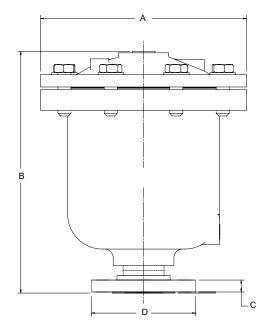
Valve Size	A	В	С	D
<u>2"</u>	<u>11.88</u>	<u>14.54</u>	<u>0.69</u>	<u>6.00</u>
50mm	302	369	18	150

F2N End Connection

Valve Size	A	В	С	D
<u>2"</u>	<u>11.88</u>	<u>14.85</u>	<u>0.81</u>	<u>6.50</u>
50mm	302	377	21	165

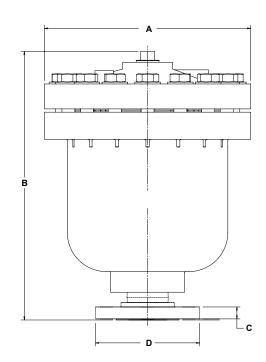
F4N & F6N End Connections

Valve Size	A	В	С	D
<u>2"</u>	11.88	<u>15.04</u>	1.00	<u>6.50</u>
50mm	302	382	25	165



Body Style 206 F4N & F6N End Connections

Valve Size	A	В	С	D
<u>2"</u>	<u>11.88</u>	<u>15.47</u>	1.00	<u>6.50</u>
50mm	302	393	25	165



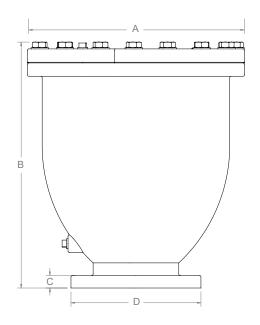
Dimensions

Body Style 207 F1 End Connection

Valve Size	A	В	С	D
<u>6"</u>	<u>18.38</u>	<u>20.81</u>	1.00	<u>11.00</u>
150mm	467	529	25	279

F2 End Connection

Valve Size	A	В	С	D
<u>6"</u>	<u>18.38</u>	<u>20.81</u>	<u>1.44</u>	<u>12.50</u>
150mm	467	529	37	318



Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

Web Site: <u>DeZURIK.com</u> E-Mail: <u>info@dezurik.com</u>



250 Riverside Ave. N. Sartell, Minnesota 56377 • Phone: 320-259-2000 • Fax: 320-259-2227