

Creating a Green World

AQua

Filtration, Fertigation
& Head control Manifolds
with Accessories



Index

Product Name	Sizes	Page No.
Screen Filters Summary		4-5
Disc Filters Summary		6-7
Y Type Screen Filters		
AQ-121Y & AQ-122Y	¾" & 1"	8
AQ-123YF & AQ-123YM	1¼" & 1½"	9
AQ-124YS & AQ-124Y	2"	10
Y Type Disc Filters		
AQ-131Y & AQ-132Y	¾" & 1"	11
AQ-133YF & AQ-133YM	1¼" & 1½"	12
AQ-134YS & AQ-134Y	2"	13
Mini T Type Filters		
AQ-123TR & AQ-124TMR	1½" & 2"	14
AQ-133TR & AQ-134TMR	1½" & 2"	15
T Type Screen Filters		
AQ-124T(HC) & AQ-124T	2"	16
AQ-124TL(HC) & AQ-124TL	2"	17
AQ-125T(HC) & AQ-125T	2½"	18
AQ-125TL(HC) & AQ-125TL	2½"	19
AQ-126T(HC) & AQ-126T	3"	20
AQ-126TL(HC) & AQ-126TL	3"	21
T Type Disc Filters		
AQ-134TS(HC) & AQ-134TS	2"	22
AQ-134T(HC) & AQ-134T	2"	23
AQ-135T(HC) & AQ-135T	2½"	24
AQ-135TL(HC) & AQ-135TL	2½"	25
AQ-136TS(HC) & AQ-136TS	3"	26
AQ-136T(HC) & AQ-136T	3"	27
Double Body Screen Filters		
AQ-126D	3"	28
AQ-128DS & AQ-128D	4"	29
Double Body Disc Filters		
AQ-136D	3"	30
AQ-138DS & AQ-138D	4"	31
Semi - Automatic Disc Filter		
AQ-134T-SAD	2"	32
AQ-136T-SAD	3"	33
Hydrocyclone Filters		
AQ-144 & AQ-145	2" & 2½"	34
AQ-146	3"	35
Venturi Injector		
AQ-112 & AQ-113	¾" & 1"	36
AQ-114 & AQ-115ES	1½" & 2"	37
AQ-115LF & AQ-115HF	2"	38
Super Suction Venturi Injector		
AQ-115DS	2"	39
Fertilizer Tank		
AQ-117	30Ltr	40
Head control Manifolds		
Head Unit With Throttle Valve	2"	41
Head Unit with Butterfly Valve	2"	41
Head Unit With Throttle Valve	3"	42
Head Unit with Butterfly Valve	3"	42
Accessories		
Union		43
Socket		43
Elbow		43
Slip-On Flanges		44
Threaded PP Elbow & Tee		44
Weight Chart		45-47

New Products Overview



2" Y-Type Disc Filter (AQ-134Y)
Refer Page No. 13



2" & 3" Semi - Automatic Disc Filter
Refer Page No. 32-33



30 Ltr Fertilizer Tank
Refer Page No. 40



Slip-On Flanges
Refer Page No. 44



2" Super Suction
Venturi Injector
Refer Page No. 39

ABBREVIATIONS USED IN THIS CATALOG

- PP – Polypropylene
- PA – Polyamide (Nylon)
- POM – Polyoxymethylene (Polyacetal)
- PVC – Polyvinyl Chloride
- EPDM – Ethylene Propylene Diene Monomer
- NBR – Nitrile Butadiene Rubber
- TPU – Thermoplastic Polyurethane
- SS – Stainless Steel

FILTERING ELEMENT



Inside to Outside
Flow (Screen)



Outside to Inside
Flow (Screen)



Outside to Inside
Flow (Disc)



E-mail: contactus@automatworld.com
Website: www.automatworld.com

Creating a Green World

Screen Filters

Screen Filters (flow : In-out)									
Model		121Y	122Y	123YF	123YM	124YS	124Y	123TR	124TMR
Max. Working Pressure (PPGF Filter)	Kg/cm ²	8	8	8	8	8	8	6	6
Max. Working Pressure (PA Filter)	Kg/cm ²	10	10	10	10	10	10	NA	NA
Recommended flow	lit/min	83	116	250	250	333	417	250	250
	m ³ /hr	5	7	15	15	20	25	15	15
Range of Flow Rate	m ³ /hr	4-6	5-8	12-16	12-16	18-22	15-27	10-20	10-20
Screen Cartridge (Standard)		Double Screen 30/120mesh							
Filtration Surface area	cm ²	120	120	295	295	295	480	295	295
Inlet/outlet connection	BSP/NPT	¾" Male Thread	1" male thread	1¼" Female Thread	1½" Male Thread	2" Male Thread		1½" Male Thread	2" Male Thread
Closing System		Threaded Cover						Plastic Union Nut	
Distance between End connections	mm	155	183	237.5	237.5	235.7	300.5	210.5	221
Max. Filter height	mm	174	174	228	228	228	294.5	353.5	364.5
Max. Filter width	mm	86	86	125.5	125.5	125.5	172	141	141
Cartridge Diameter (With O-ring)	mm	48	48	70	70	70	111	70	70
Cartridge Length	mm	152	152	224	224	224	286	224	224
Drain Valve		¾" End Cap	¾" End Cap	¾" End Cap	¾" End Cap	¾" End Cap	¾" End Cap	½" End Plug	½" End Plug

Screen Filters (flow: Out - In/plastic Clamp/ball Valve At Filter Body/vacuum Breaker at Filter Body Cap)							
Model		124T (HC)	124TL (HC)	125T (HC)	125TL (HC)	126T (HC)	126TL (HC)
Max. Working Pressure (PPGF Filter)	Kg/cm ²	6	6	6	6	6	6
Recommended flow	lit/min	417	500	500	667	667	833
	m ³ /hr	25	30	30	40	40	50
Range of Flow Rate	m ³ /hr	20-27	25-32	27-35	35-45	35-45	45-51
Screen Cartridge (Standard)		Single 120mesh SS-316, 5 Heddle Screen weaving					
Filtration Surface area	cm ²	500	764	500	764	764	1000
Inlet/outlet connection	BSP/NPT	2" male thread		2½" male thread		3" male thread	
Closing System		Reinforced Nylon Clamp					
Distance between End connections	mm	340	340	343	343	340	340
Max. Filter height	mm	550	625	555	635	650	772
Max. Filter width	mm	322	322	322	322	322	322
Cartridge Diameter (With O-ring)	mm	122	122	122	122	122	122
Cartridge Length	mm	282	377	282	377	377	502
Drain Valve		¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F

Screen Filters

SCREEN FILTERS (FLOW: IN - OUT/SS Clamp/Ball Valve at Body Cap)										
Model	124T	124TL	125T	125TL	126T	126TL	126D	128DS	128D	
Max. Working Pressure (PPGF Filter)	8	8	8	8	8	8	8	8	8	8
Max. Working Pressure (PA Filter)	10	10	10	10	10	10	10	10	10	10
Recommended flow	lit/min	500	500	667	667	833	833	1167	1500	
	m ³ /hr	25	30	30	40	40	50	70	90	
Range of Flow Rate	20-27	25-32	27-35	35-45	35-45	45-51	45-60	60-80	80-100	
Screen Cartridge (Standard)	Single 120mesh SS-316, 5 Heddle Screen weaving									
Filtration Surface area	480	817	480	817	817	1048	1048	1634	2096	
Inlet/outlet connection	2" male thread		2½" male thread		3" male thread		4" male thread			
Closing System	Stainless Steel Clamp									
Distance between End connections	340	340	343	343	340	340	363	361	361	
Max. Filter height	640	690	645	695	710	837	970	1134	1390	
Max. Filter width	252	252	252	252	252	252	257	257	257	
Cartridge Diameter (With O-ring)	122	122	122	122	122	122	122	122	122	
Cartridge Length	310	383	310	383	383	502	284 x 2	383 x 2	502 x 2	
Drain Valve	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F

Disc Filters

DISC FILTERS (FLOW : OUT -IN)										
Model	131Y	132Y	133YF	133YM	134YS	134Y	133TR	134TMR		
Max. Working Pressure (PPGF Filter)	8	8	8	8	8	8	6	6		
Max. Working Pressure (PA Filter)	10	10	10	10	10	10	NA	NA		
Recommended flow	lit/min	100	250	250	333	417	250	250		
	m ³ /hr	3	6	15	20	25	15	15		
Range of Flow Rate	3-5	5-8	12-16	12-16	18-22	18-27	10-20	10-20		
Filter Disc (standard)	120 mesh PP disc (One removable cartridge)									
Filtration Surface area	147.5	147.5	409	409	409	508	409	409		
Inlet/outlet connection	¾" Male Thread	1" Male Thread	1¼" Female Thread	1½" Male Thread	2" Male Thread	2" Male Thread	1½" Male Thread	2" Male Thread		
Closing System	Threaded Cap									
Distance between End connections	155	183	237.5	237.5	235.7	300.5	210.5	221		
Max. Filter Height	174	174	228	228	228	294.5	353.5	364.5		
Max. Filter Width	86	86	125.5	125.5	125.5	172	141	141		
Cartridge Diameter (With O-ring)	48	48	71.5	71.5	71.5	111	71.5	71.5		
Cartridge Length	180	180	258	258	258	292	258	258		
Drain Valve	¾" End Cap	¾" End Cap	¾" End Cap	¾" End Cap	¾" End Cap	¾" End Cap	½" End Plug	½" End Plug		

Disc Filters

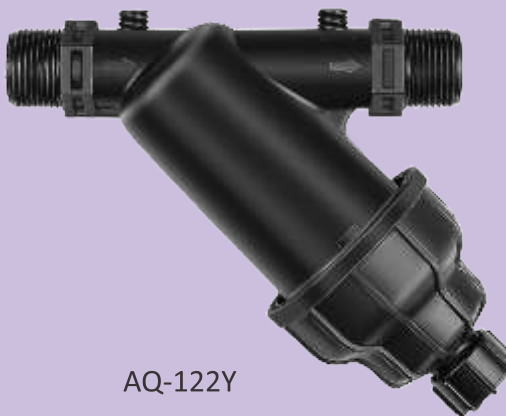
DISC FILTERS (FLOW : OUT -IN)													
Model	134TS	134T	135T	135TL	136TS	136T	136D	138DS	138D	134T-SAD	136T-SAD		
Max. Working Pressure (PPGF Filter with Plastic Clamp)	6	6	6	6	6	6	6	NA	NA	NA	NA		
Max. Working Pressure (PPGF Filter with SS Clamp)	8	8	8	8	8	8	8	8	8	8	8		
Max. Working Pressure (PA Filter with SS Clamp)	10	10	10	10	10	10	10	10	10	10	10		
Recommended flow	lit/min	417	500	667	667	833	833	1167	1500	417	667		
	m ³ /hr	25	30	40	40	50	50	70	90	25	40		
Range of Flow Rate	18-27	22-35	25-35	35-45	35-45	45-52	45-60	60-80	80-100	18-27	35-50		
Filter Disc (standard)	120 mesh PP disc (One removable cartridge)												
Filteration Surface area	878	1193	878	1193	1193	1690	1756	2386	3380	1080	1590		
Inlet/outlet connection	2" male thread	2" male thread	2½" male thread	3" male thread	3" male thread	3" male thread	4" male thread	4" male thread	2" Male Thread	2" Male Thread	3" Male Thread		
Closing System	Stainless Steel Clamp (Note: HC model available with Reinforced Nylon Plastic Clamp)												
Distance between End connections	340	340	343	340	340	340	363	361	361	341	344		
Max. Filter Height (With SS clamp)	612	690	645	695	710	837	835	995	1250	800	930		
Max. Filter Height (With Plastic Clamp)	550	625	582	635	650	772	835	NA	NA	NA	NA		
Max. Filter Width (With SS Clamp)	252	252	252	252	252	252	331	331	331	252	252		
Max. Filter Width (With Plastic Clamp)	322	322	322	322	322	322	338	NA	NA	NA	NA		
Cartridge Diameter (With O-ring)	122	122	122	122	122	122	122	122	122	122	122		
Cartridge Length	305	388	305	388	388	515	305 x 2	388 x 2	515 x 2	375	510		
Drain Valve	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	¾" M x ¾" F	1½" F x 1½" F	1½" F x 1½" F		

Y Type Screen Filters

¾" & 1"



AQ-121Y



AQ-122Y

Specifications	121Y		122Y	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	¾" NPT male thread	¾" BSP male thread	1" NPT male thread	1" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	17-26 GPM	4-6 m ³ /h	22-35 GPM	5-8 m ³ /h
Nominal Flow Rate	22 GPM	5 m ³ /h	30 GPM	7 m ³ /h
Filtration Surface area	18.6 in ²	120 cm ²	18.6 in ²	120 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Screen Material	SS-316 Grade		SS-316 Grade	
Cartridge Diameter (With O-ring)	1.89 in	48 mm	1.89 in	48 mm
Cartridge Length	5.98 in	152 mm	5.98 in	152 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -121Y					
Flow, m ³ /h	2	3	4	5	6
Pressure Loss, kg/cm ²	0.06	0.11	0.2	0.3	0.43
Flow, GPM	8.8	13.2	17.6	22	26.4
Pressure Loss, Psi	0.85	1.56	2.84	4.26	6.11

Head Loss : AQ -122Y						
Flow, m ³ /h	4	5	6	7	8	9
Pressure Loss, kg/cm ²	0.20	0.26	0.33	0.45	0.55	0.69
Flow, GPM	17.6	22	26.4	30.8	35.2	39.6
Pressure Loss, Psi	2.84	3.69	4.69	6.39	7.81	9.80

Filtering Element

80 Mesh  120 Mesh  150 Mesh 

Y Type Screen Filters

1¼" & 1½"



AQ-123YF



AQ-123YM

Specifications	123YF		123YM	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	1¼" NPT Female thread	1¼" BSP Female thread	1½" NPT male thread	1½" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	52-70 GPM	12-16 m ³ /h	52-70 GPM	12-16 m ³ /h
Nominal Flow Rate	66 GPM	15 m ³ /h	66 GPM	15 m ³ /h
Filtration Surface area	45.72 in ²	295 cm ²	45.72 in ²	295 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Screen Material	SS-316 Grade		SS-316 Grade	
Cartridge Diameter (With O-ring)	2.76 in	70 mm	2.76 in	70 mm
Cartridge Length	8.82 in	224 mm	8.82 in	224 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -123YF					
Flow, m ³ /h	9.6	12	15	16	19.2
Pressure Loss, kg/cm ²	0.06	0.10	0.12	0.15	0.20
Flow, GPM	42.0	52.8	66.0	70.0	84.5
Pressure Loss, Psi	0.85	1.42	1.7	2.13	2.84

Head Loss : AQ -123YM					
Flow, m ³ /h	9.6	12	15	16	19.2
Pressure Loss, kg/cm ²	0.11	0.15	0.2	0.22	0.28
Flow, GPM	42.0	52.8	66.0	70.4	84.5
Pressure Loss, Psi	1.56	2.13	2.84	3.12	3.89

Filtering Element

80 Mesh  120 Mesh  150 Mesh 



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Y Type Screen Filters

2"



AQ-124YS



AQ-124Y

Specifications	124YS		124Y	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP male thread	2" NPT male thread	2" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	79-97 GPM	18-22 m ³ /h	66-120 GPM	15-27 m ³ /h
Nominal Flow Rate	88 GPM	20 m ³ /h	110 GPM	25 m ³ /h
Filtration Surface area	45.72 in ²	295 cm ²	74.4 in ²	480 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Screen Material	SS-316 Grade		SS-316 Grade	
Cartridge Diameter (With O-ring)	2.76 in	70 mm	4.37 in	111 mm
Cartridge Length	8.82 in	224 mm	11.26 in	286 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -124YS					
Flow, m ³ /h	14.4	18	20	22	26.4
Pressure Loss, kg/cm ²	0.17	0.25	0.3	0.34	0.43
Flow, GPM	63.0	79.2	88.0	96.8	116.0
Pressure Loss, Psi	2.41	3.55	4.26	4.83	6.11

Head Loss : AQ -124Y						
Flow, m ³ /h	12	15	18	25	27	32.4
Pressure Loss, kg/cm ²	0.03	0.07	0.1	0.2	0.24	0.34
Flow, GPM	52.8	66.0	79.2	110.0	118.8	142.6
Pressure Loss, Psi	0.43	0.99	1.42	2.84	3.41	4.83

Filtering Element

80 Mesh  120 Mesh  150 Mesh 



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Y Type Disc Filters

¾" & 1"



AQ-131Y



AQ-132Y

Specifications	AQ-131Y		AQ-132Y	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	¾" NPT male thread	¾" BSP male thread	1" NPT male thread	1" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	13-22 GPM	3-5 m ³ /h	22-35 GPM	5-8 m ³ /h
Nominal Flow Rate	13 GPM	3 m ³ /h	26 GPM	6 m ³ /h
Filtration Surface area	22.86 in ²	147.5 cm ²	22.86 in ²	147.5 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Screen Material	Polypropylene disc	Polypropylene disc	Polypropylene disc	Polypropylene disc
Cartridge Diameter (With O-ring)	1.89 in	48 mm	1.89 in	48 mm
Cartridge Length	7.09 in	180 mm	7.09 in	180 mm
Available Mesh	120 mesh	120 mesh	120 mesh	120 mesh

Head Loss : AQ -131Y						
Flow, m ³ /h	3	4	5	6	7	8
Pressure Loss, kg/cm ²	0.15	0.31	0.48	0.68	0.95	1.20
Flow, GPM	13.2	17.6	22	26.4	30.8	35.2
Pressure Loss, Psi	2.13	4.40	6.82	9.66	13.49	17.04

Head Loss : AQ -132Y						
Flow, m ³ /h	4	5	6	7	8	9
Pressure Loss, kg/cm ²	0.24	0.30	0.40	0.53	0.63	0.79
Flow, GPM	17.6	22	26.4	30.8	35.2	39.6
Pressure Loss, Psi	3.41	4.26	5.68	7.53	8.95	11.22

Filtering Element

120 Mesh 



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Y Type Disc Filters

1¼" & 1½"



AQ-133YF



AQ-133YM

Specifications	AQ-133YF		AQ-133YM	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	1¼" NPT Female thread	1¼" BSP Female thread	1½" NPT male thread	1½" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	52-70 GPM	12-16 m ³ /h	52-70 GPM	12-16 m ³ /h
Nominal Flow Rate	65 GPM	15 m ³ /h	65 GPM	15 m ³ /h
Filtration Surface area	63.4 in ²	409 cm ²	63.4 in ²	409 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Screen Material	Polypropylene disc	Polypropylene disc	Polypropylene disc	Polypropylene disc
Cartridge Diameter (With O-ring)	2.81 in	71.5 mm	2.81 in	71.5 mm
Cartridge Length	10.2 in	258 mm	10.2 in	258 mm
Available Mesh	120 mesh	120 mesh	120 mesh	120 mesh

Head Loss : AQ -133YF							
Flow, m ³ /h	9.6	12	14.4	15	16	18	19.2
Pressure Loss, kg/cm ²	0.09	0.16	0.22	0.23	0.26	0.33	0.37
Flow, GPM	42.2	52.8	63.4	66.0	70.4	79.2	84.5
Pressure Loss, Psi	1.28	2.27	3.12	3.27	3.69	4.69	5.25

Head Loss : AQ -133YM							
Flow, m ³ /h	9.6	12	14.4	15	16	18	19.2
Pressure Loss, kg/cm ²	0.09	0.16	0.22	0.23	0.26	0.33	0.37
Flow, GPM	42.2	52.8	63.4	66.0	70.4	79.2	84.5
Pressure Loss, Psi	1.28	2.27	3.12	3.27	3.69	4.69	5.25

Filtering Element

120 Mesh 

Y Type Disc Filters

2"



AQ-134YS



AQ-134Y

Specifications	AQ-134YS		AQ-134Y	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP male thread	2" NPT male thread	2" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	79-97 GPM	18-22 m ³ /h	79-120 GPM	18-27 m ³ /h
Nominal Flow Rate	88 GPM	20 m ³ /h	110 GPM	25 m ³ /h
Filtration Surface area	63.4 in ²	409 cm ²	78.7 in ²	508 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Screen Material	Polypropylene disc	Polypropylene disc	Polypropylene disc	Polypropylene disc
Cartridge Diameter (With O-ring)	2.81 in	71.5 mm	4.37 in	111 mm
Cartridge Length	10.2 in	258 mm	11.5 in	292 mm
Available Mesh	120 mesh	120 mesh	120 mesh	120 mesh

Head Loss : AQ -134YS					
Flow, m ³ /h	14.4	18	20	22	26.4
Pressure Loss, kg/cm ²	0.23	0.33	0.46	0.47	0.65
Flow, GPM	63.4	79.2	88.0	96.8	116.2
Pressure Loss, Psi	3.27	4.69	6.53	6.67	9.23

Head Loss : AQ -134Y					
Flow, m ³ /h	14.4	18	25	27	32.4
Pressure Loss, kg/cm ²	0.11	0.14	0.28	0.32	0.45
Flow, GPM	63.4	79.2	110.0	118.8	142.6
Pressure Loss, Psi	1.56	1.99	3.98	4.54	6.39

Filtering Element

120 Mesh



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Mini T Type Screen Filters

1½" & 2"



AQ-123TR



AQ-124TMR

Specifications	AQ-123TR		AQ-124TMR	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	1½" NPT male thread	1½" BSP male thread	2" NPT male thread	2" BSP male thread
Max. Working Pressure (PPGF Filter)	85 Psi	6 kg/cm ²	85 Psi	6 kg/cm ²
Range of Flow Rate	44-88 GPM	10-20 m ³ /h	44-88 GPM	10-20 m ³ /h
Nominal Flow Rate	66 GPM	15 m ³ /h	66 GPM	15 m ³ /h
Filtration Surface area	45-72 in ²	295 cm ²	45.72 in ²	295 cm ²
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene	
Screen Material	SS-316 Grade		SS-316 Grade	
Cartridge Diameter (With O-ring)	2.76 in	70 mm	2.76 in	70 mm
Cartridge Length	8.82 in	224 mm	8.82 in	224 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

- 80 Mesh
- 120 Mesh
- 150 Mesh

Head Loss : AQ -123TR & 124TMR					
Flow, m ³ /h	8	10	15	20	24
Pressure Loss, kg/cm ²	0.03	0.06	0.2	0.42	0.6
Flow, GPM	35.2	44	66	88	105.6
Pressure Loss, Psi	0.43	0.85	2.84	5.96	8.52

Mini T Type Disc Filters

1½" & 2"



AQ-133TR



AQ-134TMR

Specifications	AQ-133TR		AQ-134TMR	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	1½" NPT male thread	1½" BSP male thread	2" NPT male thread	2" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	6 kg/cm ²	85 Psi	6 kg/cm ²
Range of Flow Rate	44-88 GPM	12-16 m ³ /h	44-88 GPM	10-20 m ³ /h
Nominal Flow Rate	66 GPM	15 m ³ /h	66 GPM	15 m ³ /h
Filtration Surface area	63.4 in ²	409 cm ²	63.4 in ²	409 cm ²
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene	
Screen Material	Polypropylene Disc	Polypropylene Disc	Polypropylene Disc	Polypropylene Disc
Cartridge Diameter (With O-ring)	2.81 in	71.5 mm	2.81 in	71.5 mm
Cartridge Length	10.2 in	258 mm	10.2 in	258 mm
Available Mesh	120 mesh	120 mesh	120 mesh	120 mesh

Filtering Element

120 Mesh 

Head Loss : AQ -133TR & AQ-134TMR					
Flow, m ³ /h	8	10	15	20	24
Pressure Loss, kg/cm ²	0.05	0.09	0.24	0.45	0.76
Flow, GPM	35.2	44	66	88	105.6
Pressure Loss, Psi	0.71	1.28	3.41	6.39	10.79

T Type Screen Filters

2"



AQ-124T(HC)

Features

- Designed for Upside down installation.
- Nylon Reinforced plastic clamp.
- Vacuum Breaker for full efficiency filtration.
- Drain port at front of filter body.
- All impurities capture outside of screen cartridge.
- Specially designed screen cartridge for outside - inside flow for easy cleaning when mesh gets dirty



AQ-124T

Features

- Designed for Upside up installation.
- Stainless Steel metal clamp.
- Standard cartridge design.
- Vacuum Breaker not required.
- Drain port at bottom of filter barrel.
- All impurities capture inside of screen cartridge.

Specifications	AQ-124T(HC)		AQ-124T	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP male thread	2" NPT male thread	2" BSP male thread
Max. Working Pressure (PPGF Filter)	85 Psi	6 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	NA	NA	145 Psi	10 kg/cm ²
Range of Flow Rate	88-120 GPM	20-27 m ³ /h	88-120 GPM	20-27 m ³ /h
Nominal Flow Rate	110 GPM	25 m ³ /h	110 GPM	25 m ³ /h
Filtration Surface area	77.5 in ²	500 cm ²	74.4 in ²	480 cm ²
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene/Polyamide	
Screen Material	Stainless Steel SS-316		Stainless Steel SS-316	
Cartridge Diameter (With O-ring)	4.8 in	122 mm	4.8 in	122 mm
Cartridge Length	11.1 in	282 mm	12.2 in	310 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -124T(HC)					
Flow, m ³ /h	16	20	25	27	32.4
Pressure Loss, kg/cm ²	0.03	0.08	0.15	0.17	0.20
Flow, GPM	70.4	88.0	110.0	118.8	142.6
Pressure Loss, Psi	0.43	1.14	2.13	2.41	2.84

Head Loss : AQ -124T					
Flow, m ³ /h	16	20	25	27	32.4
Pressure Loss, kg/cm ²	0.02	0.08	0.18	0.21	0.27
Flow, GPM	70.4	88.0	110.0	118.8	142.6
Pressure Loss, Psi	0.28	1.14	2.56	2.98	3.83

Filtering Element

80 Mesh  120 Mesh  150 Mesh 

T Type Screen Filters

2"



AQ-124TL(HC)

Features

- Designed for Upside down installation.
- Nylon Reinforced plastic clamp.
- Vacuum Breaker for full efficiency filtration.
- Drain port at front of filter body.
- All impurities capture outside of screen cartridge.
- Specially designed screen cartridge for outside - inside flow for easy cleaning when mesh gets dirty



AQ-124TL

Features

- Designed for Upside up installation.
- Stainless Steel metal clamp.
- Standard cartridge design.
- Vacuum Breaker not required.
- Drain port at bottom of filter barrel.
- All impurities capture inside of screen cartridge.

Specifications	AQ-124TL(HC)		AQ-124TL	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP male thread	2" NPT male thread	2" BSP male thread
Max. Working Pressure (PPGF Filter)	85 Psi	6 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	NA	NA	145 Psi	10 kg/cm ²
Range of Flow Rate	110-140 GPM	25-32 m ³ /h	110-140 GPM	25-32 m ³ /h
Nominal Flow Rate	132 GPM	30 m ³ /h	132 GPM	30 m ³ /h
Filtration Surface area	118.42 in ²	764 cm ²	126.63 in ²	817 cm ²
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene/ Polyamide	
Screen Material	Stainless Steel SS-316		Stainless Steel SS-316	
Cartridge Diameter (With O-ring)	4.8 in	122 mm	4.8 in	122 mm
Cartridge Length	14.8 in	377 mm	15 in	383 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -124TL-HC						
Flow, m ³ /h	20	25	30	35	40	45
Pressure Loss, kg/cm ²	0.07	0.13	0.16	0.20	0.30	0.35
Flow, GPM	88.0	110.0	132.0	154.0	176.0	198.0
Pressure Loss, Psi	0.99	1.85	2.27	2.84	4.26	4.97

Head Loss : AQ -124TL						
Flow, m ³ /h	20	25	30	35	40	45
Pressure Loss, kg/cm ²	0.10	0.15	0.20	0.26	0.35	0.42
Flow, GPM	88.0	110.0	132.0	154.0	176.0	198.0
Pressure Loss, Psi	1.42	2.13	2.84	3.69	4.97	5.96

Filtering Element

80 Mesh  120 Mesh  150 Mesh 



E-mail: contactus@automatworld.com
Website: www.automatworld.com

Creating a Green World

T Type Screen Filters

2½"



AQ-125T(HC)

Features

- Designed for Upside down installation.
- Nylon Reinforced plastic clamp.
- Vacuum Breaker for full efficiency filtration.
- Drain port at front of filter body.
- All impurities capture outside of screen cartridge.
- Specially designed screen cartridge for outside - inside flow for easy cleaning when mesh gets dirty



AQ-125T

Features

- Designed for Upside up installation.
- Stainless Steel metal clamp.
- Standard cartridge design.
- Vacuum Breaker not required.
- Drain port at bottom of filter barrel.
- All impurities capture inside of screen cartridge.

Specifications	AQ-125T(HC)		AQ-125T	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	2½" NPT male thread	2½" BSP male thread	2½" NPT male thread	2½" BSP male thread
Max. Working Pressure (PPGF Filter)	85 Psi	6 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	NA	NA	145 Psi	10 kg/cm ²
Range of Flow Rate	120-154 GPM	27-35 m ³ /h	120-154 GPM	27-35 m ³ /h
Nominal Flow Rate	132 GPM	30 m ³ /h	132 GPM	30 m ³ /h
Filtration Surface area	77.5 in ²	500 cm ²	74.4 in ²	480 cm ²
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene/ Polyamide	
Screen Material	Stainless Steel SS-316		Stainless Steel SS-316	
Cartridge Diameter (With O-ring)	4.8 in	122 mm	4.8 in	122 mm
Cartridge Length	11.1 in	282 mm	12.2 in	310 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -125T-HC					
Flow, m ³ /h	21.6	27	30	35	42
Pressure Loss, kg/cm ²	0.06	0.10	0.15	0.20	0.28
Flow, GPM	95.0	118.8	132.0	154.0	184.8
Pressure Loss, Psi	0.85	1.42	2.13	2.84	3.98

Head Loss : AQ -125T					
Flow, m ³ /h	21.6	27	30	35	42
Pressure Loss, kg/cm ²	0.08	0.14	0.18	0.24	0.33
Flow, GPM	95.0	118.8	132.0	154.0	184.0
Pressure Loss, Psi	1.14	1.99	2.56	3.41	4.69

Filtering Element

80 Mesh  120 Mesh  150 Mesh 

T Type Screen Filters

2½"



AQ-125TL(HC)

Features

- Designed for Upside down installation.
- Nylon Reinforced plastic clamp.
- Vacuum Breaker for full efficiency filtration.
- Drain port at front of filter body.
- All impurities capture outside of screen cartridge.
- Specially designed screen cartridge for outside - inside flow for easy cleaning when mesh gets dirty



AQ-125TL

Features

- Designed for Upside up installation.
- Stainless Steel metal clamp.
- Standard cartridge design.
- Vacuum Breaker not required.
- Drain port at bottom of filter barrel.
- All impurities capture inside of screen cartridge.

Specifications	AQ-125TL(HC)		AQ-125TL	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	2½" NPT male thread	2½" BSP male thread	2½" NPT male thread	2½" BSP male thread
Max. Working Pressure (PPGF Filter)	85 Psi	6 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	NA	NA	145 Psi	10 kg/cm ²
Range of Flow Rate	154-198 GPM	35-45 m ³ /h	154-198 GPM	35-45 m ³ /h
Nominal Flow Rate	176 GPM	40 m ³ /h	176 GPM	40 m ³ /h
Filtration Surface area	118.42 in ²	764 cm ²	126.63 in ²	817 cm ²
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene/ Polyamide	
Screen Material	Stainless Steel SS-316		Stainless Steel SS-316	
Cartridge Diameter (With O-ring)	4.8 in	122 mm	4.8 in	122 mm
Cartridge Length	14.8 in	377 mm	15 in	383 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -125TL(HC)					
Flow, m ³ /h	28	35	40	45	54
Pressure Loss, kg/cm ²	0.08	0.15	0.21	0.25	0.36
Flow, GPM	123.2	154.0	176.0	198.0	237.6
Pressure Loss, Psi	1.14	2.13	2.98	3.55	5.11

Head Loss : AQ -125TL					
Flow, m ³ /h	28	35	40	45	54
Pressure Loss, kg/cm ²	0.09	0.20	0.27	0.35	0.46
Flow, GPM	123.2	154.0	176.0	198.0	237.6
Pressure Loss, Psi	1.28	2.84	3.83	4.97	6.53

Filtering Element

80 Mesh  120 Mesh  150 Mesh 



E-mail: contactus@automatworld.com
Website: www.automatworld.com

Creating a Green World

T Type Screen Filters

3"



AQ-126T(HC)

Features

- Designed for Upside down installation.
- Nylon Reinforced plastic clamp.
- Vacuum Breaker for full efficiency filtration.
- Drain port at front of filter body.
- All impurities capture outside of screen cartridge.
- Specially designed screen cartridge for outside - inside flow for easy cleaning when mesh gets dirty



AQ-126T

Features

- Designed for Upside up installation.
- Stainless Steel metal clamp.
- Standard cartridge design.
- Vacuum Breaker not required.
- Drain port at bottom of filter barrel.
- All impurities capture inside of screen cartridge.

Specifications	AQ-126T (HC)		AQ-126T	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	3" NPT male thread	3" BSP male thread	3" NPT male thread	3" BSP male thread
Max. Working Pressure (PPGF Filter)	85Psi	6 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	NA	NA	145 Psi	10 kg/cm ²
Range of Flow Rate	154-198 GPM	35-45 m ³ /h	154-198 GPM	35-45 m ³ /h
Nominal Flow Rate	176 GPM	40 m ³ /h	176 GPM	40 m ³ /h
Filtration Surface area	118.42 in ²	764 cm ²	126.63 in ²	817 cm ³
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene/ Polyamide	
Screen Material	Stainless Steel SS-316		Stainless Steel SS-316	
Cartridge Diameter (With O-ring)	4.8 in	122 mm	4.8 in	122 mm
Cartridge Length	14.8 in	377 mm	15 in	383 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -126T(HC)					
Flow, m ³ /h	28	35	40	42	50.4
Pressure Loss, kg/cm ²	0.05	0.10	0.20	0.26	0.47
Flow, GPM	123.2	154.0	176.0	184.8	221.8
Pressure Loss, Psi	0.71	1.42	2.84	3.69	6.67

Head Loss : AQ -126T					
Flow, m ³ /h	28	35	40	42	50.4
Pressure Loss, kg/cm ²	0.05	0.11	0.25	0.34	0.52
Flow, GPM	123.2	154.0	176.0	184.8	221.8
Pressure Loss, Psi	0.71	1.56	3.55	4.83	7.38

Filtering Element 80 Mesh 120 Mesh 150 Mesh

T Type Screen Filters

3"



AQ-126TL(HC)

Features

- Designed for Upside down installation.
- Nylon Reinforced plastic clamp.
- Vacuum Breaker for full efficiency filtration.
- Drain port at front of filter body.
- All impurities capture outside of screen cartridge.
- Specially designed screen cartridge for outside - inside flow for easy cleaning when mesh gets dirty



AQ-126TL

Features

- Designed for Upside up installation.
- Stainless Steel metal clamp.
- Standard cartridge design.
- Vacuum Breaker not required.
- Drain port at bottom of filter barrel.
- All impurities capture inside of screen cartridge.

Specifications	AQ-126TL(HC)		AQ-126TL	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	3" NPT Female thread	3" BSP male thread	3" NPT male thread	3" BSP male thread
Max. Working Pressure (PPGF Filter)	85Psi	6 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	NA	NA	145 Psi	10 kg/cm ²
Range of Flow Rate	198-225 GPM	45-51 m ³ /h	198-225 GPM	45- 51 m ³ /h
Nominal Flow Rate	220 GPM	50 m ³ /h	220 GPM	50 m ³ /h
Filtration Surface area	155.0 in ²	1000 cm ²	162.44 in ²	1048 cm ²
Material of Construction	Glass Filled Polypropylene		Glass Filled Polypropylene/ Polyamide	
Screen Material	Stainless Steel SS-316		Stainless Steel SS-316	
Cartridge Diameter (With O-ring)	4.8 in	122 mm	4.8 in	122 mm
Cartridge Length	19.8 in	502 mm	19.8 in	502 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -126TL-HC					
Flow, m ³ /h	36	45	50	51	61.2
Pressure Loss, kg/cm ²	0.05	0.13	0.3	0.32	0.45
Flow, GPM	158.4	198.0	220.0	224.4	269.3
Pressure Loss, Psi	0.71	1.85	4.26	4.54	6.39

Head Loss : AQ -126TL					
Flow, m ³ /h	36	45	50	51	61.2
Pressure Loss, kg/cm ²	0.05	0.10	0.24	0.26	0.40
Flow, GPM	158.4	198.0	220.0	224.4	269.3
Pressure Loss, Psi	0.71	1.42	3.41	3.69	5.68

Filtering Element 80 Mesh 120 Mesh 150 Mesh



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

T Type Disc Filters

2"



AQ-134TS(HC)

Max. Operating Pressure	6 Kg/cm ²
Clamp Material	Nylon Reinforced
Vacuum Breaker	For upside down installation
Drain port location	Front of the filter Body
Flow passes through outside to inside of Disc stake.	






AQ-134TS

Max. Operating Pressure	8 Kg/cm ² / 10 Kg/cm ²
Clamp Material	Stainless Steel
Vacuum Breaker	Not fit with this design
Drain port location	Below the Filter barrel
Flow passes through outside to inside of Disc stake.	

Specifications	AQ-134TS(HC) & AQ-134TS	
	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP Male Thread
Range of Flow Rate	80-120 GPM	18-27 m ³ /h
Nominal Flow Rate	110 GPM	25 m ³ /h
Filtration Surface area	136 in ²	878 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene Disc
Cartridge Diameter (With O-ring)	4.8 in	122 mm
Cartridge Length	12 in	305 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ-134TS(HC) & AQ -134TS					
Flow, m ³ /h	15	18	25	27	32.4
Pressure Loss, kg/cm ²	0.09	0.14	0.26	0.3	0.41
Flow, GPM	66	79.2	110	118.8	142.6
Pressure Loss, Psi	1.28	1.99	3.69	4.26	5.82

T Type Disc Filters

2"



AQ-134T(HC)

Max. Operating Pressure	6 Kg/cm ²
Clamp Material	Nylon Reinforced
Vacuum Breaker	For upside down installation
Drain port location	Front of the filter Body
Flow passes through outside to inside of Disc stake.	




Max. Operating Pressure	8 Kg/cm ² / 10 Kg/cm ²
Clamp Material	Stainless Steel
Vacuum Breaker	Not fit with this design
Drain port location	Below the Filter barrel
Flow passes through outside to inside of Disc stake.	



AQ-134T

Specifications	AQ-134T(HC) & AQ-134T	
	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP Male Thread
Range of Flow Rate	97-154 GPM	22-35 m ³ /h
Nominal Flow Rate	132 GPM	30 m ³ /h
Filtration Surface area	184.9 in ²	1193 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene Disc
Cartridge Diameter (With O-ring)	4.8 in	122 mm
Cartridge Length	15.28 in	388 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ-134T(HC) & AQ -134T						
Flow, m ³ /h	17.6	22	26.4	30	35	42
Pressure Loss, kg/cm ²	0.11	0.18	0.26	0.32	0.44	0.62
Flow, GPM	77.4	96.8	116.2	132.0	154.0	184.8
Pressure Loss, Psi	1.56	2.56	3.69	4.54	6.25	8.80



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

T Type Disc Filters

2½"



AQ-135T(HC)

Max. Operating Pressure	6 Kg/cm ²
Clamp Material	Nylon Reinforced
Vacuum Breaker	For upside down installation
Drain port location	Front of the filter Body
Flow passes through outside to inside of Disc stake.	




Max. Operating Pressure	8 Kg/cm ² / 10 Kg/cm ²
Clamp Material	Stainless Steel
Vacuum Breaker	Not fit with this design
Drain port location	Below the Filter barrel
Flow passes through outside to inside of Disc stake.	



AQ-135T

Specifications	AQ-135T(HC) & AQ-135T	
	US Standard	Metric Standard
Inlet/outlet connection	2½" NPT male thread	2½" BSP Male Thread
Range of Flow Rate	110-154 GPM	25-35 m ³ /h
Nominal Flow Rate	132 GPM	30 m ³ /h
Filtration Surface area	136 in ²	878 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene Disc
Cartridge Diameter (With O-ring)	4.8 in	122 mm
Cartridge Length	12 in	305 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ-135T(HC) & AQ -135T					
Flow, m ³ /h	20	25	30	35	42
Pressure Loss, kg/cm ²	0.12	0.16	0.24	0.32	0.41
Flow, GPM	88	110	132	154	184.8
Pressure Loss, Psi	1.70	2.27	3.41	4.54	5.82

T Type Disc Filters

2½"



AQ-135TL(HC)

Max. Operating Pressure	6 Kg/cm ²
Clamp Material	Nylon Reinforced
Vacuum Breaker	For upside down installation
Drain port location	Front of the filter Body
Flow passes through outside to inside of Disc stake.	



AQ-135TL

Max. Operating Pressure	8 Kg/cm ² / 10 Kg/cm ²
Clamp Material	Stainless Steel
Vacuum Breaker	Not fit with this design
Drain port location	Below the Filter barrel
Flow passes through outside to inside of Disc stake.	

Specifications	AQ-135TL (HC) & AQ-135TL	
	US Standard	Metric Standard
Inlet/outlet connection	2½" NPT male thread	2½" BSP male thread
Range of Flow Rate	154-198 GPM	35-45 m ³ /h
Nominal Flow Rate	176 GPM	40 m ³ /h
Filtration Surface area	184.9 in ²	1193 cm ²
Material of Construction	Glass Filled Polypropylene/Polyamide	
Material of Disc	Polypropylene disc	Polypropylene Disc
Cartridge Diameter (With O-ring)	4.8 in	122 mm
Cartridge Length	15.28 in	388 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 Mesh

Filtering Element

80 Mesh



120 Mesh



150 Mesh



Head Loss : AQ-135TL (HC) & AQ -135TL					
Flow, m ³ /h	28	35	40	45	54
Pressure Loss, kg/cm ²	0.10	0.22	0.29	0.37	0.49
Flow, GPM	123.2	154	176	198	237.6
Pressure Loss, Psi	1.42	3.12	4.12	5.25	6.9



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

T Type Disc Filters

3"



AQ-136TS(HC)

Max. Operating Pressure	6 Kg/cm ²
Clamp Material	Nylon Reinforced
Vacuum Breaker	For upside down installation
Drain port location	Front of the filter Body
Flow passes through outside to inside of Disc stake.	






AQ-136TS

Max. Operating Pressure	8 Kg/cm ² / 10 Kg/cm ²
Clamp Material	Stainless Steel
Vacuum Breaker	Not fit with this design
Drain port location	Below the Filter barrel
Flow passes through outside to inside of Disc stake.	

Specifications	AQ-136TS(HC) & AQ-136TS	
	US Standard	Metric Standard
Inlet/outlet connection	3" NPT male thread	3" BSP Male Thread
Range of Flow Rate	154-198 GPM	35-45 m ³ /h
Nominal Flow Rate	176 GPM	40 m ³ /h
Filtration Surface area	184.9 in ²	1193 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene Disc
Cartridge Diameter (With O-ring)	4.8 in	122 mm
Cartridge Length	15.28 in	388 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ-136TS(HC) & AQ -136TS					
Flow, m ³ /h	28	35	40	45	52
Pressure Loss, kg/cm ²	0.13	0.21	0.28	0.37	0.5
Flow, GPM	123.2	154	176	198	228.8
Pressure Loss, Psi	1.85	2.98	3.98	5.18	7.10

T Type Disc Filters

3"



AQ-136T(HC)

Max. Operating Pressure	6 Kg/cm ²
Clamp Material	Nylon Reinforced
Vacuum Breaker	For upside down installation
Drain port location	Front of the filter Body
Flow passes through outside to inside of Disc stake.	






AQ-136T

Max. Operating Pressure	8 Kg/cm ² / 10 Kg/cm ²
Clamp Material	Stainless Steel
Vacuum Breaker	Not fit with this design
Drain port location	Below the Filter barrel
Flow passes through outside to inside of Disc stake.	

Specifications	AQ-136T(HC) & AQ-136T	
	US Standard	Metric Standard
Inlet/outlet connection	3" NPT male thread	3" BSP Male Thread
Range of Flow Rate	198 -229 GPM	45-52 m ³ /h
Nominal Flow Rate	220 GPM	50 m ³ /h
Filtration Surface area	262 in ²	1690 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene Disc
Cartridge Diameter (With O-ring)	4.8 in	122 mm
Cartridge Length	20.28 in	515 mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ-136T(HC) & AQ -136T					
Flow, m ³ /h	36	45	50	52	62.4
Pressure Loss, kg/cm ²	0.15	0.24	0.3	0.33	0.49
Flow, GPM	158.4	198	220	228.8	274.56
Pressure Loss, Psi	2.13	3.41	4.26	4.69	6.96

Double Body Screen Filters

3"






Features

- Flow passes through inside to outside of screen cartridge.
- Uniform distribution of flow into filter housing optimizes the filtration process.
- Threaded brass insert, 4 pressure ports for increasing operational life of the filter.
- Double mesh provides extra strength to avoid damage to 120 mesh screen.
- Both barrels equipped with 3/4" female threaded connection for easy drainage.
- Inside design of screen cartridge facilitates easy cleaning by brush.

Specifications	AQ-126D	
	US Standard	Metric Standard
Inlet/outlet connection	3" NPT male thread	3" BSP Male Thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²
Range of Flow Rate	198-264 GPM	45-60 m ³ /h
Nominal Flow Rate	220 GPM	50 m ³ /h
Filtration Surface area	162.44 in ²	1048 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Screen Material	Stainless Steel SS-316	Stainless Steel SS-316
Cartridge Diameter (With O-ring)	4.8 in	122 mm
Cartridge Length	11.2 in x 2	284 mm x 2
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ-126D					
Flow, m ³ /h	36	45	50	60	72
Pressure Loss, kg/cm ²	0.09	0.14	0.19	0.27	0.36
Flow, GPM	158.4	198	220	264	316.8
Pressure Loss, Psi	1.28	1.99	2.70	3.83	5.11

Double Body Screen Filters

4"



Specifications	AQ-128DS		AQ-128D	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	4" NPT male thread	4" BSP male thread	4" NPT male thread	4" BSP male thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	264-352 GPM	60 -80 m ³ /h	352 - 440 GPM	80-100 m ³ /h
Nominal Flow Rate	308 GPM	70 m ³ /h	396 GPM	90m ³ /h
Filtration Surface area	253.3 in2	1634 cm ²	324.9 in2	2096 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Screen Material	Stainless Steel SS-316	Stainless Steel SS-316	Stainless Steel SS-316	Stainless Steel SS-316
Cartridge Diameter (With O-ring)	4.8 in	122 mm	4.8 in	122 mm
Cartridge Length	15 in x2	383mm x 2	19.8 in x 2	502mm x 2
Available Mesh	80,120, 150 mesh	80,120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ-128DS					
Flow, m ³ /h	48	60	70	80	96
Pressure Loss, kg/cm ²	0.05	0.11	0.15	0.19	0.26
Flow, GPM	211.2	264	308	352	422.4
Pressure Loss, Psi	0.71	1.56	2.13	2.70	3.69

Head Loss : AQ -128D					
Flow, m ³ /h	64	80	90	100	120
Pressure Loss, kg/cm ²	0.09	0.17	0.22	0.27	0.38
Flow, GPM	281.6	352	396	440	528
Pressure Loss, Psi	1.28	2.41	3.12	3.83	5.40

Filtering Element 80 Mesh  120 Mesh  150 Mesh 



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Double Body Disc Filters

3"






Features

- Robust design.
- Disc housing fan generates hydro cyclonic effect that reduces cleaning frequency.
- Grooved disc design provides high filtration efficiency.
- Uniform distribution of flow into filter housing optimizes filtration process.
- 3/4" Drain Ball Valve & end plugs supplied along with the filter.

Specifications	AQ-136D	
	US Standard	Metric Standard
Inlet/outlet connection	3" NPT male thread	3" BSP Male Thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²
Range of Flow Rate	198-264 GPM	45-60 m ³ /h
Nominal Flow Rate	220 GPM	50 m ³ /h
Filtration Surface area	272.2 in ²	1756 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene disc
Cartridge Diameter	4.8 in	122 mm
Cartridge Length	12 in x 2	305mm x 2
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ -136D					
Flow, m ³ /h	36	45	50	60	72
Pressure Loss, kg/cm ²	0.14	0.21	0.24	0.32	0.47
Flow, GPM	158.4	198	220	264	316.8
Pressure Loss, Psi	1.99	2.98	3.41	4.54	6.67

Double Body Disc Filters




4"



Specifications	AQ-138DS		AQ-138D	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	4" NPT male thread	4" BSP Male Thread	4" NPT male thread	4" BSP Male Thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²	145 Psi	10 kg/cm ²
Range of Flow Rate	264-352 GPM	60-80 m ³ /h	352-440 GPM	80-100 m ³ /h
Nominal Flow Rate	308 GPM	70 m ³ /h	396 GPM	90 m ³ /h
Filtration Surface area	369.8 in ²	2386 cm ²	524 in ²	3380 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide		Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene disc	Polypropylene disc	Polypropylene disc
Cartridge Diameter	4.8 in	122mm	4.8 in	122 mm
Cartridge Length	15.28 in x 2	388mm x 2	20.3 in x 2	515mm x 2
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh	80, 120, 150 mesh

Head Loss : AQ -138DS					
Flow, m ³ /h	48	60	70	80	96
Pressure Loss, kg/cm ²	0.16	0.22	0.29	0.38	0.52
Flow, GPM	211.2	264	308	352	422.4
Pressure Loss, Psi	2.27	3.12	4.12	5.40	7.38

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ -138D					
Flow, m ³ /h	64	80	90	100	120
Pressure Loss, kg/cm ²	0.24	0.34	0.42	0.5	0.7
Flow, GPM	281.6	352	396	440	528
Pressure Loss, Psi	3.41	4.83	5.96	7.10	9.94



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Semi - Automatic Disc Filter

2"






Features

- Flow passes through outside to Inside of Disc cartridge.
- Uniform distribution of flow into filter housing optimize filtration process.
- Filter designed for Pressure rating PN8 (8bar) / PN10 (10bar)
- Disc cartridge enabled with spring loaded for full compression of disc and loosen during cleaning.
- Filter with Clogging indicator, Red pop up comes out at 0.6 kg/cm² pressure differential, indicates end user to clean filter manually.
- During cleaning operation, all inlet water passes through the pipe, and water jets removes dirt from the discs.
- Handle for 90 degree rotation for cleaning of disc without dismantling of filter.

Specifications	AQ-134T-SAD	
	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP Male Thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²
Range of Flow Rate	79-120 GPM	18-27 m ³ /h
Nominal Flow Rate	110 GPM	25 m ³ /h
Filtration Surface area	167.4 in ²	1080 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene disc
Cartridge Diameter	4.8 in	122 mm
Cartridge Length	14.8 in	375mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

80 Mesh	
120 Mesh	
150 Mesh	

Head Loss : AQ -134T-SAD					
Flow, m ³ /h	14.4	18	25	27	32
Pressure Loss, kg/cm ²	0.11	0.17	0.31	0.36	0.51
Flow, GPM	63.4	79.2	110.0	118.8	140.8
Pressure Loss, Psi	1.56	2.41	4.40	5.11	7.24

Semi - Automatic Disc Filter

3"



Cleaning Instructions

- Cleaning of the filter must be done when pressure differential across the disc filter reaches 0.6 kg/cm² (8.5psi) or when the clogging indicator red button pops up.
- Cleaning the semi-automatic filter must be done while the filter is under pressure.
- Gradually open the flushing valve below the filter.
- To start cleaning mode of filter, turn the handle (top of the filter) 90 degree in clockwise direction.
- When Cleaning operation starts, system pressure might increase during cleaning operation.
- When cleaning operating is over, filter handle direction should be at filtration mode and then flushing valve should close gradually.
- In case the filter is still clogged (pressure indicator button is up). Repeat the above steps for effective disc cleaning.

Specifications	AQ-136T-SAD	
	US Standard	Metric Standard
Inlet/outlet connection	3" NPT male thread	3" BSP Male Thread
Max. Working Pressure (PPGF Filter)	110 Psi	8 kg/cm ²
Max. Working Pressure (PA Filter)	145 Psi	10 kg/cm ²
Range of Flow Rate	154-220 GPM	35-50 m ³ /h
Nominal Flow Rate	176 GPM	40 m ³ /h
Filtration Surface area	246.45 in ²	1590 cm ²
Material of Construction	Glass Filled Polypropylene/ Polyamide	
Material of Disc	Polypropylene disc	Polypropylene disc
Cartridge Diameter	4.8 in	122 mm
Cartridge Length	20.1 in	510mm
Available Mesh	80, 120, 150 mesh	80, 120, 150 mesh

Filtering Element

- 80 Mesh
- 120 Mesh
- 150 Mesh

Head Loss : AQ -136T-SAD					
Flow, m ³ /h	28	35	40	50	60
Pressure Loss, kg/cm ²	0.25	0.31	0.37	0.52	0.73
Flow, GPM	123.2	154	176	220	264
Pressure Loss, Psi	3.55	4.40	5.25	7.38	10.37



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Hydrocyclone Filters

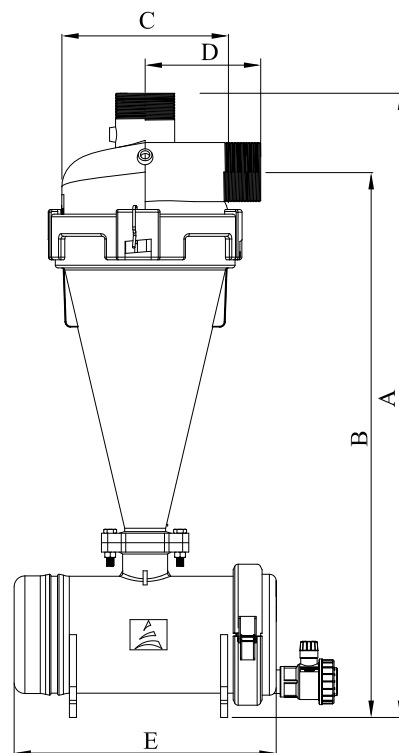
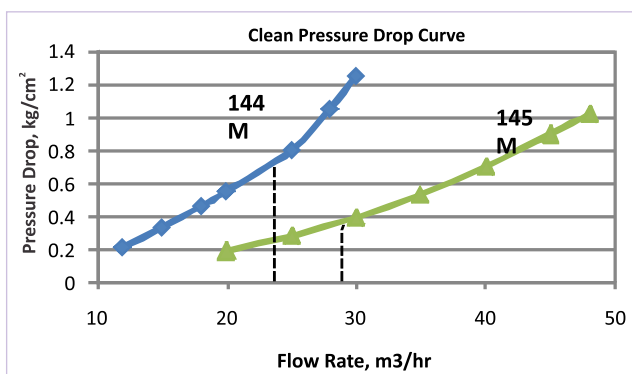
2" & 2½"



Features

- Reinforced Polypropylene / Nylon Construction
- Hydro dynamically designed to create maximum centrifugal action.
- Dirt can be easily flushed out through drain port.
- Stainless Steel Clamp use for fast & easy cleaning of collector tank.
- New stand for Height increase.
- Collector tank available in 8 and 10litres.
- Specially designed High wear resistant special plastic material sleeve inbuilt during molding at the bottom of cone to avoid wearing due to strong sand vortex.

Specifications	AQ-144M		AQ-145M	
	US Standard	Metric Standard	US Standard	Metric Standard
Inlet/outlet connection	2" NPT male thread	2" BSP male thread	2½" NPT male thread	2½" BSP male thread
Max. Operating Pressure	85Psi	6 kg/cm ²	85Psi	6 kg/cm ²
Range of Flow Rate	65-110 GPM	15 -25 m ³ /h	110 -175 GPM	25 -40 m ³ /h
Nominal Flow Rate	110 GPM	25 m ³ /h	130 GPM	30 m ³ /h
Material of Construction	PPGF + PAGF	PPGF + PAGF	PPGF + PAGF	PPGF + PAGF
Clamp	Stainless Steel SS-316	Stainless Steel SS-316	Stainless Steel SS-316	Stainless Steel SS-316



Dimensions		
Model No.	144M	145M
Inlet / Outlet	2" / 50mm	2½" / 65mm
A	940	940
B	808	815
C	206	206
D	151	151
E	395	395
Collector Capacity, Ltr	8	8
Gross Weight, kg	7.6	7.8

Hydrocyclone Filters

3"

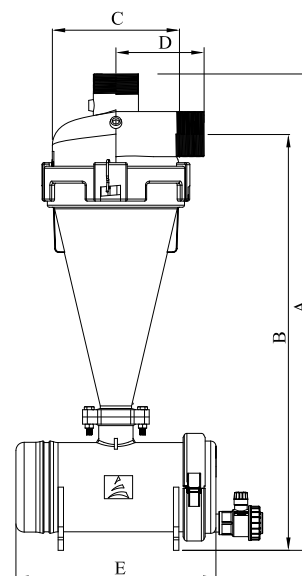
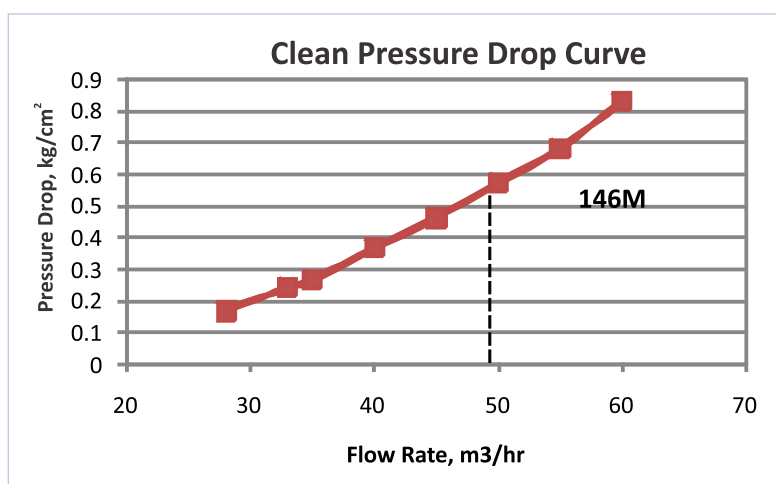


Technical Specification

- Available Connections: BSP/NPT male threaded, Flange, Victaulic
- Maximum Operating Pressure: 6 kg/cm²

Specifications	AQ-146M	
	US Standard	Metric Standard
Inlet/outlet connection	3" NPT male thread	3" BSP male thread
Max. Operating Pressure	85Psi	6 kg/cm ²
Range of Flow Rate	155-220 GPM	35 -50 m ³ /h
Nominal Flow Rate	220 GPM	50 m ³ /h
Material of Construction	PPGF + PAGF	PPGF + PAGF
Clamp	Stainless Steel SS-316	Stainless Steel SS-316

Dimensions		
Model No.	146M	
Inlet / Outlet	3"/80mm	
A	990	990
B	868	868
C	248	248
D	175	175
E	395	482
Collector Capacity, Ltr	8	10
Gross Weight, kg	9.4	9.6



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

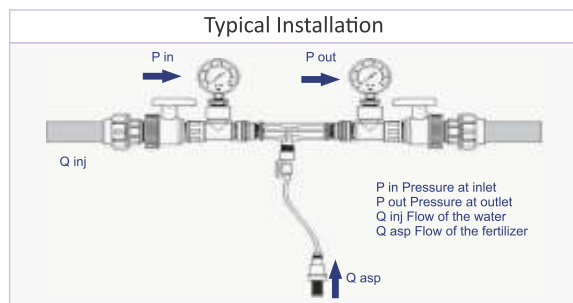
Venturi Injector

¾" & 1"



Features

- In built check valve for protecting the injected liquid against back flow.
- With Rotameter, one can measure/read accurate suction of fertilizer injection rate.
- Rotameter is available in all sizes.
- All Venturies are also available with full assembly.



Performance Chart					
Pressure		¾" Venturi Injector (Model 112)		1" Venturi Injector (Model 113)	
P in	P out	Motive Flow	Water Suction	Motive Flow	Water Suction
Kg/cm ²	Kg/cm ²	L/H	L/H	L/H	L/H
0.5	0	750	170	2200	263
0.75	0	856	188	2640	288
1	0	983	195	3000	310
	0.25		185		275
	0.5		138		174
1.5	0	1195	190	3500	298
	0.5		188		269
	0.75		153		263
	1		91		115
2	0	1356	190	4290	298
	0.5		190		293
	0.75		188		293
	1		175		263
	1.25		135		188
	1.5		48		70
2.5	0	1527	190	4645	310
	0.5		190		298
	0.75		190		293
	1		190		293
	1.25		173		293
	1.5		150		249
	1.75		93		130
	2		NS		NS
3	0	1671	190	5065	310
	1		190		310
	1.25		190		310
	1.5		188		293
	1.75		168		264
	2		115		190
3.5	2.25	1783	45	5370	72
	0		190		310
	1		190		310
	1.5		190		310
	1.75		188		291
	2		168		263
	2.25		141		227
4	2.5	1907	90	5720	129
	2.75		37		58
	0		190		310
	1		190		310
	2		190		293
	2.25		180		293
	2.5		155		291
	2.75		110		191
3	50	95			
3.25	NS	NS			

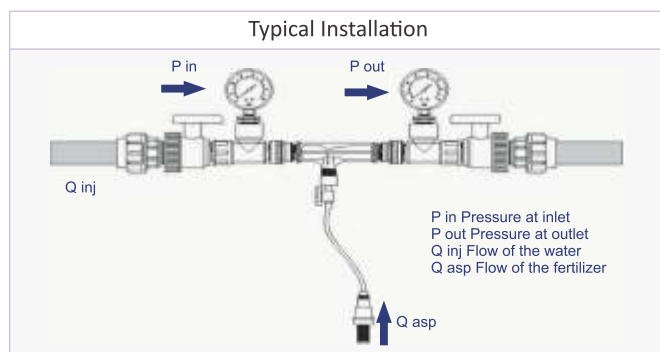
Venturi Injector

1½" & 2"



Benefits

- Controlled/Adjustable suction of fertilizers.
- Delivers plant nutrients directly into the wetted zone (where root development is intensive).
- Can be used with a large variety of chemicals.
- Uniform application of fertilizers.
- Saves Energy & Manpower.



Performance Chart					
Pressure		1½" Venturi Injector (Model 114)		2" Venturi Injector (Model 115ES)	
P in	P out	Motive Flow	Water Suction	Motive Flow	Water Suction
Kg/cm ²	Kg/cm ²	L/H	L/H	L/H	L/H
0.5	0	3238	600	3920	612
0.75	0	3902	600	4530	710
1	0	4532	613	4940	720
	0.25		600		700
	0.5		475		500
1.5	0	5712	600	6290	710
	0.5		600		710
	0.75		575		600
	1		350		400
	1		600		710
2	0	6590	600	6880	700
	0.5		600		700
	0.75		600		700
	1		600		680
	1.25		538		600
2.5	0	7428	213	7725	300
	0.5		600		720
	0.75		600		710
	1		600		710
	1.25		600		700
	1.5		575		600
	1.75		428		650
2	110	600			
3	0	8163	600	8320	720
	1		600		710
	1.25		600		710
	1.5		600		680
	1.75		600		650
	2		563		580
	2.25		313		320
3.5	0	8814	600	9000	710
	1		600		710
	1.5		600		700
	1.75		600		680
	2		600		620
	2.25		563		570
	2.5		463		480
2.75	213	240			
4	0	9422	613	9625	710
	1		613		710
	2		613		700
	2.25		600		680
	2.5		600		650
	2.75		563		580
	3		375		400
3.25	110	100			
4.5	0	9918	613	10000	715
	1		613		710
	2		613		700
	2.5		613		680
	2.75		613		650
	3		600		610
	3.25		563		570
3.5	250	230			
3.75	NS	NS			
5	0	10471	613	10600	720
	1		613		710
	2		613		700
	3		600		680
	3.25		575		600
	3.5		538		580
	3.75		450		480
4	188	150			
5.5	0	10780		10780	720
	1				710
	2				700
	3				680
	3.25				620
	3.5				580
	3.75				500
4		370			
4.25		120			
4.5		NA			
6	0	10950		10950	710
	1				710
	2				680
	3				600
	4				550
	4.25				380
	4.5				200
4.75		NS			
5		NS			

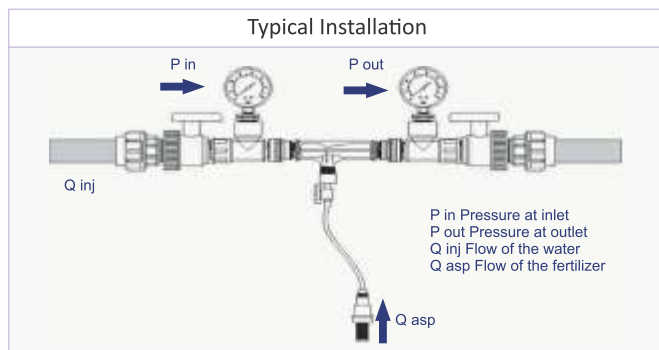


E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Venturi Injector

2"



Performance Chart					
Pressure		2" Low Flow Venturi Injector (Model 115LF)		2" High Flow Venturi Injector (Model 115HF)	
P in Kg/cm ²	P out Kg/cm ²	Motive Flow L/H	Water Suction L/H	Motive Flow L/H	Water Suction L/H
0.5	0	6600	706	10320	1250
0.75	0	7250	827	12300	1325
1	0	7950	841	14400	1400
	0.25		803		1275
	0.5		539		913
1.5	0	9040	806	16800	1450
	0.5		805		1350
	0.75		676		1225
	1		270		530
	1.5		813		1450
2	0.5	11800	788	18900	1450
	1		788		1325
	1.25		764		1300
	1.5		620		875
	2		229		473
	2.5		810		1450
2.5	0.5	12830	810	20100	1450
	0.75		810		1450
	1		765		1450
	1.25		719		1450
	1.5		698		1300
	1.75		626		1163
	2		366		697
	2.5		100		NS
	3		830		1450
	3.5		798		1450
3	1.25	13300	798	22500	1450
	1.5		763		1425
	1.75		739		1200
	2		568		950
	2.25		308		403
	2.5		830		1480
	2.75		810		1480
3.5	1	13600	810	24300	1480
	1.5		806		1480
	1.75		765		1480
	2		699		1425
	2.25		634		1125
	2.5		454		665
	2.75		199		420
	3		810		1480
4	1	14560	810	25800	1480
	1.25		798		1480
	1.5		784		1480
	1.75		709		1275
	2		608		925
	2.25		347		485
	2.5		109		NS
	2.75		810		1480
	3		810		1480
	3.25		810		1480
4.5	2.5	15400	746	26400	1450
	2.75		712		1350
	3		688		1050
	3.25		505		575
	3.5		270		410
	3.75		NS		NS
	4		810		1480
	4.25		810		1480
	4.5		810		1480
	4.75		750		1375
5	3.25	16200	707	28500	925
	3.5		636		725
	3.75		398		545
	4		140		405
	4.25		810		1480
	4.5		810		1480
	4.75		809		1480
	5		780		1450
5.5	3.25	17050	712	30000	1450
	3.5		651		1325
	3.75		530		1050
	4		407		665
	4.25		160		380
	4.5		49		NS
	4.75		810		1480
	5		810		1480
	5.25		810		1480
	5.5		801		1480
6	4	17750	730	32000	1325
	4.25		630		1025
	4.5		432		725
	4.75		271		425
	5		NS		NS

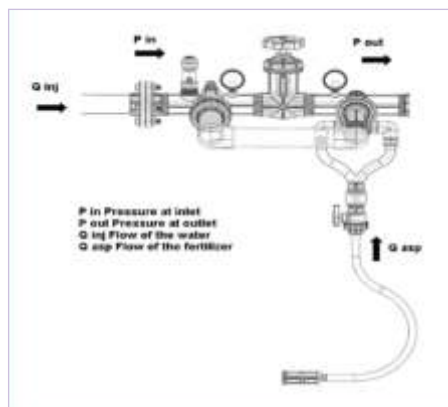
Super Suction Venturi Injector

2"



Features

- Controlled Adjustable suction as required in field.
- Uniform fertilizer Application.
- More saving of energy as well as manpower.
- Spring loaded external NRV for easy cleaning.



Performance Chart

Pressure		2" Super Venturi Injector (Model 115DS)	
P in Kg/cm ²	P out Kg/cm ²	Motive Flow L/H	Water Suction L/H
0.5	0	6200	1003
0.75	0	7200	1048
1	0	8250	1051
	0.25		953
	0.5		545
1.5	0	9800	1104
	0.5		1052
	0.75		757
	1		347
2	0	11200	1151
	0.5		1053
	0.75		955
	1		934
	1.25		664
	1.5		330
2.5	0	12400	1095
	0.5		1085
	0.75		1010
	1		1005
	1.25		965
	1.5		810
	1.75		660
	2		277
	3		0
1		1080	
1.25		1005	
1.5		925	
1.75		875	
2		731	
2.25		425	
3.5		0	14000
	1	1075	
	1.5	1005	
	1.75	1005	
	2	908	
	2.25	807	
	2.5	635	
	2.75	298	
	4	0	
1		1078	
2		1015	
2.25		933	
2.5		933	
2.75		805	
3		567	
3.25		346	
4.5		0	15250
	1	1070	
	2	1005	
	2.5	960	
	2.75	929	
	3	903	
	3.25	785	
	3.5	548	
3.75	338		



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Fertilizer Tank

30 Ltr



Application

- Fertilizer tanks for use of chemical and fertilizer injection through drip and sprinkler irrigation system.

Features and Specifications

- Small air release/ Vacuum relief valve for fast air release to fill tank completely and air intake to avoid damage to tank and fast draining.
- Inlet flow becomes turbulent for excellent mixing of fertilizer and chemical with water.
- Fertilizer tank inlet and outlet ports are provided with valve to control the injection rate.
- MS plated handle for easy movement of tank to suitable location.
- Wall thickness of tank suitable for high working pressure without damage to tank and for robust use.
- Handle fitted to the tank cover, end user can use it for easy open/close the cover, for pouring fertilizer/chemical into the tank.
- Hose assembly suitable for high working pressure without expansion and slipout connections.
- Fertilizer tank equipped with filter at the outlet port to restrict the entry of solid particles into the mains.

Technical Specification

- Available tank capacity: 30 litre Inlet, outlet and Drain Ports Connection: 3/4"
- Max. working Pressure: 6 kg/cm²

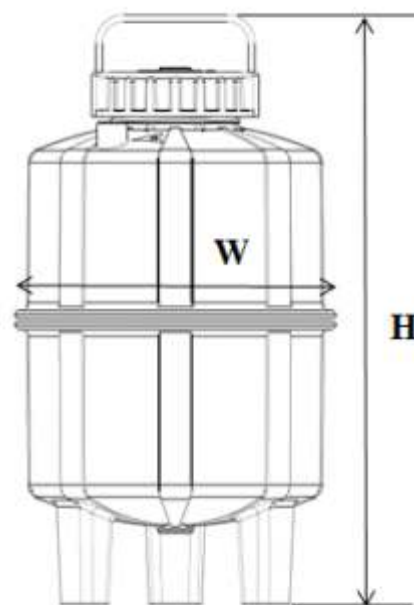
Operation

The fertilizer tanks are simple to use and easy to portable. A pressure differential between the inlet and outlet connections, creates flow into the tank through inlet port, displacing chemical from the tank through the outlet and into the mains.

Dimensions	
(dimension in mm)	
Height, H	685
Width, W	382
Weight, kg	6.15

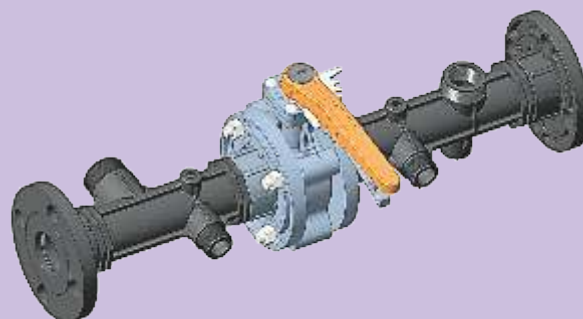
Performance Chart	
Pressure Differential between inlet/outlet, kg/cm ²	Min. Operation Time, min.
0.2	12
0.3	9
0.5	7

The fertilizing times are for general use only, and for fertilizers easily soluble in water. Actual times may be altered according to pressure loss in between ports & field conditions.

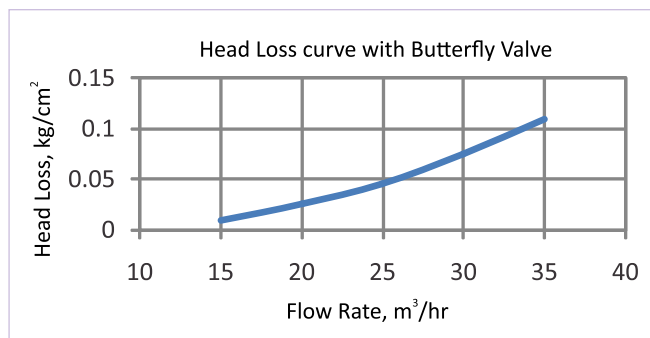
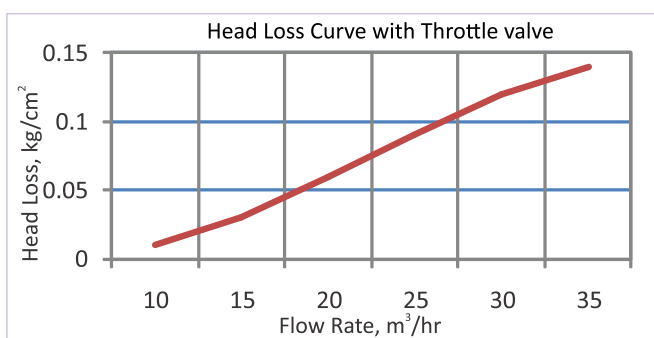


Head Unit

2"



Technical Details			
S.No.	Specifications	Head Unit With Throttle Valve	Head Unit with Butterfly Valve
1	Nominal Size, mm (inch)	50mm (2")	
2	Max. Operating pressure	6 kg/cm ²	8 kg/cm ²
3	Connection type	Flanged End Connection as per BS 10 Table D	
4	Material of Construction	PPGF	PPGF/PVC
5	Maximum Flow Recommended	25 m ³ /hr	
6	Head Unit :Total Length (End to End)	627mm	635mm
7	Head Unit : Total Width	166mm	166mm
8	Head Unit : Total Height	311mm	250mm
9	Injector Port Size:	¾" male port	
10	By pass connection size	1½" male	
11	Injector Port Centre distance	252.5mm	257mm
12	Pressure Gauge Ports	2 nos.	
13	Pressure Gauge Port Size	¼" Female threaded	
14	Airvent Port connection Size	1" Female & 1½" Male threaded	
15	Complete assembly Weight	2.54kg	3.97 kg
16	Leakage Test @ 6kg/cm ²	Throttle valve tested as per ANSI/ FCI-70-2-2006 Class IV, leakage allowed 0.1%	No leakage from valve, when fully closed position.
17	Pressure Drop		

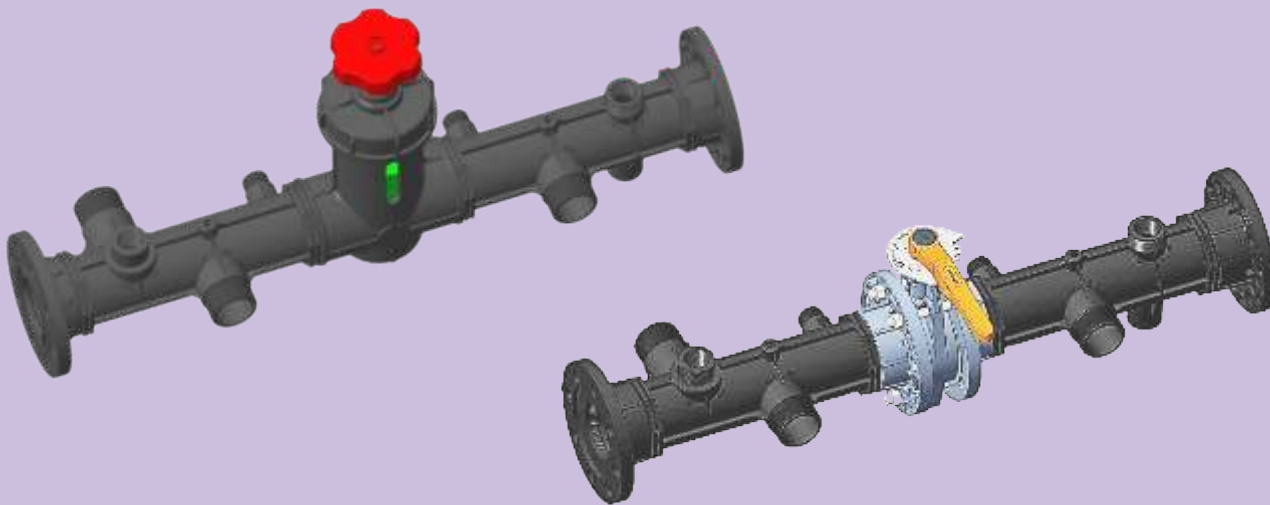


E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

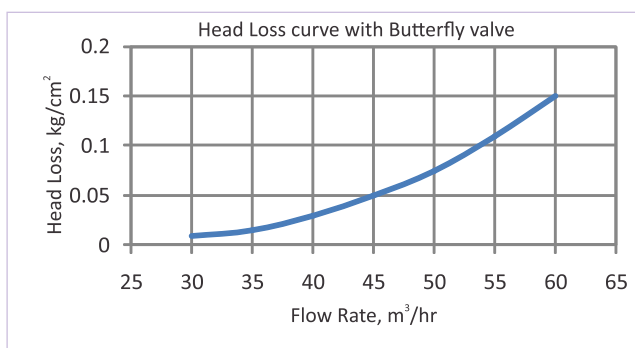
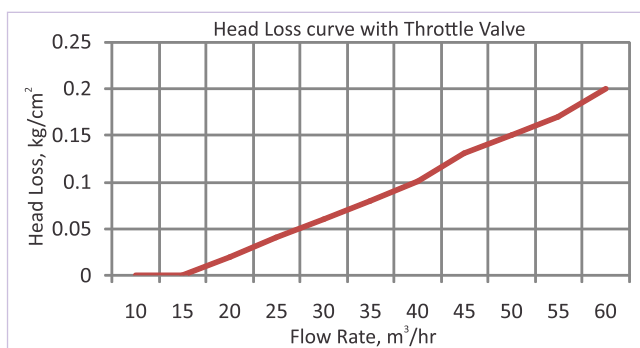
Head Unit

3"



Technical Details

	Specifications	Head Unit With Throttle Valve	Head Unit with Butterfly Valve
1	Nominal Size, mm (inch)	80mm (3")	
2	Max. Operating pressure	6 kg/cm ²	8 kg/cm ²
3	Connection type	Universal Flanged End compatible with all flange standards	
4	Material of Construction	PPGF	PPGF/PVC
5	Maximum Flow Recommended	50 m ³ /hr	
6	Head Unit :Total Length (End to End)	910mm	880mm
7	Head Unit : Total Width	240mm	240mm
8	Head Unit : Total Height	425mm	285mm
9	Injector Port Size	2" & ¾"	
10	Injector Port Centre distance of ¾" injector port	260mm	230mm
11	Injector Port Centre distance of 2" injector port	467mm	415mm
12	By pass connection	2" male	
13	Pressure Gauge Ports	2 nos.	
14	Pressure Gauge Port Size	¾" Female threaded	
15	Pressure Release Valve port	2" male	
16	Airvent Port connection Size	1" Female & 1½" Male threaded	
17	Complete assembly Weight	5.84kg	6.13kg
18	Leakage Test @ 6kg/cm ²	Throttle valve tested as per ANSI/FCI-70-2-2006 Class IV, leakage allowed 0.1%	No leakage from valve, when fully closed position.
19	Pressure Drop		



PVC Fittings



Union



Socket



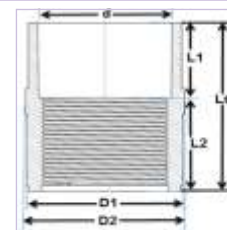
Elbow

Features

Fittings	Connection Size	Connection Type
Union	1½" & 2" One/both side Female threaded/ Plain	<ul style="list-style-type: none"> • Both End: BSP/NPT Female Threaded • Both End: Plain (Solvent Cement Joint)
Socket	1½", 2", 2½" & 3" One/both side Female threaded/Plain	<ul style="list-style-type: none"> • Both End: BSP/NPT Female Threaded • One End: BSP/NPT Female Threaded Another End: Plain (Solvent Cement Joint) • Both End: Plain (Solvent Cement Joint)
Elbow	1½" & 2" One/Both side Female Threaded / Plain	<ul style="list-style-type: none"> • Both End: BSP/NPT Female Threaded • Both End: Plain (Solvent Cement Joint)

- The Threads follow BSP & NPT standard whereas Plain connection follow ISO/ASTM/DIN/BS etc.
- The material made of good quality PVC with impact & UV resistant.
- Max. Operating Pressure: PN-10

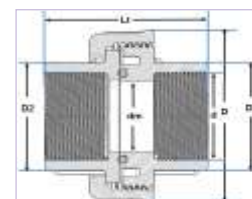
Dimensions											
Nom Size	BSP Thd./in	NPT Thd./in	ASTM d	BS d	DIN d	ISO d	L1	L2	D1	D2	Lt
40mm (1½")	11	11.5	48.26	48	50	50	37.8	24.6	58	64.8	63
50mm (2")	11	11.5	60.33	60	63	63	35.8	43.6	72.8	85	80
65mm (2½")	11	8	73.03	75	75	75	36.5	49	101.3	101.50	101.3
80mm (3")	11	8	88.9	89	90	90	36.5	49	101.3	101.50	101.3



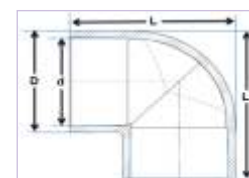
PVC Union (Both Side - Threaded Female)

PVC Ball Valve ((Inlet - Solvent Joint Female : Outlet - Solvent Joint Female)

Dimensions											
Nom Size	BSP Thd./in	NPT Thd./in	ASTM d	BS d	DIN d	ISO d	Lt	D	D1	D2	dm
40mm (1½")	11	11.5	48.26	48	50	50	85.2	94.5	57	60.6	40
50mm (2")	11	11.5	60.33	60	63	63	94.5	116	75.6	73	48



Dimensions									
Nom Size	BSP Thd./in	NPT Thd./in	ASTM d	BS d	DIN d	ISO d	L	D	
40mm (1½")	11	11.5	48.26	48	50	50	86	59	
50mm (2")	11	11.5	60.33	60	63	63	107	72	



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

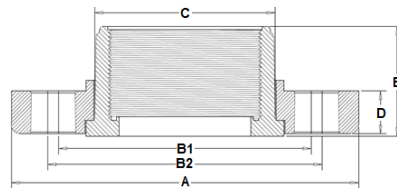
Slip-On Flanges



Features

- Material: Glass Reinforced PP/ Reinforced Nylon/ PVC
- Threaded Socket:
 - PPGF Flange Socket: 2", 2½" & 3" BSP/NPT Female threaded
 - Universal Flange Nylon/PVC Socket: 3" & 4" BSP/ NPT Female threaded
- Plain/ Solvent Welded PVC Socket connection: Available as per requirement of ASTM / BS / DIN /ISO standard
- Chemical Resistant: Good resistance to strong acids except highly active oxidizers, such as nitric acid.
- It also has excellent resistance to weak and strong alkalies and to most organic solvents.
- Color: Nylon: Black, PVC: Grey

Dimensions (in)						
Model	Glass Reinforced PP Slip-on Flange				Nylon/PVC Slip-on Univ. Flange	
		2"	2½"	3"	3"	4"
Nominal Dia (mm)	DN	50	65	80	80	100
Max. Operating Pressure (bar)	PN	6	6	6	10	10
Overall Dia (mm)	A	152	165	184	200	225
Bolt circle Dia (mm)	B1	114	126.5	146	145.5	177
Bolt circle Dia (mm)	B2				160	191
Threaded Socket Outside Dia (mm)	C	66.5	90	99	104	130
Flange Thickness (mm)	D	17.5	17.5	17.5	24.5	25.5
Overall Thickness (mm)	E	39.5	39.5	39.5	62	62
Dia. of Bolt (mm)		16	16	16	16	16
No. of Bolt		4	8	8	8	8
Flange Dimesnions Suited to Standards		BS10 (Table D & E)			Bs10 (Table D & E), ANSI Class 125/150, ISO 7001 (DIN), BS EN 1092	



Threaded PP Elbow & Tee







Dimensions (mm)			
Elbow	2"	2½"	3"
mm	50mm	65mm	80mm
d	49.8	66.5	75
L1	36	34.7	37
L1	146	171	191





Tee	2"	2½"	3"
mm	50mm	65mm	80mm
d	49.9	66	77
L1	32.4	32.4	36.4
L	183.8	226.6	234.8
H	136.2	160.8	177.8


Features

- Available Sizes: 2", 2.5" & 3" Male BSP Threaded
- Max. Operating Pressure: 10 Bar/ 145 Psi
- Material: Reinforced Polypropylene
- Color: Black
- Smooth flow with minimal pressure drop.
- Chemical/Corrosion resistant, Color UV stablized.


Weight Chart



Screen Filters									
Product	Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Volume	Weight/ piece	Empty box Weight	Gross Weight
	AQ 121Y	¾" Y Type Screen Filter (5m ³ /hr)	14040001	10	360x305x185	0.02	0.21	0.60	2.70
	AQ 122Y	1" Y Type Screen Filter (7m ³ /hr)	14040002	10	360x305x185	0.02	0.21	0.60	2.70
	AQ 123YM	1½" Y Type Screen Filter (15m ³ /hr)	14040003	2	360x305x185	0.02	0.76	0.60	2.12
	AQ 124YS	2" Y Type Screen Filter (20m ³ /hr)	14040005	2	360x305x185	0.02	0.80	0.60	2.20
	AQ 124Y	2" Y Type Screen Filter (25m ³ /hr)	14040004	1	360x305x185	0.02	1.76	0.60	2.36
	AQ 123TM	1½" Mini Screen filter	14000051	2	360x305x185	0.02	3.30	0.60	7.20
	AQ 124TM	2" Mini Screen filter	14000052	2	360x305x185	0.02	3.50	0.60	7.60
	AQ 124T	2" T Type Screen Filter (25m ³ /hr)	14100002	1	565x360x270	0.05	3.73	1.70	5.43
	AQ 124TL	2" T Type Screen Filter (30m ³ /hr)	14100039	1	620x360x270	0.06	3.78	1.70	5.48
	AQ 125T	2½" T Type Screen Filter (30m ³ /hr)	14100003	1	565x360x270	0.05	3.88	1.70	5.58
	AQ 125TL	2½" T Type Screen Filter (40m ³ /hr)	14100004	1	620x360x270	0.06	4.15	1.2	5.35
	AQ 126T	3" T Type Screen Filter (40m ³ /hr)	14100005	1	620x360x270	0.06	5.02	1.70	6.72
	AQ 126TL	3" T Type Screen Filter (50m ³ /hr)	14100006	1	760x360x270	0.07	5.77	1.35	7.12
	AQ 126D	3" T type Screen filters (Double filter) - 50 m ³	14100053	1	850x365x265	0.08	7.54	4.40	11.94
	AQ 128DS	4" T type Screen filters (Double filter) - 70 m ³	14100052	1	1032x375x320	0.12	8.80	4.60	13.40
	AQ 128D	4" T type Screen filters (Double filter) - 90 m ³	14100051	1	1280x380x320	0.16	8.80	4.60	13.40


Disc filters									
Product	Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Volume	Weight/ piece	Empty box Weight	Gross Weight
	AQ 131Y	¾" Y Type Disc Filter (5m ³ /hr)	14000040	10	360x305x185	0.02	0.21	0.60	2.70
	AQ 132Y	1" Y Type Disc Filter (6m ³ /hr)	14000042	10	360x305x185	0.02	0.21	0.60	2.70
	AQ 133YM	1½" Y Type Disc Filter (15m ³ /hr)	14000047	2	360x305x185	0.02	0.76	0.60	2.12
	AQ 134YS	2" Y Type Disc Filter (20m ³ /hr)	14000048	2	360x305x185	0.02	0.80	0.60	2.20
	AQ 133TM	1½" Mini disc filter	14000056	2	360x305x185	0.02	3.30	0.60	7.20
	AQ 134TM	2" Mini disc filter	14000058	2	360x305x185	0.02	3.50	0.60	7.60
	AQ 134TS	2" T Type Disc Filter (25m ³ /hr)	14010004	1	565x360x270	0.05	6.01	1.70	7.71
	AQ 134T	2" T Type Disc Filter (30m ³ /hr)	14010001	1	620x360x270	0.06	6.35	1.70	8.05
	AQ 135T	2½" T Type Disc Filter (30m ³ /hr)	14070005	1	565x360x270	0.05	4.9	1.0	5.9
	AQ 135TL	2½" T Type Disc Filter (40m ³ /hr)	14010005	1	565x360x270	0.05	5.48	1.70	7.18
	AQ 136TS	3" T Type Disc Filter (40m ³ /hr)	14010008	1	620x360x270	0.06	6.33	1.70	8.03
	AQ 136T	3" T Type Disc Filter (50m ³ /hr)	14010007	1	760x360x270	0.07	7.54	1.70	9.24
	AQ 136D	3" T type disc filters (Double filter) - 50 m ³	14010073	1	850x365x265	0.08	7.54	4.60	12.14
	AQ 138DS	4" T type disc filters (Double filter) - 70 m ³	14010111	1	1280x380x320	0.16	8.80	4.00	12.80
	AQ 138D	4" T type disc filters (Double filter) - 90 m ³	14010112	1	1280x380x320	0.16	8.80	4.40	13.20


Hydrocyclone									
Product	Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Volume	Weight/ piece	Empty box Weight	Gross Weight
	AQ 144	2" Hydrocyclone with 8 ltrs tank	14110001	1	740x340x340	0.09	9.48	1.75	11.23
	AQ 145	2½" Hydrocyclone with 8 ltrs tank	14110002	1	740x340x340	0.09	9.48	1.75	11.23
	AQ 146	3" Hydrocyclone with 10 ltrs tank	14110011	1	920x335x325	0.10	10.51	2.30	12.81

Weight Chart




Semi-Automatic Disc Filter						
Product	Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	AQ-134TSA	2" Semi-Automatic Disc Filter	14090044	1	755x365x265	8.40
	AQ-136TSA	3" Semi-Automatic Disc Filter	14090074	1	807x393x262	10.58








Venturi Injectors									
Product	Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Volume	Weight/ piece	Empty box Weight	Gross Weight
	AQ 112	¾" Venturi Injector with Suction Port	20030001	25	455x350x295	0.047	0.222	1.200	6.74
	AQ 112R	AQ-112 with suction port + Rotametre	20010001	25	455x350x295	0.047	0.260	1.200	7.70
	AQ 112RS	AQ-112R + side assemblies	20050001	20	690x440x420	0.128	0.927	1.905	20.45
	AQ 113	1" Venturi Injector with Suction Port	20030002	25	455x350x295	0.047	0.268	1.200	7.90
	AQ 113R	AQ-113 with suction port + Rotametre	20010002	25	455x350x295	0.047	0.312	1.200	9.00
	AQ 113RS	AQ-113R + side assemblies	20050002	12	690x440x420	0.128	1.264	1.665	16.83
	AQ 114	1½" Venturi Injector with Suction Port	20030003	15	690x440x420	0.128	0.456	1.755	8.60
	AQ 114R	AQ-114 with suction port + Rotametre	20010003	15	690x440x420	0.128	0.693	1.755	12.15
	AQ 114RS	AQ-114R + side assembly	20050003	1	580x260x140	0.021	2.056	0.625	2.68
	AQ 115LF	2" Venturi Injector with Suction Port (LF)	20030004	10	690x440x420	0.128	1.133	1.605	12.94
	AQ 115RLF	AQ-115 with suction port + Rotametre	20010004	10	690x440x420	0.128	1.367	1.605	15.28
	AQ 115RSLF	AQ-115R + side assembly	20050004	1	500x425x175	0.037	3.693	1.045	4.74
	AQ 115HF	2" Venturi Injector with Suction Port (HF)	20030005	10	690x440x420	0.128	1.092	1.605	12.53
	AQ 115RHF	AQ-115 with suction port + Rotametre (HF)	20010005	10	690x440x420	0.128	1.350	1.605	15.11
	AQ 115RSHF	AQ-115R + side assembly (HF)	20050005	1	500x425x175	0.037	3.675	1.045	4.72








2" Super Venturi						
Product	Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	AQ-115DS-AS	2" Super Venturi With Suction Port And Side Assembly Along With Ball Valve	20060027	1	500x430x180	5.16
	AQ-115DS-S	2" Super Venturi With Suction Port Only	20030023	5	485x435x350	11.50

Fertilizer Tank							
Product	Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Volume	Gross Weight
	AQ-117	30 Ltr.	21000003	1	800x390x390	0.12	9.80

Weight Chart

PVC Fittings					
Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	1½" PVC Union(txt)	12230090	50	440X345X280	14.415
	2" PVC Union(txt)	12240092	25	440X345X280	12.58
	2" PVC Union(pxp)	12240091	25	440X345X280	12.13
	1½" PVC Elbow(pxp)	12230048	90	440X345X280	11.494
	1½" PVC Elbow(pxt)	12230115	90	440X345X280	12.169
	2" PVC Elbow(pxp)	12240030	40	440X345X280	8.12
	2" PVC Elbow(pxt)	12240029	40	440X345X280	9.128
	1½" PVC Fta(txt)	12000007	140	440X345X280	11.444
	1½" PVC Fta(pxt)	12000002	140	440X345X280	10.38
	2" PVC Fta(pxt)	12000003	70	440X345X280	11.759
	2" PVC Fta(txt)	12000006	70	440X345X280	12.83

2" Head Unit with Throttle Valve/ Butterfly Valve					
Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	2" Throttle Valve - BSP - PPGF	19090018	5	700x300x190	6.84
	2" Butterfly Valve - PVC	19070819	2	390x290x130	3.3
	2" Head Unit with out flange	17010030	2	355x305x180	4.1
	2" Slip on Flange - BSP PPGF	25010004	40	430x345x275	13.1
	2" Threaded End Head Unit with Throttle Valve	17020069	1	630x180x325	3.05
	2" Head Unit with throttle valve & Flange end	17020070	1	630x330x260	3.43
	2" Head Unit with Butterfly Valve & Flange end	17030069	1	685x200x225	4.38

3" Head Unit with Throttle Valve/Butterfly Valve					
Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	3" Throttle Valve -BSP - PPGF	19090019	5	720x240x440	13.850
	3" Butterfly Valve - PVC	19070601	2	390x290x130	3.700
	3" head unit with out flange	17070061	2	445x350x210	5.670
	3" Universal Flange-bsp -ppgf	25010052	12	440x345x290	10.2
	3" Threaded End Head Unit with Throttle Valve	17080067	1	720x240x440	5.3
	3" Head Unit with Throttle Valve & universal Flanged End (BSP-PPGF)	17080068	1	720x240x440	5.8
	3" Head Unit with Butterfly valve & universal Flanged End (BSP-PPGF)	17090091	1	1095x280x250	9.31



E-mail: contactus@automatworld.com
 Website: www.automatworld.com

Creating a Green World

Warranty & Disclaimer

Automat products are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the product was designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts, and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects in design or breach of warranty.

