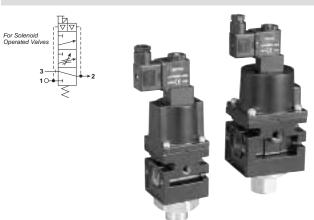
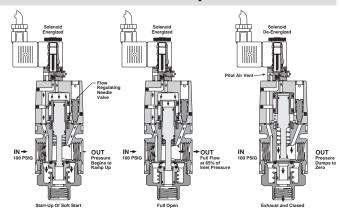
SC75 & SC105 Series Solenoid Soft Start / Quick Dump Valves





Features

- · Connects to Other QUBE Units Using Just Screws and O-Rings (Included)
- Integral Mounting Slots Eliminate Need for Mounting **Brackets**
- Combines Soft Start and Quick Dump Valve in the Same Body
- Unit is Installed Downstream of Lubricator (If Used)
- Large Flow Capacities up to 4.2 Cv
- · Inline or Modular Mounting
- · Soft Start Flow Easily Adjusted

Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

Operation

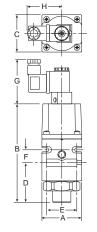
When the valve is installed into the pneumatic system, and pilot operator receives no signal, the air is blocked at Port 1. When a pilot signal is received at pilot operator, the valve shifts, closing the connection between Ports 2 and 3. At the same time, air flow begins between Ports 1 and 2 at a slow rate controlled by the needle valve, located on the top of the valve. When the downstream pressure reaches approximately 60% of the supply pressure, the main valve spool opens allowing full flow through the valve into the system. If pilot signal or system pressure is lost, the valve returns to its initial state, venting the downstream pressure through Port 3.

⚠ CAUTION

Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

Ordering Information / Dimensions

75 Series						
Model Number	Port (NPT)	Flow* Cv				
24VDC / 48VAC						
SC75-03M	3/8"	4.1				
SC75-04M	1/2"	4.2				
12V	DC / 24VAC	,				
SC75-03Z	3/8"	4.1				
SC75-04Z	1/2"	4.2				
	120VAC	·				
SC75-03K	3/8"	4.1				
SC75-04K	1/2"	4.2				
*Exhaust Flow						



Model	۸	R	C	D	F	E	G	ш
Wiodei								-''
SC75		5.43 (138)		1.50 (38)	1.66 (42)	.72 (18)	2.56 (65)	1.91 (48)

			•	_		-	_	
SC75		5.43 (138)					2.56 (65)	1.91 (48)
nches (mm)								

	SC105-06					
	*Exhaust Flow					
Н	Model	Δ				
.91	SC105	3.0				
48)	30 103	(7				

105 Series							
Model Number	Port (NPT)	Flow* Cv					
24VDC / 48VAC							
SC105-04M	1/2"	5.3					
SC105-06M	3/4"	5.7					
12V	DC / 24VAC	;					
SC105-04Z	1/2"	5.3					
SC105-06Z	3/4"	5.7					
	120VAC						
SC105-04K	1/2"	5.3					
SC105-06K	3/4"	5.7					

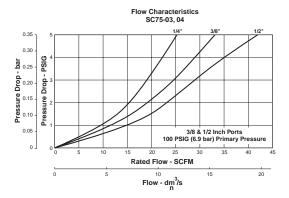
Model	Α	В	С	D	Е	F	G	Н
SC105	3.03	6.03	2.75	1.84	2.53	.84	2.56	1.90
	(77)	(153)	(70)	(47)	(64)	(21)	(65)	(48)

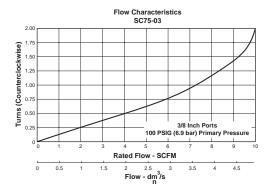
Inches (mm)

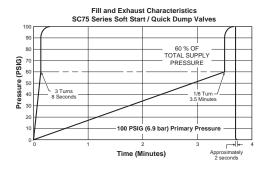


Technical Specifications - SC75 & SC105

Technical Information

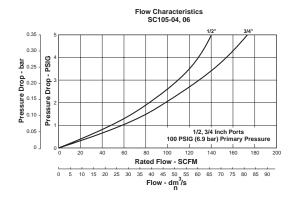


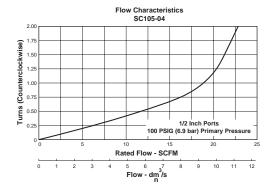


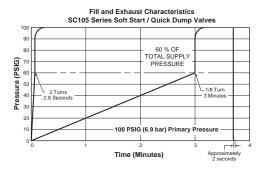


QUBE SC75 & SC105 Series Kits & Accessories

Coil Kits – 24VDC / 48VAC Coil	2EV102
Seal Repair Kits – SC75 Series SC105 Series	
Exhaust Mufflers SC75 (1/2" Exhaust) SC105 (3/4" Exhaust)	
Specifications	
Exhaust Ports – SC75SC105	
Gauge Ports – SC75 (2) SC105 (2)	



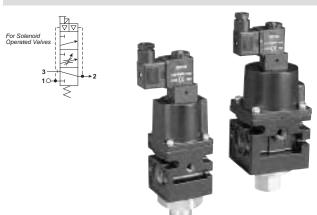


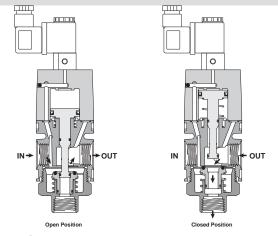


	Inlet & Outlet Port Threads – SC753/8 Inch NPTF
1	SC1051/2 Inch NPTF
	(BSPP and BSPT port threads are available through the use of Modular Port Block Kits)
1	Pressure & Temperature Ratings -
1	Solenoid60 to 145 PSIG (4.1 to 10.0 bar)
1	32°F to 140°F (0°C to 60°C)
1	Weight –
1	SC75
1	SC105
	Materials of Construction
1	BodyZinc
1	Bottom PlugBrass
1	SealsNitrile
1	Springs Stainless Steel
1	Internal ComponentsBrass / Aluminum
1	Top CoverAluminum



S75 & S105 Solenoid Quick Dump Valves





Features

- Connects to Other QUBE Units Using Just Screws & O-Rings (Included)
- Integral Mounting Slots Eliminate Need for Mounting Brackets
- Shuts Off Incoming Pressure While Rapidly Exhausting Downstream Pressure
- Unit is Installed Downstream of Lubricator (If Used)
- Large Exhaust Flow Capacities Up to 5.7 Cv
- Solenoid Operation
- Non-locking Manual Override
- Inline or Modular Mounting

Operation

The solenoid quick dump valves are high flow, normally closed, 3-Port, 2-Position directional control valves. Upon energizing the solenoid, inlet air is applied to the top of the piston. The piston pushes against the spring and opens the main valve providing full flow air to the downstream. When the solenoid is de-energized, the main valve closes allowing downstream air to exhaust rapidly through the bottom plug. The bottom plug is tapped so that exhaust may be piped away or fitted with a muffler.

A CAUTION

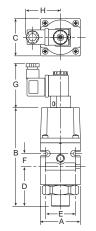
Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

⚠ CAUTION

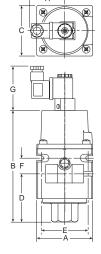
Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

Ordering Information / Dimensions

75 Series						
Model Number	Port (NPT)	Flow* Cv				
24VDC / 48VAC						
S75-03M	3/8"	4.1				
S75-04M	1/2"	4.2				
12V	DC / 24VAC	,				
S75-03Z	3/8"	4.1				
S75-04Z	1/2"	4.2				
	120VAC					
S75-03K	3/8"	4.1				
S75-04K	1/2"	4.2				
*Exhaust Flow						



1	05 Series	
Model Number	Port (NPT)	Flov Cv
24\	'DC / 48VAC	;
S105-04M	1/2"	5.3
S105-06M	3/4"	5.7
12V	DC / 24VAC	;
S105-04Z	1/2"	5.3
S105-06Z	3/4"	5.7
	120VAC	
S105-04K	1/2"	5.3
S105-06K	3/4"	5.7
*Exhaust Flow		



^{*}Exhaust Flow

Model	Α	В	С	D	E	F	G	Н
SC75	2.19	5.43	2.06	1.50	1.66	.72	2.56	1.91
	(56)	(138)	(52)	(38)	(42)	(18)	(65)	(48)

Inches (mm)

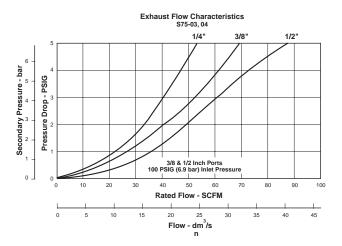
Model	Α	В	С	D	E	F	G	Н
SC105	3.03	6.03	2.75	1.84	2.53	.84	2.56	1.90
	(77)	(153)	(70)	(47)	(64)	(21)	(65)	(48)

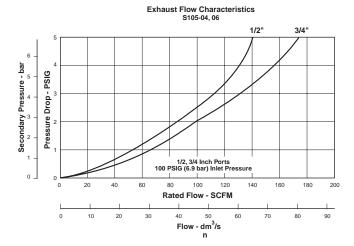
Inches (mm)



Technical Specifications - S75 & S105

Technical Information





QUBE S75 & S105 Series Kits & Accessories

Coil Kits -	
24VDC / 48VAC Coil	2EV103
12VDC / 24VAC Coil	2FV102
120 VAC Coil	
Seal Repair Kits –	
S75 Series	RKS75
S105 Series	
Exhaust Mufflers	
S75 (1/2" Exhaust)	M60-04
S105 (3/4" Exhaust)	M60-06
0 10 41	
Specifications	
Exhaust Ports	
S75	1/2 Inch
S105	3/4 Inch
Gauge Ports (Downstream pressure)	
S75 (2)	1/8 Inch

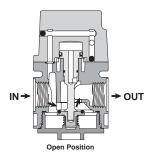
Maximum Pressure	145 PSIG (9.9 bar)
Minimum Operating Pressure	30 PSIG (2.1 bar)
Temperature Ratings	40°F to 120°F (4°C to 49°C)
Weight – S75S105	
Materials of Construction	
<u> </u>	7:
Body	∠inc
Bottom Plug	
	Brass
Bottom Plug	Brass Brass
Bottom Plug Internal Components	Brass Brass Nitrile
Bottom Plug	Brass Brass Nitrile Stainless Steel

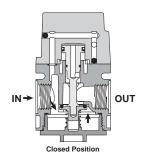


SSA75 & SSA105 Auto Pilot Soft Start Valve









Features

- Connects to Other QUBE Units Using Just Screws & O-Rings (Included)
- Integral Mounting Slots Eliminate Need for Mounting Brackets
- · Smooth Start-up of Pneumatic System
- Unit is Installed Downstream of Lubricator (If Used)
- Air Pilot Operation
- Large Flow Capacities Up to 5.5 Cv
- Inline or Modular Mounting

Operation

When pressure is supplied to the inlet port, gradual filling of the downstream system occurs through the adjustable needle valve. The piston opens the main valve when the downstream side of the valve reaches approximately 60% of the supply pressure. The ramp up time to reach the switch over pressure is adjustable via the needle valve in the cover.

The Auto pilot soft start valve is not intended to be used as a shut off valve and should always be placed after a shut off valve.

A CAUTION

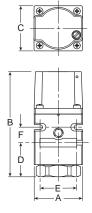
Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

⚠ CAUTION

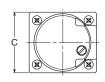
Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

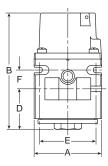
Ordering Information / Dimensions

SSA75 Series			
Model Number	Port (NPT)	Flow* Cv	
SSA75-03	3/8"	3.4	
SSA75-04	1/2"	3.8	



SSA105 Series			
Model Number	Port (NPT)	Flow* Cv	
SSA105-04	1/2"	6.8	
SSA105-06	3/4"	8.1	





Model	Α	В	С	D	E	F
SSA75	2.19	4.72	2.06	1.50	1.66	.72
	(56)	(120)	(52)	(38)	(42)	(18)

Model	Α	В	С	D	E	F
SSA105	3.03	5.25	2.75	1.50	2.53	.84
	(77)	(133)	(70)	(387)	(64)	(21)

Inches (mm)

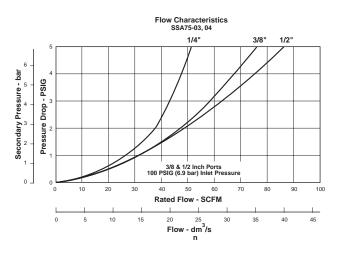


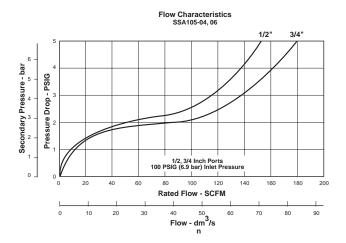
Inches (mm)

Technical Specifications - SSA75 & SSA105

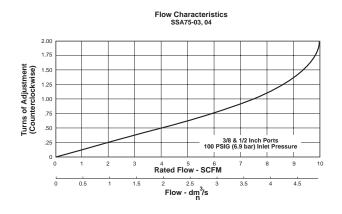
Technical Information

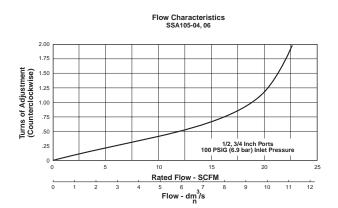
Flow Characteristics





Soft Start Adjustment





QUBE SSA75 & SSA105 Series Kits & Accessories

Repair Kits – SSA75 Series SSA105 Series	
Specifications	
Gauge Ports (Downstream Pressure)	
SSA75 (2)	1/8 Inch
SSA105 (2)	1/4 Inch
Maximum Pressure	300 PSIG (20.7 bar)
Minimum Operating Pressure	30 PSIG (2.1 bar)
Temperature Ratings	40°F to 120°F (4°C to 49°C)
Opens to Full Flow	60% Supply Pressure
Weight –	
SSA75	2.75 lb. (1.25 kg)
SSA105	

Materials of Construction

Body	Zinc
Bottom Plug – SSA75	Brass
SSA105	
Internal Components	Brass
Seals	Nitrile
Springs	Stainless Steel
Top Cover	Aluminum

