- The springless one-piece diaphragm pulse valves are especially designed for dust collector service applications, combining high flow, long life and extremely fast opening and closing to produce reliable and economical operation. The valves are selectable with integral or remote piloting.
- The high flow, angle type bodies, springless construction, in combination with the special diaphragm assemblies give the unique operating features required for dust collector service applications.
- Engineered to deliver a high-energy pulse of air while minimizing compressed air consumption. The valve delivers an average compressed air savings of 15%. Specific system savings can be calculated using this compressed air calculator. Series 353 Air Savings Calculator
- The design with patented Quick Mount Clamp connections eliminates the time consuming thread cutting and sealing resulting in maximum flexibility while the valve will be anchored to the pipes.
- Built-in silencers guarantee noise free operation and avoid foreign particles entering the valve.
- The integral operators are provided with epoxy moulded F-class coils.
- The valves satisfy all relevant EC directives.
- UL Recognized / CSA and RoHS compliant.

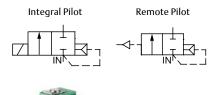


Body	Aluminium						
Core tube, core spring, core and plugnut	Stainless Steel						
Shading coil	Copper						
Sealings and disc	NBR (Nitrile)						
Diaphragm	TPE / TPE-LT						
Temperature	TPE - Standard	TPE - Low-Temp					
range	Ambient -20°C to +85°C (-4°F to 185°F) Cleaning Fluid -15°C to +85°C (5°F to 185°F) Dusty Gas -20°C to +140°C (-4°F to 284°F)	Ambient -40°C to +60°C (-40°F to 140°F) Cleaning Fluid -40°C to +60°C (-40°F to 140°F) Dusty Gas -40°C to +60°C (-40°F to 140°F)					

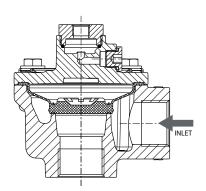
Electrical Characteristic (1)

Relative Duty Time	10%, max. on time 1 min.				
Coil insulation class	F - 155°C (311°F)				
Electrical enclosure protection	Moulded enclosure IP 65				
Electrical interface	Spade plug (Cable Ø 6 - 8 mm (0.24 - 0.32 inches)) , DIN 46244				
Electrical safety	IEC 335				
Voltage	DC 24V; AC 24V/50-60Hz, 120/60 - 110/50V/Hz, 230V/50-60Hz				

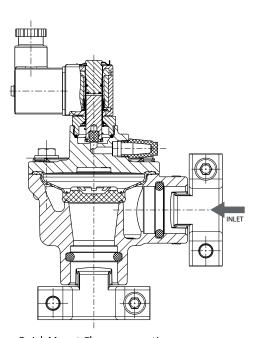
(1) More Information see pages 2 and 7







Threaded pipe connection



Quick Mount Clamp connection

Specifications

	ize				ating	Co	oil					Voltage Code					6
e (in)	Orifice Size	Flow F	actor	Differ	sure rential (psi)	Wat (1	tage I)	Connection Type	Catalog Number			0	110/50	09			Dimension Type (4)
Pipe Size (in)	mm (in)	Kv (m³/h)	Cv	Min	Max.	AC	DC			,,	Options (3)	24/50-60	120/60, 110/50	230/50-60	24/DC	Remote	Dimens
2-Way Normally Closed Aluminum Valve, TPE (One-Piece Diaphragm) Drawing																	
								NPT- Thread	NPT- Thread 8353K111		A00						4
								G -Thread	G353K111	0X	700					00	4
								Clamp (NPT - Bonnet)	K353K111	(Remote Pilot)	6AG					00	2
3/4"	32 (1-1/4")	13	15					Clamp (G - Bonnet)	K353K111		A00						2
	(, , ,							NPT- Thread	8353K111								3
						6,3	22	G -Thread	G353K111	S1 - DIN Coil (w/ connector)	A00	FQ	F0 FH	FH	F1		3
				2	8,5			Clamp	K353K111								1
				(30)	(125)			NPT - Thread	8353K211		A00						4
								G-Thread	G353K211	0X	7.00					00	4
								Clamp (NPT - Bonnet)	K353K211	(Remote Pilot)	6AG					00	2
1"	32 (1-1/4")	20	23					Clamp (G - Bonnet)	K353K211		A00	10				2	
	',',					NPT - Thread	8353K211								3		
						6,3 2		G -Thread	G353K211	S1 - DIN Coil (w/ connector)	A00	FQ	Q F0	FH	F1		3
								Clamp	K353K211								1

⁽¹⁾ Detailed technical information on the following page(s).

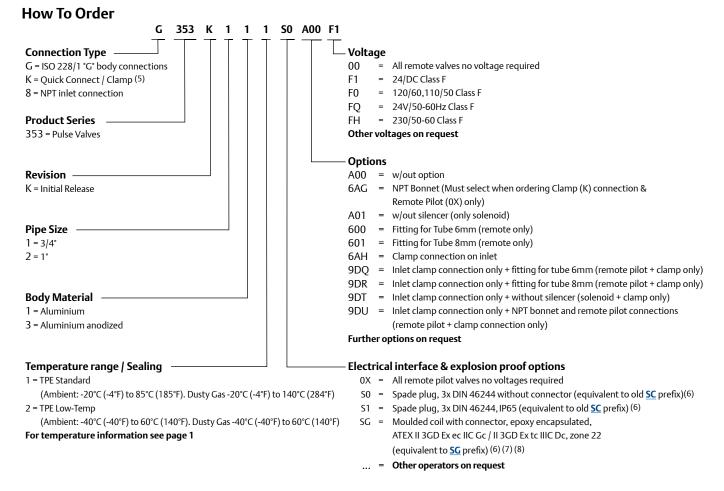
Quick Mount Clamp Connection - Remote Pilot Valves

Pipe Size (in)	Connection Type	Connection Type Catalog Number (Standard)		Valve Details		
2/4"	Clamp (NPT - Bonnet)	K353K1110X6AG00	K353K1120X6AG00	3/4", Clamp, Remote, NPT Bonnet		
3/4"	Clamp (G - Bonnet)	K353K1110XA0000	K353K1120XA0000	3/4", Clamp, Remote, G Bonnet		
1"	Clamp (NPT - Bonnet)	K353K2110X6AG00	K353K2120X6AG00	1", Clamp, Remote, NPT Bonnet		
'	Clamp (G - Bonnet)	K353K2110XA0000	K353K2120XA0000	1", Clamp, Remote, G Bonnet		

⁽³⁾ More options for each construction type on the following page(s).

 $[\]ensuremath{\text{(2)}}\ Electrical\ operator\ types\ on\ the\ following\ page(s).$

⁽⁴⁾ Dimensions, see drawing(s) for each construction type on the following page(s).



⁽⁵⁾ Selecting G for Connection Type will also include G thread for the Remote Pilot Port and selecting 8 for Connection Type will include NPT thread for the Remote Pilot Port. To select the thread type on the Remote Pilot Port for the Clamp Connections, please choose the appropriate Option in digits

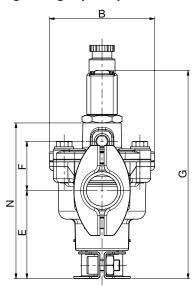
⁽⁶⁾ Dimensions on page 7 to find.
(7) Search prefix in **www.emerson.com/asco** to get detailed technical information. Please note that the valve pressure ratings with some of the ATEX enclosures will be reduced.

To obtain the correct pressure rating please check the landing pages of the "2-Way Solenoid Pulse Valve Configurator".

Dimensions: mm (inches)

Version with Quick Mount Clamp connection

Fig.1: Integral pilot operated



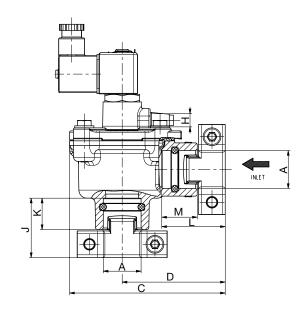
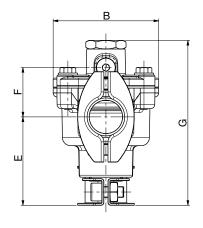


Fig.2: Remote pilot operated



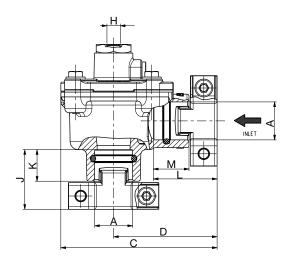
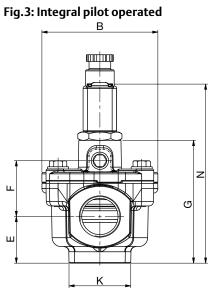


Fig.	A	В	С	D	E	F	G	Н	J	K	L	M	N	Weight kg (lbs)
1	G 3/4" NPT 3/4"	77 (3.032)	114 (4.488)	76 (2.992)	65 (2.559)	36 (1.417)	152 (5.984)	G1/8" NPT 1/8"	43.5 (1.713)	23 (0.906)	46.5 (1.831)	26 (1.024)	114 (4.488)	0,76 (1.68)
'	G 1" NPT 1"	77 (3.032)	120 (4.724)	82 (3.228)	71 (2.795)	40 (1.575)	162 (6.378)	G1/8" NPT 1/8"	44.5 (1.752)	23 (0.906)	44.5 (1.752)	23 (0.906)	124 (4.882)	0,90 (1.98)
_	3/4" NPT 3/4"	77 (3.032)	114 (4.488)	75.5 (2.972)	64,5 (2.539)	36 (1,417)	120.5 (4.744)	G1/8" NPT 1/8"	43.5 (1.713)	23 (0.906)	46.5 (1.831)	26 (1.024)	-	0,66 (1.46)
	G 1" NPT 1"	77 (3.032)	120 (4.724)	81.5 (3.209)	70,5 (2.776)	40 (1.575)	130.5 (5.138)	G1/8" NPT 1/8"	44.5 (1.752)	23 (0.906)	44.5 (1.752)	23 (0.906)	-	0,80 (1.76)

Dimensions: mm (inches)

Version with threaded pipe connection



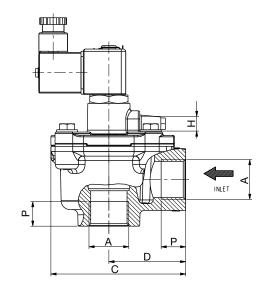
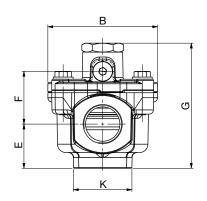


Fig.4: Remote pilot operated



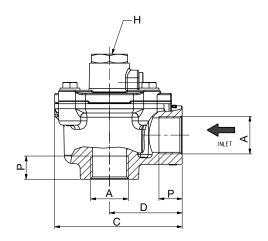


Fig.	A	В	С	D	E	F	G	Н	K	N	Р	Weight kg (lbs)
,	G 3/4" NPT 3/4"	77 (3.032)	90 (3.543)	51 (2.008)	31 (1.221)	37 (1.457)	81,5 (3.209)	G 1/8" NPT 1/8"	41 (1.614)	119 (4.685)	16 (0.630)	0,57 (1.26)
3	G 1" NPT 1"	77 (3.032)	90 (3.543)	51 (2.008)	31 (1.221)	37 (1.457)	81,5 (3.209)	G 1/8" NPT 1/8"	41 (1.614)	119 (4.685)	16 (0.630)	0,53 (1.17)
	G 3/4" NPT 3/4"	77 (3.032)	89,5 (3.524)	51 (2.008)	31 (1.221)	37 (1.457)	88 (3.465)	G 1/8" NPT 1/8"	41 (1.614)	-	16 (0.630)	0,47 (1.04)
4	G 1" NPT 1"	77 (3.032)	89,5 (3.524)	51 (2.008)	31 (1.221)	37 (1.457)	88 (3.465)	G 1/8" NPT 1/8"	41 (1.614)	-	16 (0.630)	0,44 (0.97)

Special designs and accessories

- ASCO Series E909 sequential controller to pilot valve Series 262 / 257.
- ASCO Series 110 / 125 pilot boxes containing 2 to 12 pilot solenoid valves
- The springless one-piece diaphragm pulse valves and the pilot valves can be equipped with explosion-proof solenoids in accordance with ATEX directives and national standards.
- Waterproof enclosure with embedded screw terminal coil according to CEE 10 (IP67)
- Further versions on request.

Installation

- The package consists of a pulse valve, solenoid (pre-assembled) and connector (supplied loose).
- The pulse valves can be mounted in any position without affecting operation.
- Threaded connections G (ISO 228/1), NPT, or patented Quick Mount Clamp connection.
- Installations with pipe lengths of more than 3 meters (9.8 feet) must be tested under operating conditions.
- Pipe diameters of 6 mm (0.24 inches) are recommended for all installations.
- In the patented Quick Mount Clamp connection tightness is achieved by the o-ring sealing on the pipes (3/4" = 26,4 (1.0") to 27,4 (1.1") and 1" = 33,2 (1.3") to 34,2 (1.4") according to ISO 4200.
- Installation and maintenance instructions are included with each valve.
- Declarations of conformity are available on request.

Remote Pilot

• When connecting the piping to the G or NPT 1/8" connection in the valve bonnet, the external ASCO™ pilot valve must be mounted as close as possible to the main pulse valve. Piping lengths of up to 3 meters (9.8 feet) have only a minor influence on the pulse time.

Explanations of temperatures

	
Valve temperature range	The temperature range for the pulse valve is determined by selecting the diaphragm (TPE or TPE-LT).
Operator ambient temperature range	The ambient temperature range for the operator is determined by the selected power level and type of protection. $ \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{$
Total temperature range	The temperature range of the entire pulse valve is determined by the limits of the two temperature ranges listed above.
Dusty gas temperature range	The dusty gas temperature range with the TPE standard diaphragm is -20°C (-4°F) to 140°C (284°F). The dusty gas temperature range with the TPE low-temp diaphragm is -40°C (-40°F) to 60°C (140°F)

Rebuild Kits (1)

Remote Pilot											
Pipe Size	Base Catalog	Diaphragm Kit	Diaphragm Kit	Clamp Kit							
(in)	353	(1pc)	(10 pcs)	(1x)							
TPE Standard											
3/4"	353K111	M200697	M200699	M200701							
1"	353K211	WI200697	WI200699	M200702							
TPE Low	TPE Low-Temp										
3/4"	353K112	M200698	M200700	M200701							
1"	353K212	IVI200098	WI200700	M200702							

	Integral Pilot											
Pipe Size	Base Catalog	Spare Parts	Diaphragm Kit	Diaphragm Kit	Clamp Kit							
(in)	353	Kit	(1pc)	(10 pcs)								
TPE Standard												
3/4"	353K111	M200695	M200697	M200699	M200701							
1"	353K211	IVIZUUG95		IVI200699	M200702							
TPE Low	TPE Low-Temp											
3/4"	353K112	M200696	M200698	M200700	M200701							
1"	353K212	IVIZUU090	IVIZUU098	IVI200700	M200702							

⁽¹⁾ See installation and maintenace instruction for detailed information.

ASCO™ Pulse Valves

Electrical characteristics

Coil insulation class F Electrical safety IEC 335

Voltages DC (=) 24 V, permissible voltage tolerance \pm 10%

AC (~) 24V / 50-60Hz, 1120/60 - 110/50V/Hz, 230V / 50-60Hz (other voltages on request)

Pilot			Operator ambient		Electrical enclosure		Replacement coi	l / Spare parts kit		Type
operated (1)	AC ~	DC =	°C (°F) (2)	Safety code	protection (EN 60529)	24V/50-60 Hz 230V/50/60 Hz 120/60-110/50 Hz		120/60-110/50 Hz	= 24 V/DC	Type (3)
Basic Power										
S1, S0	6,3	22	-40 to +75 (-40 to +167)	EN 60730	IP65, moulded	400129-502	400129-528	400129-225	400127-642	01
SG	6,3	22	-10 to +60 (-14 to +140)	II3 GD Ex ec IIC T6-T4 Gc, Ex tc IIIC T110°C Dc	IP65X, moulded	M2004090SGA00 FQ (4)	M2004090SGA00 FH (4)	M2004090SGA00 F0 (4)	M2004090SGA00 F1 (4)	02

⁽¹⁾ Electrical interface as described in the order code. Other versions are available on request.

Electrical Connections

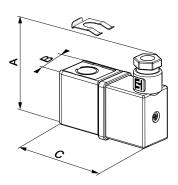
Electrical Interface	Connection
SG, S1	Cable gland connector EN175301-803A (ISO 4400) for cables with an O.D. from 6 to 10 mm (0.24 to 0.39 inches).

Dimensions: mm (inch)



Type 01

"\$1", "\$0" Solenoid with spade plug connector size 22 - 11mm (0.43 inches) ISO 4400, IEC 335

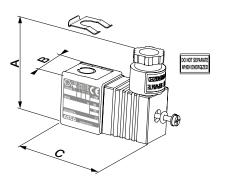


Α	В	С	Weight kg (lbs)
49	22	61	0,08
(1,929)	(0.866)	(2.401)	(0.18)



Type 02

"SG" Solenoid with spade plug connector size 22- 11mm (0.43 inches) EN 175301-803 Industry standard form B IP65



	Α	В	С	Weight kg (lbs)
ĺ	49	22	61	0,08
	(1,929)	(0.866)	(2.401)	(0.18)

⁽²⁾ Temperature range can be limited by sealings.

 $^{{\}it (3)} \ Refer to the dimensional drawings below.$

⁽⁴⁾ ATEX Coil Kit "SG" available, please contact us.