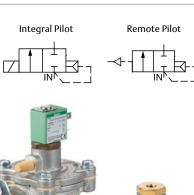
- The springless one-piece diaphragm pulse valves are especially designed for dust collector service applications, combining high flow, long life and extremely fast opening and closing to produce reliable and economical operation. The valves are selectable with integral or remote piloting.
- The high 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.

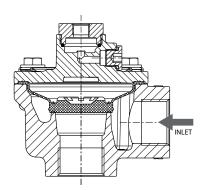
General Valve Information

Body	Aluminium						
Core tube, core spring, core and plugnut	Stainless Steel						
Shading coil	opper						
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)					

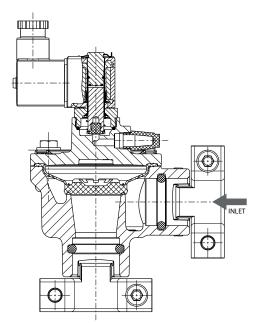
Electrical Characteristic(1)

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					





Threaded pipe connection



Quick Mount Clamp connection



353

Series

(1) More Information see pages 2 and 7

Specifications

	ize				ating	C	oil					Voltage Code					(4)
e (in)	Orifice Size	Flow F	actor	Diffe	sure rential (psi)	Wat (tage I)	Connection Type	Catalog Number	Electrical Interface (2)	(3)	0	110/50	60			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 8353K111		A00						4	
								G -Thread	G353K111	0X (Remote Pilot)	AUU						4
								Clamp (NPT - Bonnet)	K353K111		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	F1		3
				2	8,5			Clamp	K353K111	(,,					ļ		1
				(30)	(125)			NPT - Thread	8353K211		A00						4
								G-Thread	G353K211	0X	//00					00	4
								Clamp (NPT - Bonnet)	K353K211							00	2
1"	32 (1-1/4")	20	23					Clamp (G - Bonnet)	K353K211			10			2		
								NPT - Thread	8353K211								3
						6,3	22	G -Thread	G353K211	S1 - DIN Coil (w/ connector)	A00	FQ	F0	FH	F1		3
								Clamp	K353K211								1

Detailed technical information on the following page(s).
More options for each construction type on the following page(s).

(2) Electrical operator types on the following page(s).

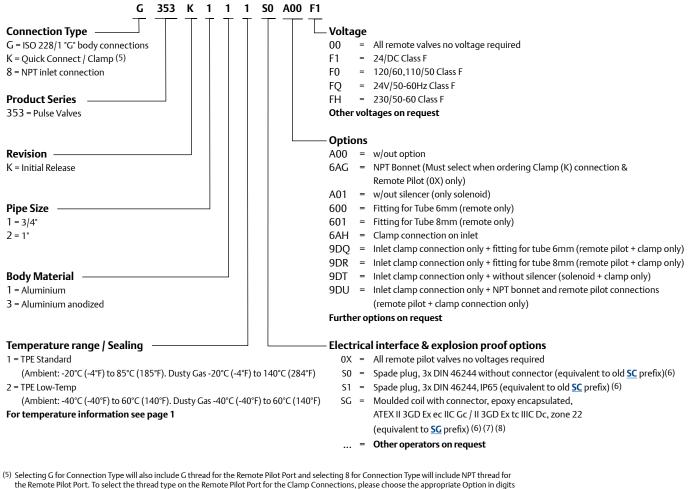
(4) Dimensions, see drawing(s) for each construction type on the following page(s).

Quick Mount Clamp Connection - Remote Pilot Valves

Pipe Size (in)	Connection Type	Catalog Number (Standard)	Catalog Number (Low-Temp)	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		

ASCO[™] Pulse Valves

How To Order



11-13 (i.e. 6AG for NPT thread).

 (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.

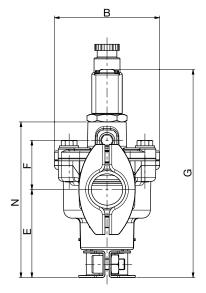
To obtain the correct pressure rating please check the landing pages of the "2-Way Solenoid Pulse Valve Configurator". (8) Coils class F only.



Dimensions: mm (inches)

Version with Quick Mount Clamp connection

Fig.1: Integral pilot operated



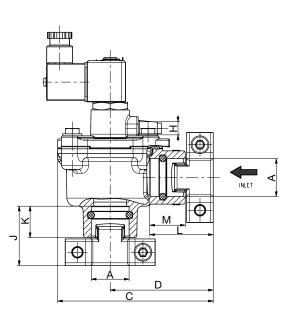
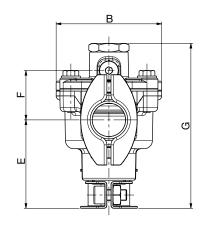


Fig.2: Remote pilot operated



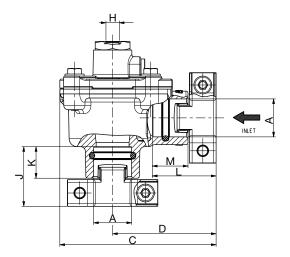


Fig.	A	В	C	D	E	F	G	н	J	K	L	М	N
1	G 3/4" NPT 3/4"	77 (3.032)	114 (4.488)	76 (2.992)	65 (2.559)	36 (1.417)	152 (5.984)	G1/8" NPT 1/8"	43.5 (1.713)	23 (0.906)	46.5 (1.831)	26 (1.024)	114 (4.488)
I	G 1" NPT 1"	77 (3.032)	120 (4.724)	82 (3.228)	71 (2.795)	40 (1.575)	162 (6.378)	G1/8" NPT 1/8"	44.5 (1.752)	23 (0.906)	44.5 (1.752)	23 (0.906)	124 (4.882)
2	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)	-
2	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)	-
		1			1					1			

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4



Weight kg (lbs) 0,76 (1.68)

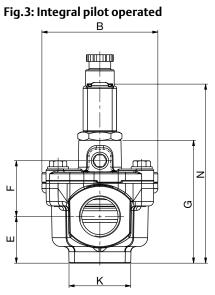
0,90 (1.98)

0,66 (1.46) 0,80 (1.76)

Series 353

Dimensions: mm (inches)

Version with threaded pipe connection



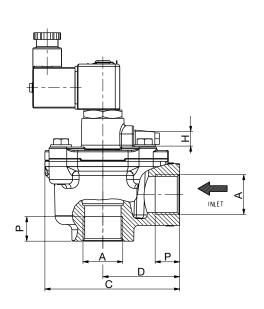
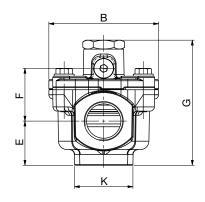


Fig.4: Remote pilot operated



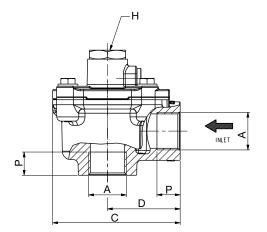


Fig.	A	В	С	D	E	F	G	Н	К	N	Р	Weight kg (lbs)	
2	G 3/4" NPT 3/4"	77 (3.032)	90 (3.543)	51 (2.008)	31 (1.221)	37 (1.457)			41 (1.614)	119 (4.685)	16 (0.630)	0,57 (1.26)	
3	G 1" NPT 1"	77 (3.032)	90 (3.543)	51 (2.008)	31 (1.221)	37 (1.457)	81,5 (3.209)	G 1/8" NPT 1/8"	41 (1.614)	119 (4.685)	16 (0.630)	0,53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



Series 353

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.					
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 Pile	ot		Integral Pilot								
Pipe Size		Diaphragm Kit	Diaphragm Kit	Clamp Kit	Pipe Size		Spare Parts	Diaphragm Kit	Diaphragm Kit	Clamp Kit			
(in)	353	(1pc)	(10 pcs)	(1x)	(in)	353	Kit	(1pc)	(10 pcs)	(1x)			
TPE Stan	dard				TPE Standard								
3/4"	353K111		11200607	11200007	11200007	M200000	M200701	3/4"	353K111	MORECOF	N200007	11200000	M200701
1"	353K211	M200697	M200699	M200702	1"	353K211	M200695	M200697	M200699	M200702			
TPE Low	-Temp				TPE Low-Temp								
3/4"	353K112	M200C08	M200700	M200701	3/4"	353K112	MODEOC	MOOCOR	N200700	M200701			
1"	353K212	M200698	M200700	M200702	1"	353K212	M200696	M200698	M200700	M200702			

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



Electrical characteristics

Coil insulation class	F
Electrical safety	IFC 335
Voltages	DC (=) 24 V, permissible voltage tolerance ± 10% AC (~) 24V / 50-60Hz, 1120/60 - 110/50V/Hz, 230V / 50-60Hz (other voltages on request)

Pilot operated			ambient	Safety code	Electrical enclosure		Replacement coi ~	l / Spare parts kit	=	Type (3)		
(1)			protection (EN 60529)	24V/50-60 Hz	230V/50/60 Hz	120/60-110/50 Hz	24 V/DC	(3)				
Basic Po	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.

(2) Temperature range can be limited by sealings.

(3) Refer to the dimensional drawings below.

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

Electrical Connections

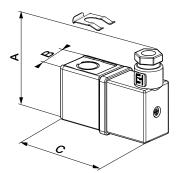
Electrical Interface	Connection
SG, S1	Cable gland connector EN175301-803A (ISO 4400) for cables with an O.D. from 6 to 10 mm (0.24 to 0.39 inches).

Dimensions: mm (inch)



Type 01

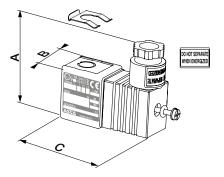
"S1", "S0" Solenoid with spade plug connector size 22 - 11mm (0.43 inches) ISO 4400, IEC 335



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



A	E	3	С	Weight kg (lbs)
49	2	2	61	0,08
(1,929)	(0.8	66)	(2.401)	(0.18)

